

#INCLUSive GFF File

#id: box_1_1_TTTkswTw,instances: 4485,cs: 1.33,ic: 1.35,ll: 17971.05

chr15_72835733_72836076_343+_HSD17B3	409	416	1536.63	+	site "TATTGATT"
chr2_70168393_70169177_784+_HSD17B4	185	192	2827.58	+	site "TTTTCTTT"
chr2_70168393_70169177_784+_HSD17B4	409	416	1656.48	+	site "TTTTGTTT"
chr2_70168393_70169177_784+_HSD17B4	550	557	1183.25	-	site "TTTTCTTA"
chr14_20231476_20232246_770+_ANG	678	685	1097.6	+	site "TTTTCTTT"
chr1_205366630_205366968_338+_C4BPA	405	412	1426.04	+	site "TATTCTTA"
chr1_205366630_205366968_338+_C4BPA	368	375	2039.71	-	site "TTTGCTTT"
chr1_205366630_205366968_338+_C4BPA	419	426	1527.65	-	site "TTTTCTTT"
chr1_205366630_205366968_338+_C4BPA	238	245	775.019	-	site "TATTCATT"
chr4_88444503_88445580_1077+_HSD17B13	662	669	2150.73	+	site "TTTTCAATT"
chr4_88444503_88445580_1077+_HSD17B13	695	702	1217.22	+	site "TTTTCATA"
chr4_88444503_88445580_1077+_HSD17B13	901	908	2064.92	-	site "TTATCTTT"
chr4_88444503_88445580_1077+_HSD17B13	1025	1032	1284.38	-	site "TTATCAATT"
chr19_53811090_53811356_266+_RPL18	435	442	1000.7	+	site "TATGCATA"
chr19_53811090_53811356_266+_RPL18	168	175	1620.65	-	site "TTTTCAATT"
chrX_138471299_138473337_2038+_F9	1401	1408	2581.68	+	site "TTAGCTTA"
chrX_138471299_138473337_2038+_F9	1635	1642	2031.46	-	site "TTTGTTTT"
chr8_70764845_70765273_428+_SLCO5A1	616	623	1269.58	+	site "TTTTCATA"
chr8_70764845_70765273_428+_SLCO5A1	276	283	1196.19	-	site "TTTTGTTT"
chr8_70764845_70765273_428+_SLCO5A1	332	339	1120.17	-	site "TTTTCTTT"
chr8_105460934_105461330_396+_DPYS	516	523	1328.73	+	site "TTAGGTTA"
chr8_105460934_105461330_396+_DPYS	2	9	1636.96	-	site "TTTTCAATT"
chr8_105460934_105461330_396+_DPYS	64	71	1505.05	-	site "TTTTCTTA"
chrX_70360199_70361842_1643+_GJB1	375	382	2147.17	+	site "TTATCTTT"
chrX_70360199_70361842_1643+_GJB1	831	838	1908.23	+	site "TTTGTTTT"
chr9_103162491_103163755_1264+_BAAT	1296	1303	2227.66	+	site "TTTTGTTT"

chr9_103162491_103163755_1264+_BAAT	634	641	1873.56	+	site "TTTTCTTT"
chr9_103162491_103163755_1264+_BAAT	302	309	1630.98	+	site "TTTTGTTT"
chr9_103162491_103163755_1264+_BAAT	726	733	1451.66	+	site "TTTGCTTT"
chr3_187939517_187939995_478+_KNG1	543	550	2643.52	+	site "TTTGCTTT"
chr3_187939517_187939995_478+_KNG1	552	559	2039.71	-	site "TTTGCTTT"
chr3_187939517_187939995_478+_KNG1	207	214	834.265	-	site "TTTTCATA"
chr1_24000885_24001699_814+_HMGCL	374	381	3231.3	+	site "TTTGCTTA"
chr16_54420124_54420486_362+_CES1	189	196	2540.62	+	site "TTTGCTTA"
chr16_54420124_54420486_362+_CES1	96	103	1552.6	+	site "TTTGCTTT"
chr16_54420124_54420486_362+_CES1	488	495	1158.78	-	site "TATGCTTA"
chr16_54420124_54420486_362+_CES1	77	84	879.241	-	site "TTTTGTTT"
chr6_64347853_64348887_1034+_PTP4A1	577	584	2437.58	+	site "TTTGCTTT"
chr6_64347853_64348887_1034+_PTP4A1	105	112	1161.18	+	site "TTTGCATA"
chr6_64347853_64348887_1034+_PTP4A1	844	851	998.955	+	site "TTTTCTTT"
chr6_64347853_64348887_1034+_PTP4A1	1023	1030	869.814	+	site "TATTCTTT"
chr6_64347853_64348887_1034+_PTP4A1	497	504	1303.17	-	site "TTTTCAAT"
chr14_69312267_69312908_641+_SLC10A1	819	826	1304.75	+	site "TTTGCTTA"
chr14_69312267_69312908_641+_SLC10A1	185	192	1194.52	+	site "TTATCAAT"
chr12_49610869_49611426_557+_METTL7A	670	677	1370.67	+	site "TTTGCTTT"
chr1_116748520_116748944_424+_ATP1A1	34	41	1707.16	+	site "TTTTCTTT"
chr9_127038624_127039174_550+_HSPA5	449	456	1085.96	+	site "TTAGCTTT"
chr9_127038624_127039174_550+_HSPA5	234	241	1098.37	-	site "TTTTCTTT"
chr4_185913747_185915464_1717+_ACSL1	500	507	2009.36	+	site "TTTTGATT"
chr4_185913747_185915464_1717+_ACSL1	732	739	1258.81	-	site "TTTGCATA"
chr1_148815040_148815481_441+_MCL1	338	345	1822.07	+	site "TTTTGTTT"
chr1_148815040_148815481_441+_MCL1	322	329	1683.01	-	site "TTTTGTTA"
chr2_55053366_55053897_531+_RTN4	53	60	2957	+	site "TTTGCTTT"
chr2_55053366_55053897_531+_RTN4	113	120	1600.75	+	site "TTTTGATA"
chr2_55053366_55053897_531+_RTN4	523	530	1180.24	-	site "TATGGTTA"

chr6_161057619_161057886_267_+_PLG	9	16	1557.9	+	site "TATTCTTA"
chr16_54412716_54413037_321_+_CES1	455	462	2403.02	+	site "TTTGCTTA"
chr6_133162474_133162698_224_+_C6orf192	19	26	1157.47	+	site "TTATGTTT"
chr6_133162474_133162698_224_+_C6orf192	92	99	1873.56	-	site "TTTTCTTT"
chr8_8936227_8936425_198_+_THEX1	194	201	2093.69	+	site "TTATCTTT"
chr2_216001121_216001343_222_+_FN1	269	276	1196.19	+	site "TTTTGTTT"
chr2_216001121_216001343_222_+_FN1	126	133	1154.88	-	site "TTTTCA TT"
chr4_74504743_74506075_1332_+_ALB	324	331	2773	+	site "TTTGCTTT"
chr8_22335266_22336109_843_+_SLC39A14	967	974	1091.58	+	site "TATGCATT"
chr17_38316388_38318461_2073_+_G6PC	1291	1298	2362.22	+	site "TTTGCTTT"
chr6_160462921_160463454_533_+_SLC22A1	699	706	3565.07	+	site "TTTGCTTT"
chr12_16401721_16402003_282_+_MGST1	323	330	1716.51	+	site "TATTCTTT"
chr12_16401721_16402003_282_+_MGST1	153	160	885.09	-	site "TTTTCA TT"
chr1_169352838_169353459_621_+_FMO3	575	582	1546.04	+	site "TTTGCA TT"
chr14_94150447_94151250_803_+_SERPINA3	944	951	2009.47	+	site "TTTTGTTT"
chr14_94150447_94151250_803_+_SERPINA3	973	980	1471.39	+	site "TATTCTTA"
chr12_45038777_45040244_1467_+_SLC38A2	677	684	1905.92	+	site "TTTTCTTA"
chr12_45038777_45040244_1467_+_SLC38A2	1038	1045	2320.38	-	site "TTTGCTTA"
chr2_215933856_215934694_838_+_FN1	1002	1009	1913.95	+	site "TTATGTTT"
chr2_215933856_215934694_838_+_FN1	387	394	2088.61	-	site "TATGCCTT"
chr2_215933856_215934694_838_+_FN1	856	863	1030.01	-	site "TTTTCTTT"
chr19_19499803_19500088_285_+_NDUFA13	14	21	2333	+	site "TTTGCTTT"
chr19_19499803_19500088_285_+_NDUFA13	432	439	1734.81	+	site "TTTGCTTT"
chr11_34429041_34429307_266_+_CAT	376	383	1094.13	+	site "TATTGTTT"
chr4_155724078_155725246_1168_+_FGA	195	202	3231.3	+	site "TTTGCTTA"
chr4_155724078_155725246_1168_+_FGA	433	440	2350.68	-	site "TTTTCTTT"
chr4_155724078_155725246_1168_+_FGA	413	420	1394.79	-	site "TTTGCTTA"
chr15_62241244_62241484_240_+_PPIB	363	370	1767.96	+	site "TTTTCTTT"
chr15_62241244_62241484_240_+_PPIB	172	179	1248.67	-	site "TTATGATT"

chr9_115188599_115189595_996+_ALAD	442	449	1371.36	+	site "TTTTGATA"
chr9_115188599_115189595_996+_ALAD	418	425	1098.37	-	site "TTTTCTTT"
chr12_112314625_112315361_736+_SDS	642	649	2662.91	+	site "TTTGCTTA"
chr15_72829598_72829970_372+_CYP1A2	400	407	1742.11	+	site "TTTGCTTT"
chr15_72829598_72829970_372+_CYP1A2	106	113	1160.58	-	site "TATTCTTT"
chr3_188277924_188279076_1152+_ST6GAL1	1101	1108	1905.92	+	site "TTTTCTTA"
chr14_93845770_93846199_429+_SERPINA6	613	620	1770.26	+	site "TTTGCAAT"
chr14_93845770_93846199_429+_SERPINA6	12	19	816.267	-	site "TTTGGTTA"
chr1_57155796_57156442_646+_C8A	832	839	2732.74	+	site "TATGCTTT"
chr19_6635315_6636248_933+_C3	886	893	2636.5	+	site "TTTTCTTA"
chr19_6635315_6636248_933+_C3	938	945	1981.47	-	site "TTTTCTTT"
chr15_43440996_43441797_801+_GATM	291	298	4066.59	+	site "TTATCTTT"
chr15_43440996_43441797_801+_GATM	516	523	2052.1	+	site "TTTTCTTA"
chr15_43440996_43441797_801+_GATM	116	123	1602.9	+	site "TTTGGTTT"
chr15_43440996_43441797_801+_GATM	548	555	1281.5	-	site "TTTTCTTT"
chr2_20510261_20512582_2321+_RHOB	261	268	2039.71	+	site "TTTGCTTT"
chr2_20510261_20512582_2321+_RHOB	1538	1545	1806.16	+	site "TTTTGTTT"
chr2_20510261_20512582_2321+_RHOB	545	552	1781.9	-	site "TTAGCTTT"
chr2_20510261_20512582_2321+_RHOB	2070	2077	1514.8	-	site "TTTTGTTT"
chr2_20510261_20512582_2321+_RHOB	650	657	1392.13	-	site "TTAGCTTA"
chr4_100484985_100485329_344+_ADH1C	492	499	1094.25	+	site "TATTCATT"
chr16_28456184_28456518_334+_NUPR1	339	346	1338.24	+	site "TTTTCAAT"
chr4_100451617_100451915_298+_ADH1B	479	486	1562.11	+	site "TTATGTTT"
chr5_41178100_41178940_840+_C6	496	503	1270.89	+	site "TTTTCTTT"
chr1_224094081_224094461_380+_EPHX1	298	305	1247.83	+	site "TATTGTTA"
chr17_2539405_2539625_220+_KIAA0664	164	171	1180.09	+	site "TATGGTTT"
chr21_46394661_46395032_371+_FTCD	86	93	1573.06	+	site "TTTGGTTT"
chr9_74721577_74721927_350+_ALDH1A1	126	133	1604.7	+	site "TATTCTTT"
chr3_150373092_150374259_1167+_HPS3	243	250	3324.15	+	site "TTTGCTTA"

chr3_150373092_150374259_1167+_HPS3	1024	1031	2778.9	-	site "TTTTCTTT"
chr2_234650166_234650510_344+_SPP2	129	136	589.1	+	site "TATGGTTA"
chr2_234650166_234650510_344+_SPP2	1	8	3826.42	-	site "TTTGCTTT"
chr2_234650166_234650510_344+_SPP2	436	443	2039.08	-	site "TTTGCATA"
chr2_215940755_215941100_345+_FN1	152	159	2199.36	+	site "TTTTCTTT"
chr2_215940755_215941100_345+_FN1	465	472	1602.37	+	site "TTTGCTTT"
chr2_215940755_215941100_345+_FN1	476	483	1489.55	-	site "TTTTCTTA"
chr4_100479687_100479993_306+_ADH1C	105	112	765.075	+	site "TTTTCATA"
chr4_100479687_100479993_306+_ADH1C	157	164	1293.84	-	site "TTTGCTTT"
chr5_99412772_99413575_803+_---	953	960	1329.2	+	site "TATTCATT"
chr1_169349794_169350211_417+_FMO3	585	592	1422.46	+	site "TTTGCACTT"
chr1_169349794_169350211_417+_FMO3	239	246	1196.19	+	site "TTTTGTTT"
chr1_169349794_169350211_417+_FMO3	217	224	1149.91	+	site "TTTGCTTT"
chr1_169349794_169350211_417+_FMO3	554	561	942.198	-	site "TTTTGATA"
chr2_219386936_219387261_325+_CYP27A1	132	139	2007.37	+	site "TATTCTTA"
chr2_219386936_219387261_325+_CYP27A1	140	147	592.308	-	site "TAAGCTTA"
chr10_13370325_13370641_316+_PHYH	312	319	1489.55	+	site "TTTTCTTA"
chr12_45446125_45446738_613+_SLC38A4	289	296	869.814	+	site "TATTCTTT"
chr12_45446125_45446738_613+_SLC38A4	280	287	1083.9	-	site "TTATCTTA"
chr1_554812_560276_5464+_---	5612	5619	2009.47	+	site "TTTTGTTT"
chr1_554812_560276_5464+_---	4280	4287	3050.69	-	site "TTTGCTTA"
chr3_188275999_188277894_1895+_ST6GAL1	1597	1604	884.382	+	site "TATTCTTT"
chr3_188275999_188277894_1895+_ST6GAL1	1714	1721	1905.92	-	site "TTTTCTTA"
chr7_45918498_45920041_1543+_IGFBP3	1577	1584	1756.76	+	site "TTTTCATA"
chr7_45918498_45920041_1543+_IGFBP3	969	976	1225.22	-	site "TTAGGTTA"
chr14_23638054_23638338_284+_PCK2	452	459	1203.75	+	site "TTTTGTTT"
chr14_74817573_74818499_926+_FOS	540	547	1903.57	+	site "TTTTCTTT"
chr14_74817573_74818499_926+_FOS	283	290	1349.79	+	site "TTTTGTTT"
chr14_74817573_74818499_926+_FOS	525	532	1617.77	-	site "TTTTCTTT"

chr14_74817573_74818499_926+_FOS	409	416	1429.63	-	site "TTTTCAATT"
chr1_226352640_226353502_862+_ARF1	683	690	1346.68	+	site "TATTCTTT"
chr1_226352640_226353502_862+_ARF1	922	929	1488.38	-	site "TTAGCTTA"
chr1_226352640_226353502_862+_ARF1	276	283	1272.22	-	site "TTTGGAATT"
chr1_226352640_226353502_862+_ARF1	665	672	879.241	-	site "TTTTGTTT"
chr5_41185113_41185407_294+_C6	40	47	960.789	+	site "TTTTGTTA"
chr4_74582170_74582402_232+_AFM	72	79	3319.11	+	site "TTTGCTTT"
chr13_112821703_112822373_670+_F7	801	808	2632.5	+	site "TTTTCTTT"
chr13_112821703_112822373_670+_F7	84	91	1549.83	-	site "TTTTCAATT"
chr12_48439205_48439471_266+_TEGT	223	230	1263.7	+	site "TTTTCAATT"
chr12_48439205_48439471_266+_TEGT	239	246	935.537	+	site "TATTGTTA"
chr3_187943571_187944496_925+_KNG1	671	678	2170.34	+	site "TTTGCTTA"
chr3_187943571_187944496_925+_KNG1	59	66	3083.54	-	site "TTTGCTTT"
chr17_18174557_18174782_225+_SHMT1	135	142	1959.17	+	site "TTTTCTTT"
chr6_52765540_52765803_263+_GSTA1	442	449	1043.29	+	site "TTAGGTTT"
chr6_52765540_52765803_263+_GSTA1	283	290	1337.83	-	site "TTATGTTT"
chr14_94099676_94100280_604+_SERPINA4	21	28	1785.77	+	site "TTAGGTTA"
chr14_94099676_94100280_604+_SERPINA4	317	324	1381.49	+	site "TTTTCTTA"
chr14_94099676_94100280_604+_SERPINA4	526	533	669.233	-	site "TTAGCAATT"
chr12_101812585_101812915_330+_PAH	234	241	1603.18	+	site "TATTCATT"
chr3_52221245_52221548_303+_ALAS1	493	500	1924.99	+	site "TTTTGTTT"
chr11_1732649_1732905_256+_CTSD	13	20	1027.36	+	site "TATTGTTT"
chr5_78457625_78457895_270+_BHMT	373	380	1940.07	+	site "TTTTCAATT"
chr3_150402543_150402791_248+_CP	125	132	1439.45	+	site "TTTTCTTT"
chr3_187941926_187943305_1379+_KNG1	1027	1034	1869.2	+	site "TTTTCTTT"
chr4_155729965_155730411_446+_FGA	477	484	1327.51	+	site "TTTTCTTA"
chr4_155729965_155730411_446+_FGA	234	241	1231.35	-	site "TTTGCTTA"
chr8_99183775_99184396_621+_HRSP12	708	715	858.917	+	site "TATGCATA"
chr8_99183775_99184396_621+_HRSP12	708	715	857.739	-	site "TATGCATA"

chr19_12034420_12034638_218_+---	168	175	2338.5	+	site "TTATCTTA"
chr19_12034420_12034638_218_+---	201	208	2251.59	-	site "TATGCTTA"
chr2_219382522_219382823_301_+_CYP27A1	480	487	1073.66	+	site "TTATGTTT"
chrX_5096810_5097201_391_+---	304	311	853.895	+	site "TTTGCATA"
chrX_5096810_5097201_391_+---	386	393	3278.09	-	site "TTTGCTTT"
chrX_5096810_5097201_391_+---	486	493	1171.96	-	site "TTTTCTTA"
chr9_103164369_103165208_839_+_BAAT	639	646	1110.77	+	site "TTTTCATT"
chr9_103164369_103165208_839_+_BAAT	625	632	1200.2	-	site "TTTGCATA"
chr3_49696333_49696655_322_+_MST1	10	17	612.006	+	site "TAAGCTTA"
chr3_49696333_49696655_322_+_MST1	10	17	857.933	-	site "TAAGCTTA"
chr3_38142959_38143273_314_+_ACAA1	55	62	1840.38	+	site "TTTTCTTA"
chr3_38142959_38143273_314_+_ACAA1	423	430	1587.5	+	site "TTTGCATT"
chr4_100487144_100487423_279_+_ADH1C	453	460	1630.98	+	site "TTTTGTTT"
chr12_7167642_7168121_479_+_RBP5	182	189	2640.14	+	site "TTTGTTTA"
chr3_150386963_150387282_319_+_CP	143	150	1194.52	+	site "TTATCATT"
chr3_150386963_150387282_319_+_CP	49	56	3322.46	-	site "TATGCTTT"
chr3_150386963_150387282_319_+_CP	161	168	1368.12	-	site "TTTTGTTT"
chr3_150386963_150387282_319_+_CP	68	75	812.918	-	site "TTTGTTT"
chr4_100282769_100283053_284_+_ADH4	70	77	663.535	+	site "TTATGATA"
chr4_100282769_100283053_284_+_ADH4	71	78	1397.88	-	site "TTATCATA"
chr11_77456302_77457088_786_+_THRSP	502	509	1759.14	+	site "TTTTCATT"
chr2_211181275_211181604_329_+_CPS1	253	260	932.516	+	site "TTTTGATA"
chr4_72853840_72854072_232_+_GC	311	318	1686.69	+	site "TTATCATT"
chr4_72853840_72854072_232_+_GC	105	112	1124.06	+	site "TTAGCATT"
chr4_72853840_72854072_232_+_GC	196	203	749.407	-	site "TTTTCATT"
chr4_72853840_72854072_232_+_GC	426	433	688.083	-	site "TTAGCATA"
chr20_55573738_55574859_1121_+_PCK1	634	641	1791.31	+	site "TTATGTTT"
chr14_20222561_20222839_278_+_ANG	121	128	967.145	+	site "TTTGCATA"
chr14_20222561_20222839_278_+_ANG	425	432	795.833	+	site "TAAGCTTT"

chr5_139991423_139993031_1608+_CD14	5	12	1903.57	+	site "TTTTCTTT"
chr5_139991423_139993031_1608+_CD14	92	99	1852.92	-	site "TATTCTTT"
chr14_94128102_94129241_1139+_SERPINA5	1036	1043	1763.22	+	site "TTATGTTA"
chr14_94128102_94129241_1139+_SERPINA5	383	390	1786.11	-	site "TATGCTTT"
chr12_48432443_48432690_247+_TEGT	22	29	704.066	+	site "TTATCATT"
chr5_99411868_99412330_462+_---	653	660	1412.33	+	site "TTTGCTTT"
chr5_99411868_99412330_462+_---	166	173	951.607	+	site "TATTGTTA"
chr5_99411868_99412330_462+_---	445	452	2339.02	-	site "TTTTCAATT"
chr5_99411868_99412330_462+_---	329	336	1353.57	-	site "TTATCTTA"
chr5_99411868_99412330_462+_---	434	441	1248.67	-	site "TTATGATT"
chr11_75189361_75190226_865+_DGAT2	737	744	1292.84	+	site "TATTCATT"
chr1_120097342_120097615_273+_HMGCS2	94	101	627.74	+	site "TTATGATA"
chr1_120097342_120097615_273+_HMGCS2	405	412	2292.53	-	site "TTTTCTTA"
chr2_201241527_201241852_325+_AOX1	354	361	593.597	+	site "TATTCTTT"
chr1_194962192_194962791_599+_CFH	593	600	2354.97	+	site "TTTGCAATT"
chr1_194962192_194962791_599+_CFH	545	552	2168.83	+	site "TTATCTTA"
chr1_194962192_194962791_599+_CFH	702	709	991.586	+	site "TTTTGTTA"
chr1_194962192_194962791_599+_CFH	723	730	2957	-	site "TTTGCTTT"
chr3_130371197_130372163_966+_CNBP	849	856	2546.54	+	site "TTTGCTTA"
chr3_97818924_97819152_228+_---	126	133	1200.52	+	site "TTTGGAATT"
chr16_54404232_54404564_332+_CES1	318	325	1606.76	+	site "TATTGTTT"
chr7_149666948_149667206_258+_RARRES2	37	44	2704.18	+	site "TTATGTTT"
chr1_180618586_180620348_1762+_GLUL	1062	1069	1380.55	+	site "TTTTGATT"
chr1_180618586_180620348_1762+_GLUL	168	175	1508.03	-	site "TTTGCATA"
chr9_76439676_76439874_198+_RORB	49	56	1065.84	+	site "TATTCATT"
chr7_99219510_99219835_325+_CYP3A4	21	28	1753.07	+	site "TTTTCTTT"
chr7_99219510_99219835_325+_CYP3A4	102	109	1353.29	-	site "TATGGTTT"
chr15_72834144_72834635_491+_CYP1A2	671	678	1177.86	+	site "TTTGCATA"
chr15_72834144_72834635_491+_CYP1A2	154	161	937.854	-	site "TTATGTTT"

chr15_88129110_88129801_691_+_ANPEP	663	670	1546.23	+	site "TTTTCATT"
chr15_88129110_88129801_691_+_ANPEP	781	788	729.756	-	site "TTAGCATT"
chr9_19116071_19116378_307_+_ADFP	78	85	1646.86	+	site "TTTTCTTA"
chr9_19116071_19116378_307_+_ADFP	222	229	1716	-	site "TTTTGTTA"
chr11_116205757_116205956_199_+_APOC3	382	389	4073.74	+	site "TTTGCTTT"
chr11_116205757_116205956_199_+_APOC3	18	25	1567.05	-	site "TATTCTTA"
chr7_149668376_149668747_371_+_RARRES2	299	306	1536.99	+	site "TTAGCTTT"
chr7_149668376_149668747_371_+_RARRES2	128	135	1942.58	-	site "TTTGGTTA"
chrX_152427378_152428244_866_+_BGN	696	703	1940.07	+	site "TTTTCATT"
chrX_152427378_152428244_866_+_BGN	718	725	1873.56	+	site "TTTTCTTT"
chrX_152427378_152428244_866_+_BGN	913	920	1467.89	+	site "TATTCTTT"
chrX_152427378_152428244_866_+_BGN	282	289	1348.19	+	site "TTTGCATT"
chrX_152427378_152428244_866_+_BGN	234	241	1454.3	-	site "TATTCTTA"
chr4_155725248_155728018_2770_+_FGA	1137	1144	2362.22	+	site "TTTGCTTT"
chr4_155725248_155728018_2770_+_FGA	458	465	2157.08	+	site "TTTTCTTT"
chr4_155725248_155728018_2770_+_FGA	1237	1244	2156.02	+	site "TTTGCTTT"
chr4_155725248_155728018_2770_+_FGA	1526	1533	2148.74	+	site "TTAGCTTA"
chr4_155725248_155728018_2770_+_FGA	1390	1397	1603.18	+	site "TATTCATT"
chr4_155725248_155728018_2770_+_FGA	2825	2832	1596.77	+	site "TTTTCTTT"
chr4_155725248_155728018_2770_+_FGA	475	482	1366.6	+	site "TTTGCATT"
chr4_155725248_155728018_2770_+_FGA	2038	2045	1164.03	+	site "TTTTCATA"
chr4_155725248_155728018_2770_+_FGA	692	699	1076.9	+	site "TTTTCTTA"
chr4_155725248_155728018_2770_+_FGA	374	381	2400.05	-	site "TTTGCTTT"
chr4_155725248_155728018_2770_+_FGA	496	503	1697.73	-	site "TTTTGTTT"
chr19_40248896_40249390_494_+_HPN	18	25	2009.47	+	site "TTTTGTTT"
chr19_40248896_40249390_494_+_HPN	358	365	1488.38	-	site "TTAGCTTA"
chr2_88208495_88208803_308_+_FABP1	118	125	1605.27	+	site "TTTTGTTT"
chr17_36891162_36891361_199_+_KRT35	250	257	1005.15	+	site "TTTGGTTT"
chr11_80941767_80941985_218_+_---	408	415	599.53	+	site "TTAGGTTA"

chr14_68324211_68324623_412+_ZFP36L1	81	88	1968.21	+	site "TTTTCTTT"
chr5_78451868_78452176_308+_BHMT	484	491	1721.37	+	site "TTTTCTTA"
chr17_55272153_55272436_283+_TMEM49	138	145	2014.01	+	site "TTTGTTTT"
chr12_101756582_101757233_651+_PAH	629	636	1098.37	+	site "TTTTCTTT"
chr12_101756582_101757233_651+_PAH	10	17	1605.27	-	site "TTTTGTTT"
chr12_48442869_48445064_2195+_TEGT	911	918	2403.08	+	site "TTAGCTTT"
chr12_48442869_48445064_2195+_TEGT	1207	1214	2528.31	-	site "TTTTCTTA"
chr2_27163517_27163812_295+_KHK	111	118	998.955	+	site "TTTTCTTT"
chr10_17318218_17318474_256+_VIM	143	150	1254.95	+	site "TATGCATT"
chr10_17318218_17318474_256+_VIM	233	240	860.051	-	site "TAATCTTA"
chr11_58480201_58480419_218+_GLYATL1	263	270	1549.08	+	site "TTATCATT"
chr11_58480201_58480419_218+_GLYATL1	390	397	427.77	+	site "TATTGATA"
chr11_58480201_58480419_218+_GLYATL1	16	23	1393.73	-	site "TTTTGTTA"
chr11_58480201_58480419_218+_GLYATL1	73	80	1302.64	-	site "TTTTCATA"
chr8_97683736_97683970_234+_SDC2	372	379	815.096	+	site "TTAGCATT"
chr8_97683736_97683970_234+_SDC2	135	142	1396.11	-	site "TTTTCTTT"
chr8_97683736_97683970_234+_SDC2	221	228	1113.14	-	site "TATTCTTT"
chr8_97683736_97683970_234+_SDC2	124	131	938.024	-	site "TTTGCATA"
chr1_195194598_195194968_370+_CFHR2	64	71	644.277	+	site "TTATCATT"
chr1_195194598_195194968_370+_CFHR2	355	362	1759.14	-	site "TTTTCATT"
chr1_195194598_195194968_370+_CFHR2	410	417	1342.79	-	site "TTTTCTTT"
chrX_71410307_71410634_327+_RPS4X	243	250	1522.54	+	site "TTTGCTTA"
chrX_71410307_71410634_327+_RPS4X	302	309	1069.96	-	site "TTTTCTTT"
chr1_53226218_53226478_260+_SCP2	61	68	1230.25	+	site "TATTGATT"
chr16_20406087_20406450_363+_LOC123876	291	298	2209.63	+	site "TTAGCTTT"
chr16_20406087_20406450_363+_LOC123876	320	327	2123.12	-	site "TTATCTTA"
chr3_186391145_186391399_254+_EHHADH	324	331	788.985	+	site "TTAGGATT"
chr3_172206406_172206643_237+_SLC2A2	33	40	2662.91	+	site "TTTGCTTA"
chr3_172206406_172206643_237+_SLC2A2	289	296	998.955	+	site "TTTTCTTT"

chr5_115169895_115170183_288_+_CDO1	234	241	1575.77	+	site "TTTGCATA"
chr3_52829256_52829934_678_+_ITI4	450	457	1196.19	+	site "TTTTGTTT"
chr14_94126064_94126476_412_+_SERPINA5	504	511	1702.88	+	site "TTTGCATT"
chr14_94126064_94126476_412_+_SERPINA5	159	166	1228.96	+	site "TATGCTTA"
chr14_94126064_94126476_412_+_SERPINA5	141	148	929.437	+	site "TTATCATA"
chr14_94126064_94126476_412_+_SERPINA5	296	303	852.038	-	site "TTTTCATT"
chr1_57179039_57179335_296_+_C8B	61	68	476.71	+	site "TAATGTTA"
chr1_57179039_57179335_296_+_C8B	269	276	907.953	-	site "TTTTCATT"
chr22_35750198_35750862_664_+_MPST	492	499	2414.35	+	site "TTTTGTTT"
chr22_35750198_35750862_664_+_MPST	501	508	1447.97	+	site "TTTTGATT"
chr4_100267320_100267626_306_+_ADH4	381	388	1707.16	+	site "TTTTCTTT"
chr4_100267320_100267626_306_+_ADH4	178	185	1728.41	-	site "TTTTCATA"
chr9_103232796_103233107_311_+_ALDOB	342	349	1259.5	+	site "TTTGCTTT"
chr9_103232796_103233107_311_+_ALDOB	405	412	1690.37	-	site "TTTTCATT"
chr12_6944788_6945138_350_+_PHB2	283	290	1236.06	+	site "TTTGCATT"
chr22_28280752_28281375_623_+_NIPSNAP1	370	377	1707.16	+	site "TTTTCTTT"
chr22_28280752_28281375_623_+_NIPSNAP1	795	802	1140.79	-	site "TTTGCTTA"
chr14_99864765_99865205_440_+_C14orf68	500	507	3083.54	+	site "TTTGCTTT"
chr14_99864765_99865205_440_+_C14orf68	174	181	1228.9	-	site "TTTTGATT"
chr11_2374362_2375282_920_+_CD81	262	269	1582.73	+	site "TTATGTTT"
chr5_134286810_134290099_3289_+_PCBD2	2029	2036	3050.69	+	site "TTTGCTTA"
chr5_134286810_134290099_3289_+_PCBD2	1337	1344	2126.59	+	site "TTTTCTTT"
chr5_134286810_134290099_3289_+_PCBD2	2222	2229	1933.33	+	site "TTTTCTTT"
chr5_134286810_134290099_3289_+_PCBD2	883	890	1848.2	+	site "TTTTGTTT"
chr5_134286810_134290099_3289_+_PCBD2	3309	3316	1822.07	+	site "TTTTGTTT"
chr15_56642935_56643305_370_+_LIPC	67	74	708.731	+	site "TATTCATT"
chr15_56642935_56643305_370_+_LIPC	531	538	1076.17	-	site "TTATCTTT"
chr15_56642935_56643305_370_+_LIPC	550	557	976.978	-	site "TATTGTTA"
chr17_35330757_35331102_345_+_ORMDL3	58	65	1269.77	+	site "TATGGTTT"

chr17_35330757_35331102_345_+_ORMDL3	52	59	951.808	-	site "TATGCATA"
chr4_155748914_155749500_586_+_FGG	495	502	2170.88	+	site "TTTGCATA"
chr4_155748914_155749500_586_+_FGG	305	312	1837.84	+	site "TATTCTTA"
chr4_155748914_155749500_586_+_FGG	643	650	1218.96	+	site "TATTCTTT"
chr4_155748914_155749500_586_+_FGG	108	115	1054.02	+	site "TTATGTTA"
chr4_155748914_155749500_586_+_FGG	125	132	767.732	+	site "TATTGTTT"
chr4_155748914_155749500_586_+_FGG	705	712	708.302	+	site "TTATGTTT"
chr4_155748914_155749500_586_+_FGG	472	479	705.461	+	site "TATTGTTT"
chr4_155748914_155749500_586_+_FGG	585	592	1529.74	-	site "TTTGCATT"
chr4_155748914_155749500_586_+_FGG	450	457	1302.64	-	site "TTTTCATATA"
chr12_6745713_6746268_555_+_PTMS	52	59	2382.78	+	site "TTTGCTTA"
chr12_6745713_6746268_555_+_PTMS	395	402	1751.2	-	site "TTTTGTTA"
chr1_224092891_224093278_387_+_EPHX1	88	95	2414.35	+	site "TTTTGTTT"
chr10_115337904_115338737_833_+_HABP2	844	851	2292.53	+	site "TTTTCTTA"
chr10_115337904_115338737_833_+_HABP2	629	636	1419.92	-	site "TATTCATT"
chr12_7038237_7038519_282_+_C1S	63	70	3119.8	+	site "TTTTCAAT"
chr19_1057356_1057858_502_+_GPX4	199	206	2421.12	+	site "TATTCTTA"
chr14_93984186_93984830_644_+_SERPINA9	56	63	1685.91	+	site "TTTTCTTT"
chr3_150382425_150382657_232_+_CP	249	256	1572.07	+	site "TTATCTTT"
chr3_150382425_150382657_232_+_CP	264	271	1301.49	+	site "TATTGTTT"
chr3_150382425_150382657_232_+_CP	330	337	1047.97	-	site "TTAGGTTT"
chr3_121829636_121830155_519_+_HGD	580	587	1084.27	+	site "TTTGGAAT"
chr3_121829636_121830155_519_+_HGD	447	454	1489.55	-	site "TTTTCTTA"
chr10_135202981_135203443_462_+_CYP2E1	491	498	1959.17	+	site "TTTTCTTT"
chr10_135202981_135203443_462_+_CYP2E1	589	596	1231.42	-	site "TTTTCTTT"
chr10_135202981_135203443_462_+_CYP2E1	506	513	994.063	-	site "TATTCTTA"
chr2_21080570_21081156_586_+_APOB	110	117	1244.22	+	site "TTATGTTT"
chr2_21080570_21081156_586_+_APOB	509	516	3153.71	-	site "TTATCTTA"
chr9_135218243_135218713_470_+_SURF4	141	148	2013.24	+	site "TTTGCTTT"

chr9_135218243_135218713_470+_SURF4	652	659	1009.3	+	site "TATGGTTA"
chr9_135218243_135218713_470+_SURF4	646	653	1009.3	-	site "TATGGTTA"
chr8_105474150_105474476_326+_DPYS	144	151	1026.19	+	site "TTTTCTTT"
chr8_105474150_105474476_326+_DPYS	166	173	1026.19	+	site "TTTTCTTT"
chr15_67532162_67532443_281+_RPLP1	111	118	883.399	+	site "TATTCTTT"
chr15_67532162_67532443_281+_RPLP1	10	17	551.44	-	site "TTATGATA"
chr9_37419659_37419921_262+_GRHPR	442	449	1968.21	+	site "TTTTCTTT"
chr2_27175501_27175717_216+_KHK	168	175	2152.42	+	site "TTTGCTTT"
chr2_27175501_27175717_216+_KHK	350	357	952.332	-	site "TATTCTTA"
chr17_31334796_31335121_325+_CCL14	444	451	1522.54	+	site "TTTGCTTA"
chr2_201243541_201244421_880+_AOX1	76	83	2014.07	+	site "TTTTGTTT"
chr2_201243541_201244421_880+_AOX1	205	212	1952.57	-	site "TATGCTTT"
chr3_52839524_52839823_299+_ITIH4	257	264	1060.49	+	site "TAATCTTT"
chr11_18385276_18385921_645+_LDHA	10	17	3483.15	+	site "TTTTCTTA"
chr11_18385276_18385921_645+_LDHA	601	608	873.276	-	site "TTATCATT"
chr22_22566933_22567464_531+_MIF	484	491	976.393	+	site "TTATCATA"
chr22_22566933_22567464_531+_MIF	330	337	1878.05	-	site "TTTGCTTA"
chr22_22566933_22567464_531+_MIF	632	639	1447.57	-	site "TTTTCTTA"
chr2_211249915_211250189_274+_CPS1	51	58	1150.83	+	site "TATTGTTT"
chr2_211249915_211250189_274+_CPS1	243	250	1981.46	-	site "TTATCTTT"
chr1_172152910_172153189_279+_SERPINC1	462	469	1086.07	+	site "TTAGGTTT"
chr1_172152910_172153189_279+_SERPINC1	312	319	899.8	-	site "TTATGATT"
chr14_94159633_94160247_614+_SERPINA3	313	320	1245.84	+	site "TTTTGTTA"
chr14_94159633_94160247_614+_SERPINA3	265	272	1147.02	-	site "TTTGCATA"
chr9_123141155_123141436_281+_STOM	127	134	3050.69	+	site "TTTGCTTA"
chr19_40758256_40758656_400+_ATP4A	277	284	641.887	+	site "TTATCATT"
chr6_131941883_131942194_311+_ARG1	154	161	773.992	+	site "TTATCATT"
chr6_131941883_131942194_311+_ARG1	89	96	1505.05	-	site "TTTTCTTA"
chr4_70385482_70385768_286+_UGT2B4	356	363	590.252	+	site "TTATGTTT"

chr4_70385482_70385768_286_+_UGT2B4	465	472	1106.26	-	site "TTTTCTTA"
chr2_20263988_20264792_804_+_SDC1	267	274	2345.3	+	site "TTTTCTTT"
chr19_43998269_43998536_267_+_ECH1	3	10	889.367	+	site "TTTGATT"
chr12_6749509_6749730_221_+_PTMS	374	381	1587.5	+	site "TTTGCATT"
chr19_18252154_18252662_508_+_JUND	465	472	855.909	+	site "TTTTGTTT"
chr5_80645513_80645711_198_+_ZCCHC9	46	53	611.108	+	site "TTATGTTA"
chr16_84395971_84396288_317_+_COX4I1	84	91	730.761	+	site "TATTCATT"
chr14_94105462_94106059_597_+_SERPINA4	654	661	1765.49	+	site "TTTGATT"
chr14_94105462_94106059_597_+_SERPINA4	196	203	1244.22	+	site "TTATGTTT"
chr4_100343677_100344299_622_+_ADH6	355	362	1507.08	+	site "TTTTCTTT"
chr4_100343677_100344299_622_+_ADH6	301	308	916.75	-	site "TTTTGTTT"
chr1_172150259_172150777_518_+_SERPINC1	335	342	1877.86	+	site "TATGCTTT"
chr1_172150259_172150777_518_+_SERPINC1	526	533	1758.42	+	site "TATGCTTT"
chr1_172150259_172150777_518_+_SERPINC1	168	175	2257.88	-	site "TTATCTTA"
chr1_172150259_172150777_518_+_SERPINC1	110	117	1877.86	-	site "TATGCTTT"
chr1_172150259_172150777_518_+_SERPINC1	675	682	1549.83	-	site "TTTTCACTT"
chr10_7808857_7809139_282_+_ITI2	295	302	1225.01	+	site "TATGCATT"
chr2_88206721_88207087_366_+_FABP1	545	552	905.923	+	site "TTAGCTTT"
chr18_70071627_70071954_327_+_CYB5A	208	215	1728.41	+	site "TTTTCATA"
chr18_70071627_70071954_327_+_CYB5A	391	398	1187.87	+	site "TTTGCATA"
chr18_70071627_70071954_327_+_CYB5A	77	84	1697.73	-	site "TTTTGTTT"
chr1_194960833_194961073_240_+_CFH	416	423	1005.15	+	site "TTTGTTTT"
chr1_194960833_194961073_240_+_CFH	125	132	2195.22	-	site "TTATCTTA"
chr19_46041234_46041586_352_+_CYP2A6	7	14	1129.05	+	site "TATTCATT"
chr10_135197159_135197477_318_+_CYP2E1	407	414	3271.69	+	site "TTTTCTTA"
chr10_135197159_135197477_318_+_CYP2E1	85	92	882.515	-	site "TTTTGTTT"
chr17_1604098_1605407_1309_+_SERPINF2	707	714	1291.65	+	site "TTTGTTTT"
chr10_96730859_96731212_353_+_CYP2C9	369	376	1388.98	+	site "TTAGGTTT"
chr2_20265158_20265928_770_+_SDC1	458	465	1368.74	+	site "TTTTGTTT"

chr13_47730201_47730448_247_+_ITM2B	333	340	1305	+	site "TATTCATA"
chr13_47730201_47730448_247_+_ITM2B	314	321	1477.63	-	site "TTTGCTTA"
chr8_17471804_17472253_449_+_SLC7A2	40	47	1278.98	+	site "TTTGCATA"
chr8_17471804_17472253_449_+_SLC7A2	96	103	909.615	-	site "TTATGTTT"
chr15_43448781_43449094_313_+_GATM	102	109	1327.51	+	site "TTTTCTTA"
chr15_43448781_43449094_313_+_GATM	152	159	1390.22	-	site "TATGGTTT"
chr12_101772943_101773248_305_+_PAH	496	503	747.518	+	site "TAAGCTTT"
chr7_150120005_150120295_290_+_TMEM176B	402	409	1978.88	+	site "TTTTCTTT"
chr7_150120005_150120295_290_+_TMEM176B	34	41	1097.99	+	site "TTTTGTTT"
chr7_150120005_150120295_290_+_TMEM176B	483	490	1425.32	-	site "TTTTCATTA"
chrX_152426883_152427324_441_+_BGN	24	31	3142.86	+	site "TTATCTTA"
chrX_152426883_152427324_441_+_BGN	600	607	1204.91	+	site "TTTGGATA"
chrX_152426883_152427324_441_+_BGN	623	630	1187.21	-	site "TATTCATT"
chr2_201223914_201224225_311_+_AOX1	138	145	1279.08	+	site "TATTCTTT"
chr2_201223914_201224225_311_+_AOX1	243	250	2151.07	-	site "TTTGGTTA"
chr5_99415094_99415597_503_+_---	345	352	1956.51	+	site "TTTGCTTA"
chr5_99415094_99415597_503_+_---	234	241	920.389	+	site "TATTCATA"
chr5_99415094_99415597_503_+_---	528	535	1332.37	-	site "TATGCATT"
chr10_115338738_115339426_688_+_HABP2	10	17	2292.53	+	site "TTTTCTTA"
chr1_63876890_63877140_250_+_PGM1	50	57	2997.41	+	site "TTTGCTTT"
chr1_63876890_63877140_250_+_PGM1	111	118	1477.63	+	site "TTTGCTTA"
chr1_63876890_63877140_250_+_PGM1	236	243	615.171	-	site "TTTGGATT"
chr20_7811603_7812391_788_+_HAO1	31	38	749.407	+	site "TTTTCAAT"
chr20_7811603_7812391_788_+_HAO1	183	190	1605.27	-	site "TTTTGTTT"
chr1_152213620_152213972_352_+_JTB	416	423	1895.63	+	site "TATGCTTA"
chr2_42864366_42864589_223_+_HAAO	72	79	3034.87	+	site "TTTTCTTT"
chr2_42864366_42864589_223_+_HAAO	320	327	2960.23	+	site "TTAGCTTA"
chrX_118254223_118254653_430_+_PGRMC1	477	484	1013.4	+	site "TATGCATA"
chrX_118254223_118254653_430_+_PGRMC1	190	197	2963.78	-	site "TTTGCTTT"

chrX_118254223_118254653_430_+_PGRMC1	427	434	1331.97	-	site "TTTTGTTA"
chr6_133044428_133044811_383_+_VNN1	480	487	1759.14	+	site "TTTTCATT"
chr3_187853131_187853446_315_+_FETUB	496	503	1432.82	+	site "TTTGTTTT"
chr3_187853131_187853446_315_+_FETUB	347	354	1281.5	-	site "TTTTCTTT"
chr21_31957892_31958134_242_+_SOD1	267	274	1003.9	+	site "TTATCATA"
chr21_31957892_31958134_242_+_SOD1	291	298	1628.13	-	site "TTTTCATT"
chr2_211250783_211252053_1270_+_CPS1	445	452	2084.19	+	site "TTTTCTTA"
chr2_211250783_211252053_1270_+_CPS1	361	368	2419.61	-	site "TTTTCTTA"
chr2_211250783_211252053_1270_+_CPS1	1068	1075	944.675	-	site "TATTGTTA"
chr8_125624474_125624763_289_+_NDUFB9	266	273	1902.39	+	site "TTTGCATT"
chr1_207974196_207974727_531_+_HSD11B1	564	571	981.494	+	site "TAATCTTT"
chr15_77976206_77976481_275_+_MTHFS	25	32	524.974	+	site "TATTGTTT"
chr1_75987691_75987910_219_+_ACADM	245	252	730.082	+	site "TTTGATA"
chr1_75987691_75987910_219_+_ACADM	413	420	525.796	-	site "TTATGATA"
chr13_23008213_23008411_198_+_TNFRSF19	226	233	1368.74	+	site "TTTTGTTT"
chr13_23008213_23008411_198_+_TNFRSF19	145	152	2126.72	-	site "TTTGCATT"
chr10_4998037_4998264_227_+_AKR1C1	3	10	911.693	+	site "TTAGGATT"
chr9_115862141_115862476_335_+_AMBP	291	298	695.954	+	site "TTTTCATA"
chr5_99415922_99416120_198_+_---	61	68	1182.67	+	site "TTTTCATA"
chr5_99415922_99416120_198_+_---	67	74	687.227	-	site "TTATGATA"
chr2_216006260_216006501_241_+_FN1	415	422	2103.04	+	site "TTATCTTA"
chr2_216006260_216006501_241_+_FN1	196	203	1111.23	-	site "TTATCATT"
chr2_47240891_47241382_491_+_CALM2	676	683	1140.4	+	site "TTTGTTTT"
chr17_38306289_38306740_451_+_G6PC	133	140	1656.48	+	site "TTTTGTTT"
chr15_72829073_72829564_491_+_CYP1A2	44	51	3142.86	+	site "TTATCTTA"
chr15_72829073_72829564_491_+_CYP1A2	193	200	1956.51	+	site "TTTGCTTA"
chr15_72829073_72829564_491_+_CYP1A2	401	408	1854.05	+	site "TTAGCTTA"
chr15_72829073_72829564_491_+_CYP1A2	13	20	954.699	+	site "TATGGTTT"
chr15_72829073_72829564_491_+_CYP1A2	205	212	2849.8	-	site "TTTGCTTA"

chr15_72829073_72829564_491_+_CYP1A2	411	418	1580.15	-	site "TTAGGTTT"
chr15_72829073_72829564_491_+_CYP1A2	290	297	1184.08	-	site "TTTTCTTA"
chr9_74733557_74733844_287_+_ALDH1A1	281	288	2339.02	+	site "TTTTCAAT"
chr9_74733557_74733844_287_+_ALDH1A1	474	481	2320.38	-	site "TTTGCTTA"
chr6_43038999_43039662_663_+_GNMT	637	644	1729.91	+	site "TATTCTTA"
chr2_175751171_175751456_285_+_ATP5G3	421	428	2014.92	+	site "TTAGGTTT"
chr1_224099380_224099969_589_+_EPHX1	709	716	2064.92	+	site "TTATCTTT"
chr1_224099380_224099969_589_+_EPHX1	71	78	1037.34	-	site "TTTGGAAT"
chr3_170798580_170798778_198_+_MDS1	268	275	1110.77	+	site "TTTTCAAT"
chr3_170798580_170798778_198_+_MDS1	150	157	1998.4	-	site "TTTGCTTA"
chr5_41196001_41196231_230_+_C6	172	179	1003.63	+	site "TTATCAAT"
chr5_41196001_41196231_230_+_C6	146	153	2362.22	-	site "TTTGCTTT"
chr20_23563824_23564087_263_+_CST3	457	464	1315.35	+	site "TTTTCAAT"
chr20_23563824_23564087_263_+_CST3	414	421	556.445	-	site "TATGCATA"
chrX_118258274_118258509_235_+_PGRMC1	257	264	1133.79	+	site "TATTGTTT"
chrX_118258274_118258509_235_+_PGRMC1	357	364	1774.58	-	site "TTTTCTTT"
chr12_49609912_49610321_409_+_METTL7A	141	148	1659.22	+	site "TTTTGTTA"
chr12_49609912_49610321_409_+_METTL7A	450	457	1508.03	-	site "TTTGCATA"
chr7_102412031_102412229_198_+_FBXL13	82	89	1204.09	+	site "TATTCATA"
chr6_160477502_160477759_257_+_SLC22A1	393	400	1601.54	+	site "TTTTGTTT"
chr6_133055882_133056118_236_+_VNN1	96	103	1939.73	+	site "TTTTGTTT"
chr6_133055882_133056118_236_+_VNN1	45	52	914.212	-	site "TTATGAAT"
chr15_88431612_88431865_253_+_IDH2	329	336	873.987	+	site "TTTTGTTA"
chr4_69997006_69997498_492_+_UGT2B7	374	381	826.351	+	site "TTTTCAAT"
chr4_88450382_88450612_230_+_HSD17B13	374	381	998.955	+	site "TTTTCTTT"
chr4_88450382_88450612_230_+_HSD17B13	250	257	1426.83	-	site "TTTGCTTT"
chr19_19499447_19499651_204_+_NDUFA13	370	377	2333	+	site "TTTGCTTT"
chr19_19499447_19499651_204_+_NDUFA13	273	280	2817.85	-	site "TTTTCTTT"
chr2_70169221_70169693_472_+_PCBP1	316	323	2719.69	+	site "TTTGCTTT"

chr2_70169221_70169693_472_+_PCBP1	154	161	1397.93	+	site "TATTCTTT"
chr2_70169221_70169693_472_+_PCBP1	557	564	1366.36	+	site "TTTTGATT"
chr2_70169221_70169693_472_+_PCBP1	325	332	2689.94	-	site "TTATCTTT"
chr20_60395683_60395917_234_+_RPS21	181	188	2963.78	+	site "TTTGCTTT"
chr1_47179552_47179759_207_+_CYP4A11	76	83	1522.37	+	site "TATGCTTA"
chr1_47179552_47179759_207_+_CYP4A11	282	289	1721.01	-	site "TTTGCTTT"
chr22_35007309_35007872_563_+_MYH9	347	354	1881.38	+	site "TTTGCTTT"
chr22_35007309_35007872_563_+_MYH9	313	320	2089.27	-	site "TATTCTTA"
chr12_9121545_9121794_249_+_A2M	131	138	489.973	+	site "TTAGCATT"
chr7_98895570_98895797_227_+_ATP5J2	356	363	1507.08	+	site "TTTTCTTT"
chr1_194979135_194979489_354_+_CFH	67	74	1769.88	+	site "TTATCATT"
chr21_45757486_45758153_667_+_COL18A1	194	201	1229.15	+	site "TTTTGTTA"
chr21_45757486_45758153_667_+_COL18A1	645	652	2152.42	-	site "TTTGCTTT"
chr19_15447315_15448411_1096_+_PGLYRP2	633	640	1030.77	+	site "TTATCATT"
chr10_7795103_7795346_243_+_ITIH2	98	105	1477.63	+	site "TTTGCTTA"
chr10_7795103_7795346_243_+_ITIH2	25	32	1026.19	-	site "TTTTCTTT"
chr2_215943184_215943504_320_+_FN1	92	99	536.443	+	site "TAATCTTT"
chrX_46836405_46836628_223_+_RGN	92	99	2377.35	+	site "TTTTCTTT"
chr7_45894546_45895147_601_+_IGFBP1	507	514	1097.6	+	site "TTTTCTTT"
chr7_145888194_145888392_198_+_CNTNAP2	45	52	1418.94	+	site "TATTCTTT"
chr1_22837930_22838775_845_+_C1QA	119	126	1329.2	+	site "TATTCATT"
chr1_22837930_22838775_845_+_C1QA	285	292	1293.84	-	site "TTTGCTTT"
chr17_35863645_35863927_282_+_IGFBP4	357	364	1508.18	+	site "TTTGCTTT"
chr6_166698748_166699005_257_+_BRP44L	128	135	2925.44	+	site "TTATCTTT"
chr6_32518893_32519279_386_+_HLA-DRA	93	100	940.43	+	site "TTTTGTTT"
chr9_74757637_74757857_220_+_ALDH1A1	90	97	1059.19	+	site "TATTGATT"
chr3_187817587_187817986_399_+_AHSG	305	312	1497.37	+	site "TTTGATA"
chr3_187817587_187817986_399_+_AHSG	58	65	717.276	-	site "TATTGTTT"
chr10_17317154_17317463_309_+_VIM	309	316	2422.68	+	site "TTTTGTTT"

chr10_17317154_17317463_309+_VIM	192	199	1673.75	+	site "TTTGCTTA"
chr3_134966332_134966550_218+_TF	273	280	2185.84	+	site "TATTCATT"
chr4_155744699_155745068_369+_FGG	512	519	484.938	+	site "TAAGCTTA"
chr4_155744699_155745068_369+_FGG	194	201	1605.27	-	site "TTTTGTTT"
chr4_155744699_155745068_369+_FGG	53	60	1590.1	-	site "TTTTCTTT"
chr4_155744699_155745068_369+_FGG	15	22	885.09	-	site "TTTTCACTT"
chr5_179158764_179158993_229+_MGAT4B	201	208	2537.24	+	site "TTTGCTTT"
chr10_7814229_7814553_324+_ITIH2	230	237	1142.23	+	site "TTTGCTTT"
chr10_7814229_7814553_324+_ITIH2	190	197	1620.65	-	site "TTTTCACTT"
chr16_55218206_55218605_399+_MT1E	478	485	887.63	+	site "TTATCTTT"
chr16_55218206_55218605_399+_MT1E	553	560	1585.99	-	site "TATGCTTT"
chr10_96697524_96697784_260+_CYP2C9	441	448	1608.27	+	site "TTTGCTTA"
chr12_110731646_110732262_616+_ALDH2	609	616	1244.22	+	site "TTATCTTT"
chrX_46825429_46825647_218+_RGN	398	405	893.68	+	site "TTAGCTTA"
chrX_46825429_46825647_218+_RGN	332	339	884.382	+	site "TATCTTT"
chr6_64350344_64351330_986+_PTP4A1	713	720	1796.43	+	site "TTTTGTTT"
chr6_64350344_64351330_986+_PTP4A1	320	327	2422.68	-	site "TTTTGTTT"
chr1_148813880_148814947_1067+_MCL1	153	160	2528.31	+	site "TTTTCTTA"
chr1_148813880_148814947_1067+_MCL1	529	536	1565.2	+	site "TTATCTTT"
chr1_148813880_148814947_1067+_MCL1	90	97	1367.89	+	site "TTATCTTT"
chr1_148813880_148814947_1067+_MCL1	804	811	1598	-	site "TTTGCACTT"
chr15_64578727_64579116_389+_RPL4	83	90	1672.03	+	site "TTATCTTA"
chr15_64578727_64579116_389+_RPL4	75	82	1373.48	-	site "TTAGCTTA"
chr15_64578727_64579116_389+_RPL4	567	574	927.78	-	site "TTAGCACTT"
chr12_45444818_45445785_967+_SLC38A4	846	853	1678.76	+	site "TTATGTTA"
chr12_110707376_110707617_241+_ALDH2	319	326	418.376	+	site "TAATGTTT"
chr3_172197286_172197815_529+_SLC2A2	681	688	1233.33	+	site "TTTTGTTT"
chr3_187869327_187869624_297+_HRG	190	197	1019.74	+	site "TTTTGATA"
chr2_88203587_88203843_256+_FABP1	5	12	3034.87	+	site "TTTTCTTT"

chr2_88203587_88203843_256+_FABP1	174	181	1353.57	+	site "TTATCTTA"
chr2_88203587_88203843_256+_FABP1	119	126	1205.02	+	site "TTTGATT"
chr11_34427278_34427579_301+_CAT	442	449	632.446	+	site "TATTGATA"
chr2_3480688_3481929_1241+_ADI1	391	398	2528.51	+	site "TTTGTTT"
chr2_3480688_3481929_1241+_ADI1	143	150	1917.95	+	site "TTTTCTTT"
chr2_3480688_3481929_1241+_ADI1	217	224	3231.03	-	site "TTTTCTTT"
chr17_34614256_34614463_207+_RPL19	121	128	728.795	+	site "TTTTGATA"
chr17_59927056_59927419_363+_DDX5	416	423	937.687	+	site "TATTCTTA"
chr4_155729309_155729662_353+_FGA	242	249	2457.53	+	site "TATGCTTT"
chr4_155729309_155729662_353+_FGA	333	340	1617.77	+	site "TTTTCTTT"
chr4_155729309_155729662_353+_FGA	88	95	1413.61	+	site "TTTGTTT"
chr4_155729309_155729662_353+_FGA	253	260	1381.73	+	site "TTTTCTTT"
chr4_155729309_155729662_353+_FGA	14	21	1161.17	+	site "TTTGATT"
chr4_155729309_155729662_353+_FGA	1	8	1103.64	+	site "TTATGTTT"
chr4_155729309_155729662_353+_FGA	464	471	1482.6	-	site "TATTCATT"
chr12_54405461_54405729_268+_CD63	234	241	2422.68	+	site "TTTTGTTT"
chr12_54405461_54405729_268+_CD63	243	250	1241.89	-	site "TTAGCATA"
chr16_70161629_70161879_250+_TAT	407	414	652.264	+	site "TAAGCTTA"
chr16_70161629_70161879_250+_TAT	8	15	1207.58	-	site "TTTTCTTA"
chr18_27432444_27433029_585+_TTR	673	680	1196.19	+	site "TTTTGTTT"
chr18_27432444_27433029_585+_TTR	577	584	1115.94	+	site "TATTCATT"
chr18_27432444_27433029_585+_TTR	606	613	1115.94	+	site "TATTCATT"
chr18_27432444_27433029_585+_TTR	446	453	1349.03	-	site "TATTCTTT"
chr10_7825959_7826350_391+_ITIH2	82	89	810.528	+	site "TAATCTTT"
chr3_134955937_134956295_358+_TF	236	243	1351.97	+	site "TTAGGATT"
chr3_134955937_134956295_358+_TF	424	431	2102.86	-	site "TTTGCATT"
chr6_160484508_160484766_258+_SLC22A1	412	419	2136.08	+	site "TTTTCTTA"
chr6_160484508_160484766_258+_SLC22A1	378	385	1044.19	-	site "TATGCTTT"
chr22_19470220_19470525_305+_SERPIND1	170	177	647.279	+	site "TATTCTTT"

chr19_53065709_53066053_344+_SULT2A1	212	219	650.855	+	site "TTATGTTT"
chr19_53065709_53066053_344+_SULT2A1	388	395	557.166	-	site "TTATGATA"
chr2_211185034_211185350_316+_CPS1	265	272	2141.25	+	site "TTTGCTTA"
chr17_77406548_77406819_271+_P4HB	353	360	1508.43	+	site "TTTTGTTA"
chr2_27175736_27176407_671+_KHK	668	675	1390.96	+	site "TTAGCTTT"
chr2_27175736_27176407_671+_KHK	115	122	952.332	-	site "TATTCTTA"
chr10_135032357_135032612_255+_ECHS1	65	72	1840.38	+	site "TTTTCTTA"
chr20_6872569_6872787_218+_---	310	317	841.641	+	site "TTTGGTTA"
chr2_63971728_63972239_511+_UGP2	632	639	765.075	+	site "TTTTCATA"
chr2_63971728_63972239_511+_UGP2	557	564	697.12	+	site "TTATGTTT"
chr2_63971728_63972239_511+_UGP2	125	132	2157.08	-	site "TTTTCTTT"
chr2_63971728_63972239_511+_UGP2	542	549	1074.34	-	site "TATTGTTT"
chr6_30569542_30570054_512+_HLA-E	138	145	1095.53	+	site "TATGCATA"
chr6_30569542_30570054_512+_HLA-E	138	145	920.067	-	site "TATGCATA"
chr4_100450912_100451180_268+_ADH1B	270	277	1316.34	+	site "TTTGCATA"
chr4_100450912_100451180_268+_ADH1B	100	107	1269.58	+	site "TTTTCATA"
chr4_100450912_100451180_268+_ADH1B	150	157	1250.28	+	site "TTTTGATT"
chr4_100450912_100451180_268+_ADH1B	257	264	2437.58	-	site "TTTGCTTT"
chr4_100450912_100451180_268+_ADH1B	22	29	1087.94	-	site "TTATCTTA"
chr22_35755153_35755852_699+_MPST	361	368	2657.82	+	site "TTTGCTTT"
chr2_219385445_219385771_326+_CYP27A1	69	76	952.332	+	site "TATTCTTA"
chr3_42888652_42889686_1034+_CYP8B1	101	108	590.836	+	site "TTTTGATA"
chr3_42888652_42889686_1034+_CYP8B1	542	549	1439.45	-	site "TTTTCTTT"
chr9_74728712_74728956_244+_ALDH1A1	435	442	1444.66	+	site "TTAGCTTT"
chr9_74728712_74728956_244+_ALDH1A1	413	420	1672.73	-	site "TTAGCTTT"
chr5_174474268_174474489_221+_---	173	180	642.155	+	site "TAATCTTT"
chr5_174474268_174474489_221+_---	199	206	481.435	-	site "TATTGTTT"
chr5_149764366_149764604_238+_CD74	120	127	1018.65	+	site "TTTTCATT"
chr11_1972895_1975703_2808+_MRPL23	540	547	3847.1	+	site "TTTTCTTT"

chr2_127902343_127903154_811_+_PROC	425	432	1284.38	+	site "TTATCATT"
chr2_127902343_127903154_811_+_PROC	199	206	1130.14	-	site "TTATCTTA"
chr9_19368311_19368601_290_+_RPS6	22	29	1163.46	+	site "TTATCATA"
chr9_19368311_19368601_290_+_RPS6	143	150	2298.75	-	site "TTTTCATT"
chr9_19368311_19368601_290_+_RPS6	23	30	768.723	-	site "TTATGATA"
chr7_26198015_26198549_534_+_HNRPA2B1	168	175	1226.42	+	site "TTATGATT"
chr7_26198015_26198549_534_+_HNRPA2B1	177	184	2209.63	-	site "TTAGCTTT"
chr19_6670151_6670489_338_+_C3	526	533	1605.27	+	site "TTTTGTTT"
chr7_5533342_5533557_215_+_ACTB	210	217	1575.37	+	site "TTTTCTTT"
chr1_171721106_171721352_246_+_PRDX6	272	279	1097.99	+	site "TTTTGTTT"
chr1_159458625_159459047_422_+_APOA2	209	216	1055.09	+	site "TTTTGTTT"
chr3_52787923_52788189_266_+_ITI1	43	50	533.168	+	site "TATTCATA"
chr7_94831055_94831315_260_+_PON3	80	87	568.423	+	site "TATTGATT"
chr11_113687904_113688504_600_+_NNMT	567	574	1628.13	+	site "TTTTCATT"
chr11_113687904_113688504_600_+_NNMT	538	545	1092.23	-	site "TATTGTTT"
chr6_161063350_161063687_337_+_PLG	322	329	1245.42	+	site "TTATCATT"
chr6_161063350_161063687_337_+_PLG	56	63	918.001	+	site "TTTGCATT"
chr6_161063350_161063687_337_+_PLG	331	338	822.116	-	site "TATTGTTA"
chr5_132231025_132231372_347_+_UQCRQ	13	20	2109.31	+	site "TTTGTTT"
chr5_132231025_132231372_347_+_UQCRQ	520	527	2325.4	-	site "TTTTCTTA"
chrX_125434206_125434983_777_+_---	431	438	1837.49	+	site "TTATCATT"
chr4_74586299_74586597_298_+_AFM	79	86	1194.95	+	site "TTAGGTTA"
chr4_74586299_74586597_298_+_AFM	74	81	608.848	-	site "TAATCATT"
chr3_38144240_38144446_206_+_ACAA1	319	326	1551.77	+	site "TTTTCTTA"
chr1_50504904_50505102_198_+_---	36	43	1303.87	+	site "TTAGGTTT"
chr1_50504904_50505102_198_+_---	225	232	1596.21	-	site "TTTGATT"
chr19_54161282_54161584_302_+_FTL	373	380	1123.1	+	site "TTTTGTTA"
chr10_96735758_96736004_246_+_CYP2C9	371	378	900.246	+	site "TTATGTTT"
chr10_96735758_96736004_246_+_CYP2C9	361	368	778.639	+	site "TATGCTTA"

chr10_96735758_96736004_246+_CYP2C9	93	100	1981.46	-	site "TTATCTTT"
chr2_201232062_201232300_238+_AOX1	363	370	3516.18	+	site "TTTGCATT"
chr2_21077654_21079808_2154+_APOB	1277	1284	2723.25	+	site "TTTGTTTT"
chr2_21077654_21079808_2154+_APOB	1127	1134	1005.11	-	site "TTTTCATA"
chr1_184547887_184548200_313+_PRG4	126	133	856.158	+	site "TTAGCATT"
chr16_54424336_54424598_262+_CES1	194	201	772.035	+	site "TTTTGATT"
chr16_54424336_54424598_262+_CES1	123	130	1708.11	-	site "TTTGTTTT"
chr4_147396772_147396970_198+_C4orf13	381	388	425.608	+	site "TTATCATA"
chr4_147396772_147396970_198+_C4orf13	185	192	1574.66	-	site "TTTTCATT"
chr8_17531304_17531523_219+_PDGFRL	243	250	582.09	+	site "TATTCATA"
chr8_17531304_17531523_219+_PDGFRL	174	181	1097.6	-	site "TTTTCTTT"
chr17_16225059_16225315_256+_UBB	48	55	586.683	+	site "TATGGTTT"
chr2_215937785_215938034_249+_FN1	243	250	1370.67	+	site "TTTGCTTT"
chr5_172129070_172129501_431+_DUSP1	351	358	2781.96	+	site "TTTTCTTT"
chr5_172129070_172129501_431+_DUSP1	86	93	1327.51	+	site "TTTTCTTA"
chr14_32023253_32023483_230+_AKAP6	222	229	1393.73	+	site "TTTTGTTA"
chr14_32023253_32023483_230+_AKAP6	396	403	1635.88	-	site "TTTTGTTA"
chr3_25483922_25484145_223+_RARB	222	229	1707.16	+	site "TTTTCTTT"
chr2_215944847_215945427_580+_FN1	5	12	2632.5	+	site "TTTTCTTT"
chr10_95341498_95341961_463+_RBP4	477	484	1551.01	+	site "TTATCTTT"
chr6_160499470_160499826_356+_SLC22A1	99	106	647.005	+	site "TTTGGATA"
chr15_72830544_72830767_223+_CYP1A2	333	340	1370.67	+	site "TTTGCTTT"
chr6_156910761_156910963_202+_---	238	245	1204.09	+	site "TATTCATA"
chr6_156910761_156910963_202+_---	37	44	620.644	-	site "TTTTCATA"
chr15_43440624_43440958_334+_GATM	488	495	1602.9	+	site "TTTGTTTT"
chr15_43440624_43440958_334+_GATM	516	523	1491.05	+	site "TATTCTTT"
chr15_43440624_43440958_334+_GATM	148	155	704.069	-	site "TAATCTTT"
chr12_102860935_102861300_365+_HSP90B1	293	300	1291.65	+	site "TTTGTTTT"
chr6_32026297_32026799_502+_CFB	389	396	1229.15	+	site "TTTTGTTA"

chr4_65158546_65158764_218_+---	340	347	1173.77	+	site "TATTCATT"
chr4_155703549_155703831_282_+_FGB	119	126	943.412	+	site "TTATGTTA"
chr4_155703549_155703831_282_+_FGB	165	172	725.303	-	site "TTATGATA"
chr21_46381044_46381499_455_+_FTCD	633	640	2345.3	+	site "TTTTCTTT"
chr21_46381044_46381499_455_+_FTCD	73	80	1959.17	+	site "TTTTCTTT"
chr21_46381044_46381499_455_+_FTCD	214	221	855.909	+	site "TTTTGTTT"
chr11_82695042_82695260_218_+_CCDC90B	170	177	887.63	+	site "TTATCTTT"
chr11_82695042_82695260_218_+_CCDC90B	16	23	2152.42	-	site "TTTGCTTT"
chr5_71182424_71182787_363_+---	549	556	1038.14	+	site "TTTTGATA"
chr9_103229502_103229854_352_+_ALDOB	460	467	804.705	+	site "TTAGGATA"
chr7_75453123_75453485_362_+_POR	161	168	998.955	+	site "TTTTCTTT"
chr3_186391442_186391687_245_+_EHHADH	27	34	788.985	+	site "TTAGGATT"
chr2_215948519_215948794_275_+_FN1	187	194	1495.87	+	site "TATGGTTT"
chr2_215948519_215948794_275_+_FN1	92	99	1990.97	-	site "TTAGCTTT"
chrX_23713287_23713547_260_+_SAT1	80	87	1030.01	+	site "TTTTCTTT"
chr19_17374773_17375200_427_+_BST2	592	599	2053.95	+	site "TTTTGTTA"
chr13_83995098_83995296_198_+---	303	310	441.602	+	site "TTAGCATA"
chr13_83995098_83995296_198_+---	360	367	971.007	-	site "TATTCATA"
chr17_53223656_53223854_198_+_MRPS23	28	35	935.393	+	site "TTATCATA"
chr4_74584514_74584883_369_+_AFM	49	56	920.818	+	site "TTTGCTTT"
chr9_5090786_5091007_221_+_JAK2	414	421	2046.21	+	site "TATGCTTT"
chr9_5090786_5091007_221_+_JAK2	157	164	1567.19	-	site "TTTGTTA"
chr9_5090786_5091007_221_+_JAK2	180	187	1418.94	-	site "TATTCTTT"
chr9_5090786_5091007_221_+_JAK2	31	38	1087.13	-	site "TTTTCTTT"
chr9_5090786_5091007_221_+_JAK2	45	52	810.574	-	site "TATGGATA"
chr2_127900066_127900347_281_+_PROC	107	114	1217.22	+	site "TTTTCATA"
chr2_127900066_127900347_281_+_PROC	114	121	905.939	-	site "TTTTCTTT"
chr4_100483011_100483302_291_+_ADH1C	71	78	1462.49	+	site "TTTTCAAT"
chr8_17787193_17787456_263_+_FGL1	45	52	1557.96	+	site "TTATCTTT"

chr9_95545459_95545657_198_+---	282	289	1038.14	+	site "TTTTGATA"
chr9_95545459_95545657_198_+---	288	295	1600.88	-	site "TTTGGTTA"
chr4_100492755_100493009_254_+_ADH1C	141	148	2643.52	+	site "TTTGCTTT"
chr4_100492755_100493009_254_+_ADH1C	67	74	1304.75	+	site "TTTGGTTA"
chr4_100492755_100493009_254_+_ADH1C	194	201	1724.56	-	site "TATTGTTT"
chr4_100492755_100493009_254_+_ADH1C	309	316	1609.29	-	site "TTAGCATT"
chr10_7820504_7820816_312_+_ITI2	478	485	1728.24	+	site "TTTTCTTT"
chr6_32520360_32520817_457_+_HLA-DRA	15	22	1575.54	+	site "TTAGGTTT"
chr6_32520360_32520817_457_+_HLA-DRA	161	168	1756.76	-	site "TTTTCATA"
chr3_153027986_153028743_757_+_AADAC	178	185	2510.49	+	site "TTTTCATT"
chr3_153027986_153028743_757_+_AADAC	366	373	2498.27	-	site "TTTGCTTT"
chr14_20560007_20560255_248_+_NDRG2	260	267	2126.59	+	site "TTTTCTTT"
chr7_94839392_94839664_272_+_PON3	434	441	1196.19	+	site "TTTTGTTT"
chr7_94839392_94839664_272_+_PON3	207	214	925.121	-	site "TATTCTTA"
chr7_149666566_149666856_290_+_RARRES2	419	426	2704.18	+	site "TTATGTTT"
chr7_149666566_149666856_290_+_RARRES2	312	319	1652.61	+	site "TTAGCTTT"
chr7_149666566_149666856_290_+_RARRES2	280	287	1207.58	+	site "TTTTCTTA"
chr7_149666566_149666856_290_+_RARRES2	208	215	2829.87	-	site "TTTGCTTT"
chr7_149666566_149666856_290_+_RARRES2	234	241	1087.13	-	site "TTTTCTTT"
chr5_39342408_39342746_338_+_C9	103	110	2423.75	+	site "TTATCTTT"
chr5_39342408_39342746_338_+_C9	169	176	1123.1	+	site "TTTTGTTA"
chr5_39342408_39342746_338_+_C9	217	224	1002.08	-	site "TTTGCACTT"
chr12_16391782_16391984_202_+_MGST1	35	42	2356.73	+	site "TTTGCTTT"
chr12_16391782_16391984_202_+_MGST1	236	243	2587.33	-	site "TTTGCTTA"
chr1_171722002_171722200_198_+_PRDX6	44	51	978.769	+	site "TTTTCATA"
chr5_180596464_180596738_274_+_GNB2L1	326	333	1877.86	+	site "TATGCTTT"
chr22_34993194_34993510_316_+_APOL1	362	369	646.919	+	site "TATGTTT"
chr22_34993194_34993510_316_+_APOL1	466	473	1027.36	-	site "TATTGTTT"
chr1_54270276_54270620_344_+_TMEM59	289	296	998.955	+	site "TTTTCTTT"

chr3_38141980_38142467_487+_ACAA1	73	80	835.464	+	site "TATGCATA"
chr3_38141980_38142467_487+_ACAA1	73	80	721.777	-	site "TATGCATA"
chr2_215979140_215979529_389+_FN1	576	583	1047.84	+	site "TATTCATT"
chr2_215979140_215979529_389+_FN1	154	161	899.339	+	site "TTAGCATA"
chr4_39225579_39225940_361+_C4orf34	440	447	1122.01	+	site "TATGCTTT"
chrX_105167045_105167774_729+_SERPINA7	783	790	1599.85	+	site "TTATGTTA"
chrX_105167045_105167774_729+_SERPINA7	910	917	1523.05	+	site "TATTCATT"
chrX_71409754_71410025_271+_RPS4X	409	416	1281.5	+	site "TTTTCTTT"
chr4_75181819_75182075_256+_CXCL2	46	53	1848.2	+	site "TTTTGTTT"
chr1_75999367_75999720_353+_ACADM	263	270	1217.52	+	site "TTTTGATT"
chr1_75999367_75999720_353+_ACADM	358	365	1244.22	-	site "TTATGTTT"
chr1_115064718_115064954_236+_CSDE1	260	267	2693.8	+	site "TTATCTTT"
chr5_76032601_76032853_252+_IQGAP2	336	343	543.706	+	site "TTAGGTTA"
chr2_84506035_84506313_278+_SUCLG1	154	161	1916.4	+	site "TTTGGTTA"
chr2_84506035_84506313_278+_SUCLG1	126	133	1337.83	-	site "TTATGTTT"
chr21_26205894_26206172_278+_APP	394	401	649.516	+	site "TTTTGATA"
chr21_26205894_26206172_278+_APP	70	77	1775.69	-	site "TTTGGTTT"
chr21_26205894_26206172_278+_APP	142	149	1026.19	-	site "TTTTCTTT"
chr11_62039947_62040330_383+_AHNAK	571	578	1298.65	+	site "TTTGCTTT"
chr11_62039947_62040330_383+_AHNAK	500	507	2879.13	-	site "TTATCTTT"
chr1_166153919_166154264_345+_BRP44	283	290	1293.84	+	site "TTTGCTTT"
chr1_166153919_166154264_345+_BRP44	330	337	1370.3	-	site "TATTGTTT"
chr1_57119642_57119968_326+_C8A	427	434	1672.73	+	site "TTAGCTTT"
chr4_155746308_155747153_845+_FGG	457	464	1884.43	+	site "TTTTGTTT"
chr4_155746308_155747153_845+_FGG	334	341	1881.38	+	site "TTTGGTTT"
chr4_155746308_155747153_845+_FGG	499	506	1269.27	+	site "TTTGGATT"
chr4_155746308_155747153_845+_FGG	647	654	2339.61	-	site "TTAGCTTA"
chr12_1767242_1767432_190+_ADIPOR2	168	175	998.955	+	site "TTTTCTTT"
chr12_1767242_1767432_190+_ADIPOR2	180	187	856.378	-	site "TTTTGTTA"

chr6_160477187_160477392_205_+_SLC22A1	304	311	2100.46	+	site "TATTCTTT"
chr4_115869740_115869960_220_+_---	96	103	1331.97	+	site "TTTTGTTA"
chr4_115869740_115869960_220_+_---	403	410	1287.7	-	site "TTTGCATT"
chr1_195029062_195029286_224_+_CFHR3	404	411	1608.27	+	site "TTTGGTTA"
chr4_100763294_100764027_733_+_MTTP	167	174	1390.49	+	site "TTATGATT"
chr4_100763294_100764027_733_+_MTTP	122	129	1838.07	-	site "TTATCATT"
chr12_101769514_101769751_237_+_PAH	36	43	2052.1	+	site "TTTTCTTA"
chr12_101769514_101769751_237_+_PAH	200	207	971.007	-	site "TATTCATA"
chr9_135218758_135219289_531_+_SURF4	167	174	1373.12	+	site "TTATGTTT"
chr9_135218758_135219289_531_+_SURF4	137	144	1009.3	+	site "TATGGTTA"
chr9_135218758_135219289_531_+_SURF4	531	538	946.594	+	site "TATTCTTT"
chr9_135218758_135219289_531_+_SURF4	131	138	1009.3	-	site "TATGGTTA"
chr1_145163078_145163362_284_+_FMO5	442	449	881.831	+	site "TATGGATT"
chr1_145163078_145163362_284_+_FMO5	262	269	1575.37	-	site "TTTTCTTT"
chr4_22429449_22429783_334_+_GBA3	377	384	976.393	+	site "TTATCATA"
chr4_22429449_22429783_334_+_GBA3	329	336	830.934	-	site "TTTTGATA"
chr7_52210955_52211173_218_+_---	117	124	760.317	+	site "TTATGTTA"
chr2_211155524_211155730_206_+_CPS1	140	147	1399.99	+	site "TTTGCTTA"
chr9_38386708_38387041_333_+_ALDH1B1	89	96	575.663	+	site "TAATCTTT"
chr9_38386708_38387041_333_+_ALDH1B1	218	225	1313.56	-	site "TTATGTTA"
chr12_9145272_9145590_318_+_A2M	266	273	1207.58	+	site "TTTTCTTA"
chr12_9145272_9145590_318_+_A2M	480	487	551.44	-	site "TTATGATA"
chr10_85900445_85900677_232_+_GHITM	175	182	2157.08	+	site "TTTTCTTT"
chr10_85900445_85900677_232_+_GHITM	81	88	1486.98	+	site "TTAGCATT"
chr10_85900445_85900677_232_+_GHITM	150	157	2794.02	-	site "TTATCTTA"
chr21_45093938_45094252_314_+_PTTG1IP	52	59	1679.53	+	site "TTATCTTA"
chr21_45093938_45094252_314_+_PTTG1IP	500	507	822.986	-	site "TATTCATA"
chr3_151746502_151746790_288_+_SERP1	471	478	257.967	+	site "TAATCTTT"
chr3_151746502_151746790_288_+_SERP1	365	372	1861.27	-	site "TATGCTTA"

chr11_122433544_122433834_290+_HSPA8	255	262	926.622	+	site "TTTTTCATT"
chr1_153373308_153373871_563+_EFNA1	459	466	2098.05	+	site "TTTGCATT"
chr1_153373308_153373871_563+_EFNA1	377	384	1491.86	+	site "TTTGCTTA"
chr1_153373308_153373871_563+_EFNA1	133	140	1900.15	-	site "TTTGCTTT"
chr1_153373308_153373871_563+_EFNA1	122	129	879.241	-	site "TTTTGTTT"
chr4_17097197_17097888_691+_QDPR	244	251	677.565	+	site "TAATCTTA"
chr4_17097197_17097888_691+_QDPR	99	106	1573.06	-	site "TTTGCTTT"
chr5_180150514_180150820_306+_MGAT1	142	149	710.803	+	site "TATGGTTT"
chr6_24809630_24809906_276+_THEM2	112	119	3083.54	+	site "TTTGCTTT"
chr18_70208153_70208396_243+_C18orf51	373	380	3050.69	+	site "TTTGCTTA"
chr18_70208153_70208396_243+_C18orf51	428	435	959.768	+	site "TTTTGTTT"
chr18_70208153_70208396_243+_C18orf51	81	88	608.848	-	site "TAATCATT"
chr1_59020907_59021754_847+_JUN	585	592	1480.77	+	site "TTTTGTTT"
chr1_47168100_47168548_448+_CYP4A11	580	587	1628.13	+	site "TTTTTCATT"
chr1_47168100_47168548_448+_CYP4A11	529	536	1463.36	-	site "TATGGTTT"
chr4_166482349_166482715_366+_SC4MOL	207	214	2362.22	+	site "TTTGCTTT"
chr11_24696823_24697041_218+_LUZP2	244	251	1231.35	+	site "TTTGCTTA"
chr20_36426627_36426864_237+_LBP	402	409	1346.95	+	site "TATTGATT"
chr20_36426627_36426864_237+_LBP	89	96	1981.47	-	site "TTTTCTTT"
chr20_36426627_36426864_237+_LBP	151	158	1373.48	-	site "TTAGCTTA"
chr19_54708913_54709574_661+_FCGRT	443	450	1187.34	+	site "TTAGGTTA"
chr11_76186340_76186741_401+_TSKU	198	205	1303.17	+	site "TTTTTCATT"
chr11_76186340_76186741_401+_TSKU	429	436	1055.09	+	site "TTTTGTTT"
chr11_76186340_76186741_401+_TSKU	176	183	920.802	-	site "TATTCATT"
chr3_185384348_185384592_244+_AP2M1	230	237	971.668	+	site "TTTGATA"
chr3_185384348_185384592_244+_AP2M1	427	434	796.034	+	site "TTTTGATT"
chr3_185384348_185384592_244+_AP2M1	400	407	1465.15	-	site "TTTTGTTT"
chr3_185384348_185384592_244+_AP2M1	290	297	1069.96	-	site "TTTTCTTT"
chr8_17471428_17471779_351+_SLC7A2	416	423	1278.98	+	site "TTTGATA"

chr8_17471428_17471779_351_+_SLC7A2	71	78	1306.98	-	site "TTATCTTA"
chr8_17471428_17471779_351_+_SLC7A2	206	213	1187.87	-	site "TTTGCATA"
chr3_186393199_186393700_501_+_EHHADH	291	298	678.757	+	site "TAAGCTTA"
chr3_186393199_186393700_501_+_EHHADH	462	469	1796.43	-	site "TTTTGTTT"
chr3_186393199_186393700_501_+_EHHADH	507	514	1590.1	-	site "TTTTCTTT"
chr3_186393199_186393700_501_+_EHHADH	478	485	1336.5	-	site "TTTGATT"
chr3_58483198_58483422_224_+_ACOX2	127	134	3278.09	+	site "TTTGCTTT"
chr11_10775207_10776021_814_+_EIF4G2	45	52	1843.45	+	site "TTTTCTTA"
chr3_150383910_150384124_214_+_CP	384	391	1351.65	+	site "TTATGATT"
chr12_55443311_55443524_213_+_HSD17B6	253	260	1905.92	+	site "TTTTCTTA"
chr5_137831005_137831325_320_+_EGR1	86	93	905.939	+	site "TTTTCTTT"
chr12_21261326_21261579_253_+_SLCO1B1	21	28	579.082	+	site "TAATCTTT"
chr11_117978163_117978764_601_+_ARCN1	171	178	1787.58	+	site "TTTGATT"
chr9_103170241_103170451_210_+_BAAT	304	311	1088.91	+	site "TTTTGTTT"
chr9_103170241_103170451_210_+_BAAT	249	256	743.688	-	site "TTATCATA"
chr1_153556782_153557098_316_+_C1orf104	3	10	1431.84	+	site "TTTTGATT"
chr3_191506194_191507727_1533_+_CLDN1	1424	1431	1694.74	+	site "TTATCTTA"
chr3_191506194_191507727_1533_+_CLDN1	1136	1143	1572.07	+	site "TTATCTTT"
chr3_191506194_191507727_1533_+_CLDN1	1260	1267	1493.46	+	site "TTTGATT"
chr3_191506194_191507727_1533_+_CLDN1	1297	1304	1389.01	-	site "TATTCTTA"
chr5_10343637_10343966_329_+_CMBL	23	30	2094.44	+	site "TTATCTTT"
chr5_10343637_10343966_329_+_CMBL	112	119	2017.08	-	site "TTATCTTA"
chr12_49923040_49923604_564_+_DAZAP2	321	328	1459.15	+	site "TTAGGTTT"
chr12_49923040_49923604_564_+_DAZAP2	658	665	1695.52	-	site "TTTTGTTT"
chr1_210859955_210860688_733_+_ATF3	345	352	1231.35	+	site "TTTGCTTA"
chr1_210859955_210860688_733_+_ATF3	701	708	1218.26	-	site "TTATGTTA"
chr9_74716620_74716940_320_+_ALDH1A1	11	18	902.806	+	site "TATTGTTT"
chr2_217072849_217073093_244_+_RPL37A	383	390	3271.69	+	site "TTTTCTTA"
chr2_217072849_217073093_244_+_RPL37A	275	282	2345.3	+	site "TTTTCTTT"

chr2_217072849_217073093_244_+_RPL37A	306	313	1580.15	+	site "TTAGGTTT"
chr2_119739070_119739341_271_+_STEAP3	224	231	1388.98	+	site "TTAGGTTT"
chr13_94067142_94067340_198_+_GPR180	42	49	2693.22	+	site "TTTGCTTA"
chr13_94067142_94067340_198_+_GPR180	2	9	2250.86	+	site "TTTTCTTA"
chr13_94067142_94067340_198_+_GPR180	177	184	1291.27	-	site "TTTTGTTT"
chr16_29886781_29887143_362_+_LOC124446	280	287	1786.32	+	site "TTTTCTTT"
chr19_3425455_3426008_553_+_NFIC	81	88	1291.27	+	site "TTTTGTTT"
chr6_24644676_24645220_544_+_ALDH5A1	299	306	1453.62	+	site "TATTCTTT"
chr6_24644676_24645220_544_+_ALDH5A1	373	380	1018.65	+	site "TTTTCA TT"
chr6_24644676_24645220_544_+_ALDH5A1	427	434	2007.85	-	site "TTTGCATT"
chr12_45473021_45473245_224_+_SLC38A4	28	35	856.158	+	site "TTAGCATT"
chr17_17353418_17353635_217_+_PEMT	58	65	1365.55	+	site "TATTCTTA"
chr15_56217908_56218217_309_+_AQP9	67	74	643.309	+	site "TATTGATA"
chr3_187989584_187989991_407_+_EIF4A2	584	591	909.615	+	site "TTATGTTT"
chr3_187989584_187989991_407_+_EIF4A2	25	32	1534.43	-	site "TTTGTTT"
chr10_5228766_5228976_210_+_AKR1C4	57	64	1270.89	+	site "TTTTCTTT"
chr1_152445930_152446493_563_+_C1orf43	477	484	2291.5	+	site "TTTGCTTA"
chr1_239727713_239727939_226_+_FH	139	146	2591.78	+	site "TTATCTTT"
chr1_239727713_239727939_226_+_FH	381	388	1714.18	+	site "TTTTCTTA"
chr1_239727713_239727939_226_+_FH	24	31	2147.17	-	site "TTATCTTT"
chr2_42851072_42851305_233_+_HAAO	342	349	1917.95	+	site "TTTTCTTT"
chr2_127897297_127897493_196_+_PROC	343	350	1018.65	+	site "TTTTCA TT"
chr2_127897297_127897493_196_+_PROC	182	189	404.407	-	site "TAAGGTTT"
chr17_69711806_69712016_210_+_RPL38	120	127	1740.62	+	site "TTATCTTT"
chr4_72830648_72830888_240_+_GC	12	19	1667.09	+	site "TTTTGATT"
chr4_72830648_72830888_240_+_GC	121	128	1635.88	+	site "TTTTGT TA"
chr4_72830648_72830888_240_+_GC	90	97	881.578	-	site "TATTCATA"
chr22_22438005_22438530_525_+_C22orf16	182	189	1857.82	+	site "TATTCATT"
chr22_22438005_22438530_525_+_C22orf16	396	403	1048.22	-	site "TTAGGATT"

chr10_115333866_115334084_218+_HABP2	248	255	788.985	+	site "TTAGGATT"
chr10_115333866_115334084_218+_HABP2	243	250	517.449	-	site "TAATCATT"
chr17_18172591_18172970_379+_SHMT1	464	471	1978.88	+	site "TTTTCTTT"
chr17_18172591_18172970_379+_SHMT1	509	516	2212.8	-	site "TTAGCTTT"
chr15_77924496_77924875_379+_MTHFS	85	92	1690.37	+	site "TTTTCATT"
chr1_120101334_120101687_353+_HMGCS2	206	213	1060.65	+	site "TTTTCATA"
chr1_120101334_120101687_353+_HMGCS2	379	386	976.393	+	site "TTATCATA"
chrX_53475638_53475857_219+_HADH2	388	395	1098.53	+	site "TTTGATT"
chr12_102861570_102861865_295+_HSP90B1	355	362	1231.42	+	site "TTTTCTTT"
chr12_102861570_102861865_295+_HSP90B1	411	418	692.499	-	site "TATTGATT"
chr1_57121715_57122000_285+_C8A	376	383	1087.13	+	site "TTTTCTTT"
chr1_57121715_57122000_285+_C8A	443	450	1148.27	-	site "TTATCTTA"
chr1_12561273_12561606_333+_DHRS3	8	15	1889.86	+	site "TTTTCTTA"
chr1_12561273_12561606_333+_DHRS3	374	381	884.016	-	site "TTAGCTTT"
chr7_5533565_5534114_549+_ACTB	725	732	1628.13	+	site "TTTTCATT"
chr3_188243518_188243864_346+_ST6GAL1	99	106	1617.77	+	site "TTTTCTTT"
chr3_188243518_188243864_346+_ST6GAL1	237	244	1281.5	+	site "TTTTCTTT"
chr14_51540945_51541159_214+_C14orf166	397	404	1678.62	+	site "TTTTGTTT"
chr14_51540945_51541159_214+_C14orf166	175	182	1018.65	-	site "TTTTCATT"
chr12_97145408_97145606_198+_---	118	125	651.765	+	site "TTAGCATA"
chr12_97145408_97145606_198+_---	59	66	1201.49	-	site "TATTGTTT"
chr2_201234472_201234680_208+_AOX1	174	181	978.766	+	site "TTATCTTT"
chr2_201234472_201234680_208+_AOX1	327	334	1514.8	-	site "TTTTGTTT"
chr2_201234472_201234680_208+_AOX1	211	218	998.955	-	site "TTTTCTTT"
chr19_11316938_11317379_441+_UNQ501	432	439	648.408	+	site "TTAGGATA"
chr4_77450825_77451023_198+_GENX-3414	276	283	957.163	+	site "TTTGCATT"
chr2_140695630_140695828_198+_LRP1B	95	102	803.639	+	site "TTTTGTTA"
chr19_1548991_1549311_320+_UQCR	154	161	2537.24	+	site "TTTGTTT"
chr19_1548991_1549311_320+_UQCR	249	256	1592.37	-	site "TTTGTTT"

chr1_184548458_184548712_254+_PRG4	267	274	2126.59	+	site "TTTTCTTT"
chr16_65534020_65534264_244+_CES2	54	61	1140.01	+	site "TATGCTTT"
chr6_52764519_52764827_308+_GSTA1	341	348	1183.87	+	site "TTTTGTTT"
chr13_44808969_44809622_653+_TPT1	700	707	1447.97	+	site "TTTTGATT"
chr13_44808969_44809622_653+_TPT1	56	63	1259.5	-	site "TTTGCTTT"
chr12_110720174_110720532_358+_ALDH2	186	193	1932.13	+	site "TATTCTTA"
chr12_110720174_110720532_358+_ALDH2	547	554	1231.42	+	site "TTTTCTTT"
chr17_38408197_38408405_208+_RPL27	344	351	2931.91	+	site "TTTGCTTA"
chr4_100461418_100461664_246+_ADH1B	113	120	1385.38	+	site "TATGCATT"
chr4_100461418_100461664_246+_ADH1B	229	236	1097.6	+	site "TTTTCTTT"
chr1_224082979_224083346_367+_EPHX1	180	187	2004.54	+	site "TTATCATT"
chr1_224082979_224083346_367+_EPHX1	187	194	1024.76	-	site "TAATCTTA"
chr3_52811364_52811635_271+_ITIH3	211	218	1234.05	+	site "TTTTGATT"
chr3_52811364_52811635_271+_ITIH3	319	326	1173.95	+	site "TATTGATT"
chr9_132366141_132366343_202+_ASS1	318	325	1089.38	+	site "TTTGATA"
chr2_229753642_229753966_324+_FLJ20701	225	232	1311.17	+	site "TATTGATT"
chr2_229753642_229753966_324+_FLJ20701	9	16	1009.19	-	site "TTATCTTT"
chr12_101762190_101762424_234+_PAH	421	428	668.597	+	site "TTATGTTT"
chr4_88462781_88463089_308+_HSD17B13	1	8	2497.01	+	site "TTTTCATT"
chr20_18496043_18496283_240+_SEC23B	274	281	1126.28	+	site "TTATCATT"
chr14_20560366_20560570_204+_NDRG2	297	304	1249.96	+	site "TATGCATT"
chr14_20560366_20560570_204+_NDRG2	323	330	1036.01	-	site "TTATGTTT"
chr14_99863204_99863544_340+_C14orf68	47	54	590.252	+	site "TTATGTTT"
chr3_171194079_171194363_284+_TLOC1	249	256	879.241	+	site "TTTTGTTT"
chr12_54364085_54364475_390+_METTL7B	483	490	940.43	+	site "TTTTGTTT"
chr6_160022064_160022373_309+_SOD2	306	313	1458.4	+	site "TTAGCATT"
chr6_160022064_160022373_309+_SOD2	291	298	1774.58	-	site "TTTTCTTT"
chr5_95220979_95221255_276+_ELL2	191	198	696.007	+	site "TATTGTTT"
chr5_95220979_95221255_276+_ELL2	254	261	2015.06	-	site "TTTTCTTA"

chr1_115068009_115068207_198_+_CSDE1	150	157	3037.73	+	site "TTTTCTTA"
chr1_115068009_115068207_198_+_CSDE1	13	20	615.171	-	site "TTTGGATT"
chr12_55461965_55462358_393_+_HSD17B6	349	356	1697.73	+	site "TTTTGTTT"
chr12_55461965_55462358_393_+_HSD17B6	473	480	597.201	-	site "TTAGGATT"
chr6_160021166_160021461_295_+_SOD2	421	428	1319.37	+	site "TTTTGATT"
chr6_160021166_160021461_295_+_SOD2	483	490	624.854	-	site "TTATCATT"
chr9_116133579_116133869_290_+_ORM2	180	187	1036.01	+	site "TTATGTTT"
chr6_122807100_122807493_393_+_SERINC1	410	417	2107.82	+	site "TTATCTTT"
chr6_122807100_122807493_393_+_SERINC1	49	56	1913.06	+	site "TTTTCTTA"
chr6_122807100_122807493_393_+_SERINC1	475	482	1252.76	+	site "TTTGGTTT"
chr1_53286052_53286288_236_+_SCP2	31	38	1055.09	+	site "TTTTGTTT"
chr2_234624060_234624322_262_+_SPP2	71	78	1549.08	+	site "TTATCATT"
chr10_13373785_13374006_221_+_PHYH	10	17	2067.61	+	site "TTTTCTTA"
chr5_176764630_176764836_206_+_F12	233	240	2169.23	+	site "TTATCTTT"
chr4_72839470_72839790_320_+_GC	326	333	924.659	+	site "TTTTGATA"
chr4_72839470_72839790_320_+_GC	399	406	709.881	-	site "TATTCATT"
chr1_169343430_169343643_213_+_FMO3	361	368	1367.89	+	site "TTATCTTT"
chr9_103173241_103173608_367_+_BAAT	113	120	2904	+	site "TTATCTTA"
chr9_103173241_103173608_367_+_BAAT	119	126	1819.42	-	site "TTTTCATA"
chr3_52788428_52788722_294_+_ITIH1	214	221	1444.66	+	site "TTAGCTTT"
chr3_52788428_52788722_294_+_ITIH1	468	475	2227.66	-	site "TTTTGTTT"
chr3_52788428_52788722_294_+_ITIH1	16	23	1357.98	-	site "TTATGATT"
chr12_9143176_9143445_269_+_A2M	456	463	1173.55	+	site "TTTGGATT"
chr12_9143176_9143445_269_+_A2M	336	343	696.258	+	site "TATGGTTT"
chr12_9143176_9143445_269_+_A2M	179	186	1249.96	-	site "TATGCATT"
chr1_194925113_194925457_344_+_CFH	536	543	1009.19	+	site "TTATCTTT"
chr1_194925113_194925457_344_+_CFH	134	141	1493.28	-	site "TATTGTTT"
chr1_194925113_194925457_344_+_CFH	307	314	1076.9	-	site "TTTTCTTA"
chr6_32018651_32019136_485_+_C2	496	503	3083.54	+	site "TTTGCTTT"

chr2_216778095_216778382_287+_XRCC5	19	26	549.46	+	site "TATTCATA"
chr2_216778095_216778382_287+_XRCC5	206	213	2060.8	-	site "TTTGGATT"
chr22_19468199_19468630_431+_SERPIND1	68	75	1708.11	+	site "TTTGGTTT"
chr21_26149899_26150121_222+_APP	364	371	953.391	+	site "TATTCTTA"
chr21_26149899_26150121_222+_APP	147	154	1112.47	-	site "TTTTGATT"
chr10_95343479_95343891_412+_RBP4	540	547	1471.16	+	site "TTTTGATT"
chr10_95343479_95343891_412+_RBP4	8	15	676.25	-	site "TTATCATA"
chr14_94103027_94103420_393+_SERPINA4	284	291	1331.32	+	site "TTTGCATA"
chr5_93929874_93930684_810+_C5orf36	18	25	1300.2	+	site "TTATGTTA"
chr5_93929874_93930684_810+_C5orf36	395	402	998.955	-	site "TTTTCTTT"
chr3_52799628_52800067_439+_ITIH1	416	423	1287.7	+	site "TTTGCATT"
chr3_52799628_52800067_439+_ITIH1	551	558	1968.21	-	site "TTTTCTTT"
chr15_42797017_42797689_672+_B2M	333	340	2168.83	+	site "TTATCTTA"
chr16_65531560_65531986_426+_CES2	165	172	1956.51	+	site "TTTGCTTA"
chr6_32023436_32023948_512+_CFB	223	230	879.241	+	site "TTTTGTTT"
chr20_56918337_56918599_262+_GNAS	294	301	805.762	+	site "TTTTGATA"
chr22_19471076_19472091_1015+_SERPIND1	393	400	1362.4	+	site "TTTTGTTT"
chr22_19471076_19472091_1015+_SERPIND1	235	242	1549.83	-	site "TTTTCAAT"
chr2_132754831_132755753_922+_---	125	132	1575.37	+	site "TTTTCTTT"
chr1_172146428_172146748_320+_SERPINC1	492	499	387.826	+	site "TAATGTTA"
chr1_172146428_172146748_320+_SERPINC1	421	428	2123.12	-	site "TTATCTTA"
chr14_20226700_20226957_257+_ANG	311	318	978.769	+	site "TTTTCATA"
chr8_91133030_91133424_394+_DECR1	346	353	1263.7	+	site "TTTTCAAT"
chr8_91133030_91133424_394+_DECR1	213	220	620.644	-	site "TTTTCATA"
chr4_100263754_100264745_991+_ADH4	111	118	4125	+	site "TTTGCTTA"
chr4_100263754_100264745_991+_ADH4	10	17	1875.63	+	site "TTTGCATT"
chr4_100263754_100264745_991+_ADH4	167	174	1123.1	-	site "TTTTGTTA"
chr4_100263754_100264745_991+_ADH4	35	42	1058.37	-	site "TATGCTTT"
chr2_201215509_201215869_360+_AOX1	10	17	855.909	+	site "TTTTGTTT"

chr14_94104152_94104454_302+_SERPINA4	331	338	920.802	+	site "TATTCATT"
chr12_55453830_55454311_481+_HSD17B6	381	388	592.772	+	site "TTATGATA"
chr12_55453830_55454311_481+_HSD17B6	322	329	1968.21	-	site "TTTTCTTT"
chr12_55453830_55454311_481+_HSD17B6	344	351	1572.07	-	site "TTATCTTT"
chr4_74491123_74491451_328+_ALB	439	446	2136.08	+	site "TTTTCTTA"
chr4_74491123_74491451_328+_ALB	415	422	1380.55	+	site "TTTTGATT"
chr4_74491123_74491451_328+_ALB	155	162	1638.62	-	site "TATGCTTT"
chr4_74491123_74491451_328+_ALB	4	11	1181.5	-	site "TTAGGTTA"
chr9_96405193_96405783_590+_FBP1	138	145	1097.6	+	site "TTTTCTTT"
chr2_147739166_147739388_222+_---	157	164	2419.61	+	site "TTTTCTTA"
chr2_147739166_147739388_222+_---	5	12	1233.33	-	site "TTTTGTTT"
chr3_187813474_187813921_447+_AHSG	124	131	2339.61	+	site "TTAGCTTA"
chr17_38318550_38318795_245+_G6PC	143	150	3503.69	+	site "TTTGCTTT"
chr3_134967752_134968060_308+_TF	35	42	1310.4	+	site "TTTGATA"
chr3_134967752_134968060_308+_TF	228	235	960.1	+	site "TTTGTTT"
chr3_134967752_134968060_308+_TF	178	185	564.003	-	site "TATGCATA"
chr8_57148768_57148978_210+_RPS20	187	194	2180.81	+	site "TATGCTTT"
chr8_57148768_57148978_210+_RPS20	58	65	1821.51	+	site "TATTGTTT"
chr8_57148768_57148978_210+_RPS20	361	368	1767.96	+	site "TTTTCTTT"
chr8_57148768_57148978_210+_RPS20	115	122	1164.73	+	site "TTTTGATT"
chr8_57148768_57148978_210+_RPS20	389	396	1719.43	-	site "TATTCATT"
chr10_7809592_7809897_305+_ITIH2	498	505	1447.57	+	site "TTTTCTTA"
chr10_7809592_7809897_305+_ITIH2	427	434	998.955	-	site "TTTTCTTT"
chrX_23711162_23711518_356+_SAT1	56	63	655.888	+	site "TTATCATA"
chrX_23711162_23711518_356+_SAT1	45	52	1767.96	-	site "TTTTCTTT"
chr12_7041764_7042045_281+_C1S	44	51	1219.99	+	site "TTTGATA"
chr12_7041764_7042045_281+_C1S	20	27	1327.43	-	site "TATTCATT"
chr17_77397509_77397871_362+_P4HB	260	267	1308.9	+	site "TTTTGTTT"
chr17_77397509_77397871_362+_P4HB	150	157	3516.18	-	site "TTTGATT"

chr2_217074248_217074473_225+_RPL37A	103	110	889.264	+	site "TTAGGTTT"
chr2_217074248_217074473_225+_RPL37A	22	29	2222.91	-	site "TTATGTTT"
chr21_31962575_31963173_598+_SOD1	494	501	2349.03	+	site "TTTGCTTA"
chr21_31962575_31963173_598+_SOD1	360	367	1409.29	+	site "TTTGCAAT"
chr21_31962575_31963173_598+_SOD1	16	23	443.969	-	site "TATGGATT"
chr2_217072212_217072429_217+_RPL37A	177	184	1217.52	+	site "TTTTGATT"
chr5_134290116_134292186_2070+_PCBD2	3	10	1360.56	+	site "TTTTGTTT"
chr5_134290116_134292186_2070+_PCBD2	1912	1919	1579.39	-	site "TTTGCATA"
chr1_120108250_120108862_612+_HMGCS2	731	738	952.332	+	site "TATTCTTA"
chr3_187877451_187878797_1346+_HRG	954	961	2636.5	+	site "TTTTCTTA"
chr4_155728022_155728369_347+_FGA	51	58	1596.77	+	site "TTTTCTTT"
chr4_155728022_155728369_347+_FGA	92	99	1038.14	-	site "TTTTGATA"
chr1_172143149_172143377_228+_SERPINC1	260	267	1758.42	+	site "TATGCTTT"
chr1_172143149_172143377_228+_SERPINC1	127	134	1447.57	-	site "TTTTCTTA"
chr1_172143149_172143377_228+_SERPINC1	173	180	1381.49	-	site "TTTTCTTA"
chr20_56919072_56919617_545+_GNAS	678	685	1349.79	+	site "TTTTGTTT"
chr20_56919072_56919617_545+_GNAS	321	328	1771.29	-	site "TTAGCTTA"
chr3_134978501_134978881_380+_TF	211	218	1676.04	+	site "TTTGCAAT"
chr3_134978501_134978881_380+_TF	60	67	2768.36	-	site "TTTTGTTT"
chr4_155707001_155707377_376+_FGB	115	122	1239.85	+	site "TTTGCTTT"
chr6_161055745_161056023_278+_PLG	73	80	1632.18	+	site "TTAGGTTT"
chr6_161055745_161056023_278+_PLG	172	179	681.325	-	site "TAAGCTTT"
chr5_79982362_79982705_343+_DHFR	499	506	2135.69	+	site "TATTCTTA"
chr5_79982362_79982705_343+_DHFR	253	260	1605.27	+	site "TTTTGTTT"
chr5_79982362_79982705_343+_DHFR	216	223	1301.49	-	site "TATTGTTT"
chr12_117067387_117067865_478+_PEBP1	299	306	1589.29	+	site "TTAGCAAT"
chr12_117067387_117067865_478+_PEBP1	524	531	1267.82	+	site "TTATGTTA"
chr12_117067387_117067865_478+_PEBP1	506	513	1038.14	-	site "TTTTGATA"
chr4_74576409_74576751_342+_AFM	75	82	945.429	+	site "TATGCTTT"

chr21_42450443_42450641_198+_UMODL1	35	42	765.075	+	site "TTTTCATA"
chr21_42450443_42450641_198+_UMODL1	41	48	1897.59	-	site "TTTGCTTA"
chr9_37421924_37422215_291+_GRHPR	9	16	1545.99	+	site "TTTTGTTA"
chr9_37421924_37422215_291+_GRHPR	35	42	1936.27	-	site "TTATGTTT"
chr2_215977431_215977676_245+_FN1	196	203	1320.87	+	site "TTTTCATT"
chr2_215977431_215977676_245+_FN1	378	385	2537.24	-	site "TTTGTTTT"
chrY_9039423_9039676_253+_---	102	109	2112.05	+	site "TTTTCTTA"
chrY_9039423_9039676_253+_---	244	251	360.16	-	site "TAATGTTT"
chr4_72868491_72868738_247+_GC	163	170	1076.9	+	site "TTTTCTTA"
chr12_101758253_101758504_251+_PAH	234	241	1255.74	+	site "TATTGATT"
chr19_23975427_23975648_221+_---	51	58	855.909	+	site "TTTTGTTT"
chr9_103227468_103227830_362+_ALDOB	426	433	1671.93	+	site "TATTGTTA"
chr1_57167470_57167891_421+_C8B	299	306	1009.19	+	site "TTATCTTT"
chr1_57167470_57167891_421+_C8B	235	242	1076.9	-	site "TTTTCTTA"
chr3_150378853_150379180_327+_CP	204	211	951.808	+	site "TATGCATA"
chr3_150378853_150379180_327+_CP	182	189	1335.66	-	site "TTTTGATT"
chr3_150378853_150379180_327+_CP	4	11	1288.46	-	site "TATTCTTT"
chr3_150378853_150379180_327+_CP	239	246	841.641	-	site "TTTGTTTA"
chr19_53066301_53066730_429+_SULT2A1	251	258	1183.25	+	site "TTTTCTTA"
chr1_554236_554778_542+_---	306	313	1981.47	+	site "TTTTCTTT"
chr4_100487857_100488069_212+_ADH1C	325	332	599.94	+	site "TTAGGATA"
chr4_100487857_100488069_212+_ADH1C	307	314	327.622	-	site "TAAGCTTA"
chr6_152225468_152225686_218+_ESR1	334	341	2126.33	+	site "TATTCTTT"
chr6_152225468_152225686_218+_ESR1	389	396	1681.65	+	site "TATTCTTT"
chr6_152225468_152225686_218+_ESR1	125	132	1229.15	+	site "TTTTGTTA"
chr6_152225468_152225686_218+_ESR1	230	237	1055.09	+	site "TTTTGTTT"
chr6_152225468_152225686_218+_ESR1	365	372	975.501	+	site "TTTGTTTT"
chr6_152225468_152225686_218+_ESR1	255	262	750.937	+	site "TATGCATT"
chr6_152225468_152225686_218+_ESR1	218	225	715.127	+	site "TTATGTTT"

chr6_152225468_152225686_218+_ESR1	104	111	627.74	-	site "TTATGATA"
chr4_70012800_70013173_373+_UGT2B7	297	304	1275.73	+	site "TATGGTTT"
chr4_70012800_70013173_373+_UGT2B7	329	336	2414.35	-	site "TTTTGTTT"
chr4_70012800_70013173_373+_UGT2B7	173	180	1812.88	-	site "TATTCTTA"
chr15_43456037_43456389_352+_GATM	454	461	1575.37	+	site "TTTTCTTT"
chr15_43456037_43456389_352+_GATM	238	245	2345.3	-	site "TTTTCTTT"
chr15_43456037_43456389_352+_GATM	512	519	1774.58	-	site "TTTTCTTT"
chr3_68802280_68802501_221+_---	94	101	2216.23	+	site "TATGCTTA"
chr3_68802280_68802501_221+_---	51	58	975.501	-	site "TTTGGTTT"
chr4_155723735_155723986_251+_FGA	283	290	1120.17	+	site "TTTTCTTT"
chr1_179741711_179741909_198+_CACNA1E	180	187	543.609	+	site "TTAGGATA"
chr4_72852812_72853103_291+_GC	288	295	779.411	+	site "TTTTGTTA"
chr9_103231768_103232175_407+_ALDOB	237	244	941.091	+	site "TTTTGTTT"
chr9_103231768_103232175_407+_ALDOB	466	473	1173.77	-	site "TATTCATT"
chr4_181388318_181388537_219+_---	53	60	1599.28	+	site "TTTTCATT"
chr4_181388318_181388537_219+_---	344	351	1090.46	-	site "TTATGATT"
chr2_211236030_211236245_215+_CPS1	231	238	2470.16	+	site "TTTGCTTT"
chr2_211236030_211236245_215+_CPS1	192	199	750.937	-	site "TATGCATT"
chr3_97819280_97819591_311+_---	137	144	1048.34	+	site "TTATCTTT"
chr6_143055336_143055534_198+_---	284	291	1584.45	+	site "TTAGCTTT"
chr6_143055336_143055534_198+_---	339	346	641.887	-	site "TTATCATT"
chr4_110886762_110887161_399+_CFI	75	82	2089.27	+	site "TATTCTTA"
chr4_110886762_110887161_399+_CFI	151	158	1698.3	+	site "TTTTCTTA"
chr4_110886762_110887161_399+_CFI	133	140	1291.27	+	site "TTTTGTTT"
chr4_110886762_110887161_399+_CFI	362	369	2087.96	-	site "TTATGTTT"
chr7_94829574_94829809_235+_PON3	424	431	1098.37	+	site "TTTTCTTT"
chr16_54410917_54411139_222+_CES1	180	187	2528.31	+	site "TTTTCTTA"
chr4_72841213_72841589_376+_GC	458	465	1380.65	+	site "TTAGCTTT"
chr4_72841213_72841589_376+_GC	280	287	1721.37	-	site "TTTTCTTA"

chr4_72841213_72841589_376+_GC	248	255	1114	-	site "TATTCATT"
chr22_34611596_34611818_222+_RBM9	157	164	1303.17	+	site "TTTTCAAT"
chr11_107514784_107515042_258+_ACAT1	428	435	437.209	+	site "TAAGGTTT"
chr10_135195393_135195884_491+_CYP2E1	20	27	1613.54	+	site "TTATGTTT"
chr10_135195393_135195884_491+_CYP2E1	66	73	1110.38	-	site "TTTTCTTA"
chr1_194937099_194937363_264+_CFH	123	130	855.909	+	site "TTTTGTTT"
chr1_194937099_194937363_264+_CFH	353	360	1913.44	-	site "TTTGATT"
chr11_116206403_116206931_528+_APOC3	693	700	1097.6	+	site "TTTTCTTT"
chr4_100266700_100267012_312+_ADH4	275	282	1591.84	+	site "TTATCTTA"
chr4_100266700_100267012_312+_ADH4	334	341	800.657	-	site "TTTTGTTA"
chr5_39377369_39377596_227+_C9	420	427	1329.3	+	site "TTATCATA"
chr18_45565504_45565702_198+_ACAA2	100	107	985.194	+	site "TATTGATT"
chr1_205363839_205364057_218+_C4BPA	75	82	861.63	+	site "TATTGATT"
chr21_26191704_26191929_225+_APP	373	380	972.517	+	site "TTTGCAAT"
chr21_26191704_26191929_225+_APP	202	209	538.468	-	site "TTAGGATA"
chr1_59019615_59019851_236+_JUN	351	358	641.887	+	site "TTATCAAT"
chr1_59019615_59019851_236+_JUN	338	345	355.379	-	site "TAATCTTA"
chr2_20097500_20097736_236+_LAPTM4A	344	351	2829.87	+	site "TTTGCTTT"
chr2_20097500_20097736_236+_LAPTM4A	12	19	1253.94	-	site "TTTTGATA"
chr2_20097500_20097736_236+_LAPTM4A	352	359	1183.87	-	site "TTTTGTTT"
chr2_20097500_20097736_236+_LAPTM4A	162	169	998.955	-	site "TTTTCTTT"
chr1_119724643_119724928_285+_HAO2	147	154	2252.23	+	site "TTTGCTTT"
chr2_85422858_85423206_348+_RETSAT	216	223	1342.79	+	site "TTTTCTTT"
chr2_85422858_85423206_348+_RETSAT	229	236	646.919	-	site "TATGGTTT"
chr5_41018368_41018574_206+_C7	152	159	1217.21	+	site "TATTCATT"
chr5_41018368_41018574_206+_C7	275	282	776.99	-	site "TATTCTTT"
chr15_62152024_62152354_330+_FAM96A	237	244	1494.16	+	site "TTTTGATT"
chr15_62152024_62152354_330+_FAM96A	256	263	1076.9	-	site "TTTTCTTA"
chr15_62152024_62152354_330+_FAM96A	298	305	855.909	-	site "TTTTGTTT"

chr17_7063925_7064131_206+_ACADVL	187	194	646.919	+	site "TATGGTTT"
chr4_187448422_187448690_268+_F11	161	168	466.462	+	site "TAAGCATT"
chr4_187448422_187448690_268+_F11	35	42	2627.78	-	site "TTTGCTTA"
chr4_187448422_187448690_268+_F11	124	131	2104.49	-	site "TTTGTTT"
chr18_55146262_55146710_448+_LMAN1	126	133	2076.39	+	site "TTTGCTTA"
chr18_55146262_55146710_448+_LMAN1	458	465	874.29	-	site "TTTGTTA"
chr1_148817333_148817595_262+_MCL1	104	111	2350.68	+	site "TTTTCTTT"
chr2_211172332_211172589_257+_CPS1	108	115	1522.54	+	site "TTTGCTTA"
chr12_97516405_97516640_235+_SLC25A3	413	420	1750.84	+	site "TTTTGTTT"
chr15_78259477_78259693_216+_FAH	231	238	1698.3	+	site "TTTTCTTA"
chr12_45458501_45458780_279+_SLC38A4	94	101	736.223	+	site "TATGGATT"
chr6_122807844_122808058_214+_SERINC1	194	201	1742.11	+	site "TTTGCTTT"
chr1_24007193_24007467_274+_HMGCL	429	436	647.97	+	site "TATGGTTT"
chr1_24007193_24007467_274+_HMGCL	468	475	3805.88	-	site "TTTGCTTT"
chr13_20649116_20649540_424+_MRP63	545	552	1605.27	+	site "TTTTGTTT"
chr13_20649116_20649540_424+_MRP63	208	215	2123.12	-	site "TTATCTTA"
chr13_20649116_20649540_424+_MRP63	485	492	1169.49	-	site "TTATGTTT"
chr5_36228673_36229108_435+_C5orf33	474	481	959.768	+	site "TTTTGTTT"
chr5_36228673_36229108_435+_C5orf33	563	570	1933.33	-	site "TTTTCTTT"
chr5_36228673_36229108_435+_C5orf33	598	605	1786.32	-	site "TTTTCTTT"
chr5_36228673_36229108_435+_C5orf33	115	122	1545.99	-	site "TTTTGTTA"
chr5_36228673_36229108_435+_C5orf33	574	581	1084.13	-	site "TATTGTTA"
chr4_187446613_187447224_611+_F11	50	57	1161.32	+	site "TTTTCATA"
chr3_52215562_52215867_305+_ALAS1	6	13	823.568	+	site "TTAGGATT"
chr12_97519056_97519603_547+_SLC25A3	680	687	2210.3	+	site "TTTGCTTT"
chr6_153645348_153645593_245+_---	138	145	669.233	+	site "TTAGCATT"
chr1_149605785_149606055_270+_SELENBP1	421	428	2255.54	+	site "TTTTGTTT"
chr19_2428463_2428707_244+_GADD45B	427	434	2136.08	+	site "TTTTCTTA"
chr19_2428463_2428707_244+_GADD45B	382	389	1598	-	site "TTTGCATT"

chr2_55068151_55068401_250+_RTN4	344	351	2034.51	+	site "TTTTGATT"
chr16_57300776_57300985_209+_GOT2	244	251	1089.28	+	site "TTTTGTTA"
chr17_37101049_37101396_347+_EIF1	233	240	1628.87	+	site "TTATGTTA"
chr12_54399493_54399780_287+_BLOC1S1	271	278	2931.91	+	site "TTTGCTTA"
chr12_54399493_54399780_287+_BLOC1S1	363	370	1308.9	-	site "TTTTGTTT"
chr3_150688139_150688313_174+_TM4SF4	292	299	1684.84	+	site "TATTCTTA"
chr3_150688139_150688313_174+_TM4SF4	257	264	1123.85	+	site "TATGCTTA"
chr3_150688139_150688313_174+_TM4SF4	167	174	709.881	-	site "TATTCATT"
chr5_130522882_130523101_219+_HINT1	283	290	469.306	+	site "TTATCATA"
chr5_130522882_130523101_219+_HINT1	34	41	1087.13	-	site "TTTTCTTT"
chr15_78260365_78260638_273+_FAH	3	10	906.158	+	site "TATTGATT"
chr6_135281371_135281741_370+_ALDH8A1	375	382	808.856	+	site "TATGCATT"
chr19_12915299_12916278_979+_CALR	61	68	1619.1	+	site "TTTGGTTA"
chr13_45554535_45554771_236+_CPB2	84	91	1463.36	+	site "TATGGTTT"
chr13_45554535_45554771_236+_CPB2	410	417	3271.69	-	site "TTTTCTTA"
chr11_107523129_107523482_353+_ACAT1	197	204	2636.5	+	site "TTTTCTTA"
chr11_107523129_107523482_353+_ACAT1	402	409	2104.49	+	site "TTTGTTTT"
chr1_7967508_7967909_401+_PARK7	452	459	1122.76	+	site "TTATCATT"
chr1_7967508_7967909_401+_PARK7	516	523	687.699	-	site "TAATCTTA"
chr7_94782533_94782820_287+_PON1	323	330	1488.38	+	site "TTAGCTTA"
chr7_94782533_94782820_287+_PON1	312	319	829.2	+	site "TATGGATA"
chr7_94782533_94782820_287+_PON1	292	299	624.854	+	site "TTATCATT"
chr4_100420239_100420527_288+_ADH1A	438	445	865.716	+	site "TTTTGATT"
chr19_50126029_50126331_302+_APOC4	492	499	1353.56	+	site "TTAGGTTA"
chr15_42794829_42795275_446+_B2M	557	564	2827.58	+	site "TTTTCTTT"
chr3_140438165_140438363_198+_---	285	292	1089.28	+	site "TTTTGTTA"
chr10_73249928_73250153_225+_PSAP	302	309	1083.9	+	site "TTATCTTA"
chr10_73249928_73250153_225+_PSAP	45	52	1734.4	-	site "TTTTCATT"
chr19_44618277_44618491_214+_RPS16	209	216	1097.6	+	site "TTTTCTTT"

chr15_56617795_56618097_302+_LIPC	152	159	1601.54	+	site "TTTTGTTT"
chr15_56617795_56618097_302+_LIPC	45	52	1905.92	-	site "TTTTCTTA"
chr7_26206735_26206930_195+_HNRPA2B1	315	322	1047.14	+	site "TTTGTTTA"
chr7_26206735_26206930_195+_HNRPA2B1	65	72	2445.66	-	site "TTTTCTTT"
chr7_26206735_26206930_195+_HNRPA2B1	214	221	1774.58	-	site "TTTTCTTT"
chr19_2428742_2428984_242+_GADD45B	148	155	2136.08	+	site "TTTTCTTA"
chr19_2428742_2428984_242+_GADD45B	103	110	1598	-	site "TTTGCATT"
chr7_94872198_94872552_354+_PON2	1	8	3018.57	+	site "TTTTCTTT"
chr7_94872198_94872552_354+_PON2	307	314	1786.32	+	site "TTTTCTTT"
chr7_94872198_94872552_354+_PON2	240	247	3037.73	-	site "TTTTCTTA"
chr6_32103026_32103224_198+_C4A	306	313	1276.64	+	site "TATTCATT"
chr18_33969606_33969804_198+_---	127	134	2177.65	+	site "TTTTCATT"
chr16_15038242_15038828_586+_KIAA0251	42	49	1248.92	+	site "TTTGCATT"
chr2_211175104_211175364_260+_CPS1	38	45	483.895	+	site "TTATCATA"
chr2_211175104_211175364_260+_CPS1	217	224	2422.68	-	site "TTTTGTTT"
chr2_211175104_211175364_260+_CPS1	130	137	1150.51	-	site "TTTTGTTT"
chr15_88432827_88433059_232+_IDH2	259	266	1000.19	+	site "TATGTTTT"
chr15_88432827_88433059_232+_IDH2	278	285	670.336	-	site "TTTTGATA"
chr9_34624698_34625103_405+_OPRS1	535	542	1274.06	+	site "TTAGCTTT"
chr4_110902105_110902316_211+_CFI	195	202	1145.45	+	site "TATGCTTT"
chr4_110902105_110902316_211+_CFI	250	257	1032.84	-	site "TTAGCATT"
chr10_135030306_135030584_278+_ECHS1	18	25	2133.24	+	site "TTTGTTTT"
chr12_54841271_54841718_447+_MYL6	614	621	1098.42	+	site "TTTTCATA"
chr12_54841271_54841718_447+_MYL6	603	610	909.615	-	site "TTATGTTT"
chr9_116126799_116127351_552+_ORM1	18	25	1557.96	+	site "TTATCTTT"
chr7_94827215_94827473_258+_PON3	169	176	834.814	+	site "TTTTGTTA"
chr7_94827215_94827473_258+_PON3	301	308	1003.63	-	site "TTATCATT"
chr4_157060404_157060901_497+_TDO2	522	529	2121.79	+	site "TTTTCTTA"
chr4_157060404_157060901_497+_TDO2	599	606	1282.65	+	site "TTATGTTT"

chr12_51632120_51632348_228+_KRT18	398	405	2014.01	+	site "TTTGTTTT"
chr12_51632120_51632348_228+_KRT18	29	36	2222.91	-	site "TTATGTTTT"
chr3_134956813_134957136_323+_TF	343	350	1715.75	+	site "TTTGCATT"
chr20_9097503_9097721_218+_PLCB4	376	383	1756.76	+	site "TTTTCATATA"
chr1_47167491_47167798_307+_CYP4A11	486	493	2662.91	+	site "TTTGCTTA"
chr1_47167491_47167798_307+_CYP4A11	448	455	1586.55	+	site "TTTTCATTT"
chr1_47167491_47167798_307+_CYP4A11	388	395	1184.08	-	site "TTTTCTTA"
chr10_7831089_7831562_473+_ITIH2	313	320	1246.68	+	site "TTTTCATTT"
chr10_7831089_7831562_473+_ITIH2	320	327	1673.75	-	site "TTTGCTTA"
chr11_74792673_74792949_276+_RPS3	27	34	1756.88	+	site "TTATGTTTT"
chr11_74792673_74792949_276+_RPS3	61	68	941.091	+	site "TTTTGTTTT"
chr1_172139505_172139920_415+_SERPINC1	415	422	2362.22	+	site "TTTGCTTTT"
chr1_172139505_172139920_415+_SERPINC1	236	243	1482.3	-	site "TTTTCATTT"
chr4_110883049_110883294_245+_CFI	218	225	1884.43	+	site "TTTTGTTTT"
chr4_110883049_110883294_245+_CFI	139	146	1843.53	+	site "TTATGTTTT"
chr4_110883049_110883294_245+_CFI	203	210	1552.6	+	site "TTTGCTTTT"
chr4_110883049_110883294_245+_CFI	377	384	1196.19	+	site "TTTTGTTTT"
chr4_155708109_155708713_604+_FGB	144	151	950.084	+	site "TTATCATATA"
chr4_155708109_155708713_604+_FGB	156	163	1276.64	-	site "TATTCATT"
chr18_70081483_70081786_303+_CYB5A	35	42	891.752	+	site "TATTGATT"
chr18_70081483_70081786_303+_CYB5A	456	463	630.099	-	site "TTAGGATT"
chr15_56640333_56640552_219+_LIPC	411	418	1408.72	+	site "TTTGCATA"
chr15_56640333_56640552_219+_LIPC	199	206	2338.5	-	site "TTATCTTA"
chr8_105462554_105462807_253+_DPYS	88	95	879.109	+	site "TTATGTTTT"
chr8_105462554_105462807_253+_DPYS	5	12	1877.86	-	site "TATGCTTTT"
chr9_74710662_74710861_199+_ALDH1A1	388	395	1565.2	+	site "TTATCTTTT"
chr9_115874936_115875234_298+_AMBP	159	166	1069.96	+	site "TTTTCTTTT"
chr9_115874936_115875234_298+_AMBP	94	101	991.586	+	site "TTTTGTTA"
chr3_150385703_150385995_292+_CP	57	64	933.822	+	site "TATTGTTA"

chr3_150385703_150385995_292_+_CP	243	250	1683.01	-	site "TTTTGTTA"
chr4_100458911_100459148_237_+_ADH1B	39	46	730.424	+	site "TTTGCATA"
chr4_100458911_100459148_237_+_ADH1B	193	200	1740.62	-	site "TTATCTTT"
chr12_7040383_7040676_293_+_C1S	159	166	1480.77	+	site "TTTTGTTT"
chr12_7040383_7040676_293_+_C1S	47	54	1647.69	-	site "TTAGGTTA"
chr21_34810629_34810967_338_+_DSCR1	518	525	998.955	+	site "TTTTCTTT"
chr21_34810629_34810967_338_+_DSCR1	194	201	891.752	-	site "TATTGATT"
chr10_7805353_7805614_261_+_ITIH2	448	455	1714.18	+	site "TTTTCTTA"
chr10_7805353_7805614_261_+_ITIH2	221	228	2528.31	-	site "TTTTCTTA"
chr10_7805353_7805614_261_+_ITIH2	436	443	1375.25	-	site "TATTGTTA"
chr2_175752046_175752286_240_+_ATP5G3	22	29	1274.06	+	site "TTAGCTTT"
chr2_175752046_175752286_240_+_ATP5G3	136	143	2161.27	-	site "TTTGCTTA"
chr1_120099489_120099850_361_+_HMGCS2	454	461	1051.3	+	site "TTTTCAATT"
chr8_100577190_100577464_274_+_VPS13B	390	397	1545.99	+	site "TTTTGTTA"
chr8_100577190_100577464_274_+_VPS13B	62	69	1439.45	+	site "TTTTCTTT"
chr8_100577190_100577464_274_+_VPS13B	211	218	1353.57	+	site "TTATCTTA"
chr8_100577190_100577464_274_+_VPS13B	343	350	1349.79	+	site "TTTTGTTT"
chr8_100577190_100577464_274_+_VPS13B	404	411	1048.34	+	site "TTATCTTT"
chr16_55274508_55274707_199_+_MT1X	336	343	1200.52	+	site "TTTGGATT"
chr1_119736203_119736465_262_+_HAO2	53	60	921.419	+	site "TTTGCATT"
chr1_119736203_119736465_262_+_HAO2	192	199	1336.5	-	site "TTTGGATT"
chr9_19108258_19108538_280_+_ADFP	229	236	1477.67	+	site "TTTTCAATT"
chr9_19108258_19108538_280_+_ADFP	93	100	1298.65	-	site "TTTGCTTT"
chr4_185920505_185920719_214_+_ACSL1	381	388	1201.22	+	site "TTTGCATT"
chr4_185920505_185920719_214_+_ACSL1	65	72	1068.52	+	site "TATTGTTA"
chr4_185920505_185920719_214_+_ACSL1	360	367	582.103	+	site "TATTCTTA"
chr4_185920505_185920719_214_+_ACSL1	10	17	765.075	-	site "TTTTCATA"
chr10_135196106_135196468_362_+_CYP2E1	514	521	1923.07	+	site "TTTTGTTT"
chr10_135196106_135196468_362_+_CYP2E1	324	331	1196.19	+	site "TTTTGTTT"

chr10_135196106_135196468_362+_CYP2E1	339	346	1076.9	+	site "TTTTCTTA"
chr3_134965646_134965900_254+_TF	173	180	1867.63	+	site "TTATCATT"
chr3_134965646_134965900_254+_TF	289	296	946.594	-	site "TATTCTTT"
chr16_70650423_70650659_236+_HP	82	89	1897.59	+	site "TTTGCTTA"
chr16_70650423_70650659_236+_HP	11	18	562.854	-	site "TTTTCATA"
chr12_40043629_40043894_265+_---	272	279	2590.59	+	site "TTAGCTTA"
chr12_40043629_40043894_265+_---	324	331	1449.31	+	site "TATTGATT"
chr12_40043629_40043894_265+_---	353	360	1055.09	+	site "TTTTGTTT"
chr12_40043629_40043894_265+_---	333	340	779.411	+	site "TTTTGTTA"
chr15_43447511_43447855_344+_GATM	473	480	1047.45	+	site "TTTTCATA"
chr15_43447511_43447855_344+_GATM	23	30	855.909	-	site "TTTTGTTT"
chr5_118905438_118905692_254+_HSD17B4	382	389	2052.1	+	site "TTTTCTTA"
chr21_31961356_31961630_274+_SOD1	83	90	4850.5	+	site "TTTGCTTT"
chr21_31961356_31961630_274+_SOD1	249	256	811.924	+	site "TTATCATA"
chr21_31961356_31961630_274+_SOD1	250	257	491.37	-	site "TTATGATA"
chr9_115876047_115876348_301+_AMBP	12	19	1869.2	+	site "TTTTCTTT"
chr9_115876047_115876348_301+_AMBP	494	501	1477.37	-	site "TTTTGTTA"
chr5_99416425_99416702_277+_---	211	218	976.631	+	site "TTTTCTTA"
chr5_99416425_99416702_277+_---	42	49	1018.65	-	site "TTTTCATT"
chr6_133635680_133635953_273+_EYA4	301	308	1531.36	+	site "TTTTGATT"
chr6_133635680_133635953_273+_EYA4	234	241	1304.75	+	site "TTTGGTTA"
chr4_88453926_88454208_282+_HSD17B13	228	235	1282.65	+	site "TTATGTTT"
chr12_101764731_101764965_234+_PAH	82	89	1590.1	+	site "TTTTCTTT"
chr20_37339733_37339951_218+_---	34	41	1978.88	+	site "TTTTCTTT"
chr9_115878609_115878936_327+_AMBP	496	503	2529.48	+	site "TTTGCATT"
chr4_77026129_77026350_221+_PPEF2	6	13	2367.89	+	site "TTTTGTTA"
chr5_61151279_61151477_198+_---	383	390	1507.08	+	site "TTTTCTTT"
chr4_166483222_166483577_355+_SC4MOL	546	553	1767.96	+	site "TTTTCTTT"
chr19_54161596_54162046_450+_FTL	59	66	1123.1	+	site "TTTTGTTA"

chr4_155706319_155706689_370+_FGB	103	110	865.716	+	site "TTTTGATT"
chr1_224096613_224096883_270+_EPHX1	82	89	923.621	+	site "TATTCTTA"
chr1_224096613_224096883_270+_EPHX1	59	66	1555.56	-	site "TATTGATT"
chr3_134960627_134960966_339+_TF	404	411	2498.27	+	site "TTTGCTTT"
chr3_134960627_134960966_339+_TF	94	101	1763.78	+	site "TTAGCTTT"
chr3_134960627_134960966_339+_TF	423	430	1586.55	-	site "TTTTCATT"
chr6_133513426_133513652_226+_LOC285735	365	372	2087.96	+	site "TTATGTTT"
chr6_32022112_32022435_323+_CFB	446	453	2076.39	+	site "TTTGCTTA"
chr19_50109874_50110076_202+_APOC1	109	116	998.955	+	site "TTTTCTTT"
chr6_4062492_4062727_235+_PECI	277	284	609.455	+	site "TAATCTTT"
chr11_57123882_57124510_628+_SERPING1	133	140	870.189	+	site "TTTGATT"
chr5_180601063_180601337_274+_GNB2L1	365	372	2576.42	+	site "TTTGCTTT"
chr11_57129981_57130347_366+_SERPING1	543	550	1174.26	+	site "TATTGTTT"
chr11_57129981_57130347_366+_SERPING1	154	161	981.887	-	site "TTTGCACTT"
chr11_112027778_112027976_198+_---	238	245	1521.12	+	site "TTTTGATT"
chr11_112027778_112027976_198+_---	18	25	2532.42	-	site "TTATCTTA"
chr3_187873206_187873446_240+_HRG	330	337	734.735	+	site "TATGTTT"
chr8_27513134_27513526_392+_CLU	403	410	1615.73	+	site "TTTGCTTT"
chr8_27513134_27513526_392+_CLU	368	375	2345.3	-	site "TTTTCTTT"
chr16_55199928_55200202_274+_MT2A	88	95	1097.6	+	site "TTTTCTTT"
chr15_42790940_42791203_263+_B2M	53	60	3503.69	+	site "TTTGCTTT"
chr12_101834932_101835206_274+_PAH	223	230	1753.07	+	site "TTTTCTTT"
chr4_72826202_72826552_350+_GC	236	243	854.032	+	site "TTATGTTA"
chr4_72826202_72826552_350+_GC	398	405	740.262	+	site "TTTGTTTA"
chr9_123943429_123943627_198+_NDUFA8	228	235	1030.01	+	site "TTTTCTTT"
chr1_220969371_220969569_198+_C1orf58	266	273	1098.42	+	site "TTTTCATA"
chr1_220969371_220969569_198+_C1orf58	295	302	2265.73	-	site "TATGCTTT"
chr2_132729465_132730038_573+_---	210	217	1843.53	+	site "TTATGTTT"
chr20_57005100_57005306_206+_CTSZ	235	242	749.407	+	site "TTTTCACTT"

chr7_94954939_94955137_198_+_ASB4	21	28	1279.78	+	site "TTAGCTTT"
chr7_94954939_94955137_198_+_ASB4	362	369	977.448	-	site "TTTGGATT"
chr3_64632645_64632843_198_+_ADAMTS9	367	374	1078.06	+	site "TTTTGTTA"
chr3_64632645_64632843_198_+_ADAMTS9	256	263	1508.43	-	site "TTTTGTTA"
chr3_352253_352451_198_+_CHL1	94	101	1281.5	+	site "TTTTCTTT"
chr6_62342258_62342541_283_+_---	400	407	2732.74	+	site "TATGCTTT"
chr6_62342258_62342541_283_+_---	371	378	1386.11	+	site "TTTTGTTT"
chr6_62342258_62342541_283_+_---	252	259	1074.91	-	site "TATGCTTT"
chr6_160495774_160496006_232_+_SLC22A1	72	79	1076.1	+	site "TATGCTTT"
chr10_51259966_51260650_684_+_NCOA4	651	658	1327.51	+	site "TTTTCTTA"
chr10_51259966_51260650_684_+_NCOA4	545	552	1129.04	+	site "TTTGGTTA"
chr15_58426876_58427104_228_+_ANXA2	219	226	494.444	+	site "TTATGATT"
chr15_58426876_58427104_228_+_ANXA2	208	215	985.194	-	site "TATTGATT"
chr19_15086891_15087157_266_+_ILVBL	344	351	602.043	+	site "TTATCATA"
chr19_15086891_15087157_266_+_ILVBL	382	389	673.55	-	site "TATTGATA"
chr7_6030010_6030445_435_+_EIF2AK1	300	307	928.347	+	site "TTAGCTTA"
chr7_6030010_6030445_435_+_EIF2AK1	228	235	1552.6	-	site "TTTGCTTT"
chr7_6030010_6030445_435_+_EIF2AK1	260	267	1278.98	-	site "TTTGCATA"
chr12_45040732_45041354_622_+_SLC38A2	234	241	1143.6	+	site "TATGCATT"
chr12_45040732_45041354_622_+_SLC38A2	351	358	863.897	-	site "TTAGGTTA"
chr3_48420316_48420563_247_+_PLXNB1	345	352	2445.66	+	site "TTTTCTTT"
chr3_48420316_48420563_247_+_PLXNB1	434	441	1814.28	-	site "TATGCTTT"
chr22_40854065_40854370_305_+_CYP2D6	1	8	3254.12	+	site "TTTTCTTA"
chr22_40854065_40854370_305_+_CYP2D6	315	322	1392.75	+	site "TTATGTTT"
chr22_40854065_40854370_305_+_CYP2D6	336	343	1938.05	-	site "TATTCTTT"
chr3_41256799_41256997_198_+_CTNNB1	203	210	1315.22	+	site "TTAGGTTA"
chr3_41256799_41256997_198_+_CTNNB1	339	346	657.024	-	site "TATGCTTT"
chr7_45923300_45923620_320_+_IGFBP3	95	102	1527.65	+	site "TTTTCTTT"
chr11_2355268_2355495_227_+_CD81	298	305	624.854	+	site "TTATCATT"

chr7_99098654_99099174_520+_CYP3A5	11	18	1796.43	+	site "TTTTGTTT"
chr7_99098654_99099174_520+_CYP3A5	80	87	940.43	-	site "TTTTGTTT"
chr21_34811321_34811593_272+_DSCR1	230	237	1106.72	+	site "TATGCATT"
chr7_148333128_148333421_293+_PDIA4	97	104	1276.64	+	site "TATTCATT"
chr7_148333128_148333421_293+_PDIA4	340	347	1601.54	-	site "TTTTGTTT"
chr7_148333128_148333421_293+_PDIA4	310	317	1231.42	-	site "TTTTCTTT"
chr7_148333128_148333421_293+_PDIA4	185	192	995.509	-	site "TATGGTTA"
chr7_148333128_148333421_293+_PDIA4	247	254	696.506	-	site "TATGGATT"
chr22_36294777_36295348_571+_CDC42EP1	178	185	2000.24	+	site "TTATCTTT"
chr22_36294777_36295348_571+_CDC42EP1	639	646	1710.02	-	site "TTTTCTTT"
chr7_47281500_47281698_198+_TNS3	136	143	810.431	+	site "TTTGCATT"
chr6_43857656_43857852_196+_VEGFA	25	32	1279.78	+	site "TTAGCTTT"
chr12_90076262_90076492_230+_DCN	402	409	471.202	+	site "TAAGGTTT"
chr10_7787025_7787250_225+_ITIH2	256	263	611.108	+	site "TTATGTTA"
chr10_7787025_7787250_225+_ITIH2	388	395	1796.43	-	site "TTTTGTTT"
chr3_52811684_52811913_229+_ITIH3	417	424	1697.73	+	site "TTTTGTTT"
chr10_85902155_85902795_640+_GHITM	36	43	1183.16	+	site "TTAGGATT"
chr10_85902155_85902795_640+_GHITM	675	682	1869.2	-	site "TTTTCTTT"
chr10_85902155_85902795_640+_GHITM	5	12	1339.41	-	site "TTAGCATT"
chr1_149207967_149208243_276+_LASS2	281	288	1620.65	+	site "TTTTCATT"
chr1_149207967_149208243_276+_LASS2	54	61	1552.6	-	site "TTTGCTTT"
chr17_17366299_17366506_207+_PEMT	391	398	466.171	+	site "TATGCATT"
chr15_39360609_39360828_219+_CHP	113	120	931.455	+	site "TTTTGTTT"
chr5_34024112_34024451_339+_AMACR	207	214	1349.03	+	site "TATTCCTT"
chr5_34024112_34024451_339+_AMACR	506	513	1840.38	-	site "TTTTCTTA"
chr20_36435919_36436138_219+_LBP	302	309	2039.08	+	site "TTTGCATA"
chr20_36435919_36436138_219+_LBP	198	205	1615.73	-	site "TTTGCTTT"
chr13_113011889_113012103_214+_LAMP1	110	117	708.731	+	site "TATTCATT"
chr13_113011889_113012103_214+_LAMP1	353	360	855.909	-	site "TTTTGTTT"

chr5_41015544_41015817_273_+_C7	207	214	590.836	+	site "TTTTGATA"
chr15_56246162_56246356_194_+_AQP9	310	317	937.854	+	site "TTATGTTT"
chr15_56246162_56246356_194_+_AQP9	232	239	1519.47	-	site "TTTTCATA"
chr5_176696720_176696939_219_+_LMAN2	203	210	1362.4	+	site "TTTTGTTT"
chr1_244994118_244994333_215_+_SCCPDH	85	92	1628.13	+	site "TTTTCATT"
chr1_244994118_244994333_215_+_SCCPDH	213	220	1196.19	-	site "TTTTGTTT"
chr2_201186752_201187014_262_+_AOX1	34	41	2254.6	+	site "TATGCTTT"
chr2_201186752_201187014_262_+_AOX1	200	207	1426.04	+	site "TATTCTTA"
chr2_201186752_201187014_262_+_AOX1	97	104	1087.14	+	site "TTAGCATT"
chr2_201186752_201187014_262_+_AOX1	88	95	1065.84	-	site "TATTCAATT"
chr1_144152645_144153131_486_+_TXNIP	211	218	1368.12	+	site "TTTTGTTT"
chr20_34673853_34674126_273_+_C20orf24	45	52	509.497	+	site "TAAGCTTA"
chr20_34673853_34674126_273_+_C20orf24	45	52	482.011	-	site "TAAGCTTA"
chr17_38203373_38203570_197_+_CCDC56	162	169	644.997	+	site "TTATGTTA"
chr17_38203373_38203570_197_+_CCDC56	169	176	1520.47	-	site "TTTTGTTT"
chr6_131936043_131936257_214_+_ARG1	37	44	1196.19	+	site "TTTTGTTT"
chr6_131936043_131936257_214_+_ARG1	109	116	1557.96	-	site "TTATCTTT"
chr15_88141770_88142022_252_+_ANPEP	344	351	943.412	+	site "TTATGTTA"
chr1_167759040_167759273_233_+_F5	215	222	1427.82	+	site "TTATGTTT"
chr10_7884216_7884437_221_+_ATP5C1	317	324	858.158	+	site "TATTCTTT"
chr10_7884216_7884437_221_+_ATP5C1	386	393	1106.98	-	site "TATTGTTT"
chr2_237045674_237045872_198_+_IQCA	5	12	827.375	+	site "TTTGCATA"
chr17_31195896_31196169_273_+_TAF15	80	87	1250.28	+	site "TTTTGATT"
chr14_23757137_23757333_196_+_NEDD8	388	395	2024.44	+	site "TTTTCTTT"
chr15_78252351_78252536_185_+_FAH	36	43	3930.56	+	site "TTTTCTTT"
chr3_101556660_101556902_242_+_NIT2	276	283	852.193	+	site "TTATGATA"
chr4_77299060_77299293_233_+_SCARB2	316	323	2468.06	+	site "TTATCTTA"
chr1_63873066_63873330_264_+_PGM1	110	117	1074.61	+	site "TATGGTTA"
chr1_63873066_63873330_264_+_PGM1	271	278	865.716	-	site "TTTTGATT"

chr11_67136406_67136675_269_+_NDUFV1	232	239	1787.58	+	site "TTTGGATT"
chr7_94826917_94827164_247_+_PON3	46	53	1060.07	+	site "TTTTCAATT"
chr7_94826917_94827164_247_+_PON3	58	65	882.515	-	site "TTTTGTTT"
chr8_145223895_145224104_209_+_CYC1	339	346	1233.33	+	site "TTTTGTTT"
chr8_145223895_145224104_209_+_CYC1	319	326	1289.97	-	site "TTTTGATA"
chr17_15042853_15043051_198_+_PMP22	108	115	1461.8	+	site "TTTTGTTA"
chr17_15042853_15043051_198_+_PMP22	392	399	1412.19	+	site "TTTTCAATT"
chr17_15042853_15043051_198_+_PMP22	58	65	1120.17	+	site "TTTTCTTT"
chr17_15042853_15043051_198_+_PMP22	215	222	747.023	+	site "TTATCATA"
chr17_15042853_15043051_198_+_PMP22	98	105	430.79	+	site "TAGGATT"
chr17_15042853_15043051_198_+_PMP22	85	92	1387.59	-	site "TTTGGATT"
chr12_48441704_48441903_199_+_TEGT	15	22	1606.76	+	site "TATTGTTT"
chr12_48441704_48441903_199_+_TEGT	389	396	918.001	+	site "TTTGCATT"
chr12_48441704_48441903_199_+_TEGT	268	275	1076.9	-	site "TTTTCTTA"
chr3_187943316_187943533_217_+_KNG1	48	55	907.953	+	site "TTTTCAATT"
chr3_187943316_187943533_217_+_KNG1	314	321	3083.54	-	site "TTTGCTTT"
chr3_187943316_187943533_217_+_KNG1	219	226	1663.72	-	site "TATTCTTA"
chr14_22127736_22127945_209_+_DAD1	74	81	998.955	+	site "TTTTCTTT"
chr14_22127736_22127945_209_+_DAD1	66	73	900.246	+	site "TTATGTTT"
chr12_86185322_86185520_198_+_---	122	129	1368.12	+	site "TTTTGTTT"
chr12_86185322_86185520_198_+_---	279	286	869.814	-	site "TATTCTTT"
chr11_58479182_58479386_204_+_GLYATL1	287	294	1064.96	+	site "TTATGTTA"
chr7_99196431_99196630_199_+_CYP3A4	225	232	2534.11	+	site "TTTTCTTA"
chrX_46835991_46836223_232_+_RGN	406	413	3322.46	+	site "TATGCTTT"
chrX_46835991_46836223_232_+_RGN	206	213	2422.68	+	site "TTTTGTTT"
chrX_46835991_46836223_232_+_RGN	213	220	1535.65	-	site "TTTTGTTA"
chr5_41212284_41212600_316_+_C6	18	25	2350.68	+	site "TTTTCTTT"
chr5_41212284_41212600_316_+_C6	419	426	779.411	+	site "TTTTGTTA"
chr2_219355211_219355414_203_+_CYP27A1	135	142	1321.47	+	site "TTTTCAATT"

chr2_219355211_219355414_203_+_CYP27A1	215	222	1427.82	-	site "TTATGTTT"
chr3_52299978_52300231_253_+_GLYCTK	302	309	1287.7	+	site "TTTGCATT"
chr3_52299978_52300231_253_+_GLYCTK	175	182	1710.02	-	site "TTTTCTTT"
chr7_99098352_99098598_246_+_CYP3A5	313	320	1796.43	+	site "TTTTGTTT"
chr7_99098352_99098598_246_+_CYP3A5	382	389	940.43	-	site "TTTTGTTT"
chr16_20338058_20338283_225_+_FLJ20581	162	169	739.673	+	site "TATGCATT"
chr2_232033630_232033818_188_+_NCL	316	323	1345.5	+	site "TTTGGATT"
chr2_232033630_232033818_188_+_NCL	223	230	942.553	-	site "TATGCATA"
chr20_1297615_1297814_199_+_FKBP1A	379	386	1491.41	+	site "TTTTGATA"
chr16_65523449_65523767_318_+_FAM96B	197	204	1090.81	+	site "TATTGATT"
chr16_65523449_65523767_318_+_FAM96B	412	419	1394.79	-	site "TTTGCTTA"
chr2_42869130_42869331_201_+_HAAO	363	370	241.323	+	site "TAATCATT"
chr2_42869130_42869331_201_+_HAAO	285	292	1766.12	-	site "TTTGGTTT"
chr1_20850091_20850447_356_+_PINK1	47	54	1546.23	+	site "TTTTCATT"
chr11_102784395_102784593_198_+_---	337	344	1058.07	+	site "TATTCATT"
chr11_102784395_102784593_198_+_---	377	384	978.769	+	site "TTTTCATA"
chr3_123605748_123605946_198_+_C3orf28	280	287	2009.36	+	site "TTTTGATT"
chr3_123605748_123605946_198_+_C3orf28	211	218	1986.26	+	site "TTTGCTTT"
chr3_123605748_123605946_198_+_C3orf28	137	144	1753.07	+	site "TTTTCTTT"
chr3_123605748_123605946_198_+_C3orf28	221	228	1702.88	+	site "TTTGCATT"
chr3_123605748_123605946_198_+_C3orf28	9	16	1562.88	-	site "TATTCTTT"
chr9_33020478_33020686_208_+_DNAJA1	367	374	405.786	+	site "TTAGCATA"
chr9_33020478_33020686_208_+_DNAJA1	349	356	1750.84	-	site "TTTTGTTT"
chr2_26349946_26350182_236_+_HADHB	313	320	1250.28	+	site "TTTTGATT"
chr2_26349946_26350182_236_+_HADHB	350	357	1373.48	-	site "TTAGCTTA"
chr17_46295716_46296201_485_+_TOB1	52	59	1743.44	+	site "TTATGTTA"
chr17_46295716_46296201_485_+_TOB1	533	540	1981.47	-	site "TTTTCTTT"
chr17_46295716_46296201_485_+_TOB1	365	372	1366.6	-	site "TTTGCATT"
chr4_129410692_129410966_274_+_PGRMC2	228	235	2209.76	+	site "TTATCTTT"

chr7_100063643_100063914_271_+_TFR2	365	372	1382.68	+	site "TATTGTTT"
chr1_150045372_150045553_181_+_RORC	343	350	916.75	+	site "TTTTGTTT"
chr1_150045372_150045553_181_+_RORC	72	79	549.435	-	site "TAAGCTTT"
chr22_29141720_29141923_203_+_SEC14L2	91	98	1239.87	+	site "TTTTGATA"
chr22_29141720_29141923_203_+_SEC14L2	314	321	1060.07	-	site "TTTTCATT"
chr19_41087114_41087338_224_+_TYROBP	74	81	2206.15	+	site "TTTTGTTA"
chr17_38314817_38315031_214_+_G6PC	276	283	826.351	+	site "TTTTCATT"
chr2_13837382_13837599_217_+_---	64	71	515.855	+	site "TATGGATA"
chr1_53146072_53146276_204_+_ECHDC2	253	260	1454.3	+	site "TTTGCTTA"
chr1_53146072_53146276_204_+_ECHDC2	144	151	1143.91	-	site "TATTCATA"
chr2_55052849_55053334_485_+_RTN4	570	577	2957	+	site "TTTGCTTT"
chr2_55052849_55053334_485_+_RTN4	630	637	1600.75	+	site "TTTTGATA"
chr2_55052849_55053334_485_+_RTN4	500	507	2237.43	-	site "TTTGCTTT"
chr8_57149505_57149702_197_+_RPS20	52	59	965.795	+	site "TATGGTTT"
chr11_33687586_33687862_276_+_CD59	428	435	1366.36	+	site "TTTTGATT"
chr4_157058720_157058912_192_+_TDO2	140	147	856.158	+	site "TTAGCATT"
chr3_137531378_137531692_314_+_PCCB	475	482	1514.13	+	site "TTTTGATT"
chr13_99013274_99013600_326_+_TM9SF2	190	197	1097.6	+	site "TTTTCTTT"
chr2_155553141_155553339_198_+_---	284	291	2004.83	+	site "TTTGCTTT"
chr2_155553141_155553339_198_+_---	381	388	2854.39	-	site "TTTGCTTT"
chr2_155553141_155553339_198_+_---	227	234	1254.95	-	site "TATGCATT"
chr16_1928456_1928912_456_+_SEPX1	224	231	1673.75	+	site "TTTGCTTA"
chr20_17542294_17542901_607_+_RRBP1	220	227	3319.11	+	site "TTTGCTTT"
chr4_155730493_155730908_415_+_FGA	293	300	1744.02	+	site "TTAGCTTA"
chr3_10143341_10143609_268_+_C3orf10	233	240	1310.4	+	site "TTTGATA"
chr2_201185638_201185814_176_+_AOX1	173	180	2244.47	+	site "TTTTCTTT"
chr2_201185638_201185814_176_+_AOX1	63	70	1218.96	-	site "TATTCTTT"
chr11_65023462_65024175_713_+_SCYL1	606	613	1905.92	+	site "TTTTCTTA"
chr11_65023462_65024175_713_+_SCYL1	276	283	1869.2	+	site "TTTTCTTT"

chr11_65023462_65024175_713+_SCYL1	258	265	1767.96	+	site "TTTTCTTT"
chr11_65023462_65024175_713+_SCYL1	211	218	1740.62	+	site "TTATCTTT"
chr21_39112260_39112488_228+_ETS2	49	56	948.687	+	site "TTAGGTTT"
chr8_12985455_12985673_218+_DLC1	85	92	1816.71	+	site "TTTTGATT"
chr8_12985455_12985673_218+_DLC1	150	157	1018.65	-	site "TTTTCATT"
chr14_22310480_22310750_270+_OXA1L	91	98	1700.98	+	site "TATGCTTT"
chr14_22310480_22310750_270+_OXA1L	188	195	1543.29	+	site "TATTCTTT"
chr14_22310480_22310750_270+_OXA1L	143	150	1098.42	+	site "TTTTCATA"
chr14_22310480_22310750_270+_OXA1L	258	265	918.001	-	site "TTTGCATT"
chr9_122778780_122779064_284+_C5	245	252	694.879	+	site "TATTGTTT"
chr1_63867653_63867859_206+_PGM1	115	122	1716.51	+	site "TATTCTTT"
chr1_63867653_63867859_206+_PGM1	360	367	998.955	+	site "TTTTCTTT"
chr1_63867653_63867859_206+_PGM1	278	285	552.784	-	site "TAAGCTTA"
chr2_54748933_54749113_180+_SPTBN1	169	176	730.082	+	site "TTTGGATA"
chrX_43513443_43513667_224+_MAOB	158	165	2121.79	+	site "TTTTCTTA"
chrX_43513443_43513667_224+_MAOB	45	52	1078.06	-	site "TTTTGTTA"
chr10_43202735_43203094_359+_HNRPF	63	70	1543.98	+	site "TTTTGTTA"
chr14_93819833_93820307_474+_SERPINA10	635	642	1442.48	+	site "TTATGTTT"
chr14_93819833_93820307_474+_SERPINA10	565	572	793.081	-	site "TTTTGATT"
chr20_32764606_32764864_258+_TP53INP2	374	381	780.321	+	site "TATTGATA"
chr20_32764606_32764864_258+_TP53INP2	365	372	2198.87	-	site "TTTGCTTA"
chr15_99814210_99814408_198+_PCSK6	299	306	604.56	+	site "TATTCATA"
chr15_99814210_99814408_198+_PCSK6	104	111	1686.37	-	site "TTTTGTTT"
chr4_48601215_48601413_198+_OCIAD2	16	23	1153.45	+	site "TTTTCTTA"
chr4_48601215_48601413_198+_OCIAD2	117	124	944.324	-	site "TTATCATA"
chr6_49507377_49507604_227+_MUT	383	390	3048.22	+	site "TTTTCTTA"
chr6_49507377_49507604_227+_MUT	412	419	1447.57	-	site "TTTTCTTA"
chr20_56917551_56917750_199+_GNAS	305	312	848.877	+	site "TTTTCATT"
chr3_127358884_127359113_229+_ALDH1L1	365	372	1069.96	+	site "TTTTCTTT"

chr14_69333251_69333466_215_+_SLC10A1	304	311	1072.85	+	site "TTTGCATA"
chr9_33026529_33026719_190_+_DNAJA1	31	38	2419.61	+	site "TTTTCTTA"
chr7_99095993_99096247_254_+_CYP3A5	220	227	1680.76	+	site "TTATCTTT"
chr16_29890206_29890457_251_+_LOC124446	436	443	1097.6	+	site "TTTTCTTT"
chr8_87424333_87424531_198_+_WWP1	390	397	1981.47	+	site "TTTTCTTT"
chr8_87424333_87424531_198_+_WWP1	87	94	1030.01	-	site "TTTTCTTT"
chr11_57130373_57130695_322_+_SERPING1	509	516	1845.26	+	site "TTAGCATT"
chr11_57130373_57130695_322_+_SERPING1	151	158	1174.26	+	site "TATTGTTT"
chr11_57130373_57130695_322_+_SERPING1	130	137	254.98	-	site "TAATCATT"
chr7_150129497_150129808_311_+_TMEM176A	458	465	644.199	+	site "TATGGTTA"
chr21_26174988_26175362_374_+_APP	359	366	905.939	+	site "TTTTCTTT"
chr21_26174988_26175362_374_+_APP	341	348	896.383	+	site "TTTGGTTT"
chr21_26174988_26175362_374_+_APP	317	324	1428.43	-	site "TTTGCATT"
chr2_234334037_234334522_485_+_UGT1A1	202	209	941.372	+	site "TATTCTTT"
chr9_5087592_5087815_223_+_JAK2	385	392	1153.45	+	site "TTTTCTTA"
chr9_5087592_5087815_223_+_JAK2	84	91	1106.26	-	site "TTTTCTTA"
chr3_58489559_58489790_231_+_ACOX2	124	131	2643.52	+	site "TTTGCTTT"
chr3_58489559_58489790_231_+_ACOX2	300	307	675.424	-	site "TTTTCATA"
chr3_49371648_49371852_204_+_RHOA	282	289	1094.13	+	site "TATTGTTT"
chr5_41194959_41195147_188_+_C6	5	12	1457.12	+	site "TTTTCATA"
chr1_218150399_218150787_388_+_SLC30A10	554	561	736.38	+	site "TTTTGATA"
chr4_74570340_74570710_370_+_AFM	485	492	2157.08	+	site "TTTTCTTT"
chr4_74570340_74570710_370_+_AFM	421	428	752.626	-	site "TTTGCATA"
chr7_43872886_43873081_195_+_MRPS24	225	232	1581.58	+	site "TTTGCATT"
chr2_102161931_102162405_474_+_IL1R1	7	14	3231.3	+	site "TTTGCTTA"
chr7_94829946_94830154_208_+_PON3	52	59	1098.37	+	site "TTTTCTTT"
chr7_94829946_94830154_208_+_PON3	85	92	1288.46	-	site "TATTCTTT"
chr2_189584637_189584915_278_+_COL3A1	370	377	2777.46	+	site "TTTGCTTA"
chr2_189584637_189584915_278_+_COL3A1	205	212	2537.24	+	site "TTTGGTTT"

chr2_189584637_189584915_278+_COL3A1	222	229	1848.2	+	site "TTTTGTTT"
chr9_103172990_103173203_213+_BAAT	364	371	2904	+	site "TTATCTTA"
chr9_103172990_103173203_213+_BAAT	370	377	1819.42	-	site "TTTTCATATA"
chr9_103172990_103173203_213+_BAAT	213	220	1349.79	-	site "TTTTGTTT"
chr1_57093085_57093284_199+_C8A	358	365	2562.86	+	site "TTTTCTTA"
chr1_57093085_57093284_199+_C8A	336	343	2095.46	+	site "TTTTGTTT"
chr1_57093085_57093284_199+_C8A	303	310	1233.33	+	site "TTTTGTTT"
chr1_57093085_57093284_199+_C8A	206	213	857.739	-	site "TATGCATA"
chr7_134651450_134651648_198+_CNOT4	169	176	740.839	+	site "TAAGCTTT"
chr12_82082705_82082903_198+_TMTC2	116	123	461.407	+	site "TAATCATATA"
chr12_82082705_82082903_198+_TMTC2	339	346	718.892	-	site "TTTGCATA"
chr12_82082705_82082903_198+_TMTC2	117	124	562.783	-	site "TTATGATT"
chr1_110367489_110367809_320+_AHCYL1	319	326	899.529	+	site "TATTCATA"
chr12_91063265_91063479_214+_BTG1	73	80	1190.74	+	site "TTTTCATTT"
chr15_88434707_88434911_204+_IDH2	1	8	2700.34	+	site "TTTGCATT"
chr5_78329572_78329866_294+_DMGDH	379	386	1349.03	+	site "TTTGCTTT"
chr5_78329572_78329866_294+_DMGDH	411	418	2098.05	-	site "TTTGCATT"
chr5_78329572_78329866_294+_DMGDH	317	324	1150.51	-	site "TTTTGTTT"
chr6_38751984_38752236_252+_GLO1	215	222	2422.68	+	site "TTTTGTTT"
chr2_160334549_160334963_414+_CD302	360	367	1821.51	+	site "TATTGTTT"
chr2_160334549_160334963_414+_CD302	492	499	1383.88	-	site "TTTGCTTT"
chr19_15849991_15850246_255+_CYP4F2	200	207	1575.37	+	site "TTTTCTTT"
chr19_15849991_15850246_255+_CYP4F2	72	79	1520.62	+	site "TATTGATT"
chr10_124805990_124806198_208+_ACADSB	364	371	388.638	+	site "TAATCATATA"
chr10_124805990_124806198_208+_ACADSB	359	366	788.985	-	site "TTAGGATT"
chr11_120074948_120075146_198+_GRIK4	186	193	1768.74	+	site "TTTGCATA"
chr2_232031945_232032138_193+_NCL	139	146	2257.88	+	site "TTATCTTA"
chr3_101950045_101950409_364+_TFG	22	29	1782.88	+	site "TTTGATA"
chr12_13019219_13019748_529+_HEBP1	600	607	1317.62	+	site "TTATGTTT"

chr12_13019219_13019748_529_+_HEBP1	498	505	1903.57	-	site "TTTTCTTT"
chr10_131447471_131447669_198_+_MGMT	328	335	1493.28	+	site "TATTGTTT"
chr10_131447471_131447669_198_+_MGMT	247	254	1875.63	-	site "TTTGCATT"
chr3_172196568_172196837_269_+_SLC2A2	320	327	896.383	+	site "TTTGTTT"
chr3_172196568_172196837_269_+_SLC2A2	254	261	776.213	-	site "TTTTGTTT"
chr9_115189879_115190118_239_+_ALAD	282	289	496.867	+	site "TATTGTTT"
chr17_34172126_34172351_225_+_PSMB3	177	184	1368.12	+	site "TTTTGTTT"
chr1_159459683_159460126_443_+_APOA2	606	613	879.263	+	site "TAATCTTT"
chr1_159459683_159460126_443_+_APOA2	265	272	1600.75	-	site "TTTTGATA"
chr5_115168476_115168944_468_+_CDO1	602	609	1575.37	+	site "TTTTCTTT"
chr5_115168476_115168944_468_+_CDO1	429	436	1332.84	+	site "TTAGGTTT"
chr5_115168476_115168944_468_+_CDO1	615	622	1796.43	-	site "TTTTGTTT"
chr5_115168476_115168944_468_+_CDO1	334	341	1672.03	-	site "TTATCTTA"
chr6_7826775_7827395_620_+_TXNDC5	223	230	1917.95	+	site "TTTTCTTT"
chr6_7826775_7827395_620_+_TXNDC5	101	108	2177.75	-	site "TTTTGATT"
chr9_122764712_122764948_236_+_C5	177	184	478.054	+	site "TATTGTTA"
chr10_135194971_135195390_419_+_CYP2E1	442	449	1613.54	+	site "TTATGTTT"
chr10_135194971_135195390_419_+_CYP2E1	488	495	1110.38	-	site "TTTTCTTA"
chr2_201239588_201239814_226_+_AOX1	156	163	1796.43	+	site "TTTTGTTT"
chr2_201239588_201239814_226_+_AOX1	14	21	2345.48	-	site "TTTTGATT"
chr4_155745384_155745846_462_+_FGG	453	460	2591.78	+	site "TTATCTTT"
chr19_6664931_6665240_309_+_C3	34	41	2817.85	+	site "TTTTCTTT"
chr8_21500285_21500463_178_+_---	40	47	1428.43	+	site "TTTGCATT"
chr14_23642144_23642381_237_+_PCK2	37	44	1129.04	+	site "TTTGTTTA"
chr14_23642144_23642381_237_+_PCK2	90	97	2391.87	-	site "TTAGCTTT"
chr1_8846464_8846762_298_+_ENO1	471	478	1814.28	+	site "TATGCTTT"
chr5_180597644_180597922_278_+_GNB2L1	331	338	1198.85	+	site "TTAGCTTA"
chr22_40853385_40853968_583_+_CYP2D6	681	688	1722.14	+	site "TTTTCTTA"
chr22_40853385_40853968_583_+_CYP2D6	577	584	1604.7	-	site "TATTCTTT"

chr14_93915464_93915812_348+_SERPINA1	154	161	2206.15	+	site "TTTTGTTA"
chr14_93915464_93915812_348+_SERPINA1	432	439	1011.62	-	site "TTTTGATA"
chr1_22846730_22847199_469+_C1QC	567	574	1089.48	+	site "TTAGGATT"
chr22_31588645_31588923_278+_TIMP3	256	263	2320.38	+	site "TTTGCTTA"
chr22_31588645_31588923_278+_TIMP3	53	60	1628.13	-	site "TTTTCAATT"
chr1_61168586_61168785_199+_---	147	154	1522.37	+	site "TATGCTTA"
chr2_215934857_215935146_289+_FN1	154	161	1417.82	+	site "TATTGATT"
chr2_215934857_215935146_289+_FN1	123	130	636.33	-	site "TATTGATT"
chr14_93819505_93819772_267+_SERPINA10	114	121	2693.8	+	site "TTATCTTT"
chr1_23893684_23893929_245+_RPL11	250	257	2255.54	+	site "TTTTGTTT"
chr2_215948125_215948445_320+_FN1	311	318	2177.65	+	site "TTTTCAATT"
chr2_215948125_215948445_320+_FN1	486	493	1990.97	-	site "TTAGCTTT"
chr2_215948125_215948445_320+_FN1	255	262	1308.9	-	site "TTTTGTTT"
chr3_38142600_38142946_346+_ACAA1	364	371	1840.38	+	site "TTTTCTTA"
chr3_38142600_38142946_346+_ACAA1	106	113	756.193	+	site "TATTCATT"
chr9_122754769_122755043_274+_C5	216	223	962.952	+	site "TTAGGTTA"
chr7_99205605_99205881_276+_CYP3A4	6	13	1537	+	site "TTTGATT"
chr11_34434101_34434378_277+_CAT	276	283	1353.31	+	site "TTATGATT"
chr17_61650193_61650463_270+_APOH	341	348	883.399	+	site "TATTCTTT"
chr16_13019961_13020179_218+_---	405	412	2362.22	+	site "TTTGCTTT"
chr1_120096625_120096919_294+_HMGCS2	431	438	1929.67	+	site "TTTGCAATT"
chr4_74583645_74583835_190+_AFM	215	222	1528.94	+	site "TTTTCTTT"
chr4_74583645_74583835_190+_AFM	9	16	840.08	-	site "TATGCAATT"
chr5_40870315_40870569_254+_RPL37	120	127	1464.75	+	site "TTTGATT"
chr5_40870315_40870569_254+_RPL37	391	398	1306.98	+	site "TTATCTTA"
chr17_30502173_30502554_381+_UNC45B	378	385	1315.35	+	site "TTTTCAATT"
chr8_36254826_36255046_220+_---	126	133	2257.88	+	site "TTATCTTA"
chr8_36254826_36255046_220+_---	186	193	1551.01	-	site "TTATCTTT"
chr3_196986398_196986596_198+_MUC4	344	351	443.578	+	site "TAATCAATT"

chr12_6749771_6750368_597_+_PTMS	112	119	1587.5	+	site "TTTGCATT"
chr11_107517485_107517713_228_+_ACAT1	147	154	1105.89	+	site "TTTTGATA"
chr11_107517485_107517713_228_+_ACAT1	155	162	218.999	-	site "TAATGTTA"
chrX_17044551_17044767_216_+_REPS2	407	414	949.119	+	site "TTTTCATATA"
chrX_17044551_17044767_216_+_REPS2	3	10	779.411	-	site "TTTTGTTA"
chr14_93916871_93917341_470_+_SERPINA1	408	415	1545.99	+	site "TTTTGTTA"
chrX_96360865_96361063_198_+_DIAPH2	390	397	928.362	+	site "TTTGCATA"
chrX_96360865_96361063_198_+_DIAPH2	335	342	882.177	+	site "TTTGGATA"
chrX_96360865_96361063_198_+_DIAPH2	279	286	2043.45	-	site "TTTTCTTT"
chrX_96360865_96361063_198_+_DIAPH2	49	56	706.838	-	site "TTTTGTTA"
chr6_63351818_63352016_198_+_---	382	389	1758.69	+	site "TTATCTTT"
chr6_63351818_63352016_198_+_---	12	19	471.202	-	site "TAAGGTTT"
chr11_34434752_34434984_232_+_CAT	96	103	1112.07	+	site "TTAGCTTT"
chr21_31953819_31954102_283_+_SOD1	413	420	1605.27	+	site "TTTTGTTT"
chr21_31953819_31954102_283_+_SOD1	247	254	779.411	+	site "TTTTGTTA"
chr11_10486619_10486823_204_+_AMPD3	188	195	1829.87	+	site "TTTTGTTA"
chr21_46394396_46394632_236_+_FTCD	351	358	1573.06	+	site "TTTGGTTT"
chr1_228908215_228908658_443_+_AGT	504	511	1702.88	+	site "TTTGCATT"
chr1_228908215_228908658_443_+_AGT	100	107	1133.79	+	site "TATTGTTT"
chr1_228908215_228908658_443_+_AGT	32	39	2612.88	-	site "TTATCTTA"
chr4_157050578_157050800_222_+_TDO2	404	411	1384.86	+	site "TTATCATT"
chr20_13095877_13096108_231_+_---	229	236	428.519	+	site "TAATCTTA"
chr20_13095877_13096108_231_+_---	121	128	1734.4	-	site "TTTTCATT"
chr17_9138086_9138284_198_+_STX8	93	100	767.862	+	site "TTATGATA"
chr17_9138086_9138284_198_+_STX8	94	101	483.895	-	site "TTATCATATA"
chr10_71022232_71022430_198_+_NEUROG3	4	11	1444.64	+	site "TTTGGTTA"
chr10_71022232_71022430_198_+_NEUROG3	145	152	1312.81	+	site "TTTGGATT"
chr3_102241705_102241903_198_+_ABI3BP	248	255	1308.9	+	site "TTTTGTTT"
chr8_88541516_88541714_198_+_---	320	327	2445.66	+	site "TTTTCTTT"

chr8_88541516_88541714_198_+---	372	379	555.008	+	site "TTAGCATT"
chr12_101761490_101761747_257_+_PAH	127	134	644.277	+	site "TTATCATT"
chr12_120779561_120779790_229_+_HPD	387	394	2853.83	+	site "TTTGCTTT"
chr12_120779561_120779790_229_+_HPD	43	50	422.879	-	site "TAATCTTT"
chr15_95319012_95319210_198_+---	58	65	1320.87	+	site "TTTTCATT"
chr6_161059661_161059949_288_+_PLG	365	372	2019.7	+	site "TATTCTTT"
chr22_40852475_40852701_226_+_CYP2D6	346	353	2096.67	+	site "TTTTCTTT"
chr1_57181917_57182121_204_+_C8B	370	377	1928.86	+	site "TTATCTTT"
chr19_34686826_34687024_198_+---	85	92	1410.24	+	site "TATTCATT"
chr19_34686826_34687024_198_+---	27	34	1217.22	-	site "TTTTCATA"
chr13_95142901_95143099_198_+_DNAJC3	18	25	2229.08	+	site "TTTGCTTT"
chr13_95142901_95143099_198_+_DNAJC3	112	119	804	-	site "TTAGCTTT"
chr19_15440398_15440663_265_+_PGLYRP2	343	350	642.409	+	site "TATTGTTA"
chr19_15440398_15440663_265_+_PGLYRP2	363	370	1742.11	-	site "TTTGCTTT"
chr13_47733210_47733526_316_+_ITM2B	160	167	668.597	+	site "TTATGTTT"
chr13_47733210_47733526_316_+_ITM2B	481	488	711.867	-	site "TATTGATT"
chr4_57670815_57670995_180_+_IGFBP7	47	54	1938.4	+	site "TTATCTTT"
chr4_57670815_57670995_180_+_IGFBP7	109	116	1873.56	+	site "TTTTCTTT"
chr3_150676270_150676468_198_+_TM4SF4	212	219	3050.69	+	site "TTTGCTTA"
chr4_29681935_29682133_198_+---	245	252	808.856	+	site "TATGCATT"
chr4_29681935_29682133_198_+---	19	26	3083.54	-	site "TTTGCTTT"
chr4_29681935_29682133_198_+---	261	268	2152.42	-	site "TTTGCTTT"
chr4_29681935_29682133_198_+---	35	42	1412.33	-	site "TTTGCTTT"
chr3_127360053_127360250_197_+_ALDH1L1	124	131	668.597	+	site "TTATGTTT"
chr22_23239269_23239524_255_+_UPB1	45	52	1022.69	+	site "TATTGATT"
chr5_41197493_41197791_298_+_C6	315	322	2365.04	+	site "TTAGCTTT"
chr5_41197493_41197791_298_+_C6	243	250	927.575	+	site "TATGGTTA"
chr5_41197493_41197791_298_+_C6	222	229	2989.38	-	site "TTTGCTTA"
chr7_5608768_5608966_198_+_FSCN1	332	339	996.988	+	site "TATTCATA"

chr6_32020407_32020680_273+_C2	27	34	1040.17	+	site "TTTGGATA"
chr6_32020407_32020680_273+_C2	8	15	856.98	-	site "TTTTGTTA"
chr1_53199741_53199958_217+_SCP2	392	399	681.932	+	site "TTTTCATATA"
chr15_72831478_72831677_199+_CYP1A2	81	88	1038.47	+	site "TTTGGTTA"
chr15_72831478_72831677_199+_CYP1A2	338	345	1445.34	-	site "TTATGTTT"
chr12_110944901_110945227_326+_ERP29	177	184	1348.87	+	site "TTATCTTA"
chr4_9685557_9686010_453+_WDR1	638	645	864.281	+	site "TTATCATT"
chr6_160023406_160023733_327+_SOD2	498	505	1140.01	+	site "TATGCTTT"
chr6_160023406_160023733_327+_SOD2	288	295	1315.35	-	site "TTTTCATT"
chr8_145224148_145224399_251+_CYC1	86	93	1233.33	+	site "TTTTGTTT"
chr8_145224148_145224399_251+_CYC1	66	73	1289.97	-	site "TTTTGATA"
chr5_42756203_42756772_569+_GHR	606	613	776.99	+	site "TATTCTTT"
chr5_42756203_42756772_569+_GHR	485	492	1093.22	-	site "TATGGTTT"
chr4_106510201_106510412_211+_PPA2	291	298	1628.13	+	site "TTTTCATT"
chr4_106510201_106510412_211+_PPA2	176	183	2121.79	-	site "TTTTCTTA"
chr10_43202142_43202386_244+_HNRPF	65	72	951.956	+	site "TTATGTTA"
chr10_43202142_43202386_244+_HNRPF	158	165	775.731	+	site "TTAGCATA"
chr10_43202142_43202386_244+_HNRPF	57	64	1349.79	-	site "TTTTGTTT"
chr20_35290329_35290555_226+_RPN2	108	115	2177.75	+	site "TTTTGATT"
chr20_35290329_35290555_226+_RPN2	297	304	734.145	-	site "TTATGTTA"
chr11_101772771_101773038_267+_TMEM123	56	63	630.955	+	site "TATGCATA"
chr11_101772771_101773038_267+_TMEM123	108	115	1586.28	-	site "TATTCTTA"
chr11_101772771_101773038_267+_TMEM123	56	63	937.052	-	site "TATGCATA"
chr11_60858588_60858784_196+_DAK	9	16	749.035	+	site "TAATCTTA"
chr21_43658911_43659095_184+_SNF1LK	12	19	3384.91	+	site "TTATCTTA"
chr21_43658911_43659095_184+_SNF1LK	347	354	1596.77	+	site "TTTTCTTT"
chr18_3245838_3246170_332+_MRCL3	5	12	1869.2	+	site "TTTTCTTT"
chr18_3245838_3246170_332+_MRCL3	244	251	2254.6	-	site "TATGCTTT"
chr2_189583623_189583855_232+_COL3A1	212	219	1522.54	+	site "TTTGCTTA"

chr2_189583623_189583855_232_+_COL3A1	90	97	1331.32	+	site "TTTGCATA"
chr2_189583623_189583855_232_+_COL3A1	202	209	446.67	-	site "TATTCATT"
chr15_51528366_51528564_198_+_---	183	190	1590.1	+	site "TTTTCTTT"
chr9_19117345_19117543_198_+_ADFP	371	378	1968.21	+	site "TTTTCTTT"
chr17_38319030_38319289_259_+_G6PC	450	457	2210.3	+	site "TTTGCTTT"
chr12_123962076_123962451_375_+_UBC	314	321	2209.63	+	site "TTAGCTTT"
chrX_152716935_152717196_261_+_SSR4	20	27	538.468	+	site "TTAGGATA"
chr10_60226464_60226682_218_+_---	36	43	905.939	+	site "TTTTCTTT"
chr10_60226464_60226682_218_+_---	98	105	1171.96	-	site "TTTTCTTA"
chr13_45545945_45546173_228_+_CPB2	87	94	752.626	+	site "TTTGCATA"
chr2_46466958_46467364_406_+_EPAS1	209	216	1347.78	+	site "TATGCATA"
chr2_46466958_46467364_406_+_EPAS1	209	216	1309.61	-	site "TATGCATA"
chr21_46380566_46380883_317_+_FTCD	334	341	3901.97	+	site "TTATCTTT"
chr21_46380566_46380883_317_+_FTCD	383	390	1120.17	+	site "TTTTCTTT"
chr21_46380566_46380883_317_+_FTCD	428	435	1767.96	-	site "TTTTCTTT"
chr20_48242192_48242520_328_+_CEBPB	411	418	926.684	+	site "TATTGATT"
chr5_85949485_85949757_272_+_COX7C	264	271	1381.73	+	site "TTTTCTTT"
chr4_163561879_163562103_224_+_---	254	261	1105.89	+	site "TTTTGATA"
chr4_163561879_163562103_224_+_---	405	412	657.504	-	site "TTATGATA"
chr22_28281779_28281977_198_+_NIPSNAP1	62	69	749.407	+	site "TTTTCAATT"
chr15_78265459_78265771_312_+_FAH	383	390	1373.48	+	site "TTAGCTTA"
chr8_105528666_105528908_242_+_DPYS	320	327	1091.18	+	site "TATGGTTT"
chr8_105528666_105528908_242_+_DPYS	308	315	2356.73	-	site "TTTGCTTT"
chr15_62242076_62242304_228_+_PPIB	220	227	530.827	+	site "TAATCTTA"
chr15_62242076_62242304_228_+_PPIB	232	239	1644.68	-	site "TTAGGATT"
chr13_47730911_47731157_246_+_ITM2B	31	38	2257.88	+	site "TTATCTTA"
chr13_47730911_47731157_246_+_ITM2B	5	12	1552.6	-	site "TTTGCTTT"
chr13_47730911_47731157_246_+_ITM2B	14	21	1324.76	-	site "TTAGGTTT"
chr7_45896612_45897210_598_+_IGFBP1	492	499	1658.53	+	site "TATGCTTA"

chr7_45896612_45897210_598_+_IGFBP1	334	341	512.47	-	site "TATGCATT"
chr19_57421087_57421472_385_+_PPP2R1A	441	448	3278.09	+	site "TTTGCTTT"
chr1_219024259_219024638_379_+_MOSC2	323	330	941.091	+	site "TTTTGTTT"
chr1_219024259_219024638_379_+_MOSC2	268	275	1750.84	-	site "TTTTGTTT"
chr11_67560426_67560624_198_+_NDUFS8	125	132	2272.5	+	site "TTTTCTTA"
chr11_67560426_67560624_198_+_NDUFS8	74	81	2244.47	-	site "TTTTCTTT"
chr13_28172265_28172828_563_+_LOC283537	347	354	856.98	+	site "TTTTGTTA"
chr13_28172265_28172828_563_+_LOC283537	357	364	1939.36	-	site "TTTTGTTT"
chr13_28172265_28172828_563_+_LOC283537	250	257	1396.11	-	site "TTTTCTTT"
chr14_20556698_20556895_197_+_NDRG2	48	55	951.697	+	site "TTTTGATT"
chr14_20556698_20556895_197_+_NDRG2	116	123	1018.65	-	site "TTTTCACTT"
chr11_107507784_107507978_194_+_ACAT1	216	223	1549.08	+	site "TTATCATT"
chr14_50446332_50446617_285_+_PYGL	338	345	1551.77	+	site "TTTTCTTA"
chr20_22490956_22491198_242_+_FOXA2	175	182	3296.22	+	site "TTTTGTTT"
chr20_22490956_22491198_242_+_FOXA2	97	104	2773	+	site "TTTGCTTT"
chr20_22490956_22491198_242_+_FOXA2	118	125	1596.77	-	site "TTTTCTTT"
chr20_22490956_22491198_242_+_FOXA2	399	406	736.317	-	site "TAAGCTTA"
chr20_32979179_32979398_219_+_ACSS2	351	358	856.767	+	site "TATTCTTT"
chr20_32979179_32979398_219_+_ACSS2	232	239	649.516	+	site "TTTTGATA"
chr20_32979179_32979398_219_+_ACSS2	284	291	1044.8	-	site "TATTCATA"
chr15_99662217_99662796_579_+_PCSK6	211	218	1923.3	+	site "TTAGGTTA"
chr15_99662217_99662796_579_+_PCSK6	634	641	1567.05	-	site "TATTCTTA"
chr1_22021362_22021569_207_+_LDLRAD2	395	402	1137.76	+	site "TTTTGATA"
chr1_22021362_22021569_207_+_LDLRAD2	2	9	1952.57	-	site "TATGCTTT"
chr6_43150456_43150787_331_+_KLC4	291	298	1529.74	+	site "TTTGCATT"
chr14_59685805_59686081_276_+_DHRS7	316	323	1030.01	+	site "TTTTCTTT"
chr12_74709874_74710129_255_+_PHLDA1	113	120	1607.58	+	site "TATGCATT"
chr12_74709874_74710129_255_+_PHLDA1	314	321	1600.75	-	site "TTTTGATA"
chr14_19995151_19995400_249_+_APEX1	279	286	1098.37	+	site "TTTTCTTT"

chr5_10732838_10733084_246_+_DAP	150	157	882.515	+	site "TTTTGTTT"
chr2_171531281_171531510_229_+_GORASP2	5	12	1233.08	+	site "TTATGTTA"
chr2_171531281_171531510_229_+_GORASP2	27	34	877.319	-	site "TTAGGATT"
chrX_153324772_153324978_206_+_GDI1	173	180	1869.2	+	site "TTTTCTTT"
chrX_153324772_153324978_206_+_GDI1	79	86	2096.67	-	site "TTTTCTTT"
chr5_132238844_132239044_200_+_AFF4	339	346	1462.49	+	site "TTTTCAAT"
chr5_132238844_132239044_200_+_AFF4	252	259	1538.48	-	site "TATGCTTT"
chr21_26023822_26024020_198_+_ATP5J	316	323	1574.66	+	site "TTTTCAAT"
chr21_26023822_26024020_198_+_ATP5J	162	169	959.088	+	site "TTATCATA"
chr12_9144957_9145153_196_+_A2M	75	82	391.226	+	site "TAATCTTT"
chr12_9144957_9145153_196_+_A2M	144	151	1055.09	-	site "TTTTGTTT"
chr12_9144957_9145153_196_+_A2M	65	72	960.1	-	site "TTTGTTTT"
chr15_39359615_39359810_195_+_CHP	331	338	1060.65	+	site "TTTTCATA"
chr15_39359615_39359810_195_+_CHP	291	298	844.24	-	site "TTAGCATA"
chr2_232034490_232034684_194_+_NCL	215	222	1939.36	+	site "TTTTGTTT"
chr2_232034490_232034684_194_+_NCL	109	116	860.051	-	site "TAATCTTA"
chr11_85346752_85346929_177_+_PICALM	47	54	1386.11	+	site "TTTTGTTT"
chr11_85346752_85346929_177_+_PICALM	34	41	1432.82	-	site "TTTGTTTT"
chr20_31757090_31757288_198_+_PXMP4	263	270	1565.2	+	site "TTATCTTT"
chr2_132754497_132754793_296_+_---	459	466	1575.37	+	site "TTTTCTTT"
chr20_22489193_22489389_196_+_FOXA2	45	52	699.115	+	site "TATTGTTA"
chr6_4070416_4070623_207_+_PECI	391	398	978.769	+	site "TTTTCATA"
chr6_4070416_4070623_207_+_PECI	275	282	950.048	+	site "TTAGGTTA"
chr6_4070416_4070623_207_+_PECI	347	354	1724.56	-	site "TATTGTTT"
chr2_208814969_208815171_202_+_IDH1	268	275	1643.08	+	site "TTAGCTTT"
chr18_70208437_70208638_201_+_C18orf51	89	96	3050.69	+	site "TTTGCTTA"
chr18_70208437_70208638_201_+_C18orf51	197	204	1474.63	-	site "TTATCTTA"
chr11_129510626_129510881_255_+_APLP2	355	362	1072.87	+	site "TATTGTTT"
chr11_129510626_129510881_255_+_APLP2	371	378	1604.7	-	site "TATTCTTT"

chr8_99045439_99045657_218_+_MATN2	131	138	2212.8	+	site "TTAGCTTT"
chr8_99045439_99045657_218_+_MATN2	91	98	2338.5	-	site "TTATCTTA"
chr6_160118302_160118493_191_+_ACAT2	204	211	1463.16	+	site "TATTGTTA"
chr6_160118302_160118493_191_+_ACAT2	83	90	1396.11	+	site "TTTTCTTT"
chr11_65025301_65025841_540_+_SCYL1	270	277	1111.32	+	site "TATTCATT"
chr6_34663434_34663707_273_+_C6orf106	41	48	1720.47	+	site "TTAGCTTT"
chr12_91061551_91062052_501_+_BTG1	364	371	1342.79	+	site "TTTTCTTT"
chr12_91061551_91062052_501_+_BTG1	481	488	1342.79	+	site "TTTTCTTT"
chr12_91061551_91062052_501_+_BTG1	251	258	1281.5	+	site "TTTTCTTT"
chr12_91061551_91062052_501_+_BTG1	448	455	1279.08	+	site "TATTCATT"
chr12_91061551_91062052_501_+_BTG1	75	82	2150.73	-	site "TTTTCTTT"
chr11_101899216_101899413_197_+_MMP7	333	340	1115.94	+	site "TATTCATT"
chr5_118862979_118863191_212_+_HSD17B4	45	52	1349.03	+	site "TTTGCTTT"
chr5_118862979_118863191_212_+_HSD17B4	72	79	1081.03	+	site "TTATCATT"
chr4_88476733_88476969_236_+_DHRS8	187	194	2257.88	+	site "TTATCTTA"
chr4_88476733_88476969_236_+_DHRS8	303	310	697.12	-	site "TTATGTTT"
chr7_150128766_150128964_198_+_TMEM176A	137	144	1981.47	+	site "TTTTCTTT"
chr7_150128766_150128964_198_+_TMEM176A	26	33	540.409	-	site "TATTCATA"
chr17_75706613_75706811_198_+_GAA	107	114	965.398	+	site "TATGGATT"
chr15_63657432_63657748_316_+_PTPLAD1	72	79	1933.33	+	site "TTTTCTTT"
chr5_137830313_137830685_372_+_EGR1	52	59	586.267	+	site "TAATCTTT"
chr5_137830313_137830685_372_+_EGR1	365	372	2723.25	-	site "TTTGCTTT"
chr15_32163683_32163995_312_+_C15orf24	203	210	1272.22	+	site "TTTGCTTT"
chr2_197972968_197973166_198_+_SF3B1	211	218	1990.97	+	site "TTAGCTTT"
chr2_197972968_197973166_198_+_SF3B1	290	297	1058.75	-	site "TATGGATT"
chr2_208811990_208812275_285_+_IDH1	271	278	2781.96	+	site "TTTTCTTT"
chr10_73663127_73663375_248_+_C10orf104	315	322	2802.84	+	site "TTTTCTTA"
chr11_75157482_75157850_368_+_DGAT2	157	164	1025.22	+	site "TATGGTTA"
chr3_187852716_187852939_223_+_FETUB	353	360	572.9	+	site "TATTCATA"

chr3_187852716_187852939_223_+_FETUB	106	113	1507.08	-	site "TTTTCTTT"
chr1_23616278_23616491_213_+_TCEA3	95	102	562.783	+	site "TTATGATT"
chr1_23616278_23616491_213_+_TCEA3	28	35	2719.69	-	site "TTTGCTTT"
chr1_23616278_23616491_213_+_TCEA3	40	47	2510.49	-	site "TTTTCATT"
chr2_242161815_242162192_377_+_BOK	281	288	1005.15	+	site "TTTGTTTT"
chr21_26269243_26269473_230_+_APP	118	125	762.783	+	site "TATTCATT"
chr3_39158318_39158547_229_+_AXUD1	397	404	819.335	+	site "TTTGATA"
chr10_114159232_114159433_201_+_ACSL5	374	381	1044.8	+	site "TATTCATA"
chr3_115374363_115374561_198_+_DRD3	311	318	1856.66	+	site "TTTTCATT"
chr3_115374363_115374561_198_+_DRD3	244	251	1148.93	+	site "TTTGCATA"
chr3_115374363_115374561_198_+_DRD3	83	90	874.738	-	site "TATGCATA"
chr1_158452132_158452317_185_+_WDR42A	90	97	2199.36	+	site "TTTTCTTT"
chr1_158452132_158452317_185_+_WDR42A	70	77	2013.24	+	site "TTTGCTTT"
chr5_174886256_174886556_300_+_SFXN1	39	46	1110.77	+	site "TTTTCATT"
chr5_174886256_174886556_300_+_SFXN1	11	18	920.818	+	site "TTTGTTTT"
chr5_174886256_174886556_300_+_SFXN1	466	473	2013.24	-	site "TTTGCTTT"
chr11_128627847_128628025_178_+_---	100	107	1899.81	+	site "TTTGCATA"
chr3_124693764_124693962_198_+_PTPLB	281	288	1476.62	+	site "TTATCTTT"
chr17_77419648_77419846_198_+_ARHGDIA	170	177	2470.16	+	site "TTTGCTTT"
chr12_52159417_52159580_163_+_PCBP2	112	119	855.909	+	site "TTTTTTTT"
chr6_144458072_144458450_378_+_SF3B5	94	101	2260.27	+	site "TTTTCTTA"
chr6_144457728_144458070_342_+_SF3B5	438	445	2260.27	+	site "TTTTCTTA"
chr12_91062065_91062401_336_+_BTG1	286	293	1005.15	+	site "TTTGTTTT"
chr12_91062065_91062401_336_+_BTG1	108	115	1004.04	+	site "TTTTGATA"
chr5_132239244_132239459_215_+_AFF4	20	27	1829.87	+	site "TTTTGTTA"
chr5_132239244_132239459_215_+_AFF4	8	15	2126.33	-	site "TATTCCTT"
chr1_202367735_202367946_211_+_ETNK2	45	52	2109.31	+	site "TTTGTTTT"
chr1_202367735_202367946_211_+_ETNK2	186	193	3076.52	-	site "TTTGCTTA"
chr1_202367735_202367946_211_+_ETNK2	288	295	1901.69	-	site "TATGCTTT"

chr19_55055087_55055285_198+_PTOV1	70	77	2794.02	+	site "TTATCTTA"
chrX_128731038_128731234_196+_XPNPEP2	384	391	1605.27	+	site "TTTTGTTT"
chrX_128731038_128731234_196+_XPNPEP2	215	222	1412.18	+	site "TTTGTTTA"
chrX_128731038_128731234_196+_XPNPEP2	325	332	975.501	-	site "TTTGTTT"
chr5_10733683_10733877_194+_DAP	326	333	887.63	+	site "TTATCTTT"
chr7_127508618_127508797_179+_SND1	331	338	2528.31	+	site "TTTTCTTA"
chr7_127508618_127508797_179+_SND1	132	139	1815.19	+	site "TTAGCTTT"
chr7_101900912_101901088_176+_POLR2J	13	20	2024.85	+	site "TTTGCATT"
chr7_101900912_101901088_176+_POLR2J	339	346	1097.6	-	site "TTTTCTTT"
chr12_21283976_21284362_386+_SLCO1B1	63	70	325.313	+	site "TAAGGTTT"
chr12_21283976_21284362_386+_SLCO1B1	1	8	998.955	-	site "TTTTCTTT"
chr6_43860287_43860449_162+_VEGFA	355	362	1412.19	+	site "TTTTCAAT"
chr5_179157241_179157509_268+_MGAT4B	142	149	998.955	+	site "TTTTCTTT"
chr1_56733663_56733938_275+_PPAP2B	423	430	1204.91	+	site "TTTGATA"
chr1_56733663_56733938_275+_PPAP2B	180	187	1160.58	+	site "TATTCTTT"
chr1_56733663_56733938_275+_PPAP2B	325	332	1236.02	-	site "TATTGATT"
chr5_179315115_179315308_193+_RNF130	227	234	1370.67	+	site "TTTGCTTT"
chr10_105141916_105142116_200+_USMG5	47	54	412.036	+	site "TTATGATT"
chr10_105141916_105142116_200+_USMG5	12	19	866.737	-	site "TTAGCTTA"
chr1_148816070_148816621_551+_MCL1	408	415	1975.89	+	site "TTTTCTTT"
chr17_77635672_77635890_218+_FASN	407	414	883.399	+	site "TATTCTTT"
chr11_66875564_66876056_492+_POLD4	37	44	1054.02	+	site "TTATGTTA"
chr11_66875564_66876056_492+_POLD4	103	110	739.673	-	site "TATGCATT"
chr22_28281385_28281719_334+_NIPSNAP1	456	463	749.407	+	site "TTTTCAAT"
chr22_28281385_28281719_334+_NIPSNAP1	162	169	1140.79	-	site "TTTGTTTA"
chr1_47173255_47173469_214+_CYP4A11	204	211	1231.42	+	site "TTTTCTTT"
chr1_47173255_47173469_214+_CYP4A11	360	367	1066.45	+	site "TATTCATA"
chr1_47173255_47173469_214+_CYP4A11	289	296	1012.58	-	site "TTTGCATA"
chr7_65195133_65195319_186+_ASL	197	204	1370.06	+	site "TTTTCTTA"

chr12_9151350_9151579_229+_A2M	68	75	730.424	+	site "TTTGCATA"
chr2_26267247_26267673_426+_HADHA	600	607	958.838	+	site "TATTCATA"
chr9_34625115_34625511_396+_OPRS1	118	125	1274.06	+	site "TTAGCTTT"
chr4_48582195_48582391_196+_OCIAD2	182	189	1984.85	+	site "TATTCTTA"
chr4_48582195_48582391_196+_OCIAD2	248	255	1408.72	+	site "TTTGCATA"
chr4_48582195_48582391_196+_OCIAD2	112	119	1091.58	+	site "TATGCATT"
chr1_60131940_60132161_221+_CYP2J2	247	254	1234.05	+	site "TTTTGATT"
chr4_119420165_119420405_240+_PRSS12	315	322	1239.85	+	site "TTTGTTTT"
chr4_119420165_119420405_240+_PRSS12	81	88	1643.52	-	site "TTTTGATT"
chr8_27418459_27418657_198+_EPHX2	179	186	2460.61	+	site "TTAGCTTT"
chr3_121797882_121798111_229+_NDUFB4	289	296	2187.83	+	site "TTTGCATT"
chr6_160022392_160022831_439+_SOD2	461	468	1113.14	+	site "TATTCTTT"
chr6_160022392_160022831_439+_SOD2	436	443	2046.21	-	site "TATGCTTT"
chr17_38319357_38319630_273+_G6PC	435	442	1458.4	+	site "TTTTGTTA"
chr3_172214907_172215227_320+_SLC2A2	358	365	2126.59	+	site "TTTTCTTT"
chrX_152423300_152423565_265+_BGN	326	333	1899.17	+	site "TATGCTTA"
chrX_152423300_152423565_265+_BGN	122	129	1843.45	+	site "TTTTCTTA"
chrX_152423300_152423565_265+_BGN	110	117	649.516	-	site "TTTTGATA"
chrX_38147796_38147983_187+_OTC	282	289	2133.3	+	site "TTTTCTTA"
chr1_180621489_180621687_198+_GLUL	153	160	1751.2	+	site "TTTTGTTA"
chr1_149639541_149639739_198+_PSMB4	263	270	3830.03	+	site "TTTGCTTA"
chr10_17311687_17311832_145+_VIM	159	166	1129.04	+	site "TTTGTTA"
chr10_17311687_17311832_145+_VIM	200	207	1378.89	-	site "TATTCTTA"
chr1_59021916_59022294_378+_JUN	18	25	730.082	+	site "TTTGATA"
chr16_55531384_55531571_187+_HERPUD1	72	79	1549.83	+	site "TTTTCAATT"
chr16_55531384_55531571_187+_HERPUD1	60	67	869.814	-	site "TATTCTTT"
chr1_167368102_167368262_160+_ATP1B1	155	162	991.586	+	site "TTTTGTTA"
chr1_167368102_167368262_160+_ATP1B1	191	198	1060.07	-	site "TTTTCAATT"
chr1_167368102_167368262_160+_ATP1B1	235	242	920.389	-	site "TATTCATA"

chr6_43860877_43861101_224_+_VEGFA	143	150	1231.07	+	site "TTTTCATA"
chr1_57113189_57113390_201_+_C8A	240	247	846.769	+	site "TTAGGATT"
chr1_57113189_57113390_201_+_C8A	288	295	1183.87	-	site "TTTTGTTT"
chr1_53142864_53143029_165_+_ECHDC2	228	235	1012.58	+	site "TTTGCATA"
chr1_53142864_53143029_165_+_ECHDC2	164	171	582.09	-	site "TATTCATA"
chr13_56415953_56416151_198_+_---	188	195	1467.89	+	site "TATTCTTT"
chr12_48784581_48784778_197_+_GPD1	57	64	1317.62	+	site "TTATGTTT"
chr12_48784581_48784778_197_+_GPD1	186	193	1201.16	-	site "TTTTCATA"
chr5_115174751_115174985_234_+_CDO1	414	421	2899.84	+	site "TTATCTTA"
chr5_115174751_115174985_234_+_CDO1	216	223	1760.24	-	site "TTTGCTTT"
chr1_239735905_239736139_234_+_FH	425	432	861.151	+	site "TTAGCTTT"
chr2_215982498_215982787_289_+_FN1	236	243	2028.56	+	site "TTTTGTTA"
chr2_215982498_215982787_289_+_FN1	217	224	1656.48	+	site "TTTTGTTT"
chr2_215982498_215982787_289_+_FN1	42	49	1231.42	-	site "TTTTCTTT"
chr2_189583156_189583354_198_+_COL3A1	56	63	1422.46	+	site "TTTGCATT"
chr19_53810873_53811071_198_+_RPL18	64	71	1101.6	+	site "TTTGCATT"
chr19_53810873_53811071_198_+_RPL18	385	392	1620.65	-	site "TTTTCATT"
chr19_763161_763334_173_+_PTBP1	281	288	1681.65	+	site "TATTCTTT"
chr20_36431086_36431284_198_+_LBP	104	111	873.276	+	site "TTATCATT"
chr19_4489350_4489827_477_+_LRG1	432	439	1673.17	+	site "TATGCATT"
chr3_121843076_121843306_230_+_HGD	335	342	1908.23	+	site "TTTGTTT"
chr2_31410977_31411298_321_+_XDH	159	166	669.758	+	site "TTAGGATA"
chr18_41403208_41403407_199_+_SLC14A2	91	98	1303.17	+	site "TTTTCATT"
chr16_18707795_18707993_198_+_RPS15A	157	164	537.497	+	site "TTATGTTA"
chr1_167756325_167756584_259_+_F5	133	140	1507.08	+	site "TTTTCTTT"
chr6_49515830_49516097_267_+_MUT	290	297	1602.9	+	site "TTTGTTT"
chr6_49515830_49516097_267_+_MUT	361	368	1047.84	-	site "TATTCATT"
chr20_2976593_2976833_240_+_MRPS26	325	332	942.602	+	site "TATTGATT"
chr20_2976593_2976833_240_+_MRPS26	305	312	1399.99	-	site "TTTGCTTA"

chr3_172195872_172196197_325+_SLC2A2	10	17	2019.75	+	site "TTTTCTTA"
chr21_43659216_43659692_476+_SNF1LK	42	49	1596.77	+	site "TTTTCTTT"
chr7_22641175_22641373_198+_---	134	141	1234.05	+	site "TTTTGATT"
chr7_22641175_22641373_198+_---	303	310	2410.57	-	site "TATGCTTT"
chr7_22641175_22641373_198+_---	97	104	1058.47	-	site "TTTGCATA"
chr2_26355471_26355709_238+_HADHB	155	162	1784.17	+	site "TATTCTTA"
chr2_26355471_26355709_238+_HADHB	317	324	2136.08	-	site "TTTTCTTA"
chr8_57149109_57149306_197+_RPS20	20	27	1767.96	+	site "TTTTCTTT"
chr8_57149109_57149306_197+_RPS20	48	55	1719.43	-	site "TATTCATT"
chr8_57149109_57149306_197+_RPS20	202	209	1084.27	-	site "TTTGATT"
chr12_90082482_90082717_235+_DCN	321	328	1956.51	+	site "TTTGCTTA"
chr12_90082482_90082717_235+_DCN	30	37	1737.53	-	site "TATTCATT"
chr12_90082482_90082717_235+_DCN	59	66	1123.65	-	site "TTAGCTTT"
chr1_47172647_47172855_208+_CYP4A11	338	345	1917.95	+	site "TTTTCTTT"
chr2_232028339_232028542_203+_NCL	268	275	1381.73	+	site "TTTTCTTT"
chr2_232028339_232028542_203+_NCL	153	160	1187.87	+	site "TTTGCATA"
chr2_232028339_232028542_203+_NCL	189	196	1869.2	-	site "TTTTCTTT"
chr1_8847996_8848134_138+_ENO1	26	33	998.82	+	site "TATGGTTT"
chr6_161047366_161047628_262+_PLG	84	91	1047.45	+	site "TTTTCATA"
chr2_21086363_21086550_187+_APOB	288	295	1477.72	+	site "TTTGCATA"
chr5_41217185_41217347_162+_C6	62	69	1695.79	+	site "TATGGTTT"
chr11_66387788_66387980_192+_PC	29	36	1459.64	+	site "TTTGTTA"
chr9_129910104_129910500_396+_SLC25A25	106	113	1276.97	+	site "TTATCATT"
chr9_129910104_129910500_396+_SLC25A25	276	283	1247.32	-	site "TTAGTTA"
chr16_21901867_21902135_268+_UQCRC2	115	122	2074.17	+	site "TTAGCTTA"
chr16_21901867_21902135_268+_UQCRC2	284	291	1150.51	-	site "TTTTGTTT"
chr7_95051472_95051845_373+_PDK4	529	536	1611.74	+	site "TTATGTTT"
chr7_95051472_95051845_373+_PDK4	557	564	1305	+	site "TATTCATA"
chr7_95051472_95051845_373+_PDK4	566	573	2087.93	-	site "TTTTCTTT"

chr7_95051472_95051845_373+_PDK4	455	462	1392.75	-	site "TTATGTTT"
chr2_21087078_21087540_462+_APOB	81	88	1694.74	+	site "TTATCTTA"
chr2_21087078_21087540_462+_APOB	72	79	664.761	-	site "TTTTCATA"
chr16_73703244_73703712_468+_LDHD	440	447	1728.24	+	site "TTTTCTTT"
chr16_73703244_73703712_468+_LDHD	273	280	1055.14	-	site "TTATCTTA"
chr22_41345084_41345506_422+_CYB5R3	514	521	1069.96	+	site "TTTTCTTT"
chr22_41345084_41345506_422+_CYB5R3	465	472	1381.49	-	site "TTTTCTTA"
chr6_133055069_133055406_337+_VNN1	393	400	1183.87	+	site "TTTTGTTT"
chr6_119540643_119540984_341+_MAN1A1	213	220	1196.19	+	site "TTTTGTTT"
chr6_119540643_119540984_341+_MAN1A1	527	534	2534.11	-	site "TTTTCTTA"
chr9_127043200_127043399_199+_HSPA5	248	255	1933.33	+	site "TTTTCTTT"
chr1_163903152_163903354_202+_ALDH9A1	372	379	985.194	+	site "TATTGATT"
chr1_163903152_163903354_202+_ALDH9A1	14	21	2004.83	-	site "TTTGCTTT"
chr3_144029037_144029234_197+_PCOLCE2	159	166	1959.17	+	site "TTTTCTTT"
chr3_144029037_144029234_197+_PCOLCE2	271	278	532.303	-	site "TATTCATA"
chr19_53077074_53077269_195+_SULT2A1	207	214	3037.73	+	site "TTTTCTTA"
chr11_65808861_65809048_187+_YIF1A	314	321	2382.78	+	site "TTTGCTTA"
chr1_11957763_11958035_272+_PLOD1	45	52	2350.68	+	site "TTTTCTTT"
chr2_201178433_201178631_198+_AOX1	311	318	1707.16	+	site "TTTTCTTT"
chr2_201178433_201178631_198+_AOX1	9	16	1457.12	-	site "TTTTCATA"
chrX_138450857_138451047_190+_F9	171	178	1656.1	+	site "TATTGATT"
chrX_138450857_138451047_190+_F9	16	23	923.621	-	site "TATTCTTA"
chr17_19519622_19520303_681+_ALDH3A2	205	212	1732.22	+	site "TATTCTTA"
chr5_36230599_36230990_391+_C5orf33	329	336	960.789	+	site "TTTTGTTA"
chr5_36230599_36230990_391+_C5orf33	504	511	1257.31	-	site "TTATCATT"
chr2_138488250_138488462_212+_HNMT	193	200	1698.3	+	site "TTTTCTTA"
chr2_138488250_138488462_212+_HNMT	296	303	649.516	-	site "TTTTGATA"
chr10_76138044_76138212_168+_ADK	152	159	620.644	+	site "TTTTCATA"
chr12_122648188_122648437_249+_TMED2	22	29	1693.01	+	site "TTTGCTTT"

chr22_37210670_37210900_230_+_DDX17	289	296	1527.19	+	site "TTTGCATT"
chr22_37210670_37210900_230_+_DDX17	210	217	1639.1	-	site "TTTTCAAT"
chr15_38499726_38499950_224_+_IVD	52	59	2210.3	+	site "TTTGCTTT"
chr11_80945498_80945696_198_+_---	151	158	1158.53	+	site "TTAGCTTT"
chr11_80945498_80945696_198_+_---	188	195	897.16	+	site "TTATCATA"
chr11_80945498_80945696_198_+_---	212	219	1828.02	-	site "TTTGCATT"
chr19_38584466_38584663_197_+_PEPD	364	371	1507.08	+	site "TTTTCTTT"
chr12_45458303_45458487_184_+_SLC38A4	292	299	736.223	+	site "TATGGATT"
chr3_172197838_172198014_176_+_SLC2A2	129	136	1233.33	+	site "TTTTGTTT"
chr3_58158562_58158793_231_+_DNASE1L3	327	334	1816.71	+	site "TTTTGATT"
chr3_58158562_58158793_231_+_DNASE1L3	339	346	466.462	-	site "TAAGCATT"
chr1_149207453_149207647_194_+_LASS2	382	389	978.769	+	site "TTTTCATA"
chr18_70331803_70331970_167_+_CNDP2	357	364	317.778	+	site "TAAGCATA"
chr18_70331803_70331970_167_+_CNDP2	357	364	1906.76	-	site "TATGCTTA"
chr18_70331803_70331970_167_+_CNDP2	282	289	1737.53	-	site "TATTCATT"
chr4_100212319_100212589_270_+_ADH5	108	115	1822.07	+	site "TTTTGTTT"
chr4_100212319_100212589_270_+_ADH5	119	126	1029.53	+	site "TTAGGTTA"
chr4_100212319_100212589_270_+_ADH5	276	283	2612.34	-	site "TTTGGATT"
chr4_100212319_100212589_270_+_ADH5	73	80	985.194	-	site "TATTGATT"
chr7_72646476_72646715_239_+_MLXIPL	216	223	1557.96	+	site "TTATCTTT"
chr17_75707660_75707886_226_+_GAA	126	133	2185.27	+	site "TTTTGATT"
chr2_10841546_10841922_376_+_PDIA6	39	46	721.642	+	site "TTAGCATA"
chr20_33608562_33608855_293_+_ERGIC3	410	417	2529.17	+	site "TATGCTTT"
chr11_125639402_125639621_219_+_SRPR	314	321	481.435	+	site "TATTGTTT"
chr6_161052033_161052227_194_+_PLG	46	53	1557.9	+	site "TATTCTTA"
chr4_100761238_100761449_211_+_MTTP	352	359	1482.6	+	site "TATTCATT"
chr1_22859978_22860235_257_+_C1QB	230	237	1944.52	+	site "TTTTCAAT"
chr6_33055591_33055909_318_+_BRD2	208	215	905.939	+	site "TTTTCTTT"
chr6_33055591_33055909_318_+_BRD2	315	322	2027.37	-	site "TTAGCTTA"

chr3_130476682_130476884_202+_COPG	6	13	1494.16	+	site "TTTTGATT"
chr3_130476682_130476884_202+_COPG	380	387	800.537	-	site "TTATGTTA"
chr1_158454691_158454882_191+_WDR42A	297	304	566.671	+	site "TTATCATT"
chr15_38500322_38500550_228+_IVD	212	219	1193.85	+	site "TATGCATA"
chr15_38500322_38500550_228+_IVD	212	219	397.236	-	site "TATGCATA"
chr16_1809071_1809257_186+_HAGH	97	104	4850.5	+	site "TTTGCTTT"
chr17_59929778_59929967_189+_DDX5	16	23	1380.09	+	site "TTATGTTT"
chr17_59929778_59929967_189+_DDX5	40	47	1258.59	-	site "TTAGGTTT"
chr12_119659136_119659334_198+_ACADS	207	214	1315.35	+	site "TTTTCATT"
chr12_119659136_119659334_198+_ACADS	251	258	806.2	-	site "TTATGTTT"
chr16_28764134_28764294_160+_TUFM	6	13	1439.45	+	site "TTTTCTTT"
chr16_28764134_28764294_160+_TUFM	119	126	1396.11	-	site "TTTTCTTT"
chr4_100445438_100445674_236+_ADH1B	167	174	819.785	+	site "TTATGTTA"
chr4_100445438_100445674_236+_ADH1B	155	162	1136.91	-	site "TTTGCACTT"
chr17_43492635_43492975_340+_NFE2L1	159	166	1439.45	+	site "TTTTCTTT"
chr11_125638701_125639007_306+_SRPR	161	168	1075.42	+	site "TTATCTTT"
chr11_125638701_125639007_306+_SRPR	205	212	543.279	-	site "TTTTGATA"
chr5_180151344_180151534_190+_MGAT1	161	168	1388.52	+	site "TTTTGATA"
chr5_180151344_180151534_190+_MGAT1	204	211	2995.47	-	site "TTATCTTT"
chr5_180151344_180151534_190+_MGAT1	358	365	1685.91	-	site "TTTTCTTT"
chr1_167763801_167763988_187+_F5	23	30	931.455	+	site "TTTTGTTT"
chr1_167763801_167763988_187+_F5	58	65	1758.69	-	site "TTATCTTT"
chr1_167763801_167763988_187+_F5	136	143	1397.93	-	site "TATTCTTT"
chr1_158521350_158521548_198+_PEX19	51	58	2615.81	+	site "TTATCTTA"
chr1_158521350_158521548_198+_PEX19	142	149	499.208	-	site "TTATGATT"
chr4_155705787_155705950_163+_FGB	307	314	1615.73	+	site "TTTGCTTT"
chr5_179372634_179372792_158+_RNF130	184	191	2252.23	+	site "TTTGCTTT"
chr5_179372634_179372792_158+_RNF130	92	99	937.815	-	site "TATTGATT"
chr17_70276173_70276445_272+_SLC9A3R1	217	224	852.038	+	site "TTTTCATT"

chr14_54378796_54379054_258+_GCH1	443	450	1429.19	+	site "TATGGTTA"
chr14_54378796_54379054_258+_GCH1	258	265	730.082	-	site "TTTGGATA"
chr6_133056819_133057033_214+_VNN1	215	222	796.034	+	site "TTTTGATT"
chr6_133056819_133057033_214+_VNN1	67	74	674.588	-	site "TATTGATT"
chr15_61536487_61536685_198+_USP3	122	129	1897.59	+	site "TTTGCTTA"
chr15_61536487_61536685_198+_USP3	387	394	1177.86	-	site "TTTGCATA"
chr6_159106988_159107184_196+_VIL2	355	362	3231.03	+	site "TTTTCTTT"
chr6_159106988_159107184_196+_VIL2	308	315	1055.14	-	site "TTATCTTA"
chr17_46603945_46604140_195+_NME2	95	102	2414.35	+	site "TTTTGTTT"
chr4_175650899_175651081_182+_HPGD	282	289	1599.85	+	site "TTATGTTA"
chr4_175650899_175651081_182+_HPGD	97	104	2481.56	-	site "TTTGCTTT"
chr4_122823948_122824126_178+_ANXA5	295	302	579.434	+	site "TAATGTTT"
chr4_122823948_122824126_178+_ANXA5	322	329	1397.29	-	site "TTTGGTTA"
chr18_70338157_70338598_441+_CNDP2	36	43	640.34	+	site "TTTGGATA"
chr9_33907676_33907929_253+_UBE2R2	76	83	1160.58	+	site "TATTCTTT"
chr9_33907676_33907929_253+_UBE2R2	56	63	2853.83	-	site "TTTGCTTT"
chr9_33907676_33907929_253+_UBE2R2	169	176	1410.24	-	site "TATTCATT"
chr12_54399160_54399355_195+_BLOC1S1	245	252	646.919	+	site "TATGGTTT"
chr1_2324331_2324545_214+_RER1	401	408	2009.47	+	site "TTTTGTTT"
chr7_94791672_94791829_157+_PON1	330	337	1357.78	+	site "TTTGCTTA"
chr7_94791672_94791829_157+_PON1	109	116	1981.46	-	site "TTATCTTT"
chr3_52208281_52208525_244+_ALAS1	346	353	945.429	+	site "TATGCTTT"
chr3_52208281_52208525_244+_ALAS1	37	44	1201.49	-	site "TATTGTTT"
chr13_46249565_46249814_249+_ESD	324	331	1486.28	+	site "TTTTGATA"
chr6_31731673_31731902_229+_APOM	372	379	716.479	+	site "TATTGTTT"
chr3_50227040_50227235_195+_SLC38A3	233	240	678.302	+	site "TAATCTTA"
chr2_211167448_211167637_189+_CPS1	301	308	826.815	+	site "TTAGGATA"
chr2_211167448_211167637_189+_CPS1	342	349	1551.01	-	site "TTATCTTT"
chrX_46886563_46886872_309+_NDUFB11	331	338	2043.45	+	site "TTTTCTTT"

chrX_46886563_46886872_309_+_NDUFB11	132	139	1459.44	-	site "TTATCTTA"
chrX_46886563_46886872_309_+_NDUFB11	360	367	992.063	-	site "TTTTCATA"
chrX_46886563_46886872_309_+_NDUFB11	284	291	959.768	-	site "TTTTGTTT"
chr6_166700221_166700417_196_+_BRP44L	244	251	1546.04	+	site "TTTGCAATT"
chr18_55146773_55147018_245_+_LMAN1	135	142	489.973	+	site "TTAGCAATT"
chr18_55146773_55147018_245_+_LMAN1	339	346	1279.08	-	site "TATTCTTT"
chr22_34992340_34992558_218_+_APOL1	374	381	1590.1	+	site "TTTTCTTT"
chr22_34992340_34992558_218_+_APOL1	29	36	1230.84	-	site "TATTCATA"
chr6_160029129_160029296_167_+_SOD2	266	273	998.955	+	site "TTTTCTTT"
chr11_101772480_101772650_170_+_TMEM123	347	354	630.955	+	site "TATGCATA"
chr11_101772480_101772650_170_+_TMEM123	347	354	937.052	-	site "TATGCATA"
chr11_101772480_101772650_170_+_TMEM123	215	222	851.184	-	site "TATTGATA"
chr12_6517229_6517398_169_+_GAPDH	273	280	1643.52	+	site "TTTTGATT"
chr4_57594057_57594326_269_+_IGFBP7	106	113	1239.85	+	site "TTTGTTTT"
chr9_19370123_19370265_142_+_RPS6	82	89	1133.79	+	site "TATTGTTT"
chr7_134305701_134305892_191_+_CALD1	224	231	462.95	+	site "TTTGATA"
chr12_45445799_45446048_249_+_SLC38A4	189	196	801.376	+	site "TTAGGATT"
chr5_39351691_39351899_208_+_C9	3	10	2828.57	+	site "TTTGCTTA"
chr3_150699228_150699426_198_+_TM4SF4	321	328	959.768	+	site "TTTTGTTT"
chr3_150699228_150699426_198_+_TM4SF4	250	257	783.037	-	site "TATTCATT"
chr1_169343771_169344045_274_+_FMO3	20	27	1367.89	+	site "TTATCTTT"
chr1_169343771_169344045_274_+_FMO3	179	186	1765.38	-	site "TTATGTTA"
chr8_91098615_91098823_208_+_DECR1	81	88	718.668	+	site "TATTGTTA"
chr8_91098615_91098823_208_+_DECR1	277	284	3231.03	-	site "TTTTCTTT"
chrX_152425438_152425631_193_+_BGN	352	359	1169.49	+	site "TTATGTTT"
chrX_152425438_152425631_193_+_BGN	310	317	1596.77	-	site "TTTTCTTT"
chr4_65156381_65156616_235_+_---	389	396	1550.79	+	site "TTTGTTTT"
chr4_65156381_65156616_235_+_---	66	73	1385.38	+	site "TATGCAATT"
chr4_65156381_65156616_235_+_---	403	410	1384.86	+	site "TTATCAATT"

chr4_65156381_65156616_235_+---	328	335	1039.7	-	site "TATTGTTT"
chr1_171713046_171713242_196_+_PRDX6	314	321	1959.17	+	site "TTTTCTTT"
chr1_171713046_171713242_196_+_PRDX6	359	366	1575.37	+	site "TTTTCTTT"
chr1_171713046_171713242_196_+_PRDX6	75	82	1337.83	-	site "TTATGTTT"
chr2_8740359_8740557_198_+_ID2	140	147	1101.74	+	site "TTTGATA"
chr15_64581988_64582179_191_+_RPL4	299	306	776.213	+	site "TTTTGTTT"
chr9_4850801_4850999_198_+_RCL1	336	343	1814.89	+	site "TTTGCTTT"
chr9_4850801_4850999_198_+_RCL1	6	13	489.973	-	site "TTAGCATT"
chr2_201050903_201051093_190_+_DNAPTP6	250	257	620.644	+	site "TTTTCATA"
chr2_232030559_232030755_196_+_NCL	337	344	555.77	+	site "TATTGATA"
chr2_232030559_232030755_196_+_NCL	318	325	980.803	-	site "TATGGATT"
chr16_88156191_88156389_198_+_RPL13	224	231	1559.82	+	site "TATGCTTT"
chr7_24502576_24502773_197_+---	86	93	2423.75	+	site "TTATCTTT"
chr7_24502576_24502773_197_+---	256	263	1521.12	-	site "TTTTGATT"
chr22_36532814_36533195_381_+_H1F0	376	383	1368.12	+	site "TTTTGTTT"
chr22_36532814_36533195_381_+_H1F0	462	469	1390.22	-	site "TATGGTTT"
chr2_54738543_54738725_182_+_SPTBN1	44	51	1185.16	+	site "TATTGTTA"
chr2_54738543_54738725_182_+_SPTBN1	51	58	705.461	-	site "TATTGTTT"
chr6_30260342_30260540_198_+_TRIM26	66	73	2422.68	+	site "TTTTGTTT"
chr22_31587919_31588083_164_+_TIMP3	339	346	1659.22	+	site "TTTTGTTA"
chr1_54291267_54291506_239_+_TMEM59	126	133	1140.96	+	site "TATGCTTA"
chr1_54291267_54291506_239_+_TMEM59	340	347	991.586	-	site "TTTTGTTA"
chr4_77300669_77300877_208_+_SCARB2	292	299	858.917	+	site "TATGCATA"
chr4_77300669_77300877_208_+_SCARB2	31	38	1663.72	-	site "TATTCTTA"
chrX_105920977_105921162_185_+_RNF128	57	64	1615.73	+	site "TTTGCTTT"
chrX_105920977_105921162_185_+_RNF128	123	130	1508.18	+	site "TTTGCAAT"
chrX_105920977_105921162_185_+_RNF128	218	225	1291.27	-	site "TTTTGTTT"
chr2_63922519_63922867_348_+_UGP2	332	339	1291.65	+	site "TTTGTTT"
chr2_63922519_63922867_348_+_UGP2	339	346	722.88	-	site "TATTGATA"

chr12_21602378_21602566_188+_GYS2	191	198	2263.48	+	site "TTTTCTTT"
chr12_21602378_21602566_188+_GYS2	124	131	1760.24	+	site "TTTGCTTT"
chr12_21602378_21602566_188+_GYS2	283	290	1534.43	-	site "TTTGTTTT"
chr12_21602378_21602566_188+_GYS2	24	31	1251.15	-	site "TATTCTTA"
chr22_37464095_37464266_171+_UNC84B	314	321	3083.54	+	site "TTTGCTTT"
chr11_58480636_58480994_358+_GLYATL1	268	275	1008.34	+	site "TATTCATT"
chr2_43958593_43959012_419+_ABCG8	419	426	1556.36	+	site "TATGCTTT"
chr2_43958593_43959012_419+_ABCG8	383	390	1454.3	-	site "TATTCTTA"
chr17_35331912_35332278_366+_ORMDL3	390	397	1681.18	+	site "TTTGTTTT"
chr17_35331912_35332278_366+_ORMDL3	366	373	1259.5	+	site "TTTGCTTT"
chrX_66865501_66865723_222+_AR	343	350	2827.58	+	site "TTTTCTTT"
chrX_66865501_66865723_222+_AR	230	237	1933.33	+	site "TTTTCTTT"
chrX_66865501_66865723_222+_AR	71	78	1872.38	-	site "TTTTCAAT"
chr2_75573592_75573941_349+_TMEM166	235	242	998.955	+	site "TTTTCTTT"
chr2_75573592_75573941_349+_TMEM166	337	344	2216.23	-	site "TATGCTTA"
chr16_70163535_70163804_269+_TAT	339	346	582.846	+	site "TTATGATT"
chr9_138807103_138807362_259+_TMEM141	254	261	944.324	+	site "TTATCATA"
chr6_133086586_133086784_198+_VNN3	232	239	231.874	+	site "TAATGTTA"
chr6_133086586_133086784_198+_VNN3	51	58	1027.36	-	site "TATTGTTT"
chr4_73299448_73299646_198+_---	204	211	1545.99	+	site "TTTTGTTA"
chr4_73299448_73299646_198+_---	141	148	1229.15	-	site "TTTTGTTA"
chr4_73299448_73299646_198+_---	150	157	805.762	-	site "TTTTGATA"
chr20_36416057_36416255_198+_LBP	225	232	2173.52	+	site "TTATCTTT"
chr20_36416057_36416255_198+_LBP	280	287	1218.96	+	site "TATTCTTT"
chr20_36416057_36416255_198+_LBP	213	220	694.879	+	site "TATTGTTT"
chr3_187987938_187988135_197+_EIF4A2	190	197	1439.45	+	site "TTTTCTTT"
chr12_54783387_54783577_190+_ERBB3	295	302	1230.84	+	site "TATTCATA"
chr1_239738574_239738762_188+_FH	264	271	1279.08	+	site "TATTCTTT"
chr9_122791685_122791869_184+_C5	168	175	1200.52	+	site "TTTGATT"

chr9_35803622_35803801_179+_HINT2	246	253	2109.31	+	site "TTTGTTTT"
chr22_16450709_16450887_178+_SLC25A18	117	124	1710.02	+	site "TTTTCTTT"
chr22_16450709_16450887_178+_SLC25A18	265	272	1442.48	+	site "TTATGTTT"
chr22_16450709_16450887_178+_SLC25A18	352	359	1872.38	-	site "TTTTCAAT"
chr3_129272980_129273132_152+_SEC61A1	291	298	2255.54	+	site "TTTTGTTT"
chr3_129272980_129273132_152+_SEC61A1	223	230	2004.83	-	site "TTTGCTTT"
chr17_4633178_4633320_142+_TM4SF5	10	17	669.233	+	site "TTAGCAAT"
chr4_187444538_187444683_145+_F11	5	12	1940.07	+	site "TTTTCAAT"
chr4_187444538_187444683_145+_F11	37	44	1345.5	+	site "TTTGGAAT"
chr4_187444538_187444683_145+_F11	228	235	1320.87	+	site "TTTTCAAT"
chr10_115332913_115333194_281+_HABP2	45	52	805.902	+	site "TTATCATA"
chr12_55891469_55891651_182+_LRP1	361	368	1097.99	+	site "TTTTGTTT"
chr12_55891469_55891651_182+_LRP1	269	276	1955.17	-	site "TATGCTTT"
chr5_180597174_180597398_224+_GNB2L1	107	114	3367.72	+	site "TTTTGTTT"
chr1_159450531_159450728_197+_NDUFS2	244	251	1551.77	+	site "TTTTCTTA"
chr1_159450531_159450728_197+_NDUFS2	361	368	2997.41	-	site "TTTGCTTT"
chr1_159450531_159450728_197+_NDUFS2	341	348	2150.73	-	site "TTTTCAAT"
chrX_99771315_99771512_197+_TSPAN6	31	38	1938.4	+	site "TTATCTTT"
chr7_95587640_95587957_317+_SLC25A13	72	79	2587.29	+	site "TATGCTTT"
chr7_95587640_95587957_317+_SLC25A13	29	36	1698.3	-	site "TTTTCTTA"
chr7_95587640_95587957_317+_SLC25A13	472	479	1557.39	-	site "TTAGCTTA"
chr7_95587640_95587957_317+_SLC25A13	376	383	896.873	-	site "TTTGGTTA"
chr7_95587640_95587957_317+_SLC25A13	439	446	826.914	-	site "TTTTGAAT"
chr14_73594179_73594494_315+_C14orf45	38	45	1130.14	+	site "TTATCTTA"
chrX_129133071_129133269_198+_RAB33A	33	40	649.516	+	site "TTTTGATA"
chrX_129133071_129133269_198+_RAB33A	180	187	1048.22	-	site "TTAGGAAT"
chr2_63963114_63963307_193+_UGP2	79	86	1069.96	+	site "TTTTCTTT"
chr2_63963114_63963307_193+_UGP2	265	272	1902.39	-	site "TTTGCAAT"
chr2_63963114_63963307_193+_UGP2	301	308	961.004	-	site "TATGCAAT"

chr6_143696111_143696300_189+_AIG1	53	60	1018.65	+	site "TTTTCAATT"
chr6_143696111_143696300_189+_AIG1	160	167	1366.36	-	site "TTTTGATT"
chr12_62496298_62496496_198+_TMEM5	283	290	396.401	+	site "TTATGATA"
chr3_48869824_48870197_373+_SLC25A20	186	193	905.939	+	site "TTTTCTTT"
chr3_48869824_48870197_373+_SLC25A20	144	151	952.327	-	site "TTAGCTTA"
chr1_40206574_40206803_229+_MFSD2	184	191	408.155	+	site "TTAGGATT"
chr12_107818348_107818612_264+_DAO	412	419	1632.18	+	site "TTAGGTTT"
chr9_130904527_130904691_164+_CRAT	23	30	3324.15	+	site "TTTGCTTA"
chr17_21954277_21954475_198+_---	309	316	1201.47	+	site "TATGCATA"
chr17_21954277_21954475_198+_---	315	322	2017.08	-	site "TTATCTTA"
chr17_21954277_21954475_198+_---	280	287	1938.4	-	site "TTATCTTT"
chr17_21954277_21954475_198+_---	202	209	1042.5	-	site "TATGCTTT"
chr1_219001635_219001825_190+_MOSC2	294	301	1126.01	+	site "TTATGTTT"
chr9_18194919_18195117_198+_---	313	320	564.242	+	site "TATTGTTT"
chr15_46914376_46914574_198+_SHC4	124	131	691.957	+	site "TATTGTTA"
chr15_46914376_46914574_198+_SHC4	382	389	597.913	+	site "TATGCATA"
chr15_46914376_46914574_198+_SHC4	382	389	821.355	-	site "TATGCATA"
chr1_53235320_53235517_197+_SCP2	306	313	1314.07	+	site "TATTCTTA"
chr5_140007242_140007423_181+_NDUFA2	170	177	2171.01	+	site "TTTTCTTT"
chr15_88431380_88431526_146+_IDH2	24	31	1144.81	+	site "TTTGATT"
chr17_35332332_35332462_130+_ORMDL3	82	89	1231.42	+	site "TTTTCTTT"
chr17_35332332_35332462_130+_ORMDL3	273	280	1122.01	+	site "TATGCTTT"
chr17_35332332_35332462_130+_ORMDL3	258	265	708.302	-	site "TTATGTTT"
chr10_79465034_79465354_320+_RPS24	409	416	1630.35	+	site "TTAGGTTT"
chr2_201211120_201211301_181+_AOX1	246	253	1045.01	+	site "TATTGTTT"
chr2_211178014_211178248_234+_CPS1	43	50	1767.96	+	site "TTTTCTTT"
chr2_211178014_211178248_234+_CPS1	285	292	1432.82	+	site "TTTGTTT"
chr2_211178014_211178248_234+_CPS1	390	397	1389.01	-	site "TATTCTTA"
chr1_62839314_62839512_198+_ANGPTL3	104	111	1796.43	+	site "TTTTGTTT"

chr1_145125240_145125381_141_+_FMO5	217	224	873.215	+	site "TATGCATA"
chr1_145125240_145125381_141_+_FMO5	217	224	960.572	-	site "TATGCATA"
chrX_9601456_9601654_198_+_TBL1X	206	213	1380.55	+	site "TTTTGATT"
chrX_9601456_9601654_198_+_TBL1X	159	166	1217.22	+	site "TTTTCATATA"
chrX_9601456_9601654_198_+_TBL1X	85	92	998.955	-	site "TTTTCTTT"
chr2_102985349_102985547_198_+_---	199	206	931.455	+	site "TTTTGTTT"
chr2_102985349_102985547_198_+_---	256	263	924.659	+	site "TTTTGATA"
chr2_102985349_102985547_198_+_---	352	359	1737.53	-	site "TATTCATT"
chr9_129249979_129250173_194_+_RPL12	324	331	1060.07	+	site "TTTTCATTT"
chr9_129249979_129250173_194_+_RPL12	282	289	954.699	-	site "TATGGTTT"
chr16_88155471_88155668_197_+_RPL13	51	58	634.974	+	site "TTATGATT"
chr17_53522880_53523539_659_+_DYNLL2	442	449	1164.73	+	site "TTTTGATT"
chr17_53522880_53523539_659_+_DYNLL2	238	245	1462.71	-	site "TTTTGTTT"
chr11_101773436_101773593_157_+_TMEM123	211	218	1303.17	+	site "TTTTCATTT"
chr11_101773436_101773593_157_+_TMEM123	123	130	1349.03	-	site "TTTGCTTT"
chr11_101773436_101773593_157_+_TMEM123	273	280	1120.17	-	site "TTTTCTTT"
chr11_101773436_101773593_157_+_TMEM123	243	250	899.288	-	site "TTTTCATTT"
chr4_140844575_140844892_317_+_MGST2	71	78	1025.76	+	site "TTATGATT"
chr2_215980110_215980361_251_+_FN1	256	263	1231.35	+	site "TTTGCTTA"
chr3_153014541_153014789_248_+_AADAC	78	85	572.383	+	site "TAATGTTT"
chr1_17226789_17226987_198_+_SDHB	71	78	860.418	+	site "TTATGTTA"
chr20_61836496_61836692_196_+_ZGPAT	20	27	699.418	+	site "TTTGATT"
chr14_60259185_60259383_198_+_SIX4	130	137	795.833	+	site "TAAGCTTT"
chr1_87101055_87101616_561_+_15-Sep	590	597	1843.45	+	site "TTTTCTTA"
chr1_87101055_87101616_561_+_15-Sep	673	680	1439.45	+	site "TTTTCTTT"
chr1_87101055_87101616_561_+_15-Sep	660	667	1196.19	+	site "TTTTGTTT"
chr1_87101055_87101616_561_+_15-Sep	423	430	1643.52	-	site "TTTTGATT"
chr11_64635517_64635788_271_+_C11orf2	238	245	1643.31	+	site "TTTTGTTT"
chr2_201182274_201182442_168_+_AOX1	184	191	2529.17	+	site "TATGCTTT"

chr2_201182274_201182442_168_+_AOX1	352	359	1266.71	+	site "TATTCTTT"
chr6_64344388_64344581_193_+_PTP4A1	368	375	759.008	+	site "TAATCTTA"
chr6_64344388_64344581_193_+_PTP4A1	58	65	1363.04	-	site "TATTCTTA"
chr11_62835347_62835565_218_+_SLC22A10	181	188	1374.68	+	site "TTTGATT"
chr11_62835347_62835565_218_+_SLC22A10	337	344	2380.97	-	site "TTTTGTTT"
chr17_61643948_61644134_186_+_APOH	126	133	699.115	+	site "TATTGTTA"
chr17_61643948_61644134_186_+_APOH	134	141	2252.23	-	site "TTTGCTTT"
chr17_61643948_61644134_186_+_APOH	20	27	1140.79	-	site "TTTGGTTA"
chr19_53579348_53579544_196_+_KDELR1	285	292	1157.47	+	site "TTATGTTT"
chr19_53579348_53579544_196_+_KDELR1	354	361	1410.73	-	site "TTATCATT"
chr17_69711598_69711777_179_+_RPL38	352	359	1575.37	+	site "TTTTCTTT"
chr9_127042801_127043050_249_+_HSPA5	352	359	3692.23	+	site "TTTGCTTT"
chr8_22332997_22333177_180_+_SLC39A14	100	107	1145.45	+	site "TATGCTTT"
chr19_11422485_11422791_306_+_PRKCSH	211	218	612.624	+	site "TATTCTTT"
chr19_11422485_11422791_306_+_PRKCSH	379	386	1058.75	-	site "TATGGATT"
chr7_127516771_127516983_212_+_SND1	128	135	749.035	+	site "TAATCTTA"
chr15_88150159_88150437_278_+_ANPEP	340	347	2418.18	+	site "TTTGCTTT"
chr3_11054855_11055068_213_+_SLC6A1	259	266	2210.3	+	site "TTTGCTTT"
chr3_11054855_11055068_213_+_SLC6A1	199	206	2546.54	-	site "TTTGCTTA"
chrX_119448814_119449006_192_+_LAMP2	210	217	1439.45	+	site "TTTTCTTT"
chrX_119448814_119449006_192_+_LAMP2	232	239	1161.71	-	site "TATGGTTA"
chrX_119448814_119449006_192_+_LAMP2	351	358	1030.01	-	site "TTTTCTTT"
chr9_85448253_85448413_160_+_C9orf103	124	131	1837.84	+	site "TATTCTTA"
chr9_85448253_85448413_160_+_C9orf103	90	97	496.867	-	site "TATTGTTT"
chr14_23838040_23838200_160_+_DHRS1	40	47	653.168	+	site "TATTGTTA"
chr5_151022196_151022573_377_+_SPARC	385	392	1938.93	+	site "TATGCATT"
chr11_6591802_6592044_242_+_TPP1	33	40	533.168	+	site "TATTCATA"
chr5_137934556_137934752_196_+_HSPA9	262	269	708.256	+	site "TTTTGATA"
chr17_76688295_76688485_190_+_BAIAP2	167	174	2689.7	+	site "TTTGCTTA"

chr5_36229564_36229754_190+_C5orf33	96	103	403.403	+	site "TAAGGTTT"
chr5_36229564_36229754_190+_C5orf33	37	44	581.319	-	site "TTATCATA"
chr3_48420646_48420835_189+_PLXNB1	15	22	2445.66	+	site "TTTTCTTT"
chr3_48420646_48420835_189+_PLXNB1	334	341	1935.6	+	site "TTTGTTTT"
chr3_48420646_48420835_189+_PLXNB1	104	111	1814.28	-	site "TATGCTTT"
chr6_53470885_53471071_186+_GCLC	306	313	1069.96	+	site "TTTTCTTT"
chr2_55054393_55054574_181+_RTN4	216	223	2562.86	+	site "TTTTCTTA"
chr2_55054393_55054574_181+_RTN4	278	285	1986.26	-	site "TTTGCTTT"
chr2_55054393_55054574_181+_RTN4	87	94	1897.59	-	site "TTTGCTTA"
chr17_39511408_39511583_175+_HDAC5	360	367	1596.77	+	site "TTTTCTTT"
chr17_39511408_39511583_175+_HDAC5	210	217	1959.17	-	site "TTTTCTTT"
chr17_39511408_39511583_175+_HDAC5	77	84	1508.43	-	site "TTTTGTTA"
chr17_39511408_39511583_175+_HDAC5	352	359	1234.05	-	site "TTTTGATT"
chr14_89661197_89661415_218+_KCNK13	316	323	2445.66	+	site "TTTTCTTT"
chr14_89661197_89661415_218+_KCNK13	94	101	1095.76	+	site "TATTCATT"
chr14_89661197_89661415_218+_KCNK13	246	253	901.951	-	site "TTTTGATA"
chr14_89661197_89661415_218+_KCNK13	78	85	708.293	-	site "TATGCTTA"
chr5_149806502_149806803_301+_RPS14	265	272	834.265	+	site "TTTTCATA"
chr4_170018588_170018806_218+_PALLD	288	295	1101.6	+	site "TTTGCAAT"
chr3_134955058_134955330_272+_TF	388	395	630.176	+	site "TATTGTTT"
chr3_134955058_134955330_272+_TF	396	403	773.992	-	site "TTATCAAT"
chr1_57171542_57171828_286+_C8B	81	88	1557.96	+	site "TTATCTTT"
chr1_57171542_57171828_286+_C8B	266	273	671.183	+	site "TTTGCAAT"
chr1_57171542_57171828_286+_C8B	330	337	1710.34	-	site "TATGCAAT"
chr10_106016967_106017231_264+_GSTO1	145	152	984.9	+	site "TTTGTTTT"
chr6_169613075_169613273_198+_WDR27	132	139	1678.62	+	site "TTTTGTTT"
chr1_57144890_57145135_245+_C8A	98	105	1698.3	+	site "TTTTCTTA"
chr12_110722013_110722334_321+_ALDH2	457	464	2768.36	+	site "TTTTGTTT"
chr12_110722013_110722334_321+_ALDH2	141	148	672.378	-	site "TATTGATA"

chr12_126216748_126217023_275_+_---	338	345	1177.78	+	site "TATTCTTT"
chr4_88455615_88455811_196_+_HSD17B13	79	86	2257.07	+	site "TTATCTTA"
chr22_48710029_48710227_198_+_CRELD2	55	62	644.277	+	site "TTATCATT"
chr14_36798343_36798541_198_+_MIPOL1	4	11	793.081	+	site "TTTTGATT"
chr15_43444220_43444440_220_+_GATM	173	180	2009.47	+	site "TTTTGTTT"
chr15_43444220_43444440_220_+_GATM	358	365	1428.43	+	site "TTTGCATT"
chr15_43444220_43444440_220_+_GATM	265	272	879.241	+	site "TTTTGTTT"
chr15_43444220_43444440_220_+_GATM	407	414	2179	-	site "TTTGCTTT"
chr15_43444220_43444440_220_+_GATM	193	200	1641.48	-	site "TATGCTTT"
chr5_115168352_115168474_122_+_CDO1	198	205	1039.7	+	site "TATTGTTT"
chr1_19194884_19195082_198_+_---	361	368	3367.72	+	site "TTTTGTTT"
chr2_219385159_219385364_205_+_CYP27A1	393	400	1586.43	+	site "TTTGTTT"
chr1_180564733_180564931_198_+_---	293	300	1541.39	+	site "TTAGCTTA"
chr1_180564733_180564931_198_+_---	307	314	1308.9	+	site "TTTTGTTT"
chr1_180564733_180564931_198_+_---	330	337	1471.16	-	site "TTTTGATT"
chr2_119738442_119738934_492_+_STEAP3	631	638	984.9	+	site "TTTGTTT"
chr2_119738442_119738934_492_+_STEAP3	9	16	1370.79	-	site "TTTGTTT"
chr9_5084389_5084587_198_+_JAK2	315	322	1685.91	+	site "TTTTCTTT"
chr9_5084389_5084587_198_+_JAK2	347	354	1259.5	+	site "TTTGCTTT"
chr9_5084389_5084587_198_+_JAK2	73	80	1734.63	-	site "TTTTGATT"
chr12_2782957_2783113_156_+_FKBP4	45	52	2957	+	site "TTTGCTTT"
chr12_2782957_2783113_156_+_FKBP4	155	162	1282.46	-	site "TTAGGTTA"
chr1_120086970_120087239_269_+_PHGDH	50	57	2963.78	+	site "TTTGCTTT"
chr1_120086970_120087239_269_+_PHGDH	347	354	2362.2	+	site "TTTGTTT"
chr5_133560686_133560884_198_+_PPP2CA	270	277	962.952	+	site "TTAGGTTA"
chr5_133560686_133560884_198_+_PPP2CA	160	167	1173.55	-	site "TTTGATT"
chr5_133560686_133560884_198_+_PPP2CA	214	221	637.562	-	site "TTTTCATA"
chr6_142808416_142808628_212_+_GPR126	380	387	783.037	+	site "TATTCATT"
chr6_142808416_142808628_212_+_GPR126	133	140	1267.57	-	site "TATTGTTT"

chr15_73008480_73008670_190_+_COX5A	293	300	692.046	+	site "TTTGCATA"
chr9_4850133_4850695_562_+_RCL1	109	116	857.023	+	site "TATTGATA"
chr9_4850133_4850695_562_+_RCL1	674	681	489.973	-	site "TTAGCATT"
chr16_2757243_2757441_198_+_SRRM2	136	143	739.673	+	site "TATGCATT"
chr3_185532162_185532357_195_+_EIF4G1	95	102	1349.28	+	site "TATGCATT"
chr3_185532162_185532357_195_+_EIF4G1	51	58	1059.19	+	site "TATTCATA"
chr3_185532162_185532357_195_+_EIF4G1	281	288	1685.91	-	site "TTTTCTTT"
chr3_185532162_185532357_195_+_EIF4G1	66	73	1396.11	-	site "TTTTCTTT"
chr2_26359164_26359359_195_+_HADHB	359	366	1686.69	+	site "TTATCATT"
chr2_26359164_26359359_195_+_HADHB	287	294	2064.92	-	site "TTATCTTT"
chr1_40207785_40208093_308_+_MFSD2	307	314	918.28	+	site "TTTGGATA"
chr11_63068715_63068936_221_+_RARRES3	65	72	1489.55	+	site "TTTTCTTA"
chr3_187745113_187745311_198_+_CRYGS	248	255	897.16	+	site "TTATCATA"
chr4_109762510_109762704_194_+_RPL34	183	190	807.992	+	site "TTATGATT"
chr4_109762510_109762704_194_+_RPL34	325	332	586.267	-	site "TAATCTTT"
chr10_85893685_85893868_183_+_GHITM	27	34	1413.61	+	site "TTTGGTTT"
chr6_82936709_82936877_168_+_IBTK	117	124	1422.46	+	site "TTTGCATT"
chr6_82936709_82936877_168_+_IBTK	89	96	2198.87	-	site "TTTGCTTA"
chr17_37099602_37099761_159_+_EIF1	176	183	512.47	+	site "TATGCATT"
chr17_37099602_37099761_159_+_EIF1	190	197	1469.43	-	site "TTATGTTT"
chr7_127017315_127017503_188_+_ARF5	149	156	1140.96	+	site "TATGCTTA"
chr7_127017315_127017503_188_+_ARF5	342	349	2048.42	-	site "TTTGCTTA"
chr7_127017315_127017503_188_+_ARF5	180	187	1527.65	-	site "TTTTCTTT"
chr7_127017315_127017503_188_+_ARF5	276	283	959.768	-	site "TTTTGTTT"
chr9_103163756_103164199_443_+_BAAT	31	38	2227.66	+	site "TTTTGTTT"
chr20_29620586_29621020_434_+_HM13	343	350	1575.37	+	site "TTTTCTTT"
chr20_29620586_29621020_434_+_HM13	333	340	1217.52	+	site "TTTTGATT"
chr20_29620586_29621020_434_+_HM13	200	207	928.506	-	site "TTATGATT"
chr21_43353568_43353760_192_+_CBS	351	358	1467.87	+	site "TATGCATA"

chr21_43353568_43353760_192+_CBS	85	92	1123.1	-	site "TTTTGTTA"
chr4_100445848_100446232_384+_ADH1B	53	60	1869.2	+	site "TTTTCTTT"
chr19_14538651_14538817_166+_NDUFB7	22	29	1289.79	+	site "TTATCATA"
chr10_105138810_105139003_193+_USMG5	379	386	526.901	+	site "TTTTGATA"
chr10_105138810_105139003_193+_USMG5	368	375	705.461	-	site "TATTGTTT"
chr11_16219337_16219535_198+_SOX6	25	32	397.472	+	site "TAATGTTT"
chr10_106015853_106015991_138+_GSTO1	39	46	2240.76	+	site "TATTCTTA"
chr10_106015853_106015991_138+_GSTO1	222	229	971.888	+	site "TTATGATT"
chr10_106015853_106015991_138+_GSTO1	105	112	778.892	+	site "TAATCTTT"
chr10_106015853_106015991_138+_GSTO1	329	336	874.29	-	site "TTTGTTTA"
chr11_77461653_77461881_228+_NDUFC2	11	18	1536.99	+	site "TTAGCTTT"
chrX_129091637_129091859_222+_AIFM1	410	417	2209.63	+	site "TTAGCTTT"
chr1_169326624_169326803_179+_FMO3	266	273	1026.41	+	site "TTTGCATA"
chr1_169326624_169326803_179+_FMO3	294	301	637.562	-	site "TTTTCATA"
chr2_160336494_160336709_215+_CD302	55	62	1582.43	+	site "TATTCTTA"
chr2_160336494_160336709_215+_CD302	303	310	905.939	+	site "TTTTCTTT"
chr9_122776870_122777072_202+_C5	380	387	1095.76	+	site "TATTCATT"
chr7_94834620_94834768_148+_PON3	6	13	1707.16	+	site "TTTTCTTT"
chr7_94834620_94834768_148+_PON3	329	336	593.633	-	site "TTAGCATT"
chr6_44328839_44329115_276+_HSP90AB1	219	226	694.879	+	site "TATTGTTT"
chr2_232028940_232029141_201+_NCL	8	15	1030.01	+	site "TTTTCTTT"
chr2_232028940_232029141_201+_NCL	364	371	978.769	+	site "TTTTCATA"
chr2_232028940_232029141_201+_NCL	258	265	884.382	-	site "TATTCTTT"
chr2_197973751_197973928_177+_SF3B1	235	242	1796.43	+	site "TTTTGTTT"
chr1_15782296_15782466_170+_AGMAT	354	361	1394.61	+	site "TTTTCAATT"
chr1_15782296_15782466_170+_AGMAT	4	11	1571.85	-	site "TATTGTTT"
chr6_138767977_138768155_178+_HEBP2	265	272	1628.87	+	site "TTATGTTA"
chr6_138767977_138768155_178+_HEBP2	199	206	1480.77	-	site "TTTTGTTT"
chr15_63042488_63042707_219+_SPG21	333	340	1197.42	+	site "TTAGCATT"

chr15_63042488_63042707_219+_SPG21	235	242	679.762	-	site "TTAGGATT"
chr8_22333288_22333470_182+_SLC39A14	358	365	546.927	+	site "TAAGCTTT"
chr1_154294717_154294897_180+_MAPBPIP	327	334	1161.17	+	site "TTTGATT"
chr10_124803408_124803588_180+_ACADSB	59	66	953.391	+	site "TATTCTTA"
chr10_124803408_124803588_180+_ACADSB	86	93	1151.21	-	site "TATTCATA"
chr1_202382376_202382561_185+_ETNK2	153	160	907.953	+	site "TTTTCAATT"
chr6_43256918_43257094_176+_SRF	250	257	1938.05	+	site "TATTCTTT"
chr6_43256918_43257094_176+_SRF	134	141	1045.13	-	site "TTTTGATA"
chr1_219053767_219054086_319+_MOSC1	16	23	729.137	+	site "TTAGCTTT"
chr1_219053767_219054086_319+_MOSC1	322	329	2263.48	-	site "TTTTCTTT"
chr1_219053767_219054086_319+_MOSC1	346	353	1616.99	-	site "TTTGTTA"
chr1_219053767_219054086_319+_MOSC1	498	505	1245.84	-	site "TTTTGTTA"
chr8_96008773_96009136_363+_TP53INP1	36	43	1065.16	+	site "TTATCTTT"
chr8_96008773_96009136_363+_TP53INP1	1	8	1217.22	-	site "TTTTCATA"
chr22_18244597_18244795_198+_TXNRD2	5	12	637.921	+	site "TAATCTTT"
chr1_232808943_232809139_196+_IRF2BP2	80	87	2410.2	+	site "TTATGTTA"
chr9_135220285_135220446_161+_SURF4	94	101	1096.78	+	site "TATTGTTA"
chr9_135220285_135220446_161+_SURF4	211	218	1303.17	-	site "TTTTCAATT"
chr1_43861553_43861833_280+_PTPRF	17	24	1477.03	+	site "TTTTCATA"
chr7_66060695_66060943_248+_C7orf42	413	420	1969.44	+	site "TTATCTTT"
chr7_66060695_66060943_248+_C7orf42	223	230	1944.52	-	site "TTTTCAATT"
chr6_2893378_2893579_201+_SERPINB6	26	33	1259.5	+	site "TTTGCTTT"
chr1_150054311_150054502_191+_RORC	30	37	428.895	+	site "TTATGATA"
chr1_150054311_150054502_191+_RORC	31	38	1396.17	-	site "TTATCATA"
chr5_118860123_118860305_182+_HSD17B4	279	286	1535.15	+	site "TATTGTTA"
chr5_118860123_118860305_182+_HSD17B4	360	367	418.825	-	site "TTATGATA"
chr6_46728186_46728336_150+_CYP39A1	47	54	1580.15	+	site "TTAGGTTT"
chr1_148752408_148752546_138+_ECM1	4	11	2829.87	+	site "TTTGCTTT"
chr15_88574558_88574694_136+_CIB1	260	267	608.409	+	site "TAATCTTT"

chr11_74789369_74789485_116_+_RPS3	226	233	769.099	+	site "TTAGGTTA"
chr21_26019386_26019609_223_+_ATP5J	279	286	2289.42	+	site "TTATCTTT"
chr21_26019386_26019609_223_+_ATP5J	81	88	1547.33	+	site "TATGCATT"
chr21_26019386_26019609_223_+_ATP5J	181	188	953.694	+	site "TAATCTTT"
chr21_26019386_26019609_223_+_ATP5J	237	244	1678.62	-	site "TTTTGTTT"
chr21_26019386_26019609_223_+_ATP5J	384	391	1336.63	-	site "TTATCATT"
chr9_38386432_38386663_231_+_ALDH1B1	365	372	575.663	+	site "TAATCTTT"
chr9_38386432_38386663_231_+_ALDH1B1	360	367	1267.82	-	site "TTATGTTA"
chr3_129833431_129833697_266_+_RPN1	442	449	1180.24	+	site "TATGGTTA"
chr3_129833431_129833697_266_+_RPN1	167	174	893.591	-	site "TAATCTTT"
chr6_89847258_89847506_248_+_PNRC1	176	183	2019.75	+	site "TTTTCTTA"
chr6_89847258_89847506_248_+_PNRC1	371	378	1095.76	+	site "TATTCATT"
chr6_89847258_89847506_248_+_PNRC1	20	27	920.818	+	site "TTTGGTTT"
chr6_89847258_89847506_248_+_PNRC1	114	121	2210.3	-	site "TTTGCTTT"
chr6_89847258_89847506_248_+_PNRC1	303	310	992.063	-	site "TTTTCATA"
chr19_45824852_45825065_213_+_LTBP4	119	126	653.168	+	site "TATTGTTA"
chr5_156752529_156752752_223_+_CYFIP2	51	58	2074.38	+	site "TATGCTTT"
chr5_156752529_156752752_223_+_CYFIP2	31	38	1998.4	-	site "TTTGGTTA"
chr16_4598866_4599064_198_+_FAM100A	240	247	2325.86	+	site "TTTGCATT"
chr16_66820085_66820282_197_+_RBM35B	52	59	809.784	+	site "TTAGGTTA"
chr16_66820085_66820282_197_+_RBM35B	61	68	1527.65	-	site "TTTTCTTT"
chr16_66820085_66820282_197_+_RBM35B	116	123	1123.1	-	site "TTTTGTTA"
chr16_66820085_66820282_197_+_RBM35B	106	113	762.783	-	site "TATTCATT"
chr1_163916371_163916569_198_+_ALDH9A1	364	371	1571.85	+	site "TATTGTTT"
chr1_163916371_163916569_198_+_ALDH9A1	328	335	644.808	+	site "TAATCTTA"
chr1_163916371_163916569_198_+_ALDH9A1	166	173	1087.94	-	site "TTATCTTA"
chr7_55246175_55246362_187_+_EGFR	374	381	2209.76	+	site "TTATCTTT"
chr16_73704206_73704392_186_+_LDHD	301	308	786.144	+	site "TAATCTTT"
chr13_26899215_26899399_184_+_MTIF3	51	58	1758.94	+	site "TATTCATT"

chr13_26899215_26899399_184_+_MTIF3	352	359	1514.8	-	site "TTTTGTTT"
chr10_90684908_90685092_184_+_ACTA2	224	231	593.597	+	site "TATTCTTT"
chr14_38718046_38718229_183_+_PNN	335	342	827.286	+	site "TATGGATT"
chr19_11317770_11317950_180_+_UNQ501	145	152	3319.11	+	site "TTTGCTTT"
chr1_32571611_32571791_180_+_HDAC1	97	104	1444.6	+	site "TTTTGATT"
chr11_101778015_101778194_179_+_TMEM123	21	28	1287.7	+	site "TTTGCATT"
chr11_101778015_101778194_179_+_TMEM123	331	338	2689.7	-	site "TTTGCTTA"
chr11_101778015_101778194_179_+_TMEM123	86	93	1076.9	-	site "TTTTCTTA"
chr12_9150331_9150504_173_+_A2M	329	336	1448.28	+	site "TATTCTTA"
chr20_47999177_47999349_172_+_ZNF313	238	245	2157.08	+	site "TTTTCTTT"
chr5_1371049_1371219_170_+_CLPTM1L	21	28	1044.8	+	site "TATTCATA"
chr17_76840924_76841094_170_+_MGC15523	202	209	928.362	+	site "TTTGCATA"
chr17_1506443_1506610_167_+_PRPF8	308	315	1074.91	+	site "TATGCTTT"
chr17_1506443_1506610_167_+_PRPF8	44	51	951.607	-	site "TATTGTTA"
chr6_76020448_76020610_162_+_TMEM30A	44	51	1058.37	+	site "TATGCTTT"
chr6_76020448_76020610_162_+_TMEM30A	21	28	1905.92	-	site "TTTTCTTA"
chr1_109575033_109575189_156_+_SARS	214	221	1665.29	+	site "TTTTCTTA"
chr1_109575033_109575189_156_+_SARS	261	268	998.955	-	site "TTTTCTTT"
chr1_218366692_218366843_151_+_IARS2	88	95	1322.41	+	site "TTTGCATA"
chr1_218366692_218366843_151_+_IARS2	190	197	1143.91	-	site "TATTCATA"
chr1_218366692_218366843_151_+_IARS2	123	130	1072.85	-	site "TTTGCATA"
chr6_135312810_135312957_147_+_ALDH8A1	180	187	896.873	+	site "TTTGTTTA"
chr6_135312810_135312957_147_+_ALDH8A1	126	133	477.839	-	site "TTTTGATA"
chr2_232034850_232034991_141_+_NCL	231	238	1389.01	+	site "TATTCTTA"
chr16_65820581_65820709_128_+_HSPC171	79	86	1177.86	+	site "TTTGCATA"
chr16_65530570_65530757_187_+_CES2	84	91	1412.33	+	site "TTTGCTTT"
chr16_65530570_65530757_187_+_CES2	226	233	1009.19	-	site "TTATCTTT"
chr1_169351948_169352130_182_+_FMO3	282	289	998.955	+	site "TTTTCTTT"
chr3_151941604_151941938_334_+_SIAH2	335	342	1618.33	+	site "TTAGGTTA"

chr3_151941604_151941938_334_+_SIAH2	528	535	1305.14	-	site "TATTCTTA"
chr6_64349756_64349943_187_+_PTP4A1	150	157	852.193	+	site "TTATGATA"
chr6_64349756_64349943_187_+_PTP4A1	4	11	1704.67	-	site "TATGCATT"
chr22_35792844_35793004_160_+_TMPRSS6	143	150	869.988	+	site "TATTCATT"
chr1_153411825_153411988_163_+_KRTCAP2	307	314	1684.84	+	site "TATTCTTA"
chr1_45517641_45517839_198_+_GLOXD1	44	51	1727.4	+	site "TTTGCTTA"
chr1_10413037_10413235_198_+_APITD1	359	366	1154.88	+	site "TTTTCAATT"
chr1_10413037_10413235_198_+_APITD1	150	157	2345.3	-	site "TTTTCTTT"
chr1_10413037_10413235_198_+_APITD1	136	143	1477.67	-	site "TTTTCAATT"
chr4_185961503_185961749_246_+_ACSL1	420	427	1614.84	+	site "TTAGCAATT"
chr12_50737134_50737361_227_+_NR4A1	95	102	1767.96	+	site "TTTTCTTT"
chr12_50737134_50737361_227_+_NR4A1	140	147	1393.73	-	site "TTTTGTTA"
chr22_49061372_49061562_190_+_MAPK11	288	295	1551.01	+	site "TTATCTTT"
chr1_150046245_150046429_184_+_RORC	306	313	2260.27	+	site "TTTTCTTA"
chr7_148331119_148331294_175_+_PDIA4	206	213	353.014	+	site "TAATGTTT"
chr17_34170225_34170379_154_+_PSMB3	342	349	1097.6	+	site "TTTTCTTT"
chrX_45613889_45614087_198_+_---	39	46	1202.46	+	site "TATTCATT"
chrX_45613889_45614087_198_+_---	310	317	1605.27	-	site "TTTTGTTT"
chrX_117812095_117812304_209_+_IL13RA1	54	61	630.176	+	site "TATTGTTT"
chr22_48814842_48815040_198_+_FLJ41993	354	361	2479.86	+	site "TTTGTTTA"
chr2_145007038_145007235_197_+_ZFH1B	343	350	978.32	+	site "TATTGTTA"
chr2_145007038_145007235_197_+_ZFH1B	212	219	796.448	-	site "TATTCATA"
chr19_16104971_16105164_193_+_RAB8A	301	308	1067.86	+	site "TTTTGATT"
chr19_16104971_16105164_193_+_RAB8A	226	233	882.795	-	site "TATGGATA"
chr9_122799712_122799904_192_+_C5	270	277	1340.18	+	site "TTTTCATA"
chr2_216779059_216779248_189_+_XRCC5	290	297	981.887	+	site "TTTGCAATT"
chr2_216779059_216779248_189_+_XRCC5	182	189	1346.68	-	site "TATTCTTT"
chr16_20336898_20337065_167_+_FLJ20581	359	366	1363.04	+	site "TATTCTTA"
chr1_150045694_150045859_165_+_RORC	21	28	916.75	+	site "TTTTGTTT"

chr5_135310773_135311143_370+_LECT2	346	353	1248.92	+	site "TTTGCATT"
chr5_135310773_135311143_370+_LECT2	393	400	1211.66	-	site "TATGGTTT"
chr2_211173532_211173724_192+_CPS1	325	332	1750.84	+	site "TTTTGTTT"
chr2_211173532_211173724_192+_CPS1	37	44	1380.65	+	site "TTAGCTTT"
chr2_211173532_211173724_192+_CPS1	260	267	1049	-	site "TATTCTTA"
chr11_57008586_57008948_362+_SLC43A1	250	257	1263.7	+	site "TTTTCAAT"
chr1_11995133_11995472_339+_MFN2	130	137	1182.67	+	site "TTTTCATA"
chr7_134305068_134305591_523+_CALD1	549	556	1342.79	+	site "TTTTCTTT"
chr8_91100247_91100443_196+_DECR1	189	196	1087.13	+	site "TTTTCTTT"
chr15_99388254_99388452_198+_LRRK1	327	334	1574.66	+	site "TTTTCAAT"
chr15_99388254_99388452_198+_LRRK1	43	50	984.9	-	site "TTTGGTTT"
chr10_124803253_124803397_144+_ACADSB	214	221	953.391	+	site "TATTCTTA"
chr10_124803253_124803397_144+_ACADSB	241	248	1151.21	-	site "TATTCATA"
chrX_102817108_102817288_180+_MORF4L2	225	232	1369.75	+	site "TTAGGTTT"
chrX_102817108_102817288_180+_MORF4L2	372	379	1981.61	-	site "TTTGCTTT"
chr3_127356082_127356239_157+_ALDH1L1	38	45	2168.83	+	site "TTATCTTA"
chr3_127356082_127356239_157+_ALDH1L1	193	200	1884.43	+	site "TTTTGTTT"
chr3_127356082_127356239_157+_ALDH1L1	312	319	1708.11	+	site "TTTGGTTT"
chr9_126662348_126662463_115+_RPL35	259	266	593.597	+	site "TATTCTTT"
chr9_126662348_126662463_115+_RPL35	120	127	1106.26	-	site "TTTTCTTA"
chr5_74692148_74692508_360+_HMGCR	156	163	1669.75	+	site "TTTGGTTA"
chr3_52301346_52301785_439+_GLYCTK	40	47	1602.9	+	site "TTTGGTTT"
chr3_52301346_52301785_439+_GLYCTK	348	355	1939.73	-	site "TTTTGTTT"
chr3_52301346_52301785_439+_GLYCTK	510	517	1394.96	-	site "TTTGGTTA"
chr3_52301346_52301785_439+_GLYCTK	97	104	1196.19	-	site "TTTTGTTT"
chr3_52301346_52301785_439+_GLYCTK	167	174	1026.19	-	site "TTTTCTTT"
chr3_52301346_52301785_439+_GLYCTK	339	346	1018.65	-	site "TTTTCAAT"
chr14_23979118_23979404_286+_C14orf124	187	194	925.121	+	site "TATTCTTA"
chr21_46249161_46249431_270+_COL6A1	149	156	1681.18	+	site "TTTGGTTT"

chr4_155705972_155706170_198+_FGB	122	129	1615.73	+	site "TTTGCTTT"
chr4_155705972_155706170_198+_FGB	275	282	1334.2	+	site "TTTTGTTA"
chr14_49158433_49158631_198+_MGAT2	260	267	1156.39	+	site "TATTCATT"
chr8_61696536_61696730_194+_RAB2	340	347	3278.09	+	site "TTTGCTTT"
chr8_61696536_61696730_194+_RAB2	306	313	2024.23	+	site "TTATGTTA"
chr3_102887354_102887540_186+_RPL24	19	26	1459.64	+	site "TTTGGTTA"
chr3_102887354_102887540_186+_RPL24	358	365	1605.27	-	site "TTTTGTTT"
chr3_46516911_46517095_184+_RTP3	371	378	707.297	+	site "TAATCTTT"
chr17_46115956_46116141_185+_ABCC3	31	38	1387.23	+	site "TATGCATT"
chr14_22565261_22565441_180+_PSMB5	288	295	909.615	+	site "TTATGTTT"
chr2_201013628_201013806_178+_DNAPTP6	278	285	1105.89	+	site "TTTTGATA"
chr2_201013628_201013806_178+_DNAPTP6	291	298	1183.87	-	site "TTTTGTTT"
chr20_3578594_3578768_174+_ATRN	179	186	1150.51	+	site "TTTTGTTT"
chr22_20328351_20328524_173+_SDF2L1	18	25	489.973	+	site "TTAGCATT"
chr20_35864677_35864850_173+_CTNNBL1	364	371	1117.66	+	site "TTATGTTT"
chr3_187988800_187988968_168+_EIF4A2	44	51	2345.3	+	site "TTTTCTTT"
chr3_187988800_187988968_168+_EIF4A2	156	163	941.091	-	site "TTTTGTTT"
chr12_51630826_51630993_167+_KRT18	98	105	848.205	+	site "TTTTGTTA"
chr12_110944314_110944477_163+_ERP29	108	115	1386.11	+	site "TTTTGTTT"
chr12_110944314_110944477_163+_ERP29	250	257	1447.22	-	site "TTTGCATT"
chr2_204007676_204007832_156+_RAPH1	231	238	1293.84	+	site "TTTGCTTT"
chr17_52552672_52552830_158+_AKAP1	336	343	1087.13	+	site "TTTTCTTT"
chr3_95087840_95087996_156+_PROS1	228	235	1786.32	+	site "TTTTCTTT"
chr3_95087840_95087996_156+_PROS1	299	306	1151.21	-	site "TATTCATA"
chr3_33158990_33159145_155+_CRTAP	70	77	1380.65	+	site "TTAGCTTT"
chr6_150159235_150159388_153+_PCMT1	320	327	935.393	+	site "TTATCATA"
chr6_150159235_150159388_153+_PCMT1	321	328	742.046	-	site "TTATGATA"
chr3_49037324_49037477_153+_IMPDH2	1	8	3018.57	+	site "TTTTCTTT"
chr3_49037324_49037477_153+_IMPDH2	26	33	1590.1	+	site "TTTTCTTT"

chr3_31653723_31653874_151_+_STT3B	228	235	1756.88	+	site "TTATGTTT"
chr2_113137696_113137845_149_+_SLC20A1	195	202	2925.44	+	site "TTATCTTT"
chr2_113137696_113137845_149_+_SLC20A1	234	241	1737.56	-	site "TATGCTTA"
chr14_87632971_87633120_149_+_---	89	96	1689.55	+	site "TATTCTTT"
chr14_87632971_87633120_149_+_---	32	39	1040.12	-	site "TTATCATA"
chr8_30762967_30763106_139_+_PPP2CB	156	163	434.631	+	site "TTAGCATA"
chr11_62041235_62041383_148_+_AHNAK	5	12	667.819	+	site "TTATGTTA"
chr3_127683859_127684006_147_+_UROC1	280	287	1410.36	+	site "TTATCTTT"
chr3_127683859_127684006_147_+_UROC1	21	28	534.674	-	site "TTAGGATT"
chr2_47242387_47242533_146_+_CALM2	239	246	2642.02	+	site "TTATCTTT"
chr20_33599626_33599771_145_+_ERGIC3	292	299	2098.05	+	site "TTTGCAAT"
chr22_49060232_49060369_137_+_MAPK11	187	194	1445.14	+	site "TATTCTTT"
chr17_70256904_70257039_135_+_SLC9A3R1	222	229	942.688	+	site "TTATCAAT"
chr14_76863962_76864145_183_+_GSTZ1	5	12	1120.17	+	site "TTTTCTTT"
chr14_76863962_76864145_183_+_GSTZ1	248	255	884.382	-	site "TATTCTTT"
chr5_74686070_74686199_129_+_HMGCR	232	239	533.168	+	site "TATTCATA"
chr5_74686070_74686199_129_+_HMGCR	224	231	608.772	-	site "TTAGCAAT"
chr7_55245828_55245949_121_+_EGFR	277	284	992.063	+	site "TTTTCATA"
chr7_55245828_55245949_121_+_EGFR	128	135	1060.42	-	site "TATTCATT"
chrX_48345170_48345289_119_+_WDR13	95	102	599.53	+	site "TTAGGTTA"
chr2_204012454_204012566_112_+_RAPH1	301	308	1047.97	+	site "TTAGGTTT"
chr2_204012454_204012566_112_+_RAPH1	220	227	482.099	-	site "TTATCATA"
chr2_54711619_54711730_111_+_SPTBN1	261	268	1906.76	+	site "TATGCTTA"
chr2_54711619_54711730_111_+_SPTBN1	168	175	1185.24	-	site "TTAGCAAT"
chr13_30608908_30609015_107_+_HSPH1	285	292	1617.77	+	site "TTTTCTTT"
chr13_30608908_30609015_107_+_HSPH1	176	183	879.241	+	site "TTTTGTTT"
chr13_30608908_30609015_107_+_HSPH1	70	77	342.471	-	site "TAATCAAT"
chr15_73718861_73718967_106_+_IMP3	216	223	1984.85	+	site "TATTCTTA"
chr11_66088926_66089112_186_+_CTSF	204	211	3578.1	+	site "TTTGCTTA"

chr20_5028606_5028804_198+_C20orf30	379	386	1386.11	+	site "TTTTGTTT"
chr4_3416116_3416311_195+_HGFAC	272	279	1760.24	+	site "TTTGCTTT"
chr8_145701192_145701377_185+_GPT	257	264	1231.46	+	site "TTTGTTTA"
chr6_122806465_122806743_278+_SERINC1	204	211	904.483	+	site "TTAGGTTA"
chr6_122806465_122806743_278+_SERINC1	378	385	941.091	-	site "TTTTGTTT"
chr17_4800540_4800703_163+_ENO3	236	243	2179	+	site "TTTGCTTT"
chr7_123849484_123849682_198+_---	151	158	1281.92	+	site "TATTCTTT"
chr7_123849484_123849682_198+_---	219	226	1026.19	+	site "TTTTCTTT"
chr7_123849484_123849682_198+_---	176	183	834.265	+	site "TTTTCATA"
chr7_123849484_123849682_198+_---	258	265	1069.31	-	site "TATTGTTA"
chr5_17242335_17242533_198+_BASP1	70	77	1940.07	+	site "TTTTCATT"
chr11_24819194_24819392_198+_LUZP2	108	115	868.527	+	site "TATTCATA"
chr11_24819194_24819392_198+_LUZP2	170	177	2089.65	-	site "TTATCTTA"
chr19_54100787_54101000_213+_NUCB1	315	322	1471.46	+	site "TATTCTTT"
chrX_38166616_38166796_180+_OTC	271	278	2157.08	+	site "TTTTCTTT"
chrX_38166616_38166796_180+_OTC	199	206	2314.72	-	site "TTATCTTA"
chr6_49527241_49527423_182+_MUT	185	192	2013.24	+	site "TTTGCTTT"
chr6_49527241_49527423_182+_MUT	53	60	2418.18	-	site "TTTGCTTT"
chr1_70488198_70488344_146+_SFRS11	170	177	1586.43	+	site "TTTGTTTT"
chr1_70488198_70488344_146+_SFRS11	41	48	1872.74	-	site "TTTTCATT"
chr2_162557540_162557715_175+_DPP4	6	13	1030.01	+	site "TTTTCTTT"
chr2_162557540_162557715_175+_DPP4	322	329	1030.01	+	site "TTTTCTTT"
chr3_49429438_49429843_405+_AMT	231	238	1048.34	+	site "TTATCTTT"
chr3_49429438_49429843_405+_AMT	247	254	1196.19	-	site "TTTTGTTT"
chr14_50452293_50452451_158+_PYGL	128	135	1913.06	+	site "TTTTCTTA"
chr6_90410482_90410634_152+_MDN1	242	249	2827.58	+	site "TTTTCTTT"
chr6_90410482_90410634_152+_MDN1	44	51	1917.95	+	site "TTTTCTTT"
chr6_90410482_90410634_152+_MDN1	286	293	582.103	+	site "TATTCTTA"
chr8_61696805_61697035_230+_RAB2	71	78	3278.09	+	site "TTTGCTTT"

chr8_61696805_61697035_230+_RAB2	37	44	2024.23	+	site "TTATGTTA"
chr8_61696805_61697035_230+_RAB2	233	240	885.09	-	site "TTTTCAATT"
chr9_103225498_103225838_340+_ALDOB	299	306	2343.13	+	site "TTATCTTA"
chr9_103225498_103225838_340+_ALDOB	336	343	1279.78	+	site "TTAGCTTT"
chr9_103225498_103225838_340+_ALDOB	270	277	618.033	-	site "TTATGATA"
chr7_96162028_96162221_193+_SHFM1	199	206	1349.79	+	site "TTTTGTTT"
chr7_96162028_96162221_193+_SHFM1	330	337	1913.06	-	site "TTTTCTTA"
chrX_53475970_53476147_177+_HADH2	56	63	1098.53	+	site "TTTGATT"
chr17_46123888_46124028_140+_ABCC3	286	293	632.773	+	site "TATTGTTA"
chr6_2964726_2964928_202+_LOC401233	151	158	650.855	+	site "TTATGTTT"
chr4_100283305_100283496_191+_ADH4	209	216	1638.07	+	site "TATTGTTT"
chr5_141511426_141511605_179+_NDFIP1	14	21	1234.83	+	site "TATGCTTA"
chr5_141511426_141511605_179+_NDFIP1	14	21	238.945	-	site "TAAGCATA"
chr15_37676013_37676156_143+_THBS1	2	9	1425.32	+	site "TTTTCATA"
chr6_46625801_46625999_198+_CYP39A1	360	367	1055.09	+	site "TTTTGTTT"
chr12_90026097_90026375_278+_LUM	173	180	1073.87	+	site "TATTGATT"
chr12_90026097_90026375_278+_LUM	131	138	789.205	+	site "TATTGTTT"
chr12_90026097_90026375_278+_LUM	167	174	556.007	-	site "TATGGATT"
chr3_187784895_187785093_198+_DNAJB11	17	24	1037.76	+	site "TTTTGATT"
chr3_187784895_187785093_198+_DNAJB11	289	296	907.953	-	site "TTTTCAATT"
chr2_54745138_54745339_201+_SPTBN1	42	49	955.238	+	site "TATTGTTT"
chr4_71740071_71740264_193+_IGJ	73	80	836.686	+	site "TATTCATA"
chr4_71740071_71740264_193+_IGJ	63	70	858.917	-	site "TATGCATA"
chr1_8857428_8857619_191+_ENO1	210	217	1611.79	+	site "TATGCTTT"
chr19_40325417_40325611_194+_FXDYD1	214	221	1628.13	+	site "TTTTCAATT"
chr15_46957661_46957850_189+_EID1	113	120	1821.38	+	site "TATTCTTA"
chr15_46957661_46957850_189+_EID1	139	146	1811.91	+	site "TTATCTTA"
chr15_46957661_46957850_189+_EID1	369	376	1774.58	+	site "TTTTCTTT"
chr15_46957661_46957850_189+_EID1	11	18	1698.3	+	site "TTTTCTTA"

chr15_46957661_46957850_189+_EID1	56	63	1087.13	+	site "TTTTCTTT"
chr15_46957661_46957850_189+_EID1	381	388	620.644	+	site "TTTTCATA"
chr15_46957661_46957850_189+_EID1	3	10	1392.13	-	site "TTAGCTTA"
chr15_46957661_46957850_189+_EID1	22	29	826.351	-	site "TTTTCATT"
chr1_205168574_205168752_178+_PIGR	58	65	1149.91	+	site "TTTGTTTT"
chr5_42754552_42754738_186+_GHR	3	10	1016.64	+	site "TATGCATT"
chr5_42754552_42754738_186+_GHR	284	291	719.523	-	site "TATTCATT"
chr1_53451527_53451713_186+_CPT2	379	386	2408.49	+	site "TATGCATT"
chr5_55269805_55269982_177+_IL6ST	326	333	620.644	+	site "TTTTCATA"
chr3_58494207_58494372_165+_ACOX2	183	190	1123.1	+	site "TTTTGTTA"
chr10_73663394_73663564_170+_C10orf104	48	55	2802.84	+	site "TTTTCTTA"
chr2_74508891_74509026_135+_RTKN	315	322	895.376	+	site "TTATGATT"
chr2_74508891_74509026_135+_RTKN	140	147	2437.58	-	site "TTTGCTTT"
chr4_100445253_100445414_161+_ADH1B	352	359	819.785	+	site "TTATGTTA"
chr4_100445253_100445414_161+_ADH1B	340	347	1136.91	-	site "TTTGCAAT"
chr1_96686041_96686239_198+_---	181	188	1293.84	+	site "TTTGCTTT"
chr17_34143288_34143561_273+_PCGF2	327	334	1130.57	+	site "TTAGGTTT"
chr17_34143288_34143561_273+_PCGF2	368	375	941.091	+	site "TTTTGTTT"
chr17_71353469_71353666_197+_WBP2	98	105	895.376	+	site "TTATGATT"
chr6_45827969_45828167_198+_---	209	216	2827.58	+	site "TTTTCTTT"
chr12_56399072_56399294_222+_OS9	169	176	2157.08	+	site "TTTTCTTT"
chr12_56399072_56399294_222+_OS9	210	217	2133.3	-	site "TTTTCTTA"
chr17_38404249_38404445_196+_RPL27	85	92	1592.37	+	site "TTTGTTTT"
chr17_38404249_38404445_196+_RPL27	165	172	1183.87	+	site "TTTTGTTT"
chr17_38404249_38404445_196+_RPL27	33	40	2367.89	-	site "TTTTGTTA"
chr7_65063317_65063555_238+_GUSB	196	203	2185.27	+	site "TTTTGATT"
chr7_65063317_65063555_238+_GUSB	127	134	1231.42	+	site "TTTTCTTT"
chr7_65063317_65063555_238+_GUSB	165	172	1453.62	-	site "TATTGTTT"
chr19_54720471_54720715_244+_FCGRT	345	352	1196.19	+	site "TTTTGTTT"

chr19_54720471_54720715_244+_FCGRT	162	169	1111.23	+	site "TTATCATT"
chr3_173706567_173707043_476+_TNFSF10	276	283	1695.52	+	site "TTTTGTTT"
chr3_173706567_173707043_476+_TNFSF10	306	313	2693.8	-	site "TTATCTTT"
chr3_173706567_173707043_476+_TNFSF10	662	669	2169.23	-	site "TTATCTTT"
chr10_52229990_52230465_475+_ACF	534	541	697.787	+	site "TATTCTTA"
chr10_52229990_52230465_475+_ACF	563	570	2024.85	-	site "TTTGCATT"
chr9_89534291_89534489_198+_CTSL	259	266	940.43	+	site "TTTTGTTT"
chr9_89534291_89534489_198+_CTSL	177	184	1143.6	-	site "TATGCATT"
chr22_31586304_31586511_207+_TIMP3	375	382	924.247	+	site "TTTGGTTT"
chr7_116224736_116224866_130+_MET	75	82	1005.15	+	site "TTTGGTTT"
chr7_116224736_116224866_130+_MET	271	278	1458.4	-	site "TTTTGTTA"
chr15_88148454_88148706_252+_ANPEP	238	245	1349.03	+	site "TATTCTTT"
chr12_6312793_6312991_198+_TNFRSF1A	127	134	1037.76	+	site "TTTTGATT"
chr1_159442855_159443053_198+_NDUFS2	184	191	1032.84	+	site "TTAGCATT"
chr10_88810420_88810612_192+_GLUD1	294	301	747.875	+	site "TATTGTTT"
chr10_88810420_88810612_192+_GLUD1	168	175	2126.72	-	site "TTTGCATT"
chr5_95175497_95175681_184+_GLRX	214	221	1814.89	+	site "TTTGCTTT"
chr9_4696102_4696282_180+_CDC37L1	126	133	793.081	+	site "TTTTGATT"
chr9_4696102_4696282_180+_CDC37L1	327	334	1369.75	-	site "TTAGGTTT"
chr20_32592157_32592335_178+_DYNLRB1	138	145	2689.94	+	site "TTATCTTT"
chr20_32592157_32592335_178+_DYNLRB1	81	88	711.867	-	site "TATTGATT"
chr17_71271652_71271823_171+_GALK1	263	270	1903.57	+	site "TTTTCTTT"
chr17_71271652_71271823_171+_GALK1	58	65	2039.08	-	site "TTTGCATA"
chr16_2509268_2509441_173+_ATP6V0C	106	113	1396.11	+	site "TTTTCTTT"
chr12_12518699_12518869_170+_DUSP16	52	59	491.37	+	site "TTATGATA"
chr12_12518699_12518869_170+_DUSP16	38	45	1337.11	-	site "TTATCATT"
chr20_5943970_5944133_163+_CRLS1	36	43	1386.11	+	site "TTTTGTTT"
chr20_5943970_5944133_163+_CRLS1	12	19	1121.67	-	site "TTTTGATA"
chr6_132311263_132311425_162+_CTGF	85	92	537.896	+	site "TATGGATT"

chr1_17243854_17244016_162+_SDHB	170	177	950.583	+	site "TAATCTTT"
chr20_42969932_42970091_159+_YWHAB	332	339	1681.18	+	site "TTTGGTTT"
chr12_94886216_94886371_155+_AMDHD1	168	175	1453.62	+	site "TATTGTTT"
chr12_94886216_94886371_155+_AMDHD1	136	143	852.038	+	site "TTTTCAAT"
chr12_94886216_94886371_155+_AMDHD1	65	72	749.407	+	site "TTTTCAAT"
chr12_94886216_94886371_155+_AMDHD1	312	319	1368.12	-	site "TTTTGTTT"
chr5_162804271_162804413_142+_CCNG1	330	337	1685.91	+	site "TTTTCTTT"
chr5_162804271_162804413_142+_CCNG1	136	143	896.565	-	site "TAATCTTT"
chr8_96010360_96010489_129+_TP53INP1	296	303	951.607	+	site "TATTGTTA"
chr10_7880966_7881092_126+_ATP5C1	138	145	901.12	+	site "TTAGCATA"
chr15_37676423_37676547_124+_THBS1	10	17	422.879	+	site "TAATCTTT"
chr16_65532894_65533088_194+_CES2	13	20	2537.24	+	site "TTTGGTTT"
chr16_65532894_65533088_194+_CES2	221	228	1444.66	-	site "TTAGCTTT"
chr6_160872790_160872988_198+_LPA	321	328	1419.92	+	site "TATTCATT"
chr6_160872790_160872988_198+_LPA	253	260	1106.26	+	site "TTTTCTTA"
chr6_160872790_160872988_198+_LPA	355	362	473.431	-	site "TAAGCTTT"
chr7_127018666_127018839_173+_ARF5	158	165	566.671	+	site "TTATCATT"
chr1_54274835_54275031_196+_TMEM59	272	279	1142.99	+	site "TTTTCAAT"
chr1_54274835_54275031_196+_TMEM59	217	224	1122.76	+	site "TTATCATT"
chr4_100759169_100759354_185+_MTTP	350	357	1639.1	+	site "TTTTCAAT"
chr4_100759169_100759354_185+_MTTP	228	235	1414.55	-	site "TTTTCAAT"
chr4_100759169_100759354_185+_MTTP	333	340	776.99	-	site "TATTCTTT"
chr5_176711004_176711187_183+_LMAN2	74	81	2036.92	+	site "TTTTGTTT"
chr1_119227126_119227323_197+_TBX15	294	301	2778.9	+	site "TTTTCTTT"
chr4_155748128_155748308_180+_FGG	311	318	1413.61	+	site "TTTGGTTT"
chr4_155748128_155748308_180+_FGG	35	42	442.595	-	site "TAAGGTTT"
chr15_38118311_38118502_191+_SRP14	29	36	994.063	+	site "TATTCTTA"
chr15_38118311_38118502_191+_SRP14	80	87	620.501	+	site "TAATCTTA"
chr15_38118311_38118502_191+_SRP14	102	109	3034.87	-	site "TTTTCTTT"

chr15_38118311_38118502_191_+_SRP14	248	255	1039.7	-	site "TATTGTTT"
chr15_38118311_38118502_191_+_SRP14	44	51	951.697	-	site "TTTTGATT"
chr6_89850229_89850683_454_+_PNRC1	543	550	1362.4	+	site "TTTTGTTT"
chr21_31960585_31960800_215_+_SOD1	349	356	626.785	+	site "TATTGATT"
chr1_17227639_17227836_197_+_SDHB	221	228	2493.56	+	site "TTTGTTTT"
chr5_179157510_179157652_142_+_MGAT4B	9	16	985.194	+	site "TATTGATT"
chr5_179157510_179157652_142_+_MGAT4B	240	247	1368.74	-	site "TTTTGTTT"
chr1_63869911_63870043_132_+_PGM1	297	304	657.024	+	site "TATGCTTT"
chr5_99412428_99412533_105_+_---	93	100	1412.33	+	site "TTTGCTTT"
chr1_44216397_44216587_190_+_ATP6V0B	381	388	1454.3	+	site "TATTCTTA"
chr1_44216397_44216587_190_+_ATP6V0B	316	323	2324.26	-	site "TTTGCTTA"
chr17_18088933_18089143_210_+_FLII	401	408	1388.98	+	site "TTAGGTTT"
chr10_69713770_69713998_228_+_MAWBP	283	290	998.955	+	site "TTTTCTTT"
chr10_69713770_69713998_228_+_MAWBP	356	363	669.27	-	site "TTATCATT"
chr1_167772373_167772571_198_+_F5	255	262	1142.99	+	site "TTTTCATT"
chr10_98270930_98271080_150_+_TM9SF3	92	99	1179.09	+	site "TTAGGATT"
chr10_5248626_5248811_185_+_AKR1C4	319	326	1457.12	+	site "TTTTCATA"
chr10_5248626_5248811_185_+_AKR1C4	14	21	1620.65	-	site "TTTTCATT"
chrX_43537626_43537821_195_+_MAOB	126	133	1177.86	+	site "TTTGCATA"
chrX_43537626_43537821_195_+_MAOB	379	386	1287.27	-	site "TATGCATT"
chrX_43537626_43537821_195_+_MAOB	272	279	953.694	-	site "TAATCTTT"
chr17_31195562_31195864_302_+_TAF15	199	206	1609.29	+	site "TTAGCATT"
chr17_31195562_31195864_302_+_TAF15	51	58	1697.73	-	site "TTTTGTTT"
chr14_89940907_89941064_157_+_CALM1	73	80	1306.98	+	site "TTATCTTA"
chr14_89940907_89941064_157_+_CALM1	126	133	1716.53	-	site "TTAGCTTA"
chr4_53164060_53164258_198_+_USP46	56	63	1206.88	+	site "TATGCATT"
chr4_74588431_74588660_229_+_AFM	412	419	1986.26	+	site "TTTGCTTT"
chr15_64847094_64847292_198_+_SMAD6	1	8	550.439	+	site "TAATCTTT"
chr1_66842565_66842761_196_+_SGIP1	196	203	1366.36	+	site "TTTTGATT"

chr1_66842565_66842761_196_+_SGIP1	37	44	1086.76	-	site "TATTGTTA"
chr4_48603419_48603615_196_+_OCIAD2	151	158	2227.66	+	site "TTTTGTTT"
chr4_48603419_48603615_196_+_OCIAD2	6	13	1113.14	-	site "TATTCTTT"
chr11_18372670_18372829_159_+_LDHA	34	41	1229.15	+	site "TTTTGTTA"
chr11_18372670_18372829_159_+_LDHA	236	243	1491.86	-	site "TTTGCTTA"
chr8_97674845_97674984_139_+_SDC2	51	58	447.122	+	site "TAAGCTTT"
chr8_97674845_97674984_139_+_SDC2	72	79	1045.92	-	site "TATTCATT"
chr11_58478836_58478969_133_+_GLYATL1	293	300	1248.67	+	site "TTATGATT"
chr11_58478836_58478969_133_+_GLYATL1	262	269	1399.99	-	site "TTTGCTTA"
chr1_85556931_85557057_126_+_DDAH1	174	181	1102.84	+	site "TTATCTTT"
chr1_85556931_85557057_126_+_DDAH1	224	231	1527.65	-	site "TTTTCTTT"
chr1_85556931_85557057_126_+_DDAH1	105	112	1311.17	-	site "TATTGATT"
chr1_85556931_85557057_126_+_DDAH1	70	77	1199.99	-	site "TATTCTTA"
chr17_19515569_19515839_270_+_ALDH3A2	133	140	959.768	+	site "TTTTGTTT"
chr17_19515569_19515839_270_+_ALDH3A2	22	29	2354.97	-	site "TTTGCACTT"
chr4_83959201_83959435_234_+_SEC31A	111	118	763.514	+	site "TATGCATT"
chr5_180150273_180150508_235_+_MGAT1	383	390	710.803	+	site "TATGGTTT"
chr5_180150273_180150508_235_+_MGAT1	128	135	1873.56	-	site "TTTTCTTT"
chr3_186405120_186405281_161_+_EHHADH	246	253	1047.84	+	site "TATTCATT"
chr3_186405120_186405281_161_+_EHHADH	212	219	821.491	-	site "TTAGCATA"
chr7_75454331_75454558_227_+_TMPIT	411	418	654.044	+	site "TAATCATT"
chr7_75454331_75454558_227_+_TMPIT	162	169	653.168	-	site "TATTGTTA"
chr5_130528640_130528910_270_+_HINT1	320	327	1426.83	+	site "TTTGGTTT"
chr5_130528640_130528910_270_+_HINT1	358	365	1165.3	+	site "TATGGTTT"
chr5_130528640_130528910_270_+_HINT1	268	275	1480.77	-	site "TTTTGTTT"
chr5_130528640_130528910_270_+_HINT1	222	229	976.631	-	site "TTTTCTTA"
chr10_120226460_120226658_198_+_---	358	365	1716.51	+	site "TATTCTTT"
chr10_120226460_120226658_198_+_---	218	225	1856.66	-	site "TTTTCACTT"
chr2_72972462_72972658_196_+_SPR	141	148	895.376	+	site "TTATGATT"

chr2_72972462_72972658_196_+_SPR	386	393	1076.9	-	site "TTTTCTTA"
chr4_110942494_110942654_160_+_CFI	31	38	599.241	+	site "TAATCTTA"
chr4_110942494_110942654_160_+_CFI	294	301	675.424	-	site "TTTTCATA"
chr1_228906487_228906810_323_+_AGT	46	53	1686.37	+	site "TTTTGTTT"
chr1_53266204_53266398_194_+_SCP2	55	62	1556.36	+	site "TATGCTTT"
chr12_16398376_16398642_266_+_MGST1	199	206	2199.36	+	site "TTTTCTTT"
chr12_16398376_16398642_266_+_MGST1	294	301	1885.54	+	site "TTTTCATA"
chr12_16398376_16398642_266_+_MGST1	448	455	1319.37	+	site "TTTTGATT"
chr5_139910450_139910687_237_+_SRA1	255	262	1414.55	+	site "TTTTCATT"
chr5_139910450_139910687_237_+_SRA1	72	79	911.991	-	site "TATTCATA"
chr8_109309641_109309814_173_+_EIF3S6	324	331	1027.36	+	site "TATTGTTT"
chr8_109309641_109309814_173_+_EIF3S6	27	34	1938.05	-	site "TATTCTTT"
chr17_75983263_75983451_188_+_C17orf27	367	374	1939.36	+	site "TTTTGTTT"
chr11_67574785_67574954_169_+_TCIRG1	251	258	2719.69	+	site "TTTGCTTT"
chr11_67574785_67574954_169_+_TCIRG1	6	13	998.955	-	site "TTTTCTTT"
chr1_33251264_33251402_138_+_AK2	324	331	1528.94	+	site "TTTTCTTT"
chr12_108518742_108518940_198_+_MVK	379	386	538.066	+	site "TAATGTTT"
chr5_141511707_141511898_191_+_NDFIP1	368	375	1380.55	+	site "TTTTGATT"
chr5_141511707_141511898_191_+_NDFIP1	354	361	1018.65	+	site "TTTTCATT"
chr16_31418095_31418279_184_+_C16orf58	365	372	696.258	+	site "TATGGTTT"
chr16_69253241_69253430_189_+_LOC92154	209	216	715.63	+	site "TTATGTTT"
chr16_69253241_69253430_189_+_LOC92154	26	33	1402.35	-	site "TTAGGTTA"
chr16_69253241_69253430_189_+_LOC92154	346	353	1231.42	-	site "TTTTCTTT"
chr1_199370621_199370804_183_+_TMEM9	167	174	425.891	+	site "TAATGTTT"
chr1_199370621_199370804_183_+_TMEM9	304	311	838.518	-	site "TTTGTTTA"
chr1_154376198_154376375_177_+_LMNA	326	333	1351.97	+	site "TTAGGATT"
chr1_154376198_154376375_177_+_LMNA	104	111	2362.22	-	site "TTTGCTTT"
chr1_154376198_154376375_177_+_LMNA	340	347	1973.53	-	site "TTTGTTT"
chr10_69726607_69726785_178_+_MAWBP	16	23	502.666	+	site "TTATCATA"

chr10_69726607_69726785_178+_MAWBP	59	66	1767.96	-	site "TTTTCTTT"
chr9_36207046_36207189_143+_GNE	333	340	1161.32	+	site "TTTTCATA"
chr12_55886491_55886633_142+_LRP1	244	251	2146.33	+	site "TTAGCTTA"
chr12_55886491_55886633_142+_LRP1	223	230	1125.1	+	site "TTATGATT"
chr12_55886491_55886633_142+_LRP1	224	231	373.469	-	site "TAATCATA"
chr2_215922583_215922715_132+_ATIC	144	151	1214.26	+	site "TATTCATT"
chr2_215922583_215922715_132+_ATIC	211	218	3048.22	-	site "TTTTCTTA"
chr7_45895660_45895973_313+_IGFBP1	235	242	2263.91	+	site "TTTTCTTT"
chr7_45895660_45895973_313+_IGFBP1	250	257	1549.83	-	site "TTTTCATT"
chr7_45895660_45895973_313+_IGFBP1	11	18	1462.71	-	site "TTTTGTTT"
chr4_100762903_100763187_284+_MTTP	78	85	2768.36	+	site "TTTTGTTT"
chr4_100762903_100763187_284+_MTTP	160	167	1114	-	site "TATTCATT"
chr5_79983334_79983592_258+_DHFR	334	341	1131.99	+	site "TATGGATT"
chr10_91349001_91349199_198+_PANK1	227	234	2126.72	+	site "TTTGCATT"
chr10_91349001_91349199_198+_PANK1	61	68	775.019	-	site "TATTCATT"
chr5_178977410_178977601_191+_HNRPH1	107	114	592.684	+	site "TTATGTTA"
chr15_97616494_97616682_188+_LRRC28	252	259	1717.29	+	site "TTATCATT"
chr19_19029640_19029827_187+_ARMC6	8	15	873.276	+	site "TTATCATT"
chr7_99201872_99202054_182+_CYP3A4	45	52	739.673	+	site "TATGCATT"
chr7_99201872_99202054_182+_CYP3A4	93	100	2076.39	-	site "TTTGCTTA"
chr10_82181673_82181852_179+_C10orf58	206	213	615.873	+	site "TTAGGTTA"
chr6_160446690_160446868_178+_IGF2R	232	239	1713.23	+	site "TTTGGTTA"
chr6_160446690_160446868_178+_IGF2R	355	362	1370.06	+	site "TTTTCTTA"
chr6_160446690_160446868_178+_IGF2R	286	293	1037.76	+	site "TTTTGATT"
chr6_160446690_160446868_178+_IGF2R	369	376	1030.01	+	site "TTTTCTTT"
chr6_160446690_160446868_178+_IGF2R	304	311	716.484	+	site "TTAGGTTT"
chr6_160446690_160446868_178+_IGF2R	103	110	1257.31	-	site "TTATCATT"
chr17_46593490_46593658_168+_NME1	312	319	732.483	+	site "TATGGATT"
chr13_98997238_98997398_160+_TM9SF2	225	232	902.806	+	site "TATTGTTT"

chr13_98994123_98994277_154_+_TM9SF2	258	265	626.785	+	site "TATTGATT"
chr5_138298052_138298205_153_+_CTNNA1	334	341	483.895	+	site "TTATCATA"
chr5_138298052_138298205_153_+_CTNNA1	335	342	349.389	-	site "TTATGATA"
chr3_137530275_137530427_152_+_PCCB	263	270	899.288	+	site "TTTTCAATT"
chr20_17562156_17562308_152_+_RRBP1	342	349	520.557	+	site "TTAGCATA"
chr20_17562156_17562308_152_+_RRBP1	330	337	1150.51	-	site "TTTTGTTT"
chr12_99452814_99452954_140_+_NR1H4	161	168	376.365	+	site "TAATGTTA"
chr2_85633097_85633245_148_+_GGCX	65	72	848.877	+	site "TTTTCAATT"
chr1_202372879_202373027_148_+_ETNK2	3	10	1077.52	+	site "TTTGATT"
chr19_55678252_55678398_146_+_LOC284361	142	149	882.515	+	site "TTTTGTTT"
chr19_55678252_55678398_146_+_LOC284361	125	132	847.488	+	site "TAATCTTA"
chr4_155749638_155749785_147_+_FGG	301	308	1412.18	+	site "TATGCTTT"
chr4_155749638_155749785_147_+_FGG	319	326	1349.03	+	site "TATTCTTT"
chr4_155749638_155749785_147_+_FGG	328	335	946.774	+	site "TATTGTTA"
chr4_155749638_155749785_147_+_FGG	190	197	1728.24	-	site "TTTTCTTT"
chr4_48548673_48548818_145_+_OCIAD1	288	295	1087.13	+	site "TTTTCTTT"
chr6_119540162_119540299_137_+_MAN1A1	295	302	905.939	+	site "TTTTCTTT"
chr1_167754221_167754349_128_+_F5	35	42	1281.92	+	site "TATTCTTT"
chr1_167754221_167754349_128_+_F5	107	114	2011.84	-	site "TTATCTTT"
chr3_5235677_5235796_119_+_EDEM1	27	34	1926.09	+	site "TTTGCTTT"
chr3_185532383_185532577_194_+_EIF4G1	38	45	776.213	+	site "TTTTGTTT"
chr3_185532383_185532577_194_+_EIF4G1	278	285	1751.2	-	site "TTTTGTTA"
chr3_185532383_185532577_194_+_EIF4G1	60	67	1685.91	-	site "TTTTCTTT"
chr3_185532383_185532577_194_+_EIF4G1	306	313	1332.37	-	site "TATGCATT"
chr3_185532383_185532577_194_+_EIF4G1	266	273	896.383	-	site "TTTGTTT"
chr15_56627798_56628054_256_+_LIPC	434	441	652.447	+	site "TTAGGTTA"
chr15_56627798_56628054_256_+_LIPC	393	400	918.001	-	site "TTTGATT"
chr12_52141081_52141239_158_+_PCBP2	111	118	2345.3	+	site "TTTTCTTT"
chr12_52141081_52141239_158_+_PCBP2	308	315	1281.5	-	site "TTTTCTTT"

chr9_113385526_113385752_226+_LTB4DH	87	94	1018.65	+	site "TTTTCATT"
chr9_113385526_113385752_226+_LTB4DH	22	29	906.446	+	site "TATGCATA"
chr9_113385526_113385752_226+_LTB4DH	142	149	2827.58	-	site "TTTTCTTT"
chr9_113385526_113385752_226+_LTB4DH	184	191	1680.76	-	site "TTATCTTT"
chr9_113385526_113385752_226+_LTB4DH	368	375	1559.82	-	site "TATGCTTT"
chr11_57427743_57427941_198+_---	82	89	1507.02	+	site "TATTCTTA"
chr11_57427743_57427941_198+_---	167	174	1004.04	-	site "TTTTGATA"
chr5_41194493_41194682_189+_C6	267	274	1750.71	+	site "TTTTCATA"
chr5_105562265_105562462_197+_---	375	382	607.412	+	site "TATGGTTA"
chr5_105562265_105562462_197+_---	346	353	992.063	-	site "TTTTCATA"
chr17_6951794_6952041_247+_ASGR2	75	82	1530.33	+	site "TTAGCATT"
chr17_6951794_6952041_247+_ASGR2	129	136	1502.04	-	site "TTTTGTTT"
chr18_45372376_45372574_198+_LIPG	90	97	626.785	+	site "TATTGATT"
chr18_45372376_45372574_198+_LIPG	78	85	681.033	-	site "TATTGTTA"
chr3_57532285_57532443_158+_ARF4	197	204	1459.64	+	site "TTTGTTTA"
chr2_38815171_38815353_182+_GALM	307	314	2013.24	+	site "TTTGCTTT"
chr6_33278635_33278804_169+_SLC39A7	226	233	1840.38	+	site "TTTTCTTA"
chr6_33278635_33278804_169+_SLC39A7	94	101	1140.96	-	site "TATGCTTA"
chr11_490519_490673_154+_RNH1	271	278	1259.5	+	site "TTTGCTTT"
chr4_155751100_155751298_198+_FGG	162	169	796.184	+	site "TTTTCATA"
chr1_20853272_20853426_154+_DDOST	287	294	1530.92	+	site "TTTGTTTA"
chr1_226360975_226361200_225+_MRPL55	243	250	1740.62	+	site "TTATCTTT"
chr1_226360975_226361200_225+_MRPL55	206	213	1737.56	-	site "TATGCTTA"
chr9_32420456_32420603_147+_ACO1	42	49	1106.26	+	site "TTTTCTTA"
chr7_44122923_44123059_136+_POLD2	162	169	632.014	+	site "TAATCTTA"
chr7_44122923_44123059_136+_POLD2	55	62	801.585	-	site "TTATCATT"
chr12_14986199_14986527_328+_ARHGDIB	93	100	853.895	+	site "TTTGCATA"
chr12_14986199_14986527_328+_ARHGDIB	52	59	1406.28	-	site "TTTTCATA"
chr1_218938214_218938438_224+_C1orf115	182	189	998.955	+	site "TTTTCTTT"

chr1_218938214_218938438_224+_C1orf115	70	77	1681.18	-	site "TTTGTTTT"
chr1_150046506_150046721_215+_RORC	45	52	2260.27	+	site "TTTTCTTA"
chr1_150046506_150046721_215+_RORC	380	387	663.535	-	site "TTATGATA"
chr4_96559973_96560171_198+_UNC5C	197	204	1923.07	+	site "TTTTGTTT"
chr4_96559973_96560171_198+_UNC5C	97	104	1322.02	-	site "TTATCTTT"
chr19_6325875_6326060_185+_ALKBH7	153	160	1908.23	+	site "TTTGTTTT"
chr19_6325875_6326060_185+_ALKBH7	167	174	1606.76	+	site "TATTGTTT"
chr2_201175209_201175375_166+_AOX1	21	28	2301.28	+	site "TTTTCA TT"
chr5_128476444_128476604_160+_ISOC1	40	47	2879.13	+	site "TTATCTTT"
chr18_70329092_70329256_164+_CNDP2	99	106	1121.23	+	site "TTAGGATT"
chr18_70329092_70329256_164+_CNDP2	247	254	1966.58	-	site "TTTTCA TT"
chr16_15038053_15038212_159+_KIAA0251	118	125	2354.97	+	site "TTTGCATT"
chr16_15038053_15038212_159+_KIAA0251	173	180	2358.18	-	site "TATGCTTT"
chr19_58419602_58419760_158+_FLJ46385	60	67	1125.1	+	site "TTATGATT"
chr2_189585530_189585687_157+_COL3A1	324	331	2121.79	+	site "TTTTCTTA"
chr2_189585530_189585687_157+_COL3A1	106	113	668.597	+	site "TTATGTTT"
chr2_189585530_189585687_157+_COL3A1	314	321	1905.92	-	site "TTTTCTTA"
chr12_55890816_55890969_153+_LRP1	278	285	1336.49	+	site "TTATGATT"
chr10_101180244_101180387_143+_GOT1	125	132	1225.44	+	site "TATTCATT"
chr15_50626854_50626988_134+_ARPP-19	209	216	1891.56	+	site "TTTGTTTT"
chr18_58798424_58798556_132+_PHLPP	257	264	1672.14	+	site "TTTGCATT"
chr18_58798424_58798556_132+_PHLPP	131	138	1534.43	-	site "TTTGTTTT"
chr18_58798424_58798556_132+_PHLPP	94	101	1259.5	-	site "TTTGCTTT"
chr10_75212931_75213062_131+_CHCHD1	274	281	1049.7	+	site "TATTCATA"
chr10_75212931_75213062_131+_CHCHD1	318	325	978.769	-	site "TTTTCATA"
chr6_33347766_33347962_196+_RPS18	331	338	1120.17	+	site "TTTTCTTT"
chr7_75452921_75453102_181+_POR	363	370	998.955	+	site "TTTTCTTT"
chr12_90063451_90063633_182+_DCN	190	197	689.479	+	site "TTTGCATA"
chr12_90063451_90063633_182+_DCN	260	267	879.241	-	site "TTTTGTTT"

chr5_79983645_79984029_384_+_DHFR	23	30	1131.99	+	site "TATGGATT"
chr5_79983645_79984029_384_+_DHFR	542	549	1968.21	-	site "TTTTCTTT"
chr1_28436870_28437162_292_+_ATPIF1	296	303	1252.76	+	site "TTTGTTTT"
chr4_69998843_69999012_169_+_UGT2B7	270	277	2349.03	+	site "TTTGCTTA"
chr4_69998843_69999012_169_+_UGT2B7	135	142	844.24	-	site "TTAGCATA"
chr4_69998843_69999012_169_+_UGT2B7	294	301	700.149	-	site "TTTTGATT"
chr5_93929395_93929590_195_+_C5orf36	123	130	819.335	+	site "TTTGATA"
chr1_171717119_171717275_156_+_PRDX6	36	43	566.671	+	site "TTATCATT"
chr12_6955641_6955875_234_+_MBOAT5	61	68	639.937	+	site "TTTTCATA"
chr5_130523119_130523273_154_+_HINT1	133	140	2414.35	+	site "TTTTGTTT"
chr4_2900847_2901090_243_+_ADD1	144	151	1908.23	+	site "TTTGTTTT"
chr1_244997200_244997391_191_+_SCCPDH	34	41	1087.14	+	site "TTAGCATT"
chr1_244997200_244997391_191_+_SCCPDH	25	32	1567.78	-	site "TATGCTTT"
chr10_102111658_102112023_365_+_SCD	353	360	2879.13	+	site "TTATCTTT"
chr2_69906195_69906353_158_+_ANXA4	12	19	1382.68	+	site "TATTGTTT"
chr2_69906195_69906353_158_+_ANXA4	98	105	1252.76	+	site "TTTGTTTT"
chr1_60143117_60143329_212_+_CYP2J2	210	217	2007.41	+	site "TTTTCATA"
chr5_41185763_41185939_176_+_C6	86	93	1184.08	+	site "TTTTCTTA"
chr5_41185763_41185939_176_+_C6	16	23	2537.24	-	site "TTTGTTTT"
chr1_31052412_31052610_198_+_LAPTM5	15	22	2510.49	+	site "TTTTCATT"
chr1_31052412_31052610_198_+_LAPTM5	220	227	1429.82	+	site "TTAGCTTT"
chr1_31052412_31052610_198_+_LAPTM5	168	175	1309.61	+	site "TATGCATA"
chr1_31052412_31052610_198_+_LAPTM5	210	217	2121.79	-	site "TTTTCTTA"
chr1_31052412_31052610_198_+_LAPTM5	303	310	1120.17	-	site "TTTTCTTT"
chr7_150142786_150142940_154_+_TMEM176A	30	37	2014.07	+	site "TTTTGTTT"
chr12_21244705_21244841_136_+_SLCO1B1	175	182	340.734	+	site "TAATGTTT"
chr1_149777043_149777356_313_+_CGN	53	60	2581.68	+	site "TTAGCTTA"
chr17_55271852_55272074_222_+_TMEM49	85	92	740.839	+	site "TAAGCTTT"
chr1_201176915_201177109_194_+_ADIPOR1	82	89	803.72	+	site "TTAGGATA"

chr2_190239933_190240129_196_+_ASNSD1	329	336	646.268	+	site "TATTGATT"
chr6_88278234_88278424_190_+_SLC35A1	346	353	920.802	+	site "TATTCATT"
chr11_118124172_118124360_188_+_DDX6	264	271	1010.01	+	site "TATTCTTA"
chr11_118124172_118124360_188_+_DDX6	110	117	1076.1	-	site "TATGCTTT"
chr17_15878822_15879008_186_+_NCOR1	198	205	1502.04	+	site "TTTTGTTT"
chr17_15878822_15879008_186_+_NCOR1	277	284	1136.91	-	site "TTTGCATT"
chr11_33684022_33684203_181_+_CD59	184	191	998.506	+	site "TATTGATT"
chr9_136468970_136469152_182_+_RXRA	71	78	1546.04	+	site "TTTGCATT"
chr4_3416372_3416548_176_+_HGFAC	16	23	1760.24	+	site "TTTGCTTT"
chr12_88169346_88169524_178_+_---	280	287	841.641	+	site "TTTGCTTT"
chr12_88169346_88169524_178_+_---	59	66	1324.63	-	site "TATTCTTT"
chr2_89028138_89028313_175_+_---	295	302	539.968	+	site "TATTCTTT"
chr2_26361237_26361410_173_+_HADHB	203	210	1683.01	+	site "TTTTGTTA"
chr2_26361237_26361410_173_+_HADHB	289	296	1005.45	-	site "TTATCTTT"
chr2_208795491_208795660_169_+_IDH1	48	55	1018.65	+	site "TTTTCACTT"
chr2_208795491_208795660_169_+_IDH1	66	73	1600.88	-	site "TTTGCTTA"
chr15_61234837_61235008_171_+_RPS27L	211	218	948.687	+	site "TTAGCTTT"
chr15_61234837_61235008_171_+_RPS27L	352	359	1592.28	-	site "TTAGCTTT"
chr15_61234837_61235008_171_+_RPS27L	53	60	632.014	-	site "TAATCTTA"
chr7_127501797_127501962_165_+_SND1	274	281	1291.27	+	site "TTTTGTTT"
chr7_127501797_127501962_165_+_SND1	164	171	618.166	-	site "TTAGGTTA"
chr6_80934116_80934281_165_+_BCKDHB	13	20	670.8	+	site "TATGCATT"
chr1_1312360_1312521_161_+_CCNL2	337	344	1551.74	+	site "TTATGATT"
chrX_117809863_117810024_161_+_IL13RA1	193	200	752.544	+	site "TATGCATA"
chrX_117809863_117810024_161_+_IL13RA1	96	103	882.515	-	site "TTTTGTTT"
chrX_117809863_117810024_161_+_IL13RA1	193	200	831.221	-	site "TATGCATA"
chr22_35951503_35951660_157_+_RAC2	112	119	1756.76	+	site "TTTTCATA"
chr1_99945790_99945945_155_+_FRRS1	316	323	1101.6	+	site "TTTGCATT"
chr8_67543032_67543185_153_+_ADHFE1	281	288	1393.73	+	site "TTTTGTTA"

chr8_67543032_67543185_153+_ADHFE1	294	301	1505.54	-	site "TTATCATA"
chr9_13109533_13109684_151+_MPDZ	325	332	1981.46	+	site "TTATCTTT"
chr9_13109533_13109684_151+_MPDZ	145	152	704.066	-	site "TTATCATT"
chr11_56934000_56934149_149+_SLC43A3	60	67	1332.84	+	site "TTAGGTTT"
chr11_56934000_56934149_149+_SLC43A3	16	23	1298.65	+	site "TTTGCTTT"
chr6_142808060_142808204_144+_GPR126	234	241	2206.15	+	site "TTTTGTTA"
chr10_123708999_123709134_135+_C10orf86	150	157	266.531	+	site "TAATCATA"
chr10_123708999_123709134_135+_C10orf86	145	152	905.566	-	site "TTATGATT"
chr11_59099094_59099231_137+_OSBP	60	67	1889.86	+	site "TTTTCTTA"
chr11_59099094_59099231_137+_OSBP	93	100	1362.23	-	site "TATTGATT"
chr11_62163022_62163157_135+_GANAB	290	297	1524.09	+	site "TTTGATT"
chr12_14926083_14926217_134+_MGP	256	263	2013.24	+	site "TTTGCTTT"
chr8_126103220_126103349_129+_SQLE	190	197	998.955	+	site "TTTTCTTT"
chr8_126103220_126103349_129+_SQLE	269	276	1672.14	-	site "TTTGCATT"
chr18_2910769_2910898_129+_LPIN2	142	149	1469.33	+	site "TTATGTTA"
chr10_101601476_101601601_125+_ABCC2	162	169	1327.51	+	site "TTTTCTTA"
chr10_101601476_101601601_125+_ABCC2	177	184	1121.33	-	site "TATTGATA"
chr10_52250307_52250434_127+_ACF	84	91	965.795	+	site "TATGGTTT"
chr1_75966643_75966765_122+_ACADM	252	259	640.042	+	site "TATTGATA"
chr17_44721890_44722014_124+_ZNF652	87	94	705.461	+	site "TATTGTTT"
chr13_45007703_45007827_124+_COG3	24	31	1168.01	+	site "TTATGTTA"
chr13_45007703_45007827_124+_COG3	151	158	858.917	+	site "TATGCATA"
chr13_45007703_45007827_124+_COG3	41	48	867.393	-	site "TTTTCATA"
chr13_99013067_99013189_122+_TM9SF2	235	242	1089.28	+	site "TTTTGTTA"
chr13_99013067_99013189_122+_TM9SF2	221	228	495.543	-	site "TAAGCTTT"
chr4_71916907_71917025_118+_GRSF1	277	284	1209.56	+	site "TATGCTTA"
chr4_71916907_71917025_118+_GRSF1	53	60	646.987	+	site "TATTGATT"
chr4_71916907_71917025_118+_GRSF1	178	185	2292.53	-	site "TTTTCTTA"
chr4_71916907_71917025_118+_GRSF1	142	149	2150.73	-	site "TTTTCATT"

chr1_195297575_195297693_118+_F13B	193	200	776.99	+	site "TATTCTTT"
chr1_74948420_74948537_117+_CRYZ	140	147	1070	+	site "TTAGCATT"
chr1_74948420_74948537_117+_CRYZ	116	123	1327.43	-	site "TATTCATT"
chrX_38166452_38166567_115+_OTC	284	291	733.364	+	site "TTATGTTT"
chrX_38166452_38166567_115+_OTC	4	11	1392.25	-	site "TTATGTTT"
chrX_72959024_72959129_105+_---	154	161	1312.81	+	site "TTTGATT"
chrX_72959024_72959129_105+_---	248	255	952.332	+	site "TATTCTTA"
chr4_157064936_157065051_115+_CTSO	57	64	1750.84	+	site "TTTTGTTT"
chr17_1506713_1506827_114+_PRPF8	38	45	1074.91	+	site "TATGCTTT"
chr12_88266523_88266635_112+_DUSP6	60	67	2180.81	+	site "TATGCTTT"
chr12_88266523_88266635_112+_DUSP6	85	92	742.483	-	site "TTAGGATA"
chr1_149769097_149769207_110+_CGN	101	108	1758.42	+	site "TATGCTTT"
chr1_149769097_149769207_110+_CGN	44	51	1734.81	+	site "TTTGTTT"
chr5_115118994_115119098_104+_CDO1	78	85	787.598	+	site "TATGCTTT"
chr5_115118994_115119098_104+_CDO1	115	122	890.364	-	site "TTAGCTTA"
chr2_61558883_61558985_102+_XPO1	113	120	2141.25	+	site "TTTGCTTA"
chr2_61558883_61558985_102+_XPO1	199	206	1599.28	-	site "TTTTCAATT"
chr2_61558883_61558985_102+_XPO1	260	267	1054.02	-	site "TTATGTTA"
chr6_86261386_86261486_100+_NT5E	290	297	1313.56	+	site "TTATGTTA"
chr11_67135878_67136053_175+_NDUFV1	338	345	2112.07	+	site "TTAGGTTT"
chrX_71412697_71412891_194+_RPS4X	217	224	1112.07	+	site "TTAGCTTT"
chr17_46602309_46602479_170+_NME2	242	249	1439.45	+	site "TTTTCTTT"
chr15_38117713_38117899_186+_SRP14	257	264	395.025	+	site "TATTGATT"
chr15_38117713_38117899_186+_SRP14	278	285	2324.26	-	site "TTTGCTTA"
chr6_133046084_133046222_138+_VNN1	326	333	1003.63	+	site "TTATCATT"
chr6_133046084_133046222_138+_VNN1	229	236	1058.37	-	site "TATGCTTT"
chr3_135158609_135158807_198+_SLCO2A1	301	308	907.953	+	site "TTTTCAATT"
chr3_135158609_135158807_198+_SLCO2A1	361	368	650.855	-	site "TTATGTTT"
chr14_61278916_61279093_177+_HIF1A	166	173	672.378	+	site "TATTGATA"

chr14_61278916_61279093_177_+_HIF1A	40	47	970.8	-	site "TTAGCATT"
chr1_120085932_120086058_126_+_PHGDH	305	312	1207.58	+	site "TTTTCTTA"
chr1_120085932_120086058_126_+_PHGDH	63	70	1255.6	-	site "TTATCTTT"
chr6_108639615_108639752_137_+_SNX3	107	114	1444.5	+	site "TTTTGTTT"
chr5_111648076_111648274_198_+_EPB41L4A	102	109	1315.39	+	site "TTTTGTTA"
chr5_111648076_111648274_198_+_EPB41L4A	345	352	1042.18	-	site "TTATCATA"
chr10_5139616_5139799_183_+_AKR1C3	203	210	1276.64	+	site "TATTCATT"
chr15_76628147_76628332_185_+_PSMA4	32	39	1101.6	+	site "TTTGCATT"
chr15_76628147_76628332_185_+_PSMA4	213	220	1760.24	-	site "TTTGCTTT"
chr14_74020921_74021101_180_+_NPC2	253	260	1620.39	+	site "TTTTGATT"
chr11_101773249_101773381_132_+_TMEM123	157	164	1474.63	+	site "TTATCTTA"
chr11_101773249_101773381_132_+_TMEM123	310	317	1349.03	-	site "TTTGCTTT"
chr11_101773249_101773381_132_+_TMEM123	47	54	960.1	-	site "TTTGTTTT"
chr15_72835087_72835274_187_+_CYP1A2	239	246	1877.86	+	site "TATGCTTT"
chr15_72835087_72835274_187_+_CYP1A2	101	108	1321.91	-	site "TTTGTTTA"
chr20_17565238_17565359_121_+_RRBP1	288	295	867.393	+	site "TTTTCATA"
chr4_70007445_70007643_198_+_UGT2B7	123	130	796.086	+	site "TATGCATT"
chr4_70007445_70007643_198_+_UGT2B7	164	171	1549.83	-	site "TTTTCATT"
chr8_95723019_95723217_198_+_RBM35A	136	143	1156.39	+	site "TATTCATT"
chr2_201229783_201229956_173_+_AOX1	168	175	1546.04	+	site "TTTGCATT"
chr9_122782161_122782388_227_+_C5	381	388	1140.79	+	site "TTTGTTTA"
chr9_122782161_122782388_227_+_C5	230	237	1439.45	-	site "TTTTCTTT"
chr1_57163999_57164197_198_+_C8B	97	104	1268.27	+	site "TTATGTTA"
chr2_167636414_167636632_218_+_---	400	407	1266.71	+	site "TATTCTTT"
chr10_7799540_7799834_294_+_ITIH2	262	269	908.591	+	site "TTTTCATT"
chr10_7799540_7799834_294_+_ITIH2	479	486	624.854	-	site "TTATCATT"
chrX_77268118_77268277_159_+_PGK1	339	346	1245.42	+	site "TTATCATT"
chrX_77268118_77268277_159_+_PGK1	277	284	721.532	+	site "TATTGATA"
chrX_77268118_77268277_159_+_PGK1	334	341	374.279	-	site "TAATCATT"

chr12_7172120_7172349_229+_RBP5	30	37	1507.02	+	site "TATTCTTA"
chr12_7172120_7172349_229+_RBP5	174	181	2689.7	-	site "TTTGCTTA"
chr20_23953104_23953302_198+_GGTLA4	123	130	2198.87	+	site "TTTGCTTA"
chr20_23953104_23953302_198+_GGTLA4	114	121	1901.69	-	site "TATGCTTT"
chr7_138920766_138920964_198+_HIPK2	248	255	1461.8	+	site "TTTTGTTA"
chr7_138920766_138920964_198+_HIPK2	163	170	1252.76	+	site "TTTGCTTT"
chr7_138920766_138920964_198+_HIPK2	239	246	879.241	+	site "TTTTGTTT"
chr7_138920766_138920964_198+_HIPK2	73	80	434.284	-	site "TATTGATA"
chr7_145325339_145325543_204+_---	72	79	2121.79	+	site "TTTTCTTA"
chr7_145325339_145325543_204+_---	148	155	722.88	-	site "TATTGATA"
chr5_99121734_99121932_198+_---	121	128	962.952	+	site "TTAGGTTA"
chr12_20595559_20595878_319+_PDE3A	280	287	2205.88	+	site "TATGCTTA"
chr12_20595559_20595878_319+_PDE3A	407	414	1010.01	+	site "TATTCTTA"
chr12_20595559_20595878_319+_PDE3A	213	220	570.403	-	site "TTAGGATT"
chr11_100493765_100493963_198+_PGR	315	322	1174.26	+	site "TATTGTTT"
chr12_25399984_25400182_198+_---	29	36	2210.3	+	site "TTTGCTTT"
chr12_25399984_25400182_198+_---	345	352	1413.61	+	site "TTTGCTTT"
chr12_25399984_25400182_198+_---	357	364	1300.01	-	site "TTATCATT"
chr2_54750062_54750239_177+_SPTBN1	306	313	1303.17	+	site "TTTTCATT"
chr20_56918722_56918859_137+_GNAS	33	40	485.437	+	site "TTAGGATA"
chr7_5173573_5173771_198+_WIPI2	383	390	657.024	+	site "TATGCTTT"
chr7_154216961_154217159_198+_DPP6	150	157	1327.51	+	site "TTTTCTTA"
chr7_154216961_154217159_198+_DPP6	165	172	755.079	-	site "TTAGCATT"
chr10_124806523_124806757_234+_ACADSB	5	12	1024.76	+	site "TAATCTTA"
chr10_124806523_124806757_234+_ACADSB	289	296	855.909	+	site "TTTTGTTT"
chr10_124806523_124806757_234+_ACADSB	260	267	960.789	-	site "TTTTGTTA"
chr1_224477960_224478138_178+_MIXL1	34	41	1353.8	+	site "TTATCTTT"
chr2_216763171_216763363_192+_XRCC5	264	271	620.644	+	site "TTTTCATA"
chr2_56263726_56263906_180+_---	273	280	1218.96	+	site "TATTCTTT"

chr2_56263726_56263906_180_+---	322	329	1269.58	-	site "TTTTCATA"
chr8_30040718_30040944_226_+_TMEM66	305	312	2350.68	+	site "TTTTCTTT"
chr6_49511159_49511303_144_+_MUT	297	304	903.123	+	site "TATTCATA"
chr2_33846005_33846183_178_+---	90	97	472.618	+	site "TAAGCTTT"
chr2_33846005_33846183_178_+---	70	77	1834.06	-	site "TTTTGTTA"
chr2_33846005_33846183_178_+---	304	311	1602.37	-	site "TTTGCTTT"
chr12_48787749_48787899_150_+_GPD1	153	160	2237.43	+	site "TTTGCTTT"
chr12_48787749_48787899_150_+_GPD1	301	308	1427.82	+	site "TTATGTTT"
chr12_48787749_48787899_150_+_GPD1	344	351	4102.85	-	site "TTTGCTTA"
chr1_47172158_47172346_188_+_CYP4A11	213	220	1950.82	+	site "TTATCTTT"
chr20_57009894_57010081_187_+_CTSZ	322	329	1714.18	+	site "TTTTCTTA"
chr20_57009894_57010081_187_+_CTSZ	305	312	1338.24	+	site "TTTTCATT"
chr10_5021923_5022109_186_+_AKR1C2	90	97	1139.81	+	site "TATTGTTA"
chr10_5021923_5022109_186_+_AKR1C2	159	166	1721.37	-	site "TTTTCTTA"
chr6_149786030_149786228_198_+_MAP3K7IP2	252	259	577.905	+	site "TTAGGATA"
chr6_149786030_149786228_198_+_MAP3K7IP2	274	281	1975.89	-	site "TTTTCTTT"
chr9_122762338_122762485_147_+_C5	4	11	1700.98	+	site "TATGCTTT"
chr9_122762338_122762485_147_+_C5	134	141	1698.3	+	site "TTTTCTTA"
chr10_88817771_88817900_129_+_GLUD1	285	292	369.692	+	site "TAATCATT"
chr1_165776988_165777148_160_+_CREG1	167	174	741.835	+	site "TTAGGTTT"
chr1_165776988_165777148_160_+_CREG1	65	72	1520.47	-	site "TTTTGTTT"
chr16_16151337_16151659_322_+_ABCC6	335	342	1753.07	+	site "TTTTCTTT"
chr16_16151337_16151659_322_+_ABCC6	185	192	1338.24	-	site "TTTTCATT"
chr17_53522357_53522576_219_+_DYNLL2	80	87	860.051	+	site "TAATCTTA"
chr9_12765125_12765323_198_+_C9orf150	217	224	1149.91	+	site "TTTGTTTT"
chr9_12765125_12765323_198_+_C9orf150	379	386	1089.28	-	site "TTTTGTTA"
chr1_226749006_226749277_271_+_HIST3H2BB	88	95	1322.41	+	site "TTTGCATA"
chr19_16163487_16163712_225_+_FAM32A	241	248	1039.7	+	site "TATTGTTT"
chr1_149608759_149608949_190_+_SELENBP1	31	38	2161.27	+	site "TTTGCTTA"

chr1_149608759_149608949_190_+_SELENBP1	291	298	870.189	-	site "TTTGGATT"
chr22_35015078_35015272_194_+_MYH9	155	162	873.987	+	site "TTTTGTTA"
chr22_35015078_35015272_194_+_MYH9	105	112	401.254	-	site "TAATCATT"
chr7_94879592_94879773_181_+_PON2	262	269	1392.25	+	site "TTATGTTT"
chr7_94879592_94879773_181_+_PON2	106	113	1309.63	+	site "TTATGTTT"
chr7_94879592_94879773_181_+_PON2	361	368	941.372	+	site "TATTCTTT"
chr7_94879592_94879773_181_+_PON2	97	104	1288.46	-	site "TATTCTTT"
chr3_57532456_57532607_151_+_ARF4	26	33	1459.64	+	site "TTTGGTTA"
chr12_21284669_21284809_140_+_SLCO1B1	193	200	998.955	+	site "TTTTCTTT"
chr12_21284669_21284809_140_+_SLCO1B1	165	172	1491.86	-	site "TTTGCTTA"
chrX_41092787_41093055_268_+_DDX3X	72	79	1605.27	+	site "TTTTGTTT"
chrX_41092787_41093055_268_+_DDX3X	443	450	1140.4	-	site "TTTGGTTT"
chr3_123776517_123776748_231_+_DTX3L	19	26	1383.88	+	site "TTTGCTTT"
chr3_123776517_123776748_231_+_DTX3L	301	308	1840.38	-	site "TTTTCTTA"
chr8_110415726_110415905_179_+_ENY2	8	15	1530.33	+	site "TTAGCATT"
chr21_39782070_39782249_179_+_SH3BGR	98	105	982.577	+	site "TTTGCATT"
chr21_39782070_39782249_179_+_SH3BGR	231	238	1351.65	-	site "TTATGATT"
chr2_46983256_46983404_148_+_MCFD2	292	299	1591.84	+	site "TTATCTTA"
chr6_119543172_119543314_142_+_MAN1A1	283	290	1005.99	+	site "TTAGCATA"
chr6_119543172_119543314_142_+_MAN1A1	289	296	1083.9	-	site "TTATCTTA"
chr15_57215862_57215989_127_+_MYO1E	317	324	1489.55	+	site "TTTTCTTA"
chr6_158284926_158285182_256_+_SNX9	100	107	995.509	+	site "TATGGTTA"
chr7_94877125_94877277_152_+_PON2	111	118	1521.12	+	site "TTTTGATT"
chr7_94877125_94877277_152_+_PON2	129	136	3195.05	-	site "TTTGCTTA"
chr11_111593887_111594034_147_+_BCDO2	267	274	1408.34	+	site "TTAGGTTT"
chr2_197970965_197971124_159_+_SF3B1	338	345	1683.01	+	site "TTTTGTTA"
chr7_29520139_29520267_128_+_CHN2	44	51	2356.73	+	site "TTTGCTTT"
chr7_29520139_29520267_128_+_CHN2	293	300	973.068	-	site "TATTCTTT"
chr14_93652608_93652796_188_+_IFI27	78	85	1270.89	+	site "TTTTCTTT"

chr1_218382919_218383108_189+_IARS2	49	56	1611.74	+	site "TTATGTTT"
chr1_218382919_218383108_189+_IARS2	71	78	952.332	-	site "TATTCTTA"
chr1_159450224_159450398_174+_NDUFS2	103	110	1190.53	+	site "TATTGTTT"
chr1_159450224_159450398_174+_NDUFS2	97	104	556.007	-	site "TATGGATT"
chr5_150017991_150018161_170+_SYNPO	165	172	1614.32	+	site "TTTGATT"
chr1_153974607_153974763_156+_DAP3	17	24	555.312	+	site "TTAGGATA"
chr1_153974607_153974763_156+_DAP3	134	141	1026.19	-	site "TTTTCTTT"
chrX_106060272_106060428_156+_CLDN2	106	113	1153.45	+	site "TTTTCTTA"
chrX_106060272_106060428_156+_CLDN2	227	234	927.575	+	site "TATGGTTA"
chrX_106060272_106060428_156+_CLDN2	150	157	1900.15	-	site "TTTGCTTT"
chr7_40139093_40139245_152+_C7orf11	206	213	2362.22	+	site "TTTGCTTT"
chr7_40139093_40139245_152+_C7orf11	323	330	998.955	+	site "TTTTCTTT"
chr3_185531930_185532071_141+_EIF4G1	327	334	1349.28	+	site "TATGCATT"
chr3_185531930_185532071_141+_EIF4G1	72	79	2244.47	-	site "TTTTCTTT"
chr3_185531930_185532071_141+_EIF4G1	298	305	1396.11	-	site "TTTTCTTT"
chr15_38490161_38490298_137+_IVD	227	234	896.383	+	site "TTTGTTT"
chr15_38490161_38490298_137+_IVD	44	51	2345.3	-	site "TTTTCTTT"
chr1_151857950_151858070_120+_S100A13	179	186	859.997	+	site "TTAGCATT"
chr12_7167506_7167629_123+_RBP5	227	234	2229.08	+	site "TTTGCTTT"
chr14_68413574_68413695_121+_ACTN1	70	77	1579.39	+	site "TTGCATA"
chr14_68413574_68413695_121+_ACTN1	22	29	829.2	+	site "TATGGATA"
chr11_75116188_75116308_120+_MOGAT2	18	25	941.372	+	site "TATTCTTT"
chr1_15946637_15946749_112+_LOC388595	103	110	651.765	+	site "TTAGCATA"
chr11_107284473_107284575_102+_RAB39	113	120	1217.22	+	site "TTTTCATA"
chr16_20715685_20715989_304+_EXOD1	310	317	1854.72	+	site "TTAGCTTA"
chr16_20715685_20715989_304+_EXOD1	337	344	738.205	-	site "TTTGATT"
chr4_89661448_89661754_306+_PIGY	430	437	3340.47	+	site "TTAGCTTT"
chr4_89661448_89661754_306+_PIGY	264	271	668.597	-	site "TTATGTTT"
chr1_20854710_20854906_196+_DDOST	89	96	1581.58	+	site "TTGCATT"

chr7_65070111_65070282_171+_GUSB	39	46	1555.44	+	site "TTTGGTTA"
chr7_65070111_65070282_171+_GUSB	128	135	883.399	+	site "TATTCTTT"
chr7_65070111_65070282_171+_GUSB	206	213	1027.82	-	site "TTAGCTTT"
chr5_96135808_96136107_299+_CAST	217	224	708.731	+	site "TATTCATT"
chr5_96135808_96136107_299+_CAST	426	433	709.881	-	site "TATTCATT"
chr1_49421190_49421388_198+_---	85	92	931.455	+	site "TTTTGTTT"
chr4_110907104_110907273_169+_CFI	347	354	1784.37	+	site "TTTTCAATT"
chr20_22490148_22490313_165+_FOXA2	70	77	1527.65	+	site "TTTTCTTT"
chr9_34625748_34625905_157+_OPRS1	298	305	1430.67	+	site "TTAGCAATT"
chr12_123865465_123865628_163+_SCARB1	261	268	565.873	+	site "TAATCTTT"
chr2_240602830_240602987_157+_NDUFA10	109	116	1386.11	+	site "TTTTGTTT"
chr17_69948391_69948537_146+_GPRC5C	107	114	1208.68	+	site "TTAGCATA"
chr17_69948391_69948537_146+_GPRC5C	113	120	1901.34	-	site "TTATGTTA"
chr3_49371858_49371987_129+_RHOA	72	79	1094.13	+	site "TATTGTTT"
chr10_101900428_101900549_121+_SPFH1	13	20	637.562	+	site "TTTTCATA"
chr22_44132448_44132566_118+_SMC1B	187	194	562.071	+	site "TTAGGATA"
chr22_44132448_44132566_118+_SMC1B	49	56	480.448	+	site "TTAGGATA"
chr22_44132448_44132566_118+_SMC1B	249	256	1527.65	-	site "TTTTCTTT"
chr1_70676965_70677081_116+_CTH	58	65	828.317	+	site "TTATGTTA"
chr1_70676965_70677081_116+_CTH	107	114	2034.51	-	site "TTTTGATT"
chr18_41923596_41923747_151+_ATP5A1	1	8	351.406	+	site "TAATCAATT"
chr18_41923596_41923747_151+_ATP5A1	301	308	1329.58	-	site "TTTGCATA"
chr1_184546816_184546990_174+_PRG4	362	369	1605.27	+	site "TTTTGTTT"
chr1_184546816_184546990_174+_PRG4	137	144	1231.46	+	site "TTTGGTTA"
chr1_184546816_184546990_174+_PRG4	75	82	1183.87	+	site "TTTTGTTT"
chr1_184546816_184546990_174+_PRG4	241	248	873.987	+	site "TTTTGTTA"
chr1_184546816_184546990_174+_PRG4	351	358	1.0377	+	site "TTTGTTTT"
chr1_184546816_184546990_174+_PRG4	51	58	1381.49	-	site "TTTTCTTA"
chr6_49520284_49520451_167+_MUT	328	335	1502.64	+	site "TATGCTTA"

chr13_112849655_112849834_179+_F10	228	235	477.839	+	site "TTTTGATA"
chr13_112849655_112849834_179+_F10	44	51	918.001	-	site "TTTGCATT"
chr12_55891305_55891451_146+_LRP1	115	122	1412.19	+	site "TTTTCATT"
chr8_117727910_117728026_116+_EIF3S3	24	31	526.889	+	site "TATGGATT"
chr8_117727910_117728026_116+_EIF3S3	15	22	978.769	-	site "TTTTCATA"
chr14_101586776_101586960_184+_DYNC1H1	177	184	1239.85	+	site "TTTGGTTT"
chr3_97818642_97818840_198+_---	248	255	1837.32	+	site "TTTTGATT"
chr22_39790325_39790507_182+_EP300	4	11	1942.58	+	site "TTTGGTTA"
chr15_39359290_39359464_174+_CHP	201	208	778.718	+	site "TATTCATT"
chr15_39359290_39359464_174+_CHP	259	266	2362.2	-	site "TTTGGTTT"
chr5_179157911_179158079_168+_MGAT4B	34	41	2112.05	+	site "TTTTCTTA"
chr19_5629409_5629565_156+_P117	164	171	1040.52	+	site "TATGCATA"
chr19_5629409_5629565_156+_P117	164	171	564.003	-	site "TATGCATA"
chr11_1645314_1645458_144+_HCCA2	81	88	1678.62	+	site "TTTTGTTT"
chr11_1645314_1645458_144+_HCCA2	215	222	2849.8	-	site "TTTGCTTA"
chr11_1645314_1645458_144+_HCCA2	177	184	1601.54	-	site "TTTTGTTT"
chr11_1645314_1645458_144+_HCCA2	158	165	1164.03	-	site "TTTTCATA"
chr3_47867387_47867528_141+_MAP4	76	83	1093.22	+	site "TATGGTTT"
chrX_114788493_114788629_136+_PLS3	232	239	681.932	+	site "TTTTCATA"
chrX_114788493_114788629_136+_PLS3	329	336	1421.96	-	site "TTATCATT"
chr12_12519726_12519855_129+_DUSP16	249	256	1089.28	+	site "TTTTGTTA"
chr2_85426611_85426739_128+_RETSAT	8	15	1368.12	+	site "TTTTGTTT"
chr19_54299102_54299423_321+_SNRP70	510	517	1692.96	+	site "TTTTGTTT"
chr17_64038883_64039185_302+_PRKAR1A	347	354	964.654	+	site "TTATCATA"
chr12_54911381_54911656_275+_SLC39A5	43	50	1383.88	+	site "TTTGCTTT"
chr4_155705194_155705441_247+_FGB	379	386	1897.59	+	site "TTTGCTTA"
chr4_155705194_155705441_247+_FGB	208	215	1454.3	+	site "TATTCCTA"
chr4_155705194_155705441_247+_FGB	366	373	1303.17	+	site "TTTTCATT"
chr4_155705194_155705441_247+_FGB	402	409	907.953	+	site "TTTTCATT"

chr17_70256642_70256851_209+_SLC9A3R1	239	246	715.127	+	site "TTATGTTT"
chr17_70256642_70256851_209+_SLC9A3R1	19	26	1306.98	-	site "TTATCTTA"
chr17_27047491_27047689_198+_---	314	321	2263.91	+	site "TTTTCTTT"
chr8_92239755_92239944_189+_---	297	304	1873.56	+	site "TTTTCTTT"
chr8_92239755_92239944_189+_---	214	221	780.321	+	site "TATTGATA"
chr8_92239755_92239944_189+_---	109	116	1212.99	-	site "TTTGATT"
chr2_73333465_73333656_191+_CCT7	315	322	1660.71	+	site "TTTGATT"
chr11_64639933_64640113_180+_TM7SF2	162	169	2349.03	+	site "TTTGCTTA"
chr3_187986985_187987164_179+_EIF4A2	225	232	1656.1	+	site "TATTGATT"
chr11_65062468_65062646_178+_SCYL1	35	42	1767.96	+	site "TTTTCTTT"
chr22_31588085_31588261_176+_TIMP3	173	180	1659.22	+	site "TTTTGTTA"
chr15_43770480_43770657_177+_SQRDL	262	269	2324.26	+	site "TTTGCTTA"
chr15_43770480_43770657_177+_SQRDL	189	196	2377.35	-	site "TTTTCTTT"
chr15_43770480_43770657_177+_SQRDL	310	317	1571.85	-	site "TATTGTTT"
chr4_159839582_159839753_171+_ETFDH	179	186	2199.36	+	site "TTTTCTTT"
chr4_159839582_159839753_171+_ETFDH	277	284	1212.38	+	site "TTATCTTT"
chr4_159839582_159839753_171+_ETFDH	224	231	1098.37	-	site "TTTTCTTT"
chr4_100265903_100266072_169+_ADH4	18	25	1905.92	+	site "TTTTCTTA"
chr5_281304_281472_168+_SDHA	130	137	642.738	+	site "TATTCATT"
chr5_281304_281472_168+_SDHA	118	125	1686.37	-	site "TTTTGTTT"
chr22_49288269_49288435_166+_TMEM153	331	338	647.005	+	site "TTTGATA"
chr3_173715314_173715474_160+_TNFSF10	282	289	639.916	+	site "TATTCTTA"
chr15_83289458_83289616_158+_SLC28A1	209	216	802.629	+	site "TTAGCATA"
chr11_47142417_47142571_154+_ZNF289	177	184	1304.75	+	site "TTTGTTTA"
chr10_101602022_101602176_154+_ABCC2	306	313	1106.26	+	site "TTTTCTTA"
chr3_133777330_133777483_153+_ACAD11	328	335	1734.4	+	site "TTTTCAAT"
chr5_175749083_175749235_152+_HIGD2A	221	228	2199.36	+	site "TTTTCTTT"
chr5_175749083_175749235_152+_HIGD2A	270	277	2199.36	+	site "TTTTCTTT"
chr5_175749083_175749235_152+_HIGD2A	258	265	883.399	-	site "TATTCTTT"

chr6_30816411_30816562_151+_FLOT1	61	68	1913.06	+	site "TTTTCTTA"
chr6_30816411_30816562_151+_FLOT1	298	305	1549.83	+	site "TTTTCATT"
chr1_1312609_1312759_150+_CCNL2	88	95	1551.74	+	site "TTATGATT"
chr19_41308427_41308575_148+_CKAP1	56	63	1590.1	+	site "TTTTCTTT"
chr11_20361315_20361460_145+_HTATIP2	70	77	1765.49	+	site "TTTGGATT"
chr3_4999512_4999656_144+_BHLHB2	122	129	1819.35	+	site "TTTTCATT"
chr13_26909228_26909372_144+_MTIF3	86	93	1266.81	+	site "TTATCATA"
chr13_26909228_26909372_144+_MTIF3	46	53	478.054	+	site "TATTGTTA"
chr13_26909228_26909372_144+_MTIF3	87	94	618.033	-	site "TTATGATA"
chr12_119438744_119438888_144+_COQ5	13	20	2632.5	+	site "TTTTCTTT"
chr12_119438744_119438888_144+_COQ5	134	141	1728.24	-	site "TTTTCTTT"
chrX_16772891_16773034_143+_RBBP7	223	230	626.785	+	site "TATTGATT"
chr2_165250661_165250804_143+_COBLL1	24	31	2534.11	+	site "TTTTCTTA"
chr6_33056440_33056574_134+_BRD2	92	99	485.837	+	site "TATTGATA"
chr10_52231011_52231145_134+_ACF	78	85	3324.15	+	site "TTTGCTTA"
chr1_212280504_212280638_134+_PROX1	177	184	583.904	+	site "TAATGTTT"
chr10_33249198_33249331_133+_ITGB1	43	50	515.65	+	site "TTATCATA"
chr10_33249198_33249331_133+_ITGB1	234	241	1214.98	-	site "TATGGATT"
chr6_133045633_133045765_132+_VNN1	5	12	1126.01	+	site "TTATGTTT"
chr6_133045633_133045765_132+_VNN1	98	105	352.108	-	site "TAATGTTA"
chr19_54031449_54031581_132+_DHRS10	107	114	1905.92	+	site "TTTTCTTA"
chr19_54031449_54031581_132+_DHRS10	196	203	1087.14	+	site "TTAGCATT"
chr19_54031449_54031581_132+_DHRS10	209	216	673.55	+	site "TATTGATA"
chr19_54031449_54031581_132+_DHRS10	244	251	2528.31	-	site "TTTTCTTA"
chr1_233339788_233339918_130+_TOMM20	55	62	1714.18	+	site "TTTTCTTA"
chr14_69566761_69566890_129+_SMOC1	39	46	256.08	+	site "TAAGCTTT"
chr14_69566761_69566890_129+_SMOC1	200	207	857.023	-	site "TATTGATA"
chr12_9159647_9159776_129+_A2M	317	324	1055.09	+	site "TTTTGTTT"
chr12_9159647_9159776_129+_A2M	80	87	725.303	-	site "TTATGATA"

chr22_35799494_35799622_128+_TMPRSS6	293	300	1348.42	+	site "TTTTGTTA"
chr22_35799494_35799622_128+_TMPRSS6	299	306	664.761	-	site "TTTTCATA"
chr13_97898559_97898687_128+_FARP1	201	208	1386.34	+	site "TTATGTTA"
chr13_97898559_97898687_128+_FARP1	177	184	1767.96	-	site "TTTTCTTT"
chr15_62767744_62767871_127+_OAZ2	163	170	1543.29	+	site "TATTCTTT"
chr6_82512238_82512364_126+_FAM46A	54	61	564.003	+	site "TATGCATA"
chr6_82512238_82512364_126+_FAM46A	54	61	503.815	-	site "TATGCATA"
chr5_57787250_57787376_126+_PLK2	250	257	1055.14	+	site "TTATCTTA"
chr5_57787250_57787376_126+_PLK2	121	128	1945.34	-	site "TTATGTTT"
chr11_57223941_57224060_119+_ZDHHC5	166	173	1087.13	+	site "TTTTCTTT"
chr1_21417252_21417364_112+_ECE1	140	147	1384.86	+	site "TTATCATT"
chr1_21417252_21417364_112+_ECE1	116	123	1049	+	site "TATTCTTA"
chr1_21417252_21417364_112+_ECE1	242	249	2024.85	-	site "TTTGCAATT"
chr16_4445962_4446071_109+_DNAJA3	8	15	849.048	+	site "TATTGATT"
chr16_4445962_4446071_109+_DNAJA3	21	28	1048.97	-	site "TTTGATA"
chr2_201396188_201396292_104+_BZW1	283	290	1327.43	+	site "TATTCATT"
chr12_101771398_101771772_374+_PAH	126	133	1527.65	+	site "TTTTCTTT"
chr12_101771398_101771772_374+_PAH	236	243	1572.07	-	site "TTATCTTT"
chr3_172187116_172187393_277+_SLC2A2	176	183	999.857	+	site "TTTTGTTA"
chr3_172187116_172187393_277+_SLC2A2	235	242	1760.24	-	site "TTTGCTTT"
chr2_177804105_177804368_263+_NFE2L2	150	157	1981.47	+	site "TTTTCTTT"
chr2_177804105_177804368_263+_NFE2L2	101	108	1461.8	+	site "TTTTGTTA"
chr2_177804105_177804368_263+_NFE2L2	306	313	1386.11	+	site "TTTTGTTT"
chr6_46662707_46662887_180+_CYP39A1	345	352	1270.89	+	site "TTTTCTTT"
chr6_46662707_46662887_180+_CYP39A1	301	308	1639.1	-	site "TTTTCAATT"
chr6_46662707_46662887_180+_CYP39A1	62	69	998.955	-	site "TTTTCTTT"
chr4_104166212_104166387_175+_LOC133308	180	187	998.506	+	site "TATTGATT"
chr14_89933176_89933355_179+_CALM1	275	282	3340.47	+	site "TTAGCTTT"
chr2_46427531_46427708_177+_EPAS1	276	283	1917.95	+	site "TTTTCTTT"

chr19_55505403_55505571_168+_MYH14	306	313	4073.74	+	site "TTTGCTTT"
chr17_59262772_59262940_168+_PSMC5	46	53	1632.18	+	site "TTAGGTTT"
chr17_59262772_59262940_168+_PSMC5	181	188	1465.15	-	site "TTTTGTTT"
chr5_55270053_55270220_167+_IL6ST	78	85	620.644	+	site "TTTTCATA"
chr5_55270053_55270220_167+_IL6ST	151	158	457.844	-	site "TAAGCATT"
chr3_58492020_58492186_166+_ACOX2	219	226	1978.88	+	site "TTTTCTTT"
chr3_58492020_58492186_166+_ACOX2	207	214	1116.82	+	site "TTAGCATA"
chr1_145257854_145258020_166+_CHD1L	211	218	788.985	+	site "TTAGGATT"
chr1_145257854_145258020_166+_CHD1L	59	66	1978.88	-	site "TTTTCTTT"
chr1_145257854_145258020_166+_CHD1L	355	362	1465.15	-	site "TTTTGTTT"
chr1_145257854_145258020_166+_CHD1L	195	202	1327.51	-	site "TTTTCTTA"
chr14_74816650_74816814_164+_FOS	185	192	1929.67	+	site "TTTGCAAT"
chr3_167030499_167030662_163+_BCHE	55	62	1840.38	+	site "TTTTCTTA"
chr17_17338541_17338704_163+_RASD1	246	253	837.885	+	site "TTAGGTTA"
chr17_17338541_17338704_163+_RASD1	142	149	2899.27	-	site "TTTGTTTT"
chr13_30617701_30617863_162+_HSPH1	118	125	1174.26	+	site "TATTGTTT"
chr13_30617701_30617863_162+_HSPH1	174	181	1247.32	-	site "TTAGGTTA"
chr17_73007780_73007938_158+_9-Sep	100	107	825.917	+	site "TTAGCTTT"
chr11_133623903_133624059_156+_THYN1	118	125	642.155	+	site "TAATCTTT"
chr1_159232818_159232974_156+_F11R	102	109	1778.01	+	site "TTTGTTTT"
chr1_159232818_159232974_156+_F11R	328	335	382.186	+	site "TAATCATT"
chr1_159232818_159232974_156+_F11R	65	72	680.006	-	site "TTATCATT"
chr14_23756082_23756235_153+_NEDD8	265	272	358.991	+	site "TTAGGATT"
chr2_31601804_31601956_152+_SRD5A2	142	149	856.158	+	site "TTAGCATT"
chr1_178433564_178433716_152+_QSCN6	196	203	1678.76	+	site "TTATGTTA"
chr3_101565255_101565406_151+_TOMM70A	264	271	1269.58	+	site "TTTTCATA"
chr3_101565255_101565406_151+_TOMM70A	56	63	2039.71	-	site "TTTGCTTT"
chr13_99316548_99316699_151+_CLYBL	177	184	1308.9	+	site "TTTTGTTT"
chr13_99316548_99316699_151+_CLYBL	333	340	1461.8	-	site "TTTTGTTA"

chr5_76003438_76003586_148_+_IQGAP2	195	202	545.148	+	site "TATGGATA"
chr5_76003438_76003586_148_+_IQGAP2	208	215	1043.29	-	site "TTAGGTTT"
chr2_88266734_88266882_148_+_FLJ10916	328	335	736.38	+	site "TTTTGATA"
chr2_88266734_88266882_148_+_FLJ10916	334	341	1207.58	-	site "TTTTCTTA"
chr15_50661484_50661629_145_+_KIAA1370	146	153	1258.81	+	site "TTTGCATA"
chr15_50661484_50661629_145_+_KIAA1370	34	41	1924.74	-	site "TTAGCTTA"
chr2_138474958_138475099_141_+_HNMT	149	156	2125.63	+	site "TTTGCTTT"
chr2_138474958_138475099_141_+_HNMT	210	217	1574.66	+	site "TTTTCA TT"
chr2_138474958_138475099_141_+_HNMT	122	129	1822.07	-	site "TTTTGTTT"
chr4_109883050_109883190_140_+_AGXT2L1	72	79	1451.77	+	site "TATTCTTA"
chr19_50009741_50009881_140_+_BCAM	331	338	1252.76	+	site "TTTGCTTT"
chr16_78189879_78190013_134_+_MAF	44	51	1093.22	+	site "TATGGTTT"
chr16_78189879_78190013_134_+_MAF	141	148	2112.05	-	site "TTTTCTTA"
chr15_38485374_38485513_139_+_IVD	285	292	1750.84	+	site "TTTTGTTT"
chrX_66865890_66866027_137_+_AR	226	233	804	+	site "TTAGCTTT"
chrX_66865890_66866027_137_+_AR	66	73	941.091	-	site "TTTTGTTT"
chr3_81722858_81722992_134_+_GBE1	100	107	1087.13	+	site "TTTTCTTT"
chr3_81722858_81722992_134_+_GBE1	27	34	1045.01	+	site "TATTGTTT"
chr3_81722858_81722992_134_+_GBE1	49	56	2198.87	-	site "TTTGCTTA"
chr19_55050016_55050148_132_+_PTOV1	103	110	1060.42	+	site "TATTCATT"
chr19_55050016_55050148_132_+_PTOV1	58	65	730.761	-	site "TATTCATT"
chr17_45543009_45543139_130_+_PDK2	244	251	497.837	+	site "TAAGCATT"
chr14_104296805_104296935_130_+_SIVA	264	271	971.007	+	site "TATTCATA"
chr17_45538260_45538389_129_+_PDK2	309	316	926.622	+	site "TTTTCA TT"
chr17_45538260_45538389_129_+_PDK2	320	327	1447.83	-	site "TATTCTTT"
chr1_158453189_158453318_129_+_WDR42A	13	20	450.663	+	site "TAAGCTTT"
chr1_158453189_158453318_129_+_WDR42A	228	235	1505.05	-	site "TTTTCTTA"
chr3_150422080_150422208_128_+_CP	231	238	2123.12	+	site "TTATCTTA"
chr2_182502545_182502671_126_+_SSFA2	244	251	1250.28	+	site "TTTTGATT"

chr2_182502545_182502671_126+_SSFA2	298	305	2152.42	-	site "TTTGCTTT"
chr2_182502545_182502671_126+_SSFA2	65	72	1370.67	-	site "TTTGCTTT"
chrX_43475434_43475560_126+_MAOA	302	309	2053.95	+	site "TTTTGTTA"
chrX_43475434_43475560_126+_MAOA	165	172	1110.77	-	site "TTTTCAATT"
chr11_125720754_125720875_121+_DCPS	190	197	1707.16	+	site "TTTTCTTT"
chr5_35034555_35034679_124+_AGXT2	162	169	730.761	+	site "TATTCATT"
chr5_35034555_35034679_124+_AGXT2	267	274	1477.63	-	site "TTTGCTTA"
chr8_58033350_58033473_123+_IMPAD1	244	251	916.75	+	site "TTTTGTTT"
chr6_119542097_119542220_123+_MAN1A1	111	118	1097.6	+	site "TTTTCTTT"
chr6_119542097_119542220_123+_MAN1A1	186	193	1439.45	-	site "TTTTCTTT"
chr19_46620038_46620161_123+_BCKDHA	269	276	1474.63	+	site "TTATCTTA"
chrX_135120894_135121016_122+_FHL1	110	117	1404.93	+	site "TTTTCTTT"
chr9_130950549_130950668_119+_PPP2R4	309	316	856.767	+	site "TATTCCTTT"
chr10_54201298_54201417_119+_MBL2	26	33	869.371	+	site "TATGGTTA"
chr10_54201298_54201417_119+_MBL2	307	314	1410.36	-	site "TTATCTTT"
chr12_11215968_11216085_117+_TAS2R42	56	63	1329.58	+	site "TTTGCTTA"
chr2_27207542_27207656_114+_PREB	297	304	1471.16	+	site "TTTTGATT"
chr2_27207542_27207656_114+_PREB	288	295	333.604	-	site "TAATGTTA"
chr10_27441005_27441119_114+_YME1L1	290	297	1753.07	+	site "TTTTCTTT"
chr10_27441005_27441119_114+_YME1L1	153	160	998.955	-	site "TTTTCTTT"
chr17_37949618_37949729_111+_NAGLU	67	74	1444.31	+	site "TTAGGTTT"
chr17_37949618_37949729_111+_NAGLU	285	292	1142.99	-	site "TTTTCAATT"
chr1_53451778_53451889_111+_CPT2	128	135	2408.49	+	site "TATGCATT"
chr11_57325979_57326089_110+_CTNND1	1	8	1001.48	+	site "TATTCATT"
chr1_45855756_45855866_110+_NASP	41	48	2094.44	+	site "TTATCTTT"
chr6_33377484_33377593_109+_TAPBP	247	254	1708.11	+	site "TTTGCTTT"
chr6_33377484_33377593_109+_TAPBP	238	245	1288.46	-	site "TATTCCTTT"
chr13_97472437_97472546_109+_RANBP5	188	195	2013.24	+	site "TTTGCTTT"
chr13_97472437_97472546_109+_RANBP5	10	17	1087.13	-	site "TTTTCTTT"

chr5_177565501_177565608_107+_HNRPAB	71	78	1514.8	+	site "TTTTGTTT"
chr5_177565501_177565608_107+_HNRPAB	287	294	1572.07	-	site "TTATCTTT"
chr11_64289167_64289274_107+_SF1	25	32	816.267	+	site "TTTGTTTA"
chr5_132240663_132240769_106+_AFF4	229	236	572.43	+	site "TATGGATA"
chr11_65027229_65027335_106+_SCYL1	23	30	752.626	+	site "TTTGCATA"
chr11_65027229_65027335_106+_SCYL1	3	10	916.75	-	site "TTTTGTTT"
chr11_65027229_65027335_106+_SCYL1	29	36	798.647	-	site "TAAGCTTA"
chr4_160048472_160048577_105+_FLJ25371	192	199	1699.76	+	site "TTTTGATT"
chr4_160048472_160048577_105+_FLJ25371	291	298	1069.96	+	site "TTTTCTTT"
chr4_17193044_17193149_105+_LAP3	203	210	855.909	+	site "TTTTGTTT"
chr11_14435750_14435855_105+_COPB1	185	192	3139.9	+	site "TTATCTTT"
chr20_35827005_35827109_104+_CTNNBL1	210	217	1298.65	+	site "TTTGCTTT"
chr10_90964030_90964134_104+_LIPA	234	241	1381.73	+	site "TTTTCTTT"
chrX_114790163_114790266_103+_PLS3	122	129	1370.67	+	site "TTTGCTTT"
chrX_114790163_114790266_103+_PLS3	47	54	1281.5	+	site "TTTTCTTT"
chr1_31679936_31680038_102+_SERINC2	98	105	334.642	+	site "TTAGGATA"
chr3_188921996_188922097_101+_BCL6	180	187	859.997	+	site "TTAGCATT"
chr9_135514182_135514283_101+_DBH	174	181	992.063	+	site "TTTTCATA"
chr9_135514182_135514283_101+_DBH	38	45	1412.19	-	site "TTTTCATT"
chr20_32131547_32131648_101+_RALY	109	116	1246.68	+	site "TTTTCATT"
chr20_32131547_32131648_101+_RALY	143	150	1402.71	-	site "TTATCATA"
chr1_224064455_224064556_101+_EPHX1	92	99	1073.33	+	site "TTTGCATA"
chr1_224064455_224064556_101+_EPHX1	38	45	938.024	+	site "TTTGCATA"
chr1_224064455_224064556_101+_EPHX1	66	73	938.024	+	site "TTTGCATA"
chr1_224064455_224064556_101+_EPHX1	241	248	664.761	-	site "TTTTCATA"
chr8_58033846_58033946_100+_IMPAD1	91	98	2963.78	+	site "TTTGCTTT"
chr8_58033846_58033946_100+_IMPAD1	216	223	1212.38	-	site "TTATCTTT"
chr8_58033846_58033946_100+_IMPAD1	291	298	658.734	-	site "TTAGGTTA"
chr8_58033846_58033946_100+_IMPAD1	227	234	434.086	-	site "TATGGATA"

chr1_116742052_116742153_101_+_ATP1A1	243	250	1321.23	+	site "TTTTCATA"
chr15_73719014_73719113_99_+_IMP3	63	70	1984.85	+	site "TATTCTTA"
chr6_76004203_76004332_129_+_COX7A2	9	16	2169.23	+	site "TTATCTTT"
chr6_76004203_76004332_129_+_COX7A2	113	120	705.172	-	site "TTAGGTTT"
chr1_226401134_226401305_171_+_GUK1	170	177	981.915	+	site "TTATGTTT"
chr1_226401134_226401305_171_+_GUK1	191	198	1661.58	-	site "TATGCTTA"
chr11_27105442_27105653_211_+_BBOX1	4	11	1177.86	+	site "TTTGCATA"
chr11_27105442_27105653_211_+_BBOX1	57	64	1017.77	-	site "TTATGTTA"
chr4_162675986_162676184_198_+_FSTL5	47	54	909.549	+	site "TATGGTTA"
chr3_130016027_130016192_165_+_RAB7	75	82	924.247	+	site "TTTGGTTT"
chr3_130016027_130016192_165_+_RAB7	61	68	858.158	-	site "TATTCTTT"
chr3_130016027_130016192_165_+_RAB7	155	162	689.479	-	site "TTTGCATA"
chr19_3718272_3718425_153_+_MRPL54	267	274	2244.47	+	site "TTTTCTTT"
chr8_100973291_100973442_151_+_COX6C	100	107	1596.77	+	site "TTTTCTTT"
chr8_100973291_100973442_151_+_COX6C	298	305	1248.92	-	site "TTTGCATT"
chr5_39377934_39378085_151_+_C9	20	27	1394.61	+	site "TTTTCATT"
chr21_46381517_46381752_235_+_FTCD	160	167	2345.3	+	site "TTTTCTTT"
chr21_46381517_46381752_235_+_FTCD	311	318	828.992	+	site "TTAGCTTT"
chr8_103922929_103923127_198_+_AZIN1	376	383	810.528	+	site "TAATCTTT"
chr8_103922929_103923127_198_+_AZIN1	189	196	1387.59	-	site "TTTGATT"
chr14_21286698_21286896_198_+_---	118	125	719.523	+	site "TATTCATT"
chr14_21286698_21286896_198_+_---	185	192	1572.07	-	site "TTATCTTT"
chr11_115165648_115165846_198_+_---	280	287	2587.33	+	site "TTTGCTTA"
chr4_19651198_19651396_198_+_---	370	377	2019.7	+	site "TATTCTTT"
chr4_19651198_19651396_198_+_---	3	10	1820.89	+	site "TTTGCTTT"
chr12_29481713_29481911_198_+_OVCH1	344	351	423.103	+	site "TAAGCATT"
chr12_29481713_29481911_198_+_OVCH1	236	243	437.94	-	site "TATTGTTT"
chr3_170888297_170888495_198_+_MDS1	19	26	1428.43	+	site "TTTGCATT"
chr1_233771282_233771480_198_+_GNG4	188	195	2576.42	+	site "TTTGCTTT"

chr7_26199381_26199546_165_+_HNRPA2B1	270	277	952.332	+	site "TATTCTTA"
chr7_26199381_26199546_165_+_HNRPA2B1	223	230	1643.31	-	site "TTTTGTTT"
chr17_77396691_77396981_290_+_P4HB	37	44	2257.88	+	site "TTATCTTA"
chr7_137442704_137442869_165_+_AKR1D1	120	127	394.267	+	site "TAATGTTT"
chr7_137442704_137442869_165_+_AKR1D1	304	311	2973.21	-	site "TTTTGATT"
chr1_194887787_194887921_134_+_CFH	76	83	2600.29	+	site "TTTTGTTT"
chr21_34817677_34817918_241_+_DSCR1	159	166	1505.05	+	site "TTTTCTTA"
chr21_34817677_34817918_241_+_DSCR1	191	198	804	-	site "TTAGCTTT"
chr18_55147416_55147607_191_+_LMAN1	338	345	1619.1	+	site "TTTGTTTA"
chr18_55147416_55147607_191_+_LMAN1	194	201	1889.86	-	site "TTTTCTTA"
chr11_65027073_65027223_150_+_SCYL1	179	186	752.626	+	site "TTTGCATA"
chr11_65027073_65027223_150_+_SCYL1	159	166	916.75	-	site "TTTTGTTT"
chr11_65027073_65027223_150_+_SCYL1	74	81	884.016	-	site "TTAGCTTT"
chr11_65027073_65027223_150_+_SCYL1	185	192	798.647	-	site "TAAGCTTA"
chr15_74310669_74310786_117_+_ETFA	145	152	1321.91	+	site "TTTGTTTA"
chr9_33646761_33646959_198_+_---	169	176	532.303	+	site "TATTCATA"
chr9_33646761_33646959_198_+_---	38	45	1101.6	-	site "TTTGCATT"
chr8_106559105_106559303_198_+_ZFPM2	373	380	307.188	+	site "TAATGATT"
chr8_106559105_106559303_198_+_ZFPM2	90	97	434.257	-	site "TATTGATT"
chr5_132237220_132237396_176_+_LEAP2	83	90	2156.02	+	site "TTTGCTTT"
chr5_132237220_132237396_176_+_LEAP2	219	226	2260.27	-	site "TTTTCTTA"
chr14_86465871_86466033_162_+_---	167	174	846.47	+	site "TATGGATT"
chr14_86465871_86466033_162_+_---	180	187	778.892	+	site "TAATCTTT"
chr11_125713404_125713546_142_+_DCPS	319	326	348.688	+	site "TAATGTTT"
chr6_41863410_41863548_138_+_C6orf49	275	282	1686.37	+	site "TTTTGTTT"
chr6_43305046_43305171_125_+_C6orf108	234	241	1255.6	+	site "TTATCTTT"
chr6_43305046_43305171_125_+_C6orf108	82	89	1669.75	-	site "TTTGTTTA"
chr6_131939522_131939637_115_+_ARG1	127	134	1291.64	+	site "TTATCATA"
chr22_36531417_36531668_251_+_H1F0	19	26	2528.31	+	site "TTTTCTTA"

chrX_72957713_72957910_197_+---	315	322	2423.75	+	site "TTATCTTT"
chrX_72957713_72957910_197_+---	337	344	1291.65	+	site "TTTGTTTT"
chr9_116399777_116399953_176_+_ATP6V1G1	368	375	2244.47	+	site "TTTTCTTT"
chr16_54955345_54955519_174_+_AMFR	352	359	800.537	+	site "TTATGTTA"
chr16_54955345_54955519_174_+_AMFR	156	163	971.888	-	site "TTATGATT"
chr10_101601235_101601410_175_+_ABCC2	317	324	868.553	+	site "TTATGATT"
chr10_101792074_101792240_166_+_CPN1	249	256	1665	+	site "TTTTGTTT"
chr19_40431745_40431897_152_+_LSR	1	8	671.235	+	site "TTAGGATT"
chr19_40431745_40431897_152_+_LSR	12	19	893.68	-	site "TTAGCTTA"
chr8_59656796_59656936_140_+_SDCBP	80	87	1032.84	+	site "TTAGCATT"
chr18_57627116_57627339_223_+_RNF152	343	350	3048.22	+	site "TTTTCTTA"
chr18_57627116_57627339_223_+_RNF152	176	183	937.687	-	site "TATTCTTA"
chr22_26577813_26577997_184_+_PITPNB	61	68	1073.01	+	site "TTATCATT"
chr22_26577813_26577997_184_+_PITPNB	117	124	1164.66	-	site "TATGCATT"
chr1_239730314_239730489_175_+_FH	156	163	412.036	+	site "TTATGATT"
chr1_239730314_239730489_175_+_FH	76	83	3048.22	-	site "TTTTCTTA"
chr1_239730314_239730489_175_+_FH	180	187	1530.53	-	site "TTTTGTTT"
chr6_131197881_131198049_168_+_EPB41L2	137	144	1178.95	+	site "TATTGTTT"
chr6_131197881_131198049_168_+_EPB41L2	146	153	1193.42	-	site "TATTGTTT"
chr3_58391411_58391580_169_+_PDHB	278	285	404.049	+	site "TAATCTTA"
chr15_88576443_88576605_162_+_CIB1	36	43	1767.96	+	site "TTTTCTTT"
chr4_48596588_48596745_157_+_OCIAD2	105	112	2252.23	+	site "TTTGCTTT"
chr4_48596588_48596745_157_+_OCIAD2	199	206	869.814	+	site "TATTCTTT"
chr4_48596588_48596745_157_+_OCIAD2	279	286	814.336	-	site "TATTGATT"
chr4_83964698_83964852_154_+_SEC31A	124	131	1282.92	+	site "TTAGGTTA"
chr17_37971549_37971696_147_+_COASY	326	333	858.158	+	site "TATTCTTT"
chr17_37971549_37971696_147_+_COASY	50	57	1183.87	-	site "TTTTGTTT"
chr10_43201970_43202117_147_+_HNRPF	237	244	951.956	+	site "TTATGTTA"
chr10_43201970_43202117_147_+_HNRPF	330	337	775.731	+	site "TTAGCATA"

chr10_43201970_43202117_147+_HNRPF	229	236	1349.79	-	site "TTTTGTTT"
chr4_103936272_103936415_143+_UBE2D3	114	121	629.204	+	site "TAATCTTT"
chr4_103936272_103936415_143+_UBE2D3	166	173	1396.11	-	site "TTTTCTTT"
chr3_169210763_169210902_139+_GOLPH4	141	148	1913.06	+	site "TTTTCTTA"
chr3_169210763_169210902_139+_GOLPH4	118	125	1380.09	-	site "TTATGTTT"
chrX_114790761_114790888_127+_PLS3	206	213	2339.02	+	site "TTTTCA TT"
chrX_114790761_114790888_127+_PLS3	195	202	1620.65	-	site "TTTTCA TT"
chr1_195286463_195286572_109+_F13B	226	233	1249.96	+	site "TATGCATT"
chr1_195286463_195286572_109+_F13B	8	15	1259.5	-	site "TTTGCTTT"
chr1_195286463_195286572_109+_F13B	296	303	732.483	-	site "TATGGATT"
chr13_112821222_112821475_253+_F7	338	345	855.909	+	site "TTTTGTTT"
chr15_46957928_46958126_198+_EID1	102	109	1774.58	+	site "TTTTCTTT"
chr15_46957928_46958126_198+_EID1	145	152	924.659	-	site "TTTTGATA"
chr18_32350242_32350440_198+_FHOD3	319	326	634.974	+	site "TTATGATT"
chr18_32350242_32350440_198+_FHOD3	182	189	1603.18	-	site "TATTCATT"
chr18_32350242_32350440_198+_FHOD3	104	111	1485.21	-	site "TTTTGT TA"
chr18_32350242_32350440_198+_FHOD3	142	149	1368.74	-	site "TTTTGTTT"
chr4_83959003_83959199_196+_SEC31A	309	316	763.514	+	site "TATGCATT"
chr9_4701987_4702184_197+_AK3	194	201	834.814	+	site "TTTTGT TA"
chr6_135291861_135292055_194+_ALDH8A1	163	170	1406.46	+	site "TTTG GATA"
chr6_135291861_135292055_194+_ALDH8A1	177	184	1920.05	-	site "TTTG GATT"
chr1_35841377_35841565_188+_PSMB2	66	73	658.373	+	site "TTAGGTTT"
chr3_151942337_151942522_185+_SIAH2	271	278	549.46	+	site "TATTCATA"
chr7_65191469_65191648_179+_ASL	183	190	1142.03	+	site "TATGCATT"
chr7_52214516_52214694_178+_---	277	284	1287.27	+	site "TTTG GT TA"
chr7_52214516_52214694_178+_---	10	17	1505.05	-	site "TTTTCT TA"
chr8_22488789_22488967_178+_SORBS3	174	181	1750.84	+	site "TTTTGTTT"
chr10_85901978_85902154_176+_GHITM	213	220	1183.16	+	site "TTAGGATT"
chr10_85901978_85902154_176+_GHITM	182	189	1339.41	-	site "TTAGCATT"

chr10_85901978_85902154_176+_GHITM	167	174	1249.96	-	site "TATGCATT"
chr14_20561206_20561375_169+_NDRG2	260	267	637.562	+	site "TTTTCATA"
chr14_20561206_20561375_169+_NDRG2	156	163	696.258	-	site "TATGGTTT"
chr12_109268348_109268523_175+_ATP2A2	116	123	2130.08	+	site "TTTTCTTA"
chr12_109268348_109268523_175+_ATP2A2	245	252	1045.01	-	site "TATTGTTT"
chr6_43301425_43301585_160+_C6orf108	175	182	473.431	+	site "TAAGCTTT"
chr19_10039486_10039644_158+_LOC388503	122	129	439.576	+	site "TAAGCTTT"
chr20_3519825_3519974_149+_ATRN	297	304	1480.77	+	site "TTTTGTTT"
chr11_67963840_67963982_142+_LRP5	166	173	1106.26	+	site "TTTTCTTA"
chr7_26197164_26197304_140+_HNRPA2B1	220	227	2177.65	+	site "TTTTCAAT"
chr7_26197164_26197304_140+_HNRPA2B1	66	73	1154.88	+	site "TTTTCAAT"
chr11_14491740_14491879_139+_PSMA1	41	48	1196.19	+	site "TTTTGTTT"
chr3_48420839_48420977_138+_PLXNB1	141	148	1935.6	+	site "TTTGTTT"
chr4_187443828_187443963_135+_F11	125	132	927.575	+	site "TATGGTTA"
chr4_187443828_187443963_135+_F11	37	44	334.142	-	site "TAAGGTTA"
chr1_67924641_67924772_131+_GADD45A	246	253	1026.19	+	site "TTTTCTTT"
chr1_67924641_67924772_131+_GADD45A	172	179	597.07	-	site "TTAGGTTT"
chr1_67924641_67924772_131+_GADD45A	73	80	557.075	-	site "TTAGCATT"
chr13_112831753_112831880_127+_F10	30	37	1073.01	+	site "TTATCATT"
chr13_112831753_112831880_127+_F10	194	201	437.45	-	site "TAATGTTA"
chr14_20556473_20556590_117+_NDRG2	273	280	951.697	+	site "TTTTGATT"
chr12_94920867_94920980_113+_LTA4H	120	127	2096.67	+	site "TTTTCTTT"
chr12_54404423_54404532_109+_RDH5	94	101	1106.26	+	site "TTTTCTTA"
chr7_137411787_137411894_107+_AKR1D1	42	49	1342.79	+	site "TTTTCTTT"
chr7_137411787_137411894_107+_AKR1D1	49	56	1038.14	-	site "TTTTGATA"
chr7_137411787_137411894_107+_AKR1D1	110	117	998.955	-	site "TTTTCTTT"
chr14_54379308_54379415_107+_GCH1	22	29	1659.22	+	site "TTTTGTTA"
chr6_160103977_160104081_104+_ACAT2	58	65	1984.85	+	site "TATTCTTA"
chr6_160103977_160104081_104+_ACAT2	11	18	632.773	-	site "TATTGTTA"

chr15_73006202_73006327_125_+_COX5A	255	262	1068.53	+	site "TTAGGATT"
chr15_73006202_73006327_125_+_COX5A	127	134	375.219	+	site "TAATCTTT"
chr15_73006202_73006327_125_+_COX5A	205	212	491.23	-	site "TAATCATA"
chr19_19488068_19488194_126_+_NDUFA13	202	209	1968.21	+	site "TTTTCTTT"
chr19_19488068_19488194_126_+_NDUFA13	186	193	836.188	-	site "TTTGATT"
chr5_78414402_78414534_132_+_BHMT2	100	107	2011.84	+	site "TTATCTTT"
chr12_45038599_45038755_156_+_SLC38A2	340	347	1337.83	+	site "TTATGTTT"
chr12_45038599_45038755_156_+_SLC38A2	216	223	879.109	-	site "TTATGTTT"
chr7_22824075_22824257_182_+_TOMM7	18	25	1330.11	+	site "TTATGTTT"
chr9_115190181_115190419_238_+_ALAD	135	142	1459.15	+	site "TTAGTTT"
chr9_115190181_115190419_238_+_ALAD	167	174	1086.95	-	site "TTTGCATA"
chr14_69333514_69333734_220_+_SLC10A1	41	48	1072.85	+	site "TTTGCATA"
chr14_69333514_69333734_220_+_SLC10A1	169	176	998.955	+	site "TTTTCTTT"
chr14_69333514_69333734_220_+_SLC10A1	72	79	994.063	+	site "TATTCTTA"
chr5_140875417_140875603_186_+_DIAPH1	243	250	1543.67	+	site "TTTTCTTT"
chr16_1928266_1928452_186_+_SEPX1	161	168	1159.34	+	site "TTATCTTA"
chr4_97013195_97013374_179_+_PDHA2	70	77	1467.96	+	site "TTTTCAATT"
chr4_97013195_97013374_179_+_PDHA2	46	53	1089.17	-	site "TTTTCATA"
chr1_55121899_55122056_157_+_DHCR24	74	81	1346.68	+	site "TATTCTTT"
chr12_54408298_54408462_164_+_CD63	93	100	933.894	+	site "TTATGATT"
chr4_77299307_77299438_131_+_SCARB2	69	76	2468.06	+	site "TTATCTTA"
chrX_152425756_152425865_109_+_BGN	34	41	1169.49	+	site "TTATGTTT"
chrX_152425756_152425865_109_+_BGN	151	158	1697.73	-	site "TTTTGTTT"
chr2_72971953_72972125_172_+_SPR	338	345	2365.04	+	site "TTAGCTTT"
chr2_72971953_72972125_172_+_SPR	69	76	2576.42	-	site "TTTGCTTT"
chr2_72971953_72972125_172_+_SPR	162	169	1258.59	-	site "TTAGGTTT"
chr1_15773798_15773964_166_+_AGMAT	160	167	2180.81	+	site "TATGCTTT"
chr4_155748530_155748708_178_+_FGG	224	231	978.766	+	site "TTATCTTT"
chr4_155748530_155748708_178_+_FGG	314	321	2177.75	-	site "TTTTGATT"

chr4_155748530_155748708_178+_FGG	199	206	1412.33	-	site "TTTGCTTT"
chr4_155728819_155728989_170+_FGA	263	270	1038.47	+	site "TTTGGTTA"
chr16_31108820_31108984_164+_FUS	202	209	1236.56	+	site "TTTTGTTT"
chr10_5004786_5004972_186+_AKR1C1	110	117	1281.5	+	site "TTTTCTTT"
chr10_5004786_5004972_186+_AKR1C1	302	309	1120.17	+	site "TTTTCTTT"
chr10_5004786_5004972_186+_AKR1C1	248	255	888.842	-	site "TTTGGATA"
chr2_201176223_201176373_150+_AOX1	184	191	1060.07	+	site "TTTTCAATT"
chr19_19083353_19083498_145+_SLC25A42	4	11	1873.56	+	site "TTTTCTTT"
chr3_158349969_158350103_134+_CCNL1	283	290	584.868	+	site "TATTCATA"
chr17_44836921_44837055_134+_PHB	269	276	2157.08	+	site "TTTTCTTT"
chr17_44836921_44837055_134+_PHB	57	64	428.519	-	site "TAATCTTA"
chr14_63954330_63954486_156+_MTHFD1	310	317	1489.55	+	site "TTTTCTTA"
chr14_63954330_63954486_156+_MTHFD1	343	350	869.814	+	site "TATTCCTT"
chr14_63954330_63954486_156+_MTHFD1	224	231	1562.88	-	site "TATTCCTT"
chr1_120056164_120056319_155+_PHGDH	220	227	1106.26	+	site "TTTTCTTA"
chr12_97515793_97515937_144+_SLC25A3	14	21	1394.61	+	site "TTTTCAATT"
chr12_97515793_97515937_144+_SLC25A3	154	161	1097.6	-	site "TTTTCTTT"
chr3_49380898_49381040_142+_RHOA	245	252	446.032	+	site "TTAGGATT"
chr3_49380898_49381040_142+_RHOA	132	139	1043.29	-	site "TTAGGTTT"
chr3_49380898_49381040_142+_RHOA	294	301	1026.19	-	site "TTTTCTTT"
chr3_49380898_49381040_142+_RHOA	147	154	885.09	-	site "TTTTCAATT"
chr2_27599712_27599846_134+_GCKR	199	206	867.786	+	site "TTAGCAATT"
chr6_30565610_30565743_133+_HLA-E	269	276	998.955	+	site "TTTTCTTT"
chr1_116745325_116745455_130+_ATP1A1	263	270	1727.4	+	site "TTTGCTTA"
chr1_116745325_116745455_130+_ATP1A1	52	59	1016.84	-	site "TATGGTTT"
chr1_116745325_116745455_130+_ATP1A1	297	304	894.321	-	site "TTTTCATA"
chr1_116745325_116745455_130+_ATP1A1	317	324	879.241	-	site "TTTTGTTT"
chr3_188251723_188251843_120+_ST6GAL1	122	129	1924.03	+	site "TTAGCTTT"
chr3_188251723_188251843_120+_ST6GAL1	137	144	1368.12	+	site "TTTTGTTT"

chr3_188251723_188251843_120+_ST6GAL1	236	243	719.523	+	site "TATTCATT"
chr3_188251723_188251843_120+_ST6GAL1	107	114	1241.68	-	site "TATGCTTA"
chr11_124993502_124993621_119+_STT3A	141	148	879.109	+	site "TTATGTTT"
chr8_22488662_22488776_114+_SORBS3	301	308	1750.84	+	site "TTTTGTTT"
chr6_143423752_143423863_111+_AIG1	205	212	1514.8	+	site "TTTTGTTT"
chr6_143423752_143423863_111+_AIG1	105	112	1267.82	+	site "TTATGTTA"
chr6_56431462_56431573_111+_DST	118	125	1694.74	+	site "TTATCTTA"
chr6_56431462_56431573_111+_DST	178	185	1162.63	-	site "TATGCATT"
chr11_2978761_2978871_110+_CARS	122	129	1045.39	+	site "TTATGTTT"
chr11_2978761_2978871_110+_CARS	11	18	700.149	-	site "TTTTGATT"
chr16_54953457_54953564_107+_AMFR	248	255	1474.63	+	site "TTATCTTA"
chr16_54953457_54953564_107+_AMFR	134	141	651.765	-	site "TTAGCATA"
chr1_67238076_67238328_252+_SLC35D1	360	367	885.09	+	site "TTTTCATT"
chr1_67238076_67238328_252+_SLC35D1	345	352	879.109	+	site "TTATGTTT"
chr1_89371530_89371728_198+_GBP7	296	303	1036.01	+	site "TTATGTTT"
chr1_89371530_89371728_198+_GBP7	239	246	540.28	-	site "TTAGCATT"
chr5_159960042_159960239_197+_---	271	278	1499.7	+	site "TTATCATT"
chr2_204009906_204010101_195+_RAPH1	200	207	1694.74	+	site "TTATCTTA"
chr2_204009906_204010101_195+_RAPH1	133	140	627.803	+	site "TATTGATT"
chr2_204009906_204010101_195+_RAPH1	274	281	737.462	-	site "TTTGCATA"
chr22_31587178_31587371_193+_TIMP3	260	267	1140.4	+	site "TTTGTTT"
chr1_89290828_89291020_192+_GBP1	220	227	1848.2	+	site "TTTTGTTT"
chr10_74362112_74362302_190+_OIT3	257	264	494.444	+	site "TTATGATT"
chr10_74362112_74362302_190+_OIT3	313	320	1146.11	-	site "TTAGGTTA"
chr2_69396274_69396452_178+_GFPT1	228	235	1596.21	+	site "TTTGATT"
chr4_39134365_39134540_175+_RPL9	10	17	926.622	+	site "TTTTCATT"
chr4_39134365_39134540_175+_RPL9	356	363	2185.27	-	site "TTTTGATT"
chr2_119737716_119737883_167+_STEAP3	274	281	925.927	+	site "TTAGGATT"
chr16_69252910_69253077_167+_LOC92154	283	290	1414.55	+	site "TTTTCATT"

chr16_69252910_69253077_167+_LOC92154	357	364	1402.35	-	site "TTAGGTTA"
chr5_141500257_141500421_164+_NDFIP1	15	22	694.818	+	site "TAATCTTT"
chr3_31652549_31652713_164+_STT3B	326	333	608.088	+	site "TATGGTTA"
chr3_31652549_31652713_164+_STT3B	61	68	1744	-	site "TTTTCTTA"
chr6_4064414_4064576_162+_PECI	281	288	1877.86	+	site "TATGCTTT"
chr6_4064414_4064576_162+_PECI	105	112	1368.12	+	site "TTTTGTTT"
chr6_4064414_4064576_162+_PECI	268	275	1002.08	+	site "TTTGCATT"
chr6_4064414_4064576_162+_PECI	159	166	800.657	-	site "TTTTGTTA"
chr17_2542023_2542184_161+_KIAA0664	265	272	821.928	+	site "TAAGCTTA"
chr17_2542023_2542184_161+_KIAA0664	265	272	473.876	-	site "TAAGCTTA"
chr2_61952769_61952930_161+_CCT4	353	360	3296.22	+	site "TTTTGTTT"
chr2_61952769_61952930_161+_CCT4	181	188	936.007	-	site "TTTTGATA"
chr1_53144332_53144492_160+_ECHDC2	256	263	1381.73	+	site "TTTTCTTT"
chr9_115176340_115176499_159+_HDHD3	351	358	778.718	+	site "TATTCATT"
chr19_11409694_11409853_159+_PRKCSH	16	23	1527.65	+	site "TTTTCTTT"
chr19_11409694_11409853_159+_PRKCSH	65	72	1410.36	-	site "TTATCTTT"
chr6_43374855_43375010_155+_SLC22A7	17	24	1848.2	+	site "TTTTGTTT"
chr3_630777_630931_154+_---	109	116	2423.75	+	site "TTATCTTT"
chr1_232808369_232808523_154+_IRF2BP2	108	115	2147.17	+	site "TTATCTTT"
chr21_26270109_26270261_152+_APP	217	224	1432.82	+	site "TTTGGTTT"
chr21_26270109_26270261_152+_APP	44	51	2292.53	-	site "TTTTCTTA"
chr21_26270109_26270261_152+_APP	195	202	1686.37	-	site "TTTTGTTT"
chr21_26270109_26270261_152+_APP	76	83	670.8	-	site "TATGCATT"
chr12_200092_200243_151+_SLC6A13	182	189	412.036	+	site "TTATGATT"
chr5_150479041_150479188_147+_ANXA6	269	276	1710.02	+	site "TTTTCTTT"
chr5_150479041_150479188_147+_ANXA6	140	147	1528.59	+	site "TTTTGTTA"
chr5_150479041_150479188_147+_ANXA6	121	128	870.189	-	site "TTTGGATT"
chr3_81622173_81622318_145+_GBE1	307	314	1873.56	+	site "TTTTCTTT"
chr3_81622173_81622318_145+_GBE1	268	275	1394.61	+	site "TTTTCAAT"

chr3_81622173_81622318_145_+_GBE1	98	105	1113.01	+	site "TATGCATA"
chr3_81622173_81622318_145_+_GBE1	46	53	1006.22	-	site "TTTGGTTA"
chr3_81622173_81622318_145_+_GBE1	180	187	707.427	-	site "TATGGTTT"
chr3_81622173_81622318_145_+_GBE1	227	234	642.409	-	site "TATTGTTA"
chr19_11087766_11087910_144_+_LDLR	334	341	1605.27	+	site "TTTTGTTT"
chr17_18094857_18095001_144_+_FLII	143	150	885.014	+	site "TATGCATA"
chr17_18094857_18095001_144_+_FLII	96	103	2133.3	-	site "TTTTCTTA"
chr7_55246500_55246641_141_+_EGFR	89	96	1097.99	+	site "TTTTGTTT"
chr1_229202749_229202890_141_+_ARV1	138	145	738.422	+	site "TAAGCTTT"
chr1_229202749_229202890_141_+_ARV1	218	225	1160.07	-	site "TATGCTTA"
chr9_71059396_71059536_140_+_TJP2	225	232	2419.61	+	site "TTTTCTTA"
chr9_71059396_71059536_140_+_TJP2	84	91	1429.63	-	site "TTTTCA TT"
chr12_102850722_102850861_139_+_HSP90B1	295	302	759.241	+	site "TTTTGATA"
chr6_43146984_43147120_136_+_KLC4	112	119	2263.91	+	site "TTTTCTTT"
chr18_53419822_53419957_135_+_NARS	41	48	2427.97	+	site "TTTGCTTA"
chr22_16453058_16453192_134_+_SLC25A18	13	20	1190.74	+	site "TTTTCA TT"
chr22_16453058_16453192_134_+_SLC25A18	43	50	598.135	-	site "TAATCTTT"
chr20_47167744_47167878_134_+_STAU1	296	303	1605.27	+	site "TTTTGTTT"
chr15_37674918_37675050_132_+_THBS1	4	11	1881.38	+	site "TTTGGTTT"
chr12_2778553_2778684_131_+_FKBP4	178	185	1532.76	+	site "TATTCA TT"
chr12_93980457_93980586_129_+_NR2C1	148	155	2209.76	+	site "TTATCTTT"
chr6_24643143_24643271_128_+_ALDH5A1	199	206	2356.73	+	site "TTTGCTTT"
chr6_24643143_24643271_128_+_ALDH5A1	301	308	1322.02	+	site "TTATCTTT"
chr4_39226218_39226345_127_+_C4orf34	252	259	953.391	+	site "TATTCTTA"
chr2_231614249_231614376_127_+_PSMD1	203	210	562.854	+	site "TTTTCATA"
chr2_231614249_231614376_127_+_PSMD1	152	159	1408.72	-	site "TTTGCATA"
chr14_19881220_19881346_126_+_PARP2	166	173	1439.45	+	site "TTTTCTTT"
chr14_19881220_19881346_126_+_PARP2	178	185	1396.11	+	site "TTTTCTTT"
chr4_109882923_109883048_125_+_AGXT2L1	249	256	1451.77	+	site "TATTCTTA"

chr7_128595314_128595438_124_+_TSPAN33	188	195	1291.27	+	site "TTTTGTTT"
chr17_7774560_7774684_124_+_TRAPPC1	29	36	1575.37	+	site "TTTTCTTT"
chr12_13044235_13044359_124_+_HEBP1	214	221	765.075	+	site "TTTTCATATA"
chr17_45814741_45814864_123_+_LRRC59	145	152	1524.09	+	site "TTTGATT"
chr17_45814741_45814864_123_+_LRRC59	101	108	2338.5	-	site "TTATCTTA"
chr12_69034845_69034967_122_+_CNOT2	6	13	1672.03	+	site "TTATCTTA"
chr3_162452613_162452734_121_+_NMD3	220	227	1788.75	+	site "TTATGTTT"
chr3_162452613_162452734_121_+_NMD3	137	144	798.802	+	site "TTATCATT"
chr3_162452613_162452734_121_+_NMD3	151	158	1527.65	-	site "TTTTCTTT"
chr1_219031465_219031586_121_+_MOSC1	217	224	951.697	+	site "TTTTGATT"
chr2_10112122_10112242_120_+_KLF11	295	302	1590.1	+	site "TTTTCTTT"
chr2_10112122_10112242_120_+_KLF11	15	22	1929.66	-	site "TTAGCTTT"
chr3_123931733_123931852_119_+_PARP14	231	238	1368.12	+	site "TTTTGTTT"
chr3_123931733_123931852_119_+_PARP14	269	276	2422.68	-	site "TTTTGTTT"
chr9_130435648_130435766_118_+_SPTAN1	193	200	2612.34	+	site "TTTGATT"
chr18_45262282_45262400_118_+_LOC497661	159	166	359.029	+	site "TAATGTTA"
chr18_45262282_45262400_118_+_LOC497661	5	12	2252.23	-	site "TTTGCTTT"
chr1_113044594_113044712_118_+_MOV10	39	46	372.793	+	site "TAAGGTTT"
chr2_177804583_177804700_117_+_NFE2L2	37	44	1531.36	+	site "TTTTGATT"
chr9_35056682_35056798_116_+_VCP	24	31	896.383	+	site "TTTGTTT"
chr5_178980519_178980635_116_+_HNRPH1	67	74	838.747	+	site "TATGGATT"
chr11_74551362_74551477_115_+_SLCO2B1	285	292	952.327	+	site "TTAGCTTA"
chr3_9910392_9910505_113_+_JAGN1	43	50	1444.64	+	site "TTTGTTA"
chr3_9910392_9910505_113_+_JAGN1	70	77	1843.45	-	site "TTTTCTTA"
chr3_9909599_9909712_113_+_JAGN1	209	216	1117.66	+	site "TTATGTTT"
chr16_54953824_54953937_113_+_AMFR	43	50	1259.5	+	site "TTTGCTTT"
chr16_54953824_54953937_113_+_AMFR	83	90	508.666	-	site "TTTGATA"
chr15_37675297_37675410_113_+_THBS1	35	42	1480.77	+	site "TTTTGTTT"
chr15_37675297_37675410_113_+_THBS1	163	170	1383.88	+	site "TTTGCTTT"

chr15_37675297_37675410_113_+_THBS1	88	95	678.302	-	site "TAATCTTA"
chr13_46254887_46254999_112_+_ESD	37	44	2263.48	+	site "TTTTCTTT"
chr7_149208311_149208420_109_+_ATP6V0E2	1	8	3018.57	+	site "TTTTCTTT"
chr8_144733873_144733982_109_+_EEF1D	225	232	711.608	+	site "TAATCTTA"
chr1_17895950_17896059_109_+_ARHGEF10L	96	103	533.197	+	site "TAAGCTTT"
chr10_115330400_115330506_106_+_HABP2	58	65	1270.89	+	site "TTTTCTTT"
chrX_153324403_153324505_102_+_GDI1	76	83	3271.69	+	site "TTTTCTTA"
chrX_153324403_153324505_102_+_GDI1	244	251	1208.68	+	site "TTAGCATA"
chr16_69253115_69253215_100_+_LOC92154	78	85	1414.55	+	site "TTTTCATT"
chr16_69253115_69253215_100_+_LOC92154	152	159	1402.35	-	site "TTAGGTTA"
chr5_176953274_176953438_164_+_TMED9	1	8	1659.67	+	site "TTATCTTT"
chr5_137830710_137830951_241_+_EGR1	381	388	905.939	+	site "TTTTCTTT"
chr5_176710755_176710904_149_+_LMAN2	323	330	2036.92	+	site "TTTTGTTT"
chr3_140719997_140720103_106_+_RBP1	19	26	300.462	+	site "TAAGCATT"
chr3_140719997_140720103_106_+_RBP1	3	10	590.836	-	site "TTTTGATA"
chr20_60149253_60149376_123_+_PSMA7	154	161	925.121	+	site "TATTCTTA"
chr4_48589547_48589670_123_+_OCIAD2	80	87	947.005	+	site "TTTGATA"
chr6_43038468_43038576_108_+_GNMT	24	31	976.393	+	site "TTATCATA"
chr1_202367623_202367731_108_+_ETNK2	157	164	2109.31	+	site "TTTGTTTT"
chr1_202367623_202367731_108_+_ETNK2	298	305	3076.52	-	site "TTTGCTTA"
chr19_53812386_53812567_181_+_RPL18	200	207	608.687	+	site "TTTGCATA"
chr11_118393850_118394040_190_+_RPS25	5	12	1098.42	+	site "TTTTCATA"
chr11_118393850_118394040_190_+_RPS25	69	76	378.006	-	site "TAATCTTT"
chr6_64349196_64349370_174_+_PTP4A1	317	324	1695.52	+	site "TTTTGTTT"
chr6_64349196_64349370_174_+_PTP4A1	242	249	1514.8	+	site "TTTTGTTT"
chr6_64349196_64349370_174_+_PTP4A1	148	155	1145.45	-	site "TATGCTTT"
chr22_22439576_22439693_117_+_C22orf16	72	79	2024.39	+	site "TATGCTTA"
chr22_22439576_22439693_117_+_C22orf16	6	13	1502.81	+	site "TATTGTTT"
chr22_22439576_22439693_117_+_C22orf16	111	118	656.771	-	site "TATGTTTT"

chr20_36426025_36426173_148+_LBP	170	177	1094.13	+	site "TATTGTTT"
chr5_95183945_95184129_184+_GLRX	298	305	620.644	+	site "TTTTCATA"
chr22_27521984_27522112_128+_XBP1	191	198	975.501	+	site "TTTGTTTT"
chr22_27521984_27522112_128+_XBP1	291	298	1444.64	-	site "TTTGTTTA"
chr10_124800561_124800752_191+_ACADSB	310	317	2152.42	+	site "TTTGCTTT"
chr16_54977325_54977488_163+_AMFR	304	311	2255.54	+	site "TTTTGTTT"
chr16_54977325_54977488_163+_AMFR	37	44	1933.33	+	site "TTTTCTTT"
chr19_52682726_52682864_138+_NAPA	71	78	1319.37	+	site "TTTTGATT"
chr19_52682726_52682864_138+_NAPA	101	108	1064.96	-	site "TTATGTTA"
chr1_56733978_56734116_138+_PPAP2B	108	115	1204.91	+	site "TTTGATA"
chr1_56733978_56734116_138+_PPAP2B	10	17	1236.02	-	site "TATTGATT"
chr1_65071610_65071748_138+_JAK1	24	31	1489.55	+	site "TTTTCTTA"
chr1_153379279_153379405_126+_DPM3	226	233	1643.52	+	site "TTTTGATT"
chr1_153379279_153379405_126+_DPM3	190	197	2995.47	-	site "TTATCTTT"
chr1_153379279_153379405_126+_DPM3	208	215	1291.37	-	site "TTAGCTTT"
chr16_3653422_3653536_114+_TRAP1	27	34	2537.24	+	site "TTTGTTTT"
chr5_34025128_34025236_108+_AMACR	224	231	1395.35	+	site "TATTCATA"
chr5_34025128_34025236_108+_AMACR	169	176	961.004	-	site "TATGCATT"
chr9_129911217_129911317_100+_SLC25A25	112	119	315.607	+	site "TAATGTTA"
chr14_34942590_34942760_170+_NFKBIA	314	321	1825.12	+	site "TTTGCTTA"
chr14_34942590_34942760_170+_NFKBIA	27	34	2498.27	-	site "TTTGCTTT"
chr14_34942590_34942760_170+_NFKBIA	341	348	1986.26	-	site "TTTGCTTT"
chr4_155729010_155729173_163+_FGA	313	320	1161.17	+	site "TTTGATT"
chr4_155729010_155729173_163+_FGA	72	79	1038.47	+	site "TTTGTTTA"
chr4_155729010_155729173_163+_FGA	191	198	1327.51	-	site "TTTTCTTA"
chr22_35237530_35237689_159+_EIF3S7	325	332	1942.58	+	site "TTTGTTTA"
chr12_7171448_7171562_114+_RBP5	137	144	1489.55	+	site "TTTTCTTA"
chr12_7171448_7171562_114+_RBP5	149	156	1287.25	+	site "TATGTTTT"
chr3_41255671_41255867_196+_CTNNB1	79	86	965.795	+	site "TATGTTTT"

chr2_21086839_21087025_186+_APOB	320	327	1694.74	+	site "TTATCTTA"
chr2_21086839_21087025_186+_APOB	311	318	664.761	-	site "TTTTCATA"
chrX_70437213_70437365_152+_NONO	318	325	1765.49	+	site "TTTGATT"
chrX_70437213_70437365_152+_NONO	279	286	1363.31	-	site "TATTGATA"
chr22_16455061_16455200_139+_ATP6V1E1	130	137	1459.15	+	site "TTAGGTTT"
chr5_36231088_36231205_117+_C5orf33	157	164	960.1	+	site "TTTGTTT"
chr5_36231088_36231205_117+_C5orf33	15	22	1257.31	-	site "TTATCATT"
chr9_122771109_122771224_115+_C5	186	193	1235.94	+	site "TTATCATT"
chr9_122771109_122771224_115+_C5	196	203	1245.84	-	site "TTTTGTTA"
chr16_57034730_57034908_178+_NDRG4	196	203	1630.98	+	site "TTTTGTTT"
chr11_44014110_44014280_170+_LOC390110	304	311	1329.2	+	site "TATTCATT"
chr17_4630813_4630968_155+_TM4SF5	183	190	1656.48	+	site "TTTTGTTT"
chr17_4630813_4630968_155+_TM4SF5	200	207	1605.27	+	site "TTTTGTTT"
chr17_4630813_4630968_155+_TM4SF5	144	151	826.351	+	site "TTTTCATT"
chr17_4630813_4630968_155+_TM4SF5	345	352	1370.3	-	site "TATTGTTT"
chr1_244965874_244966019_145+_SCCPDH	8	15	924.247	+	site "TTTGTTT"
chr1_244965874_244966019_145+_SCCPDH	280	287	1753.07	-	site "TTTTCTTT"
chr2_143514541_143514669_128+_KYNU	188	195	3187.74	+	site "TTTGCTTA"
chr2_143514541_143514669_128+_KYNU	321	328	1397.93	+	site "TATTCTTT"
chr2_143514541_143514669_128+_KYNU	47	54	1319.37	+	site "TTTTGATT"
chr2_143514541_143514669_128+_KYNU	170	177	1222.84	+	site "TTTTCATA"
chr2_143514541_143514669_128+_KYNU	79	86	971.007	-	site "TATTCATA"
chr16_8783179_8783307_128+_ABAT	296	303	333.156	+	site "TAATCATA"
chr12_74710877_74711004_127+_PHLDA1	36	43	473.431	+	site "TAAGCTTT"
chr2_75573272_75573396_124+_TMEM166	136	143	1337.11	+	site "TTATCATT"
chr2_75573272_75573396_124+_TMEM166	262	269	1505.05	-	site "TTTTCTTA"
chr2_75573272_75573396_124+_TMEM166	160	167	646.987	-	site "TATTGATT"
chr2_191973355_191973476_121+_MYO1B	108	115	1184.08	+	site "TTTTCTTA"
chr5_134938172_134938292_120+_CXCL14	213	220	2817.85	+	site "TTTTCTTT"

chr5_134938172_134938292_120+_CXCL14	154	161	1327.51	+	site "TTTTCTTA"
chrX_114788142_114788261_119+_PLS3	243	250	689.479	+	site "TTTGCATA"
chr3_153665944_153666061_117+_MBNL1	254	261	1174.26	+	site "TATTGTTT"
chr3_153665944_153666061_117+_MBNL1	223	230	2693.8	-	site "TTATCTTT"
chr3_153665944_153666061_117+_MBNL1	209	216	1142.23	-	site "TTTGCTTT"
chr3_153665944_153666061_117+_MBNL1	200	207	893.64	-	site "TTTGCATT"
chr3_153665944_153666061_117+_MBNL1	303	310	620.644	-	site "TTTTCATA"
chr16_16151938_16152055_117+_ABCC6	307	314	1030.01	+	site "TTTTCTTT"
chr5_137920058_137920173_115+_HSPA9	290	297	1154.88	+	site "TTTTCATT"
chr2_201188919_201189034_115+_AOX1	69	76	1679.53	+	site "TTATCTTA"
chr17_45619084_45619188_104+_COL1A1	104	111	1233.33	+	site "TTTTGTTT"
chr17_45619084_45619188_104+_COL1A1	214	221	2911.8	-	site "TTATCTTT"
chr17_2544208_2544311_103+_KIAA0664	92	99	1707.16	+	site "TTTTCTTT"
chr17_2544208_2544311_103+_KIAA0664	267	274	1547.35	+	site "TTATCATT"
chr1_17221651_17221796_145+_SDHB	58	65	1084.27	+	site "TTTGGATT"
chr1_17221651_17221796_145+_SDHB	230	237	772.035	-	site "TTTTGATT"
chr5_78409038_78409163_125+_BHMT2	279	286	2011.84	+	site "TTATCTTT"
chr5_78409038_78409163_125+_BHMT2	144	151	1195.44	-	site "TATTCATT"
chr2_3496638_3496819_181+_ADI1	27	34	1043.29	+	site "TTAGGTTT"
chr2_3496638_3496819_181+_ADI1	45	52	468.465	-	site "TTATGATT"
chr5_172016313_172016420_107+_---	39	46	856.158	+	site "TTAGCATT"
chr13_112821524_112821627_103+_F7	36	43	855.909	+	site "TTTTGTTT"
chr13_112821524_112821627_103+_F7	263	270	1549.83	-	site "TTTTCATT"
chr16_8783310_8783410_100+_ABAT	165	172	333.156	+	site "TAATCATA"
chr20_35269170_35269323_153+_RPN2	254	261	895.97	+	site "TTTGGATA"
chr2_216733018_216733189_171+_XRCC5	295	302	339.199	+	site "TATGGATA"
chr7_140052798_140052960_162+_NDUFB2	239	246	705.172	+	site "TTAGGTTT"
chr14_101586183_101586325_142+_DYNC1H1	14	21	1872.62	+	site "TATTCATT"
chr2_211168446_211168585_139+_CPS1	99	106	1158.53	+	site "TTAGCTTT"

chr4_109808048_109808186_138+_DC2	5	12	1742.11	+	site "TTTGCTTT"
chr1_115074369_115074504_135+_CSDE1	282	289	1066.19	+	site "TTAGGTTA"
chr1_115074369_115074504_135+_CSDE1	308	315	380.619	-	site "TATTCATA"
chr10_104407961_104408095_134+_TRIM8	127	134	344.578	+	site "TAAGCATT"
chr9_80133964_80134093_129+_PSAT1	135	142	1354.44	+	site "TATGCTTT"
chr9_80133964_80134093_129+_PSAT1	107	114	3278.09	-	site "TTTGCTTT"
chr9_80133964_80134093_129+_PSAT1	129	136	1391.09	-	site "TATTCATT"
chr18_70337187_70337310_123+_CNDP2	50	57	776.213	+	site "TTTTGTTT"
chr14_99862280_99862401_121+_C14orf68	40	47	434.631	+	site "TTAGCATA"
chr14_99862280_99862401_121+_C14orf68	313	320	735.391	-	site "TTTGATA"
chr17_39199582_39199701_119+_DUSP3	293	300	1348.87	+	site "TTATCTTA"
chr7_72668375_72668493_118+_MLXIPL	212	219	1869.2	+	site "TTTTCTTT"
chr9_113164028_113164219_191+_OR2K2	219	226	2345.3	+	site "TTTTCTTT"
chr9_113164028_113164219_191+_OR2K2	7	14	1873.56	-	site "TTTTCTTT"
chr15_78251528_78251720_192+_FAH	125	132	537.757	+	site "TAAGCTTA"
chr15_78251528_78251720_192+_FAH	233	240	908.591	-	site "TTTTCTTT"
chr15_78251528_78251720_192+_FAH	125	132	658.337	-	site "TAAGCTTA"
chr1_91882013_91882189_176+_TGFB3	183	190	598.135	+	site "TAATCTTT"
chr1_91882013_91882189_176+_TGFB3	2	9	729.753	-	site "TTATGATT"
chr22_41526729_41526905_176+_ARFGAP3	78	85	1160.58	+	site "TATTCCTT"
chr22_41526729_41526905_176+_ARFGAP3	38	45	992.063	-	site "TTTTCTTA"
chr14_63924819_63924991_172+_MTHFD1	337	344	397.472	+	site "TAATGTTT"
chr10_1076807_1076977_170+_IDI1	319	326	732.483	+	site "TATGGATT"
chr2_88966134_88966302_168+_---	18	25	2173.52	+	site "TTATCTTT"
chr2_88966134_88966302_168+_---	46	53	3384.91	-	site "TTATCTTA"
chr11_66922258_66922423_165+_PPP1CA	336	343	1203.75	+	site "TTTTGTTT"
chr3_190090604_190090760_156+_LPP	27	34	1291.37	+	site "TTAGCTTT"
chr3_190090604_190090760_156+_LPP	58	65	715.127	-	site "TTATGTTT"
chr1_154529300_154529458_158+_C1orf85	158	165	1139.84	+	site "TTAGCATT"

chr1_154529300_154529458_158_+_C1orf85	286	293	1450.17	-	site "TTTTCAATT"
chr4_75182213_75182368_155_+_CXCL2	126	133	1605.27	+	site "TTTTGTTT"
chr4_75182213_75182368_155_+_CXCL2	152	159	3441.52	-	site "TTTGCATT"
chr4_75182213_75182368_155_+_CXCL2	76	83	1881.38	-	site "TTTGTTTT"
chr4_75182213_75182368_155_+_CXCL2	198	205	1579.39	-	site "TTTGCATA"
chr1_202375759_202375907_148_+_ETNK2	164	171	2730.53	+	site "TATTCTTT"
chr1_202375759_202375907_148_+_ETNK2	185	192	1829.87	+	site "TTTTGTTA"
chr21_26248794_26248946_152_+_APP	171	178	1074.34	+	site "TATTGTTT"
chr21_26248794_26248946_152_+_APP	32	39	695.954	+	site "TTTTCATA"
chr5_114977273_114977419_146_+_TMED7	133	140	1331.97	+	site "TTTTGTTA"
chr5_114977273_114977419_146_+_TMED7	238	245	1926.09	-	site "TTTGCTTT"
chr17_35405198_35405342_144_+_PSMD3	300	307	1149.91	+	site "TTTGTTTT"
chr10_74362371_74362515_144_+_OIT3	22	29	377.568	+	site "TTAGGATA"
chr10_74362371_74362515_144_+_OIT3	54	61	1146.11	-	site "TTAGGTTA"
chr12_107814888_107815031_143_+_DAO	60	67	2377.35	+	site "TTTTCTTT"
chr12_107814888_107815031_143_+_DAO	271	278	1590.1	-	site "TTTTCTTT"
chr1_152019120_152019258_138_+_SLC27A3	20	27	1605.27	+	site "TTTTGTTT"
chr17_71356243_71356378_135_+_WBP2	135	142	1386.11	+	site "TTTTGTTT"
chr17_71356243_71356378_135_+_WBP2	317	324	1381.73	-	site "TTTTCTTT"
chr7_65063156_65063288_132_+_GUSB	288	295	1231.42	+	site "TTTTCTTT"
chr7_65063156_65063288_132_+_GUSB	326	333	981.909	-	site "TATTGTTT"
chr10_12203857_12203987_130_+_DHTKD1	297	304	2109.31	+	site "TTTGTTTT"
chr10_12203857_12203987_130_+_DHTKD1	213	220	1822.07	-	site "TTTTGTTT"
chr5_52429828_52429957_129_+_MOCS2	193	200	1628.13	+	site "TTTTCAATT"
chr5_52429828_52429957_129_+_MOCS2	103	110	590.252	-	site "TTATGTTT"
chr3_10320729_10320855_126_+_SEC13L1	175	182	1751.2	+	site "TTTTGTTA"
chr3_10320729_10320855_126_+_SEC13L1	187	194	593.597	-	site "TATTCTTT"
chr1_23623606_23623731_125_+_TCEA3	269	276	2615.81	+	site "TTATCTTA"
chr1_23623606_23623731_125_+_TCEA3	22	29	1710.02	-	site "TTTTCTTT"

chr1_46426997_46427121_124_+_POMGNT1	239	246	1484.85	+	site "TTAGCATT"
chr14_22600403_22600524_121_+_ACIN1	272	279	696.007	+	site "TATTGTTT"
chr5_179089621_179089741_120_+_CANX	7	14	1833.63	+	site "TTTGTTTT"
chr6_49524497_49524616_119_+_MUT	164	171	1353.31	+	site "TTATGATT"
chr6_49524497_49524616_119_+_MUT	203	210	1686.37	-	site "TTTTGTTT"
chr6_49524497_49524616_119_+_MUT	244	251	1669.75	-	site "TTTGTTTA"
chr2_21088152_21088269_117_+_APOB	304	311	974.28	+	site "TATTCATT"
chr9_35057951_35058065_114_+_VCP	125	132	1200.52	+	site "TTTGATT"
chr7_75459689_75459803_114_+_TMPIT	95	102	1527.65	+	site "TTTTCTTT"
chr10_98343280_98343394_114_+_PIK3AP1	101	108	270.161	+	site "TTAGGATA"
chr10_98343280_98343394_114_+_PIK3AP1	53	60	473.53	-	site "TATTGATT"
chr17_59263358_59263471_113_+_SMARCD2	275	282	335.479	+	site "TATTCATA"
chr17_59263358_59263471_113_+_SMARCD2	63	70	1370.06	-	site "TTTTCTTA"
chr17_59263358_59263471_113_+_SMARCD2	46	53	1370.06	-	site "TTTTCTTA"
chr3_38000745_38000856_111_+_CTDSPL	73	80	907.953	+	site "TTTTCATT"
chr3_38000745_38000856_111_+_CTDSPL	233	240	2210.3	-	site "TTTGCTTT"
chr22_36292043_36292154_111_+_CDC42EP1	37	44	2330.97	+	site "TTTTCATT"
chr22_36292043_36292154_111_+_CDC42EP1	199	206	4073.74	-	site "TTTGCTTT"
chr2_27207392_27207503_111_+_PREB	10	17	848.877	+	site "TTTTCATT"
chr10_70534406_70534517_111_+_PRG1	109	116	1923.07	+	site "TTTTGTTT"
chr10_70534406_70534517_111_+_PRG1	132	139	1287.7	-	site "TTTGCATT"
chrX_66867032_66867142_110_+_AR	263	270	1175.86	+	site "TTTTGTTA"
chr17_39199186_39199296_110_+_DUSP3	212	219	1636.96	+	site "TTTTCATT"
chr3_187845229_187845337_108_+_FETUB	85	92	404.484	+	site "TAATGATT"
chr3_187845229_187845337_108_+_FETUB	3	10	1439.45	-	site "TTTTCTTT"
chr2_216721105_216721212_107_+_XRCC5	246	253	1461.8	+	site "TTTTGTTA"
chr2_216721105_216721212_107_+_XRCC5	195	202	789.598	-	site "TTTTCATA"
chr15_73435302_73435407_105_+_MAN2C1	285	292	838.747	+	site "TATGGATT"
chr14_54379137_54379242_105_+_GCH1	193	200	1659.22	+	site "TTTTGTTA"

chr14_54379137_54379242_105+_GCH1	102	109	1429.19	+	site "TATGGTTA"
chr14_54379137_54379242_105+_GCH1	139	146	488.05	-	site "TAATGTTT"
chr5_41238928_41239032_104+_C6	60	67	1047.68	+	site "TTTTGTTA"
chr10_19010401_19010505_104+_ARL5B	252	259	1327.43	+	site "TATTCATT"
chr15_62766976_62767079_103+_OAZ2	53	60	1766.12	+	site "TTTGTTTT"
chr15_62766976_62767079_103+_OAZ2	3	10	1729.36	+	site "TTTTGTTT"
chr15_62766976_62767079_103+_OAZ2	234	241	1064.74	-	site "TTAGCATT"
chr9_19040324_19040426_102+_RRAGA	1	8	2355.17	+	site "TTTTGTTA"
chr9_19040324_19040426_102+_RRAGA	147	154	1590.1	-	site "TTTTCTTT"
chrX_48644606_48644707_101+_PQBP1	201	208	1110.77	+	site "TTTTCACTT"
chrX_48644606_48644707_101+_PQBP1	186	193	1093.22	-	site "TATGGTTT"
chr14_63951847_63951948_101+_MTHFD1	59	66	1039.7	+	site "TATTGTTT"
chr14_63951847_63951948_101+_MTHFD1	85	92	667.091	-	site "TTTGATA"
chr3_60369020_60369120_100+_FHIT	106	113	1125.1	+	site "TTATGATT"
chr3_60369020_60369120_100+_FHIT	121	128	642.409	-	site "TATTGTTA"
chr3_130385332_130385431_99+_CNBP	167	174	466.727	+	site "TTATGATT"
chr3_130385332_130385431_99+_CNBP	111	118	1689.55	-	site "TATTCTTT"
chr3_130385332_130385431_99+_CNBP	262	269	1031.38	-	site "TTATGTTT"
chr16_46945174_46945349_175+_LONP2	41	48	1026.19	+	site "TTTTCTTT"
chr6_80469325_80469494_169+_SH3BGRL2	29	36	671.183	+	site "TTTGCATA"
chr6_80469325_80469494_169+_SH3BGRL2	182	189	1926.09	-	site "TTTGCTTT"
chr2_119912421_119912586_165+_TMEM37	185	192	367.509	+	site "TAATCATT"
chr2_119912421_119912586_165+_TMEM37	229	236	1055.09	-	site "TTTTGTTT"
chr3_151743903_151744065_162+_SERP1	293	300	763.498	+	site "TATTGTTT"
chr3_151743903_151744065_162+_SERP1	8	15	1222.84	-	site "TTTTCATA"
chr10_69713195_69713355_160+_MAWBP	57	64	307.906	+	site "TAATCATA"
chr10_69713195_69713355_160+_MAWBP	320	327	1760.24	-	site "TTTGCTTT"
chr7_130578180_130578331_151+_---	291	298	1480.77	+	site "TTTTGTTT"
chr18_55149001_55149149_148+_LMAN1	225	232	1183.87	+	site "TTTTGTTT"

chr18_55149001_55149149_148+_LMAN1	132	139	1251.24	-	site "TTATCTTT"
chr12_107818744_107818888_144+_DAO	16	23	1632.18	+	site "TTAGGTTT"
chr12_107818744_107818888_144+_DAO	213	220	1955.86	-	site "TATGCTTA"
chr5_179089750_179089889_139+_CANX	262	269	1439.45	+	site "TTTTCTTT"
chr5_179089750_179089889_139+_CANX	238	245	826.351	-	site "TTTTCAAT"
chr3_50130995_50131134_139+_RBM5	239	246	1697.73	+	site "TTTTGTTT"
chr2_85133890_85134028_138+_KCMF1	283	290	3826.42	+	site "TTTGCTTT"
chr7_133400895_133401031_136+_EXOC4	104	111	1562.88	+	site "TATTCTTT"
chr2_43900574_43900710_136+_ABCG5	306	313	1065.84	+	site "TATTCATT"
chr2_43900574_43900710_136+_ABCG5	24	31	644.277	+	site "TTATCAAT"
chr9_129687569_129687703_134+_ST6GALNAC6	6	13	1379.64	+	site "TTAGCTTA"
chr9_129687569_129687703_134+_ST6GALNAC6	35	42	800.657	-	site "TTTTGTTA"
chr20_47173083_47173215_132+_STAU1	27	34	821.857	+	site "TATTCATA"
chr12_52160021_52160153_132+_PCBP2	230	237	1714.18	+	site "TTTTCTTA"
chr12_52160021_52160153_132+_PCBP2	126	133	3552.8	-	site "TTTGCTTT"
chr6_7234956_7235084_128+_SSR1	12	19	579.461	+	site "TATTGATA"
chr17_53923682_53923809_127+_MTMR4	280	287	578.685	+	site "TTAGCAAT"
chr17_53923682_53923809_127+_MTMR4	253	260	1459.44	-	site "TTATCTTA"
chr13_49135175_49135302_127+_EBPL	302	309	1076.9	+	site "TTTTCTTA"
chr1_39723924_39724049_125+_MACF1	74	81	1673.75	+	site "TTTGCTTA"
chr1_39723924_39724049_125+_MACF1	166	173	1319.37	-	site "TTTTGATT"
chr8_17469648_17469772_124+_SLC7A2	283	290	2350.68	+	site "TTTTCTTT"
chr8_17469648_17469772_124+_SLC7A2	266	273	1760.24	+	site "TTTGCTTT"
chr3_159861346_159861470_124+_GFM1	276	283	1284.38	+	site "TTATCAAT"
chr1_60154186_60154309_123+_CYP2J2	4	11	598.135	+	site "TAATCTTT"
chr1_60154186_60154309_123+_CYP2J2	34	41	2052.1	-	site "TTTTCTTA"
chr2_54727041_54727163_122+_SPTBN1	243	250	756.736	+	site "TTAGGATT"
chr2_43975179_43975301_122+_LRPPRC	47	54	1279.08	+	site "TATTCTTT"
chr2_43975179_43975301_122+_LRPPRC	63	70	1089.28	+	site "TTTTGTTA"

chr9_73489930_73490051_121_+_TMEM2	268	275	2693.22	+	site "TTTGCTTA"
chr9_73489930_73490051_121_+_TMEM2	22	29	1231.42	+	site "TTTTCTTT"
chrX_43511748_43511868_120_+_MAOB	129	136	1164.03	+	site "TTTTCATATA"
chr10_27445185_27445305_120_+_YME1L1	210	217	2422.68	+	site "TTTTGTTT"
chr10_27445185_27445305_120_+_YME1L1	224	231	2362.22	+	site "TTTGCTTT"
chr10_27445185_27445305_120_+_YME1L1	171	178	1961.04	+	site "TTAGGTTT"
chr10_27445185_27445305_120_+_YME1L1	182	189	1079.74	-	site "TTTGATT"
chr1_153548705_153548825_120_+_FDPS	2	9	1285.78	+	site "TTTGATT"
chr8_97415626_97415745_119_+_PTDSS1	25	32	1136.91	+	site "TTTGATT"
chr8_97415626_97415745_119_+_PTDSS1	276	283	1444.66	-	site "TTAGCTTT"
chr10_101567142_101567261_119_+_ABCC2	310	317	1043.77	+	site "TTTTGATA"
chr6_109796671_109796789_118_+_CD164	93	100	1587.5	+	site "TTTGATT"
chr4_109884355_109884473_118_+_AGXT2L1	235	242	1393.73	+	site "TTTTGTTA"
chr4_109884355_109884473_118_+_AGXT2L1	146	153	1097.22	+	site "TTTGTTTA"
chr4_109884355_109884473_118_+_AGXT2L1	20	27	1599.68	-	site "TATGCATT"
chr3_15068904_15069021_117_+_MRPS25	310	317	1331.97	+	site "TTTTGTTA"
chr6_34665443_34665559_116_+_C6orf106	162	169	592.308	+	site "TAAGCTTA"
chr6_34665443_34665559_116_+_C6orf106	162	169	608.968	-	site "TAAGCTTA"
chr20_42963755_42963871_116_+_YWHAB	296	303	2310.47	+	site "TTTGTTTA"
chr20_42963755_42963871_116_+_YWHAB	221	228	1857.82	-	site "TATTCATT"
chr2_42412719_42412835_116_+_EML4	270	277	1423.73	+	site "TTTGATT"
chr17_58863578_58863693_115_+_CYB561	62	69	696.007	+	site "TATTGTTT"
chr17_58863578_58863693_115_+_CYB561	238	245	998.955	-	site "TTTTCTTT"
chr9_111043805_111043919_114_+_EPB41L4B	224	231	1505.05	+	site "TTTTCTTA"
chr9_111043805_111043919_114_+_EPB41L4B	104	111	1084.27	-	site "TTTGATT"
chr10_75955098_75955212_114_+_ADK	172	179	1552.6	+	site "TTTGCTTT"
chr1_65872303_65872417_114_+_LEPR	239	246	608.687	+	site "TTTGCATA"
chr1_65872303_65872417_114_+_LEPR	223	230	1338.24	-	site "TTTTCAATT"
chr7_135262338_135262451_113_+_MTPN	199	206	1388.52	+	site "TTTTGATA"

chr7_135262338_135262451_113_+_MTPN	144	151	1685.82	-	site "TATTGTTT"
chr9_2183044_2183156_112_+_SMARCA2	225	232	1142.23	+	site "TTTGCTTT"
chr3_20170562_20170674_112_+_PCAF	67	74	1045.92	+	site "TATTCATT"
chr3_20170562_20170674_112_+_PCAF	96	103	797.798	-	site "TAATCTTT"
chr3_12916142_12916254_112_+_IQSEC1	29	36	1596.77	+	site "TTTTCTTT"
chr3_12916142_12916254_112_+_IQSEC1	172	179	4073.74	-	site "TTTGCTTT"
chr17_34173912_34174022_110_+_PSMB3	249	256	1200.52	+	site "TTTGGATT"
chr17_2541855_2541965_110_+_KIAA0664	22	29	384.089	+	site "TTATGATA"
chr6_122806207_122806316_109_+_SERINC1	245	252	869.814	+	site "TATTCTTT"
chr7_129562448_129562557_109_+_KIAA0265	80	87	1704.81	+	site "TATTCTTT"
chr5_154179063_154179172_109_+_C5orf4	63	70	1925.71	+	site "TTTTCTTA"
chr16_18710744_18710852_108_+_ARL6IP1	26	33	2252.23	+	site "TTTGCTTT"
chr17_74480277_74480384_107_+_LGALS3BP	245	252	1796.43	+	site "TTTTGTTT"
chr13_99002456_99002563_107_+_TM9SF2	199	206	1656.48	+	site "TTTTGTTT"
chr10_123300795_123300902_107_+_FGFR2	59	66	1327.51	+	site "TTTTCTTA"
chr10_123300795_123300902_107_+_FGFR2	253	260	1848.2	-	site "TTTTGTTT"
chr6_33376069_33376175_106_+_TAPBP	180	187	482.099	+	site "TTATCATA"
chr2_160336737_160336843_106_+_CD302	60	67	905.939	+	site "TTTTCTTT"
chr2_160336737_160336843_106_+_CD302	197	204	2848.18	-	site "TTATCTTA"
chr10_113902138_113902244_106_+_GPAM	266	273	718.668	+	site "TATTGTTA"
chr1_36375404_36375510_106_+_TRAPPC3	300	307	1064.96	+	site "TTATGTTA"
chr8_124104091_124104196_105_+_DERL1	58	65	1158.78	+	site "TATGCTTA"
chr8_124104091_124104196_105_+_DERL1	31	38	957.163	+	site "TTTGCAAT"
chr8_124104091_124104196_105_+_DERL1	38	45	1458.4	-	site "TTTTGTTA"
chr8_124104091_124104196_105_+_DERL1	77	84	1303.17	-	site "TTTTCAAT"
chr7_13537779_13537884_105_+_---	215	222	1605.27	+	site "TTTTGTTT"
chr7_13537779_13537884_105_+_---	98	105	881.578	+	site "TATTCATA"
chr7_13537779_13537884_105_+_---	237	244	1114	-	site "TATTCATT"
chr20_2795152_2795257_105_+_VPS16	60	67	1256.66	+	site "TATGCATA"

chr20_2795152_2795257_105+_VPS16	60	67	819.849	-	site "TATGCATA"
chr19_13125872_13125977_105+_IER2	144	151	1154.88	+	site "TTTTCAATT"
chr1_239747149_239747254_105+_FH	54	61	367.461	+	site "TAATCAATT"
chr1_55302734_55302839_105+_PCSK9	45	52	334.178	+	site "TAATGTTA"
chr5_140876069_140876173_104+_DIAPH1	59	66	2915.37	+	site "TTATCTTT"
chr3_62084970_62085074_104+_PTPRG	108	115	700.149	+	site "TTTTGATT"
chr3_62084970_62085074_104+_PTPRG	179	186	1447.57	-	site "TTTTCTTA"
chr22_23268782_23268886_104+_C22orf13	257	264	972.882	+	site "TATGGTTT"
chr11_4070126_4070230_104+_STIM1	272	279	1195.44	+	site "TATTCATT"
chr1_154547441_154547545_104+_CCT3	141	148	2209.76	+	site "TTATCTTT"
chr5_139910327_139910430_103+_SRA1	148	155	1185.24	+	site "TTAGCAATT"
chr5_139910327_139910430_103+_SRA1	245	252	911.991	-	site "TATTCATA"
chr19_47443786_47443889_103+_ERF	161	168	2365.04	+	site "TTAGCTTT"
chr18_45372206_45372309_103+_LIPG	260	267	626.785	+	site "TATTGATT"
chr18_45372206_45372309_103+_LIPG	70	77	1088.91	-	site "TTTTGTTT"
chr10_98270749_98270852_103+_TM9SF3	273	280	1179.09	+	site "TTAGGATT"
chrX_38550207_38550309_102+_MID1IP1	22	29	1142.99	+	site "TTTTCAATT"
chrX_38550207_38550309_102+_MID1IP1	91	98	681.033	-	site "TATTGTTA"
chr3_9796742_9796844_102+_TADA3L	265	272	882.515	+	site "TTTTGTTT"
chr22_29212954_29213056_102+_SEC14L4	24	31	1527.19	+	site "TTTGCATT"
chr2_119912197_119912299_102+_TMEM37	145	152	1586.43	+	site "TTTGGTTT"
chr17_68791443_68791545_102+_CDC42EP4	79	86	1656.48	+	site "TTTTGTTT"
chr17_68791443_68791545_102+_CDC42EP4	178	185	438.406	-	site "TATTGTTA"
chr1_213864295_213864397_102+_USH2A	212	219	1959.17	+	site "TTTTCTTT"
chrX_117810198_117810299_101+_IL13RA1	105	112	2345.48	+	site "TTTTGATT"
chr3_188434914_188435015_101+_MASP1	250	257	828.992	+	site "TTAGCTTT"
chr2_101874234_101874335_101+_MAP4K4	154	161	1030.01	+	site "TTTTCTTT"
chr2_74552705_74552806_101+_MRPL53	54	61	1312.81	+	site "TTTGGATT"
chr18_30975275_30975376_101+_MAPRE2	176	183	739.998	+	site "TTTGGATA"

chr12_48546141_48546242_101_+_FAIM2	292	299	2084.19	+	site "TTTTCTTA"
chr12_48546141_48546242_101_+_FAIM2	29	36	1771.29	-	site "TTAGCTTA"
chr9_37077070_37077170_100_+_ZCCHC7	1	8	460.951	+	site "TAAGCTTA"
chr8_61695839_61695939_100_+_RAB2	55	62	821.491	+	site "TTAGCATA"
chr3_41241947_41242047_100_+_CTNNB1	262	269	2263.91	+	site "TTTTCTTT"
chr19_52945329_52945429_100_+_GLTSCR2	168	175	1873.56	+	site "TTTTCTTT"
chr19_52945329_52945429_100_+_GLTSCR2	68	75	865.716	-	site "TTTTGATT"
chr15_63657291_63657391_100_+_PTPLAD1	213	220	1933.33	+	site "TTTTCTTT"
chr14_20558815_20558915_100_+_NDRG2	261	268	1716.51	+	site "TATTCTTT"
chr14_20558815_20558915_100_+_NDRG2	16	23	1259.5	+	site "TTTGCTTT"
chr14_20558815_20558915_100_+_NDRG2	101	108	1288.99	-	site "TTATGTTT"
chr14_20558815_20558915_100_+_NDRG2	55	62	545.148	-	site "TATGGATA"
chr12_3265110_3265210_100_+_TSPAN9	219	226	2534.11	+	site "TTTTCTTA"
chr10_70526891_70526991_100_+_PRG1	201	208	1414.55	+	site "TTTTCAAT"
chr10_70526891_70526991_100_+_PRG1	59	66	365.361	-	site "TATGGATA"
chr1_145093394_145093494_100_+_PRKAB2	84	91	1936.27	+	site "TTATGTTT"
chr8_121619326_121619425_99_+_SNTB1	2	9	893.875	+	site "TTATCATA"
chr8_121619326_121619425_99_+_SNTB1	132	139	882.515	-	site "TTTTGTTT"
chr8_121619326_121619425_99_+_SNTB1	3	10	663.297	-	site "TTATGATA"
chr5_173317509_173317608_99_+_CPEB4	156	163	521.497	+	site "TAATCTTA"
chr3_187820828_187820927_99_+_AHSG	202	209	723.203	+	site "TTATGATT"
chr3_187820828_187820927_99_+_AHSG	203	210	348.214	-	site "TAATCATA"
chr18_52421108_52421207_99_+_TXNL1	281	288	1018.62	+	site "TATGGTTT"
chr18_52421108_52421207_99_+_TXNL1	3	10	796.086	-	site "TATGCATT"
chr17_46184016_46184115_99_+_CROP	237	244	1527.65	+	site "TTTTCTTT"
chr18_54973957_54974056_99_+_SEC11C	78	85	2827.58	+	site "TTTTCTTT"
chr10_43202585_43202684_99_+_HNRPF	213	220	1543.98	+	site "TTTTGTTA"
chr1_148751463_148751562_99_+_ECM1	244	251	1590.1	+	site "TTTTCTTT"
chr1_148751463_148751562_99_+_ECM1	264	271	1386.34	+	site "TTATGTTA"

chr2_34604883_34605081_198_+---	272	279	992.063	+	site "TTTTCATA"
chr4_48546702_48546848_146_+_OCIAD1	65	72	1549.08	+	site "TTATCATT"
chr6_29632007_29632146_139_+_OR2H2	57	64	1439.45	+	site "TTTTCTTT"
chrX_152716678_152716823_145_+_SSR4	277	284	538.468	+	site "TTAGGATA"
chr2_26267886_26268027_141_+_HADHA	69	76	2422.68	+	site "TTTTGTTT"
chr2_26267886_26268027_141_+_HADHA	268	275	2383.59	+	site "TTTTGTTT"
chr14_93822276_93822395_119_+_SERPINA10	104	111	866.252	+	site "TTTGATA"
chr14_99861810_99861930_120_+_C14orf68	87	94	941.372	+	site "TATTCTTT"
chr5_67324292_67324470_178_+---	321	328	1737.53	+	site "TATTCA"
chr3_67141839_67142015_176_+_KBTBD8	50	57	2422.68	+	site "TTTTGTTT"
chr3_67141839_67142015_176_+_KBTBD8	275	282	1120.17	-	site "TTTTCTTT"
chr3_101547679_101547802_123_+_NIT2	41	48	2768.36	+	site "TTTTGTTT"
chr1_163886889_163887002_113_+_MGST3	108	115	1026.19	+	site "TTTTCTTT"
chr8_91124093_91124208_115_+_DECR1	160	167	1729.51	+	site "TTTGCA"
chr8_91124093_91124208_115_+_DECR1	174	181	1686.37	-	site "TTTTGTTT"
chr19_19084117_19084229_112_+_SLC25A42	280	287	916.75	+	site "TTTTGTTT"
chr5_151102615_151102720_105_+_ATOX1	219	226	2126.72	+	site "TTTGCA"
chr4_100753155_100753258_103_+_MTTP	40	47	657.024	+	site "TATGCTTT"
chr6_133045341_133045443_102_+_VNN1	291	298	2252.23	+	site "TTTGCTTT"
chr14_53046259_53046403_144_+---	101	108	491.23	+	site "TAATCATA"
chr3_171528870_171529068_198_+_PRKCI	108	115	856.094	+	site "TTAGCATA"
chr3_171528870_171529068_198_+_PRKCI	218	225	1551.77	-	site "TTTTCTTA"
chr2_215972235_215972359_124_+_FN1	91	98	776.99	+	site "TATTCTTT"
chr1_199779691_199779869_178_+_CSRP1	55	62	2136.08	+	site "TTTTCTTA"
chr1_199779691_199779869_178_+_CSRP1	329	336	1902.39	+	site "TTTGCA"
chr5_135314833_135314955_122_+_LECT2	252	259	1933.33	+	site "TTTTCTTT"
chr17_37164548_37164740_192_+_JUP	373	380	1390.22	+	site "TATGTTT"
chr2_232029537_232029639_102_+_NCL	291	298	776.99	+	site "TATTCTTT"
chr2_232029537_232029639_102_+_NCL	101	108	1383.88	-	site "TTTGCTTT"

chr3_188243157_188243276_119+_ST6GAL1	1	8	1210.67	+	site "TATTCTTT"
chr3_188243157_188243276_119+_ST6GAL1	210	217	873.987	+	site "TTTTGTTA"
chr2_232031256_232031373_117+_NCL	37	44	1143.36	+	site "TATTGATT"
chr3_164245284_164245475_191+_---	15	22	1304.75	+	site "TTTGTTTA"
chr3_164245284_164245475_191+_---	24	31	2011.84	-	site "TTATCTTT"
chr3_164245284_164245475_191+_---	7	14	1721.37	-	site "TTTTCTTA"
chr3_178780032_178780210_178+_---	264	271	990.395	+	site "TTTTGATT"
chr3_178780032_178780210_178+_---	153	160	1263.76	-	site "TTAGCATT"
chr1_93072897_93073062_165+_RPL5	247	254	1605.27	+	site "TTTTGTTT"
chr1_93072897_93073062_165+_RPL5	256	263	2257.07	-	site "TTATCTTA"
chr1_93072897_93073062_165+_RPL5	313	320	1697.73	-	site "TTTTGTTT"
chr1_93072897_93073062_165+_RPL5	68	75	1281.5	-	site "TTTTCTTT"
chr1_194981507_194981667_160+_CFH	268	275	972.517	+	site "TTTGCATT"
chrX_118487871_118488016_145+_SLC25A5	183	190	1790.44	+	site "TATGCTTT"
chrX_118487871_118488016_145+_SLC25A5	196	203	1527.65	+	site "TTTTCTTT"
chrX_118487871_118488016_145+_SLC25A5	312	319	1406.28	+	site "TTTTCATA"
chrX_118487871_118488016_145+_SLC25A5	66	73	592.684	+	site "TTATGTTA"
chrX_118487871_118488016_145+_SLC25A5	248	255	1854.87	-	site "TTTTGTTA"
chr11_101773093_101773231_138+_TMEM123	313	320	1474.63	+	site "TTATCTTA"
chr11_101773093_101773231_138+_TMEM123	203	210	960.1	-	site "TTTGTTTT"
chr19_54297746_54297879_133+_SNRP70	239	246	502.666	+	site "TTATCATA"
chr7_100077236_100077360_124+_TFR2	164	171	1677.27	+	site "TTTGTTTT"
chr1_20849857_20849977_120+_PINK1	281	288	1546.23	+	site "TTTTCATT"
chr7_94783994_94784111_117+_PON1	277	284	570.684	+	site "TTTGATA"
chr11_748962_749076_114+_TALDO1	229	236	2422.68	+	site "TTTTGTTT"
chr11_748962_749076_114+_TALDO1	249	256	2260.27	-	site "TTTTCTTA"
chr10_54415177_54415290_113+_---	23	30	1009.19	+	site "TTATCTTT"
chr2_201051177_201051288_111+_DNAPTP6	194	201	738.205	+	site "TTTGATT"
chr3_58487265_58487375_110+_ACOX2	285	292	998.955	+	site "TTTTCTTT"

chr3_58487265_58487375_110_+_ACOX2	133	140	1599.28	-	site "TTTTTCATT"
chr1_152514867_152514975_108_+_HAX1	69	76	846.769	+	site "TTAGGATT"
chr1_152514867_152514975_108_+_HAX1	64	71	810.528	-	site "TAATCTTT"
chr6_108639470_108639577_107_+_SNX3	252	259	1444.5	+	site "TTTTGTTT"
chr5_85952214_85952318_104_+_COX7C	254	261	1321.08	+	site "TATTCATA"
chr5_85952214_85952318_104_+_COX7C	18	25	1060.07	+	site "TTTTTCATT"
chr5_85952214_85952318_104_+_COX7C	186	193	646.919	+	site "TATGGTTT"
chr12_52349945_52350049_104_+_ATP5G2	141	148	2827.58	+	site "TTTTCTTT"
chr12_52349945_52350049_104_+_ATP5G2	46	53	1451.66	+	site "TTTGGTTT"
chr12_52349945_52350049_104_+_ATP5G2	284	291	778.718	+	site "TATTCATT"
chr12_52349945_52350049_104_+_ATP5G2	231	238	954.699	-	site "TATGGTTT"
chr12_56476649_56476751_102_+_TSFM	272	279	2289.42	+	site "TTATCTTT"
chr1_245653012_245653114_102_+_CIAS1	177	184	1363.04	+	site "TATTCTTA"
chr5_76623178_76623279_101_+_PDE8B	225	232	826.815	+	site "TTAGGATA"
chr12_48788068_48788169_101_+_GPD1	185	192	1925.71	+	site "TTTTCTTA"
chr12_48788068_48788169_101_+_GPD1	97	104	1327.51	+	site "TTTTCTTA"
chr12_48788068_48788169_101_+_GPD1	25	32	2171.31	-	site "TTTGCTTA"
chr12_16081263_16081363_100_+_DERA	219	226	1136.91	+	site "TTTGCATT"
chr6_133044854_133044953_99_+_VNN1	54	61	1759.14	+	site "TTTTTCATT"
chr6_133044854_133044953_99_+_VNN1	173	180	2704.18	-	site "TTATGTTT"
chr5_179159133_179159232_99_+_MGAT4B	114	121	1672.14	+	site "TTTGCATT"
chr2_63970699_63970889_190_+_UGP2	356	363	1045.39	+	site "TTATGTTT"
chr2_63970699_63970889_190_+_UGP2	57	64	1811.91	-	site "TTATCTTA"
chrX_55524848_55525026_178_+_USP51	371	378	1527.65	+	site "TTTTCTTT"
chr4_70003155_70003311_156_+_UGT2B7	340	347	1428	+	site "TATTCTTA"
chr4_70003155_70003311_156_+_UGT2B7	296	303	1125.67	-	site "TATGCTTA"
chr14_105280205_105280304_99_+_---	256	263	1130.57	+	site "TTAGGTTT"
chr21_26199146_26199333_187_+_APP	231	238	2537.24	+	site "TTTGGTTT"
chr19_53812853_53812987_134_+_RPL18	59	66	676.32	+	site "TTAGGTTT"

chr11_107497540_107497663_123_+_ACAT1	258	265	496.867	+	site "TATTGTTT"
chr12_52142529_52142642_113_+_PCBP2	63	70	1346.68	+	site "TATTCTTT"
chr10_44193580_44193821_241_+_CXCL12	156	163	692.046	+	site "TTTGCATA"
chr10_44193580_44193821_241_+_CXCL12	133	140	462.95	-	site "TTTGGATA"
chr5_75949724_75949917_193_+_F2RL2	276	283	998.955	+	site "TTTTCTTT"
chr15_76497569_76497745_176_+_IREB2	204	211	1968.21	+	site "TTTTCTTT"
chr5_175748381_175748549_168_+_HIGD2A	32	39	794.683	+	site "TATTCATA"
chr19_50882653_50882810_157_+_SNRPD2	116	123	1609.29	+	site "TTAGCATT"
chr19_50882653_50882810_157_+_SNRPD2	262	269	631.929	-	site "TTAGGATA"
chr20_60317074_60317228_154_+_ADRM1	15	22	2576.42	+	site "TTTGCTTT"
chr20_60317074_60317228_154_+_ADRM1	88	95	978.766	+	site "TTATCTTT"
chr11_125720451_125720602_151_+_DCPS	187	194	1439.45	+	site "TTTTCTTT"
chr2_143570389_143570535_146_+_ARHGAP15	145	152	570.477	+	site "TAATCATT"
chr2_143570389_143570535_146_+_ARHGAP15	217	224	1328.73	-	site "TTAGGTTA"
chr8_22507597_22507742_145_+_PDLIM2	330	337	1775.69	+	site "TTTGTTTT"
chr6_131945001_131945143_142_+_ARG1	266	273	1017.77	+	site "TTATGTTA"
chr5_34023442_34023583_141_+_AMACR	257	264	796.184	+	site "TTTTCATA"
chr5_34023442_34023583_141_+_AMACR	237	244	1549.08	-	site "TTATCATT"
chr6_31614911_31615051_140_+_BAT1	178	185	1266.71	+	site "TATTCTTT"
chr3_95086356_95086495_139_+_PROS1	215	222	1396.11	+	site "TTTTCTTT"
chr8_101794023_101794161_138_+_PABPC1	171	178	2244.47	+	site "TTTTCTTT"
chr6_116705161_116705299_138_+_TSPYL1	95	102	2100.46	+	site "TATTCTTT"
chr7_148331341_148331478_137_+_PDIA4	276	283	1190.74	+	site "TTTTCTTT"
chr7_148331341_148331478_137_+_PDIA4	239	246	1120.17	-	site "TTTTCTTT"
chr7_127514246_127514378_132_+_SND1	155	162	1589.29	+	site "TTAGCATT"
chr3_185527020_185527146_126_+_EIF4G1	207	214	1349.03	+	site "TTTGCTTT"
chr3_185527020_185527146_126_+_EIF4G1	152	159	1527.65	-	site "TTTTCTTT"
chr9_4701691_4701815_124_+_AK3	20	27	1090.42	+	site "TATGCATA"
chr9_4701691_4701815_124_+_AK3	46	53	1073.61	+	site "TTAGCTTA"

chr9_4701691_4701815_124+_AK3	259	266	855.909	+	site "TTTTGTTT"
chr9_4701691_4701815_124+_AK3	20	27	1347.78	-	site "TATGCATA"
chr22_41362656_41362780_124+_CYB5R3	235	242	1461.8	+	site "TTTTGTTA"
chr22_41362656_41362780_124+_CYB5R3	136	143	490.347	-	site "TATGGATT"
chr1_43855717_43855840_123+_PTPRF	274	281	1605.27	+	site "TTTTGTTT"
chr6_80203538_80203660_122+_C6orf152	229	236	2125.63	+	site "TTTGCTTT"
chr6_80203538_80203660_122+_C6orf152	82	89	1330.11	-	site "TTATGTTT"
chr12_55886682_55886804_122+_LRP1	53	60	2146.33	+	site "TTAGCTTA"
chr12_55886682_55886804_122+_LRP1	32	39	1125.1	+	site "TTATGATT"
chr12_55886682_55886804_122+_LRP1	273	280	1097.6	-	site "TTTTCTTT"
chr12_55886682_55886804_122+_LRP1	234	241	592.772	-	site "TTATGATA"
chr1_202639702_202639824_122+_PPP1R15B	244	251	574.256	+	site "TAATGTTT"
chr2_74541728_74541849_121+_GCS1	160	167	667.771	+	site "TATGGTTT"
chr19_10894286_10894407_121+_CARM1	119	126	1385.38	+	site "TATGCATT"
chrX_47401894_47402012_118+_UXT	48	55	1005.11	+	site "TTTTCATA"
chr8_124096192_124096310_118+_DERL1	251	258	334.178	+	site "TAATGTTA"
chr4_69735594_69735712_118+_UGT2B10	305	312	1073.66	+	site "TTATGTTT"
chr7_134304749_134304865_116+_CALD1	81	88	574.803	+	site "TAAGCTTA"
chr7_134304749_134304865_116+_CALD1	126	133	708.731	-	site "TATTCATT"
chr13_95244559_95244674_115+_DNAJC3	149	156	1429.82	+	site "TTAGCTTT"
chr20_42680962_42681076_114+_PKIG	62	69	1366.6	+	site "TTTGCATT"
chr12_9150070_9150184_114+_A2M	29	36	884.382	+	site "TATTCTTT"
chr4_69716532_69716645_113+_UGT2B10	92	99	803.597	+	site "TATGCTTA"
chr4_69716532_69716645_113+_UGT2B10	123	130	1458.64	-	site "TATGCATT"
chr2_183498018_183498131_113+_NCKAP1	303	310	1199.99	+	site "TATTCTTA"
chr2_183498018_183498131_113+_NCKAP1	65	72	1078.97	-	site "TTTTGATT"
chr8_101338850_101338962_112+_RNF19	198	205	2136.07	+	site "TTATCTTA"
chr6_31717530_31717642_112+_BAT3	5	12	909.615	+	site "TTATGTTT"
chr18_9944057_9944169_112+_VAPA	299	306	1042.18	+	site "TTATCATA"

chr9_115191137_115191248_111_+_ALAD	130	137	1678.76	+	site "TTATGTTA"
chr6_132311822_132311933_111_+_CTGF	240	247	796.518	+	site "TTAGGATT"
chr6_132311822_132311933_111_+_CTGF	127	134	1032.84	-	site "TTAGCATT"
chr10_52230641_52230751_110_+_ACF	124	131	1508.03	+	site "TTTGCATA"
chr10_52230641_52230751_110_+_ACF	26	33	776.213	-	site "TTTTGTTT"
chr6_90409939_90410048_109_+_MDN1	299	306	740.839	+	site "TAAGCTTT"
chr6_90409939_90410048_109_+_MDN1	294	301	1763.57	-	site "TTAGGTTA"
chr16_3662722_3662831_109_+_TRAP1	94	101	1822.07	+	site "TTTTGTTT"
chr8_75678939_75679047_108_+_---	160	167	2485.93	+	site "TTTGCATT"
chr8_75678939_75679047_108_+_---	195	202	848.877	+	site "TTTTCATT"
chr8_75678939_75679047_108_+_---	248	255	2216.23	-	site "TATGCTTA"
chr2_27584557_27584665_108_+_GCKR	290	297	540.879	+	site "TATGGATT"
chr2_27584557_27584665_108_+_GCKR	216	223	1444.64	-	site "TTTGGTTA"
chr17_4803488_4803596_108_+_SPAG7	71	78	803.72	+	site "TTAGGATA"
chr16_30003765_30003873_108_+_PPP4C	110	117	2781.96	+	site "TTTTCTTT"
chr16_30003765_30003873_108_+_PPP4C	137	144	1258.59	+	site "TTAGGTTT"
chr6_76020696_76020802_106_+_TMEM30A	186	193	1170.7	+	site "TTAGCTTA"
chr6_76020696_76020802_106_+_TMEM30A	62	69	697.787	-	site "TATTCTTA"
chr22_49061993_49062099_106_+_MAPK11	295	302	993.257	+	site "TTAGGTTT"
chr5_172128910_172129015_105_+_DUSP1	246	253	1327.51	+	site "TTTTCTTA"
chr11_93128075_93128180_105_+_C11orf54	185	192	978.766	+	site "TTATCTTT"
chr20_5938465_5938569_104_+_CRLS1	164	171	1923.07	+	site "TTTTGTTT"
chr20_5938465_5938569_104_+_CRLS1	60	67	1175.86	+	site "TTTTGTTA"
chr20_5938465_5938569_104_+_CRLS1	293	300	1097.6	+	site "TTTTCTTT"
chr6_33151767_33151871_104_+_HLA-DPB1	95	102	642.155	+	site "TAATCTTT"
chr2_21076411_21076515_104_+_APOB	50	57	2528.31	+	site "TTTTCTTA"
chr2_21076411_21076515_104_+_APOB	235	242	1122.01	-	site "TATGCTTT"
chr16_20342813_20342916_103_+_FLJ20581	134	141	2289.42	+	site "TTATCTTT"
chr16_20342813_20342916_103_+_FLJ20581	57	64	1439.45	-	site "TTTTCTTT"

chr1_149608499_149608602_103_+_SELENBP1	291	298	2161.27	+	site "TTTGCTTA"
chr6_33326500_33326602_102_+_VPS52	44	51	1322.02	+	site "TTATCTTT"
chr6_33326500_33326602_102_+_VPS52	218	225	905.939	-	site "TTTTCTTT"
chr6_24824454_24824556_102_+_C6orf62	250	257	976.613	+	site "TTAGCTTA"
chr4_100359349_100359451_102_+_ADH6	93	100	411.08	+	site "TAAGGTTA"
chr12_56129790_56129892_102_+_INHBC	138	145	1384.85	+	site "TTTGCTTT"
chr12_56129790_56129892_102_+_INHBC	74	81	940.43	-	site "TTTTGTTT"
chr12_55891810_55891912_102_+_LRP1	106	113	1474.63	+	site "TTATCTTA"
chr12_55891810_55891912_102_+_LRP1	20	27	1097.99	+	site "TTTTGTTT"
chr12_55891810_55891912_102_+_LRP1	90	97	855.909	-	site "TTTTGTTT"
chr8_17958279_17958380_101_+_ASAH1	284	291	1961.04	+	site "TTAGGTTT"
chr8_17958279_17958380_101_+_ASAH1	62	69	1917.95	+	site "TTTTCTTT"
chr8_17958279_17958380_101_+_ASAH1	255	262	1743.38	+	site "TTAGGTTT"
chr6_33056301_33056402_101_+_BRD2	231	238	485.837	+	site "TATTGATA"
chr6_10839094_10839195_101_+_TMEM14C	28	35	1252.76	+	site "TTTGTTTT"
chr4_83567412_83567513_101_+_HNRPDL	23	30	1336.5	+	site "TTTGATT"
chr20_32332303_32332404_101_+_AHCY	135	142	796.034	+	site "TTTTGATT"
chr10_69713049_69713150_101_+_MAWBP	56	63	1920.94	+	site "TTAGCTTA"
chr10_69713049_69713150_101_+_MAWBP	86	93	1073.58	-	site "TATTGTTA"
chr10_69713049_69713150_101_+_MAWBP	115	122	1004.04	-	site "TTTTGATA"
chr1_115061899_115062000_101_+_CSDE1	57	64	2778.9	+	site "TTTTCTTT"
chr9_33907192_33907292_100_+_UBE2R2	37	44	1707.16	+	site "TTTTCTTT"
chr9_33907192_33907292_100_+_UBE2R2	211	218	1032.84	+	site "TTAGCATT"
chr9_33907192_33907292_100_+_UBE2R2	110	117	2689.94	-	site "TTATCTTT"
chr8_92238824_92238924_100_+_---	17	24	868.553	+	site "TTATGATT"
chr8_92238824_92238924_100_+_---	18	25	461.407	-	site "TAATCATA"
chr2_136257205_136257305_100_+_UBXD2	266	273	1121.3	+	site "TATGTTTT"
chr16_57308156_57308256_100_+_GOT2	199	206	2064.92	+	site "TTATCTTT"
chr16_57308156_57308256_100_+_GOT2	146	153	998.955	+	site "TTTTCTTT"

chr16_57308156_57308256_100_+_GOT2	236	243	622.294	-	site "TTTGGATA"
chr16_16156045_16156145_100_+_ABCC6	169	176	2324.26	+	site "TTTGCTTA"
chr1_109580173_109580273_100_+_SARS	246	253	1959.17	+	site "TTTTCTTT"
chr1_11957661_11957761_100_+_PLOD1	147	154	2171.01	+	site "TTTTCTTT"
chr9_122823662_122823761_99_+_C5	240	247	998.955	+	site "TTTTCTTT"
chr9_122823662_122823761_99_+_C5	33	40	896.383	-	site "TTTGGTTT"
chr8_11716669_11716768_99_+_FDFT1	63	70	869.399	+	site "TAATCTTT"
chr8_27418346_27418445_99_+_EPHX2	292	299	2460.61	+	site "TTAGCTTT"
chr5_179089482_179089581_99_+_CANX	245	252	1981.47	+	site "TTTTCTTT"
chr5_76005045_76005144_99_+_IQGAP2	79	86	3103.79	+	site "TTATCTTA"
chr3_197444449_197444548_99_+_OSTalpha	270	277	953.694	+	site "TAATCTTT"
chr5_140876339_140876438_99_+_DIAPH1	54	61	1114	+	site "TATTCATT"
chr3_127359913_127360012_99_+_ALDH1L1	264	271	668.597	+	site "TTATGTTT"
chr17_71449799_71449898_99_+_ACOX1	128	135	1829.87	+	site "TTTTGTTA"
chr18_46063253_46063352_99_+_CXXC1	131	138	923.621	+	site "TATTCCTA"
chr18_46063253_46063352_99_+_CXXC1	104	111	2997.41	-	site "TTTGCTTT"
chr18_46063253_46063352_99_+_CXXC1	282	289	1559.82	-	site "TATGCTTT"
chr11_118124799_118124898_99_+_DDX6	116	123	2643.52	+	site "TTTGCTTT"
chr11_118124799_118124898_99_+_DDX6	89	96	1710.02	+	site "TTTTCTTT"
chr11_118124799_118124898_99_+_DDX6	248	255	998.955	-	site "TTTTCTTT"
chr11_10781351_10781450_99_+_EIF4G2	187	194	1462.03	+	site "TATGGTTA"
chr7_111399016_111399194_178_+_DOCK4	339	346	2546.54	+	site "TTTGCTTA"
chr7_111399016_111399194_178_+_DOCK4	278	285	1048.22	-	site "TTAGGATT"
chr4_182651734_182651911_177_+_---	160	167	1812.55	+	site "TTTTGATT"
chr12_52160708_52160857_149_+_MAP3K12	275	282	437.286	+	site "TAATGTTT"
chr3_58389277_58389385_108_+_PDHB	247	254	2024.85	+	site "TTTGCATT"
chr3_52704255_52704362_107_+_GLT8D1	274	281	1752.62	+	site "TTTGCATT"
chr3_52704255_52704362_107_+_GLT8D1	99	106	1098.37	-	site "TTTTCTTT"
chr1_159232661_159232767_106_+_F11R	259	266	1778.01	+	site "TTTGGTTT"

chr1_159232661_159232767_106_+_F11R	222	229	680.006	-	site "TTATCATT"
chrX_152413666_152413770_104_+_BGN	121	128	1139.02	+	site "TTAGGTTT"
chrX_152413666_152413770_104_+_BGN	79	86	775.731	-	site "TTAGCATA"
chr6_159128132_159128235_103_+_VIL2	190	197	1821.38	+	site "TATTCTTA"
chr10_113902317_113902420_103_+_GPAM	87	94	718.668	+	site "TATTGTTA"
chr10_113902317_113902420_103_+_GPAM	250	257	846.769	-	site "TTAGGATT"
chr5_74692982_74693084_102_+_HMGCR	162	169	396.603	+	site "TAATGTTA"
chr5_74692982_74693084_102_+_HMGCR	7	14	776.213	-	site "TTTTGTTT"
chr20_47167944_47168046_102_+_STAU1	96	103	1605.27	+	site "TTTTGTTT"
chrX_77267464_77267565_101_+_PGK1	256	263	800.657	+	site "TTTTGTTA"
chr2_241826843_241826942_99_+_HDLBP	275	282	433.926	+	site "TTAGGATA"
chr19_54005430_54005529_99_+_BCAT2	291	298	482.739	+	site "TATTCATA"
chr19_54005430_54005529_99_+_BCAT2	33	40	1003.63	-	site "TTATCATT"
chr14_73607707_73607806_99_+_ALDH6A1	101	108	455.418	+	site "TAAGCTTT"
chr1_149207214_149207343_129_+_LASS2	295	302	1543.29	+	site "TATTCTTT"
chr13_109204278_109204388_110_+_IRS2	240	247	927.575	+	site "TATGGTTA"
chrX_72958676_72958788_112_+_---	86	93	1284.38	+	site "TTATCATT"
chrX_72958676_72958788_112_+_---	240	247	1140.79	-	site "TTTGTTTA"
chr14_63994689_63994798_109_+_MTHFD1	152	159	1690.12	+	site "TATGCTTA"
chr14_63994689_63994798_109_+_MTHFD1	271	278	1308.9	-	site "TTTTGTTT"
chr14_63994689_63994798_109_+_MTHFD1	169	176	592.684	-	site "TTATGTTA"
chr12_48787639_48787743_104_+_GPD1	263	270	2237.43	+	site "TTTGCTTT"
chr5_154178303_154178402_99_+_C5orf4	157	164	848.274	+	site "TTTTGATT"
chr10_5236372_5236473_101_+_AKR1C4	71	78	556.445	+	site "TATGCATA"
chr10_5236372_5236473_101_+_AKR1C4	71	78	350.125	-	site "TATGCATA"
chr5_179157748_179157849_101_+_MGAT4B	197	204	2112.05	+	site "TTTTCTTA"
chr5_179157748_179157849_101_+_MGAT4B	2	9	1368.74	-	site "TTTTGTTT"
chr17_6531532_6531713_181_+_SLC13A5	93	100	1611.74	+	site "TTATGTTT"
chr16_54953652_54953757_105_+_AMFR	53	60	1474.63	+	site "TTATCTTA"

chr16_54953652_54953757_105_+_AMFR	255	262	508.666	-	site "TTTGGATA"
chr14_52393873_52393978_105_+_PLEKHC1	53	60	2263.91	+	site "TTTTCTTT"
chr5_179372823_179372926_103_+_RNF130	7	14	821.928	+	site "TAAGCTTA"
chr5_179372823_179372926_103_+_RNF130	7	14	465.496	-	site "TAAGCTTA"
chr12_90026598_90026700_102_+_LUM	95	102	1913.06	+	site "TTTTCTTA"
chr12_90026598_90026700_102_+_LUM	165	172	696.46	-	site "TAAGCTTT"
chr20_5029205_5029306_101_+_C20orf30	185	192	1244.22	+	site "TTATGTTT"
chr20_5029205_5029306_101_+_C20orf30	206	213	548.85	-	site "TATTCATA"
chr5_10335304_10335404_100_+_CMBL	241	248	998.955	+	site "TTTTCTTT"
chr14_22373243_22373344_101_+_MRPL52	14	21	2339.02	+	site "TTTTCA TT"
chr14_22373243_22373344_101_+_MRPL52	119	126	1207.58	+	site "TTTTCTTA"
chr14_22373243_22373344_101_+_MRPL52	50	57	1686.37	-	site "TTTTGTTT"
chr12_108478834_108478934_100_+_MMAB	24	31	765.075	+	site "TTTTCATA"
chr12_108478834_108478934_100_+_MMAB	135	142	840.495	-	site "TATGGTTT"
chr1_60146093_60146193_100_+_CYP2J2	96	103	1010.01	+	site "TATTCTTA"
chr1_60146093_60146193_100_+_CYP2J2	66	73	1378.89	-	site "TATTCTTA"
chr1_60146093_60146193_100_+_CYP2J2	118	125	994.606	-	site "TATTGTTA"
chr1_60146093_60146193_100_+_CYP2J2	190	197	879.241	-	site "TTTTGTTT"
chr19_22674116_22674247_131_+_---	124	131	2009.36	+	site "TTTTGATT"
chr19_22674116_22674247_131_+_---	160	167	2009.36	-	site "TTTTGATT"
chr3_121877341_121877447_106_+_HGD	171	178	1281.5	+	site "TTTTCTTT"
chr5_118872744_118872847_103_+_HSD17B4	185	192	1083.75	+	site "TATTGATT"
