

Table S1 Proteomics identification of pancreatic cancer-derived ultrafiltered exosome lysates

prot_hit_num	prot_acc	prot_desc	prot_score	prot_mass	prot_matches	prot_matches_sig	prot_sequences	prot_sequences_sig
1	A2MG_HUMAN	Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=2	5154	164614	164	164	6	6
2	EGFR_HUMAN	Epidermal growth factor receptor OS=Homo sapiens GN=EGFR PE=1 SV=2	2901	137612	78	78	27	27
3	K2C1_HUMAN	Keratin, type II cytoskeletal 1 OS=Homo sapiens GN=KRT1 PE=1 SV=6	2558	66170	56	56	22	22
4	K1C10_HUMAN	Keratin, type I cytoskeletal 10 OS=Homo sapiens GN=KRT10 PE=1 SV=6	2163	59020	59	59	15	15
5	FINC_HUMAN	Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=3	2057	266034	54	54	18	18
6	TFR1_HUMAN	Transferrin receptor protein 1 OS=Homo sapiens GN=TFRC PE=1 SV=2	1914	85274	50	50	21	21
7	CLH1_HUMAN	Clathrin heavy chain 1 OS=Homo sapiens GN=CLTC PE=1 SV=5	1676	193260	52	52	30	30
8	ITA2_HUMAN	Integrin alpha-2 OS=Homo sapiens GN=ITGA2 PE=1 SV=1	1502	130468	41	41	19	19
9	ITA1_HUMAN	Integrin alpha-1 OS=Homo sapiens GN=ITGA1 PE=1 SV=2	1488	132304	39	39	15	15
10	IQGA1_HUMAN	Ras GTPase-activating-like protein IQGAP1 OS=Homo sapiens GN=IQGAP1 PE=1 SV=1	1343	189761	42	42	26	26
11	ALBU_HUMAN	Serum albumin OS=Homo sapiens GN=ALB PE=1 SV=2	1318	71317	38	38	6	6
12	K22E_HUMAN	Keratin, type II cytoskeletal 2 epidermal OS=Homo sapiens GN=KRT2 PE=1 SV=2	1210	65678	30	30	13	13
13	PZP_HUMAN	Pregnancy zone protein OS=Homo sapiens GN=PZP PE=1 SV=4	1205	165242	53	53	4	4
14	TSP1_HUMAN	Thrombospondin-1 OS=Homo sapiens GN=THBS1 PE=1 SV=2	1107	133291	35	35	15	15
15	K1C14_HUMAN	Keratin, type I cytoskeletal 14 OS=Homo sapiens GN=KRT14 PE=1 SV=4	979	51872	29	29	10	10
16	K1C9_HUMAN	Keratin, type I cytoskeletal 9 OS=Homo sapiens GN=KRT9 PE=1 SV=3	956	62255	22	22	10	10

17	K1C16_HUMAN	Keratin, type I cytoskeletal 16 OS=Homo sapiens GN=KRT16 PE=1 SV=4	924	51578	29	29	10	10
18	ITB1_HUMAN	Integrin beta-1 OS=Homo sapiens GN=ITGB1 PE=1 SV=2	898	91664	24	24	10	10
19	L1CAM_HUMAN	Neural cell adhesion molecule L1 OS=Homo sapiens GN=L1CAM PE=1 SV=2	727	140885	25	25	11	11
20	ITIH2_HUMAN	Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2	701	106853	14	14	5	5
21	LAMC1_HUMAN	Laminin subunit gamma-1 OS=Homo sapiens GN=LAMC1 PE=1 SV=3	700	183191	17	17	10	10
22	K2C6A_HUMAN	Keratin, type II cytoskeletal 6A OS=Homo sapiens GN=KRT6A PE=1 SV=3	643	60293	21	21	9	9
23	ITAV_HUMAN	Integrin alpha-V OS=Homo sapiens GN=ITGAV PE=1 SV=2	608	117048	19	19	12	12
24	HS90B_HUMAN	Heat shock protein HSP 90-beta OS=Homo sapiens GN=HSP90AB1 PE=1 SV=4	608	83554	16	16	10	10
25	K2C5_HUMAN	Keratin, type II cytoskeletal 5 OS=Homo sapiens GN=KRT5 PE=1 SV=3	565	62568	18	18	8	8
26	FLNA_HUMAN	Filamin-A OS=Homo sapiens GN=FLNA PE=1 SV=4	530	283301	14	14	10	10
27	4F2_HUMAN	4F2 cell-surface antigen heavy chain OS=Homo sapiens GN=SLC3A2 PE=1 SV=3	471	68180	12	12	6	6
28	FAS_HUMAN	Fatty acid synthase OS=Homo sapiens GN=FASN PE=1 SV=3	371	275877	14	14	11	11
29	UBIQ_HUMAN	Ubiquitin OS=Homo sapiens GN=RPS27A PE=1 SV=1	359	8560	11	11	4	4
30	AT1A1_HUMAN	Sodium/potassium-transporting ATPase subunit alpha-1 OS=Homo sapiens GN=ATP1A1 PE=1 SV=1	355	114135	10	10	7	7
31	ITA3_HUMAN	Integrin alpha-3 OS=Homo sapiens GN=ITGA3 PE=1 SV=4	339	119878	9	9	5	5
32	AT2B1_HUMAN	Plasma membrane calcium-transporting ATPase 1 OS=Homo sapiens GN=ATP2B1 PE=1 SV=3	333	139637	9	9	7	7
33	ACTB_HUMAN	Actin, cytoplasmic 1 OS=Homo sapiens GN=ACTB PE=1 SV=1	314	42052	13	13	5	5
34	CO3_HUMAN	Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2	308	188569	11	11	6	6
35	LAMB1_HUMAN	Laminin subunit beta-1 OS=Homo sapiens GN=LAMB1 PE=1 SV=1	290	205178	11	11	6	6

36	HS90A_HUMAN	Heat shock protein HSP 90-alpha OS=Homo sapiens GN=HSP90AA1 PE=1 SV=5	289	85006	7	7	4	4
37	ITIH3_HUMAN	Inter-alpha-trypsin inhibitor heavy chain H3 OS=Homo sapiens GN=ITIH3 PE=1 SV=2	276	100072	9	9	3	3
38	TPIS_HUMAN	Triosephosphate isomerase OS=Homo sapiens GN=TPI1 PE=1 SV=2	262	26938	5	5	3	3
39	GELS_HUMAN	Gelsolin OS=Homo sapiens GN=GSN PE=1 SV=1	253	86043	7	7	4	4
40	CPSM_HUMAN	Carbamoyl-phosphate synthase [ammonia], mitochondrial OS=Homo sapiens GN=CPS1 PE=1 SV=2	251	165975	8	8	8	8
41	PLAK_HUMAN	Junction plakoglobin OS=Homo sapiens GN=JUP PE=1 SV=3	246	82434	7	7	5	5
42	PODXL_HUMAN	Podocalyxin-like protein 1 OS=Homo sapiens GN=PODXL PE=1 SV=2	244	59055	6	6	3	3
43	G3P_HUMAN	Glyceraldehyde-3-phosphate dehydrogenase OS=Homo sapiens GN=GAPDH PE=1 SV=3	240	36201	6	6	4	4
44	ITB4_HUMAN	Integrin beta-4 OS=Homo sapiens GN=ITGB4 PE=1 SV=4	229	205729	6	6	5	5
45	CD44_HUMAN	CD44 antigen OS=Homo sapiens GN=CD44 PE=1 SV=2	223	82017	7	7	4	4
46	HSP7C_HUMAN	Heat shock cognate 71 kDa protein OS=Homo sapiens GN=HSPA8 PE=1 SV=1	221	71082	6	6	4	4
47	TRFL_HUMAN	Lactotransferrin OS=Homo sapiens GN=LTF PE=1 SV=6	218	80014	8	8	3	3
48	BASI_HUMAN	Basigin OS=Homo sapiens GN=BSG PE=1 SV=2	214	42573	7	7	3	3
49	H4_HUMAN	Histone H4 OS=Homo sapiens GN=HIST1H4A PE=1 SV=2	209	11360	7	7	4	4
50	ATS13_HUMAN	A disintegrin and metalloproteinase with thrombospondin motifs 13 OS=Homo sapiens GN=ADAMTS13 PE=1 SV=1	208	158180	6	6	3	3
51	ITA5_HUMAN	Integrin alpha-5 OS=Homo sapiens GN=ITGA5 PE=1 SV=2	203	115605	5	5	5	5
52	PLXB2_HUMAN	Plexin-B2 OS=Homo sapiens GN=PLXNB2 PE=1 SV=3	202	207734	6	6	5	5
53	ITA6_HUMAN	Integrin alpha-6 OS=Homo sapiens GN=ITGA6 PE=1 SV=4	195	127751	4	4	2	2
54	LAMA5_HUMAN	Laminin subunit alpha-5 OS=Homo sapiens GN=LAMA5 PE=1 SV=7	194	412085	3	3	2	2

55	ACLY_HUMAN	ATP-citrate synthase OS=Homo sapiens GN=ACLY PE=1 SV=3	184	121674	6	6	6	6
56	MOES_HUMAN	Moesin OS=Homo sapiens GN=MSN PE=1 SV=3	180	67892	7	7	5	5
57	LDHA_HUMAN	L-lactate dehydrogenase A chain OS=Homo sapiens GN=LDHA PE=1 SV=2	178	36950	4	4	3	3
58	EF1A1_HUMAN	Elongation factor 1-alpha 1 OS=Homo sapiens GN=EEF1A1 PE=1 SV=1	177	50451	4	4	2	2
59	MOT4_HUMAN	Monocarboxylate transporter 4 OS=Homo sapiens GN=SLC16A3 PE=1 SV=1	174	50064	5	5	3	3
60	DAF_HUMAN	Complement decay-accelerating factor OS=Homo sapiens GN=CD55 PE=1 SV=4	172	42400	5	5	3	3
61	ATRN_HUMAN	Attractin OS=Homo sapiens GN=ATRN PE=1 SV=2	169	163450	3	3	2	2
62	EZRI_HUMAN	Ezrin OS=Homo sapiens GN=EZR PE=1 SV=4	165	69484	7	7	5	5
63	H2B1C_HUMAN	Histone H2B type 1-C/E/F/G/I OS=Homo sapiens GN=HIST1H2BC PE=1 SV=4	150	13898	3	3	3	3
64	MGA_HUMAN	Maltase-glucoamylase, intestinal OS=Homo sapiens GN=MGAM PE=1 SV=5	143	211031	5	5	4	4
65	VTNC_HUMAN	Vitronectin OS=Homo sapiens GN=VTN PE=1 SV=1	140	55069	2	2	1	1
66	TMEM2_HUMAN	Transmembrane protein 2 OS=Homo sapiens GN=TMEM2 PE=1 SV=1	130	155702	4	4	4	4
67	THRB_HUMAN	Prothrombin OS=Homo sapiens GN=F2 PE=1 SV=2	130	71475	4	4	3	3
68	NPM_HUMAN	Nucleophosmin OS=Homo sapiens GN=NPM1 PE=1 SV=2	124	32726	1	1	1	1
69	AAAT_HUMAN	Neutral amino acid transporter B(0) OS=Homo sapiens GN=SLC1A5 PE=1 SV=2	118	57018	3	3	3	3
70	MARCS_HUMAN	Myristoylated alanine-rich C-kinase substrate OS=Homo sapiens GN=MARCKS PE=1 SV=4	112	31707	4	4	2	2
71	HBB_HUMAN	Hemoglobin subunit beta OS=Homo sapiens GN=HBB PE=1 SV=2	107	16102	3	3	2	2
72	MYOF_HUMAN	Myoferlin OS=Homo sapiens GN=MYOF PE=1 SV=1	106	236100	2	2	2	2
73	A2AP_HUMAN	Alpha-2-antiplasmin OS=Homo sapiens GN=SERPINF2 PE=1 SV=3	104	54873	4	4	2	2

74	DIP2B_HUMAN	Disco-interacting protein 2 homolog B OS=Homo sapiens GN=DIP2B PE=1 SV=3	104	173606	3	3	3	3
75	RAI3_HUMAN	Retinoic acid-induced protein 3 OS=Homo sapiens GN=GPRC5A PE=1 SV=2	103	40624	2	2	1	1
76	TTYH3_HUMAN	Protein tweety homolog 3 OS=Homo sapiens GN=TTYH3 PE=1 SV=3	98	58477	3	3	1	1
77	TRFE_HUMAN	Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=2	98	79280	3	3	1	1
78	S39AA_HUMAN	Zinc transporter ZIP10 OS=Homo sapiens GN=SLC39A10 PE=1 SV=2	94	94928	3	3	2	2
79	ACTN1_HUMAN	Alpha-actinin-1 OS=Homo sapiens GN=ACTN1 PE=1 SV=2	92	103563	2	2	2	2
80	ENOA_HUMAN	Alpha-enolase OS=Homo sapiens GN=ENO1 PE=1 SV=2	91	47481	2	2	2	2
81	A1BG_HUMAN	Alpha-1B-glycoprotein OS=Homo sapiens GN=A1BG PE=1 SV=3	88	54809	2	2	1	1
82	KPYM_HUMAN	Pyruvate kinase isozymes M1/M2 OS=Homo sapiens GN=PKM2 PE=1 SV=4	87	58470	3	3	3	3
83	H2A1B_HUMAN	Histone H2A type 1-B/E OS=Homo sapiens GN=HIST1H2AB PE=1 SV=2	86	14127	2	2	2	2
84	COPA_HUMAN	Coatomer subunit alpha OS=Homo sapiens GN=COPA PE=1 SV=2	81	139797	2	2	2	2
85	FA5_HUMAN	Coagulation factor V OS=Homo sapiens GN=F5 PE=1 SV=3	79	252654	1	1	1	1
86	CA2D1_HUMAN	Voltage-dependent calcium channel subunit alpha-2/delta-1 OS=Homo sapiens GN=CACNA2D1 PE=1 SV=3	77	125630	2	2	2	2
87	FLNB_HUMAN	Filamin-B OS=Homo sapiens GN=FLNB PE=1 SV=1	75	280188	2	2	2	2
88	SYEP_HUMAN	Bifunctional aminoacyl-tRNA synthetase OS=Homo sapiens GN=EPRS PE=1 SV=5	71	172080	2	2	2	2
89	ARRC_HUMAN	Arrestin-C OS=Homo sapiens GN=ARR3 PE=1 SV=2	71	43207	3	3	1	1
90	EGLN_HUMAN	Endoglin OS=Homo sapiens GN=ENG PE=1 SV=2	68	71559	1	1	1	1
91	NPC1_HUMAN	Niemann-Pick C1 protein OS=Homo sapiens GN=NPC1 PE=1 SV=2	68	144868	1	1	1	1
92	HBA_HUMAN	Hemoglobin subunit alpha OS=Homo sapiens GN=HBA1 PE=1 SV=2	66	15305	2	2	1	1

93	PDC6I_HUMAN	Programmed cell death 6-interacting protein OS=Homo sapiens GN=PDCD6IP PE=1 SV=1	62	96590	2	2	2	2
94	TBB5_HUMAN	Tubulin beta chain OS=Homo sapiens GN=TUBB PE=1 SV=2	62	50095	2	2	2	2
95	MGAL2_HUMAN	Putative maltase-glucoamylase-like protein LOC93432 OS=Homo sapiens PE=2 SV=2	60	55624	1	1	1	1
96	COCA1_HUMAN	Collagen alpha-1(XII) chain OS=Homo sapiens GN=COL12A1 PE=1 SV=2	59	334138	2	2	2	2
97	PGK1_HUMAN	Phosphoglycerate kinase 1 OS=Homo sapiens GN=PGK1 PE=1 SV=3	58	44985	1	1	1	1
98	MYO1C_HUMAN	Myosin-Ic OS=Homo sapiens GN=MYO1C PE=1 SV=3	55	122503	2	2	1	1
99	AOC3_HUMAN	Membrane primary amine oxidase OS=Homo sapiens GN=AOC3 PE=1 SV=3	54	85138	2	2	1	1
100	CO4A_HUMAN	Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=1	54	194247	1	1	1	1
101	YS048_HUMAN	Complement C3-like protein LOC388503 OS=Homo sapiens PE=1 SV=2	53	40598	1	1	1	1
102	CD109_HUMAN	CD109 antigen OS=Homo sapiens GN=CD109 PE=1 SV=2	53	162500	2	2	1	1
103	S38A2_HUMAN	Sodium-coupled neutral amino acid transporter 2 OS=Homo sapiens GN=SLC38A2 PE=1 SV=2	53	56332	1	1	1	1
104	VTDB_HUMAN	Vitamin D-binding protein OS=Homo sapiens GN=GC PE=1 SV=1	49	54526	1	1	1	1
105	DSG1_HUMAN	Desmoglein-1 OS=Homo sapiens GN=DSG1 PE=1 SV=1	48	114670	1	1	1	1
106	APOA4_HUMAN	Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3	47	45371	2	2	1	1
107	GBB2_HUMAN	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2 OS=Homo sapiens GN=GNB2 PE=1 SV=3	45	38048	1	1	1	1
108	EF2_HUMAN	Elongation factor 2 OS=Homo sapiens GN=EEF2 PE=1 SV=4	45	96246	1	1	1	1
109	TBA1A_HUMAN	Tubulin alpha-1A chain OS=Homo sapiens GN=TUBA1A PE=1 SV=1	43	50788	1	1	1	1
110	ANXA2_HUMAN	Annexin A2 OS=Homo sapiens GN=ANXA2 PE=1 SV=2	43	38808	1	1	1	1
111	HGFA_HUMAN	Hepatocyte growth factor activator OS=Homo sapiens GN=HGFA PE=1 SV=1	43	72860	1	1	1	1

112	BTK_HUMAN	Tyrosine-protein kinase BTK OS=Homo sapiens GN=BTK PE=1 SV=3	43	76917	1	1	1	1
113	RAB1A_HUMAN	Ras-related protein Rab-1A OS=Homo sapiens GN=RAB1A PE=1 SV=3	43	22891	1	1	1	1
114	DPP4_HUMAN	Dipeptidyl peptidase 4 OS=Homo sapiens GN=DPP4 PE=1 SV=2	41	88907	1	1	1	1
115	FHR5_HUMAN	Complement factor H-related protein 5 OS=Homo sapiens GN=CFHR5 PE=1 SV=1	39	66430	1	1	1	1
116	THYG_HUMAN	Thyroglobulin OS=Homo sapiens GN=TG PE=1 SV=5	37	311608	1	1	1	1
117	CO5_HUMAN	Complement C5 OS=Homo sapiens GN=C5 PE=1 SV=4	36	189897	1	1	1	1
118	FRK_HUMAN	Tyrosine-protein kinase FRK OS=Homo sapiens GN=FRK PE=1 SV=1	36	58673	1	1	1	1
119	PRDX1_HUMAN	Peroxiredoxin-1 OS=Homo sapiens GN=PRDX1 PE=1 SV=1	36	22324	1	1	1	1
120	MPZL1_HUMAN	Myelin protein zero-like protein 1 OS=Homo sapiens GN=MPZL1 PE=1 SV=1	35	29235	1	1	1	1
121	LAT1_HUMAN	Large neutral amino acids transporter small subunit 1 OS=Homo sapiens GN=SLC7A5 PE=1 SV=2	34	55659	1	1	1	1
122	ACE_HUMAN	Angiotensin-converting enzyme OS=Homo sapiens GN=ACE PE=1 SV=1	34	150418	1	1	1	1
123	CAND1_HUMAN	Cullin-associated NEDD8-dissociated protein 1 OS=Homo sapiens GN=CAND1 PE=1 SV=2	34	137999	1	1	1	1
124	UBA1_HUMAN	Ubiquitin-like modifier-activating enzyme 1 OS=Homo sapiens GN=UBA1 PE=1 SV=3	34	118858	1	1	1	1
125	ITIH4_HUMAN	Inter-alpha-trypsin inhibitor heavy chain H4 OS=Homo sapiens GN=ITIH4 PE=1 SV=4	33	103521	1	1	1	1
126	RIR1_HUMAN	Ribonucleoside-diphosphate reductase large subunit OS=Homo sapiens GN=RRM1 PE=1 SV=1	33	90925	1	1	1	1
127	TKT_HUMAN	Transketolase OS=Homo sapiens GN=TKT PE=1 SV=3	33	68519	1	1	1	1
128	H3L_HUMAN	Histone H3-like OS=Homo sapiens PE=1 SV=3	33	15318	1	1	1	1