

**Table S1 Expression levels in different tissues and growth stages of candidate genes for barley salinity tolerance at germination**

Gene ID Name	EMB	ROO1	LEA	INF1	INF2	NOD	CAR5	CAR15	ETI	LEM	LOD	PAL	EPI	RAC	ROO2	SEN
HORVU5Hr1G001400.5	10.680	14.404	7.802	0.000	11.193	18.191	9.868	13.869	12.653	14.722	16.153	15.285	13.788	13.834	12.451	12.275
HORVU4Hr1G003600.1	30.763	102.072	61.556	0.000	16.424	77.195	28.363	155.646	56.569	103.083	66.746	81.768	39.401	52.113	49.135	76.174
HORVU2Hr1G021020.4	5.865	8.743	16.482	0.000	23.953	49.791	11.115	12.231	17.568	42.308	13.567	22.734	65.941	25.827	5.471	10.384
HORVU4Hr1G033760.1	4.918	9.283	14.821	0.000	4.223	11.698	8.135	15.964	6.677	10.937	9.418	8.983	16.004	8.956	6.230	23.503
HORVU7Hr1G046030.1	0.046	0.222	0.000	0.000	0.000	0.000	0.057	66.352	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.000
HORVU3Hr1G003150.1	45.481	32.857	27.306	0.000	38.285	37.098	43.078	54.442	89.815	58.011	36.436	50.987	102.837	39.454	111.369	60.351
HORVU5Hr1G077100.1	4.571	2.438	4.918	0.000	13.294	2.308	7.512	5.642	5.385	2.886	3.916	3.515	4.382	4.769	3.050	5.480
HORVU2Hr1G071270.4	2.470	5.637	2.622	0.000	0.657	0.192	1.216	3.577	6.440	0.410	1.182	0.275	1.068	0.083	2.570	0.709
HORVU4Hr1G000960.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.885	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
HORVU1Hr1G067870.2	14.589	24.977	27.054	0.000	0.372	53.653	0.643	0.891	7.446	41.422	17.376	42.971	21.689	9.756	32.480	27.501
HORVU3Hr1G038190.1	74.543	55.893	67.299	0.000	22.959	115.939	72.663	56.305	61.287	114.177	139.238	86.273	112.404	106.974	94.642	76.913
HORVU2Hr1G021020.4	5.865	8.743	16.482	0.000	23.953	49.791	11.115	12.231	17.568	42.308	13.567	22.734	65.941	25.827	5.471	10.384
HORVU6Hr1G090000.1	30.784	25.630	32.180	0.000	20.807	50.918	33.745	41.372	26.647	32.392	33.975	36.520	30.638	32.921	18.951	60.294
HORVU6Hr1G074440.1	437.068	191.863	85.617	0.000	7.204	368.521	94.214	64.423	83.429	224.582	166.375	255.581	112.586	301.458	474.771	298.980
HORVU5Hr1G079500.1	3.181	1.054	0.632	0.000	7.812	0.024	3.364	1.142	0.008	0.067	0.624	0.047	0.005	0.895	1.383	0.000
HORVU5Hr1G007890.11	4.432	9.268	13.979	0.000	9.550	4.070	1.895	1.944	5.038	0.434	0.285	0.407	12.920	1.837	1.659	9.847
HORVU1Hr1G080820.6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.614	0.031	1.064	0.874	0.893	0.081	0.041	1.093	0.000
HORVU0Hr1G038850.2	19.199	19.750	13.556	0.000	12.608	26.856	13.125	11.510	17.096	24.306	15.520	18.604	26.172	22.711	33.540	5.996
HORVU7Hr1G023760.3	87.343	57.420	76.815	0.000	51.800	140.740	62.120	51.157	89.136	80.849	116.690	101.581	67.666	81.541	82.810	72.686
HORVU5Hr1G072920.1	15.455	38.394	31.020	0.000	1.353	98.134	10.959	13.977	19.531	149.770	62.784	106.249	56.509	71.726	64.894	25.757
HORVU6Hr1G050520.2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.145	0.000	1.348	0.000	0.085	0.065	0.000
HORVU2Hr1G053670.4	32.578	51.812	65.166	0.000	9.988	79.027	30.092	33.406	40.503	57.825	48.245	52.142	80.105	37.604	62.634	82.534
HORVU1Hr1G008810.3	124.703	172.780	67.796	0.000	6.863	235.389	17.893	24.202	40.322	5.188	2.739	3.304	170.440	13.835	47.918	186.628

HORVU7Hr1G050270.3	163.787	251.773	195.037	0.000	7.625	377.512	75.134	52.844	188.993	587.204	424.828	404.746	384.064	299.260	337.110	161.542
HORVU6Hr1G061280.1	2.446	2.131	2.093	0.000	1.537	6.318	0.292	0.419	2.243	2.599	0.923	3.776	1.479	1.225	4.977	0.221
HORVU6Hr1G026810.3	158.784	100.159	3.340	0.000	0.016	0.354	0.025	1.354	1.086	2.559	1.074	3.692	0.855	5.554	323.722	0.024
HORVU5Hr1G080420.1	0.147	0.694	0.765	0.000	0.000	7.558	0.386	0.036	0.028	18.062	10.116	18.710	5.343	10.909	4.669	2.098
HORVU7Hr1G060310.1	36.751	36.749	52.256	0.000	58.892	33.422	58.869	56.231	39.444	38.463	38.683	33.350	37.365	34.613	27.814	54.473
HORVU5Hr1G055970.1	8.250	9.373	22.101	0.000	5.726	22.906	7.226	7.511	16.362	24.191	15.243	19.269	22.911	10.817	15.116	25.052
HORVU6Hr1G067430.2	23.124	16.497	13.382	0.000	6.231	27.254	22.851	3.635	58.177	86.899	76.859	117.001	49.011	39.750	45.580	8.388
HORVU3Hr1G086270.3	9.901	4.950	13.650	0.000	10.814	13.134	14.588	22.856	15.575	16.792	18.269	16.588	17.669	14.923	10.999	13.714
HORVU5Hr1G023000.1	0.448	0.620	0.000	0.000	0.315	1.317	0.580	0.630	2.387	3.850	9.250	8.864	3.487	7.819	10.358	2.770
HORVU6Hr1G031330.2	7.361	25.649	9.114	0.000	5.831	26.607	14.771	17.556	12.112	65.397	85.644	46.985	27.076	35.399	29.288	4.162
HORVU2Hr1G055230.4	6.230	5.410	6.863	0.000	13.917	6.727	7.818	6.302	6.749	8.227	11.806	9.283	13.641	10.581	9.412	12.630
HORVU4Hr1G015350.1	1.066	1.503	1.149	0.000	0.000	0.018	0.000	0.000	1.935	0.000	0.190	0.019	1.016	0.287	4.243	0.000
HORVU7Hr1G026940.1	4.104	16.037	5.933	0.000	3.653	9.355	5.954	17.738	13.805	25.598	16.963	12.849	35.786	8.854	5.398	11.565
HORVU5Hr1G098840.2	16.495	10.496	14.728	0.000	67.579	12.383	35.897	92.127	8.308	11.539	14.556	18.488	6.481	20.820	9.483	3.149
HORVU2Hr1G110500.1	0.194	0.663	0.356	0.000	3.067	0.056	0.056	0.000	0.000	0.026	0.000	0.000	0.000	0.140	0.000	0.000
HORVU2Hr1G017470.1	3.485	3.693	18.670	0.000	0.230	0.267	1.697	4.318	11.276	6.886	27.301	5.591	28.974	0.743	1.725	27.690
HORVU5Hr1G067740.1	35.053	51.292	31.758	0.000	24.958	91.764	39.765	41.532	27.832	35.870	35.853	33.871	36.455	27.990	30.610	31.890
HORVU5Hr1G111590.2	33.123	30.729	83.335	0.000	30.250	132.291	15.399	32.295	55.521	438.717	201.047	345.189	194.401	204.532	164.808	50.149
HORVU4Hr1G043960.1	0.040	0.669	0.229	0.000	0.000	0.079	0.064	0.000	1.696	0.234	0.005	0.133	0.037	0.026	5.827	1.264
HORVU3Hr1G089830.2	118.325	89.799	289.048	0.000	39.878	157.062	18.702	12.965	199.228	106.743	3.637	41.640	288.295	53.122	181.437	549.716
HORVU2Hr1G072420.11	343.113	270.364	271.324	0.000	159.501	1837.740	262.717	975.653	284.725	415.538	350.302	523.468	165.620	372.102	306.266	291.913
HORVU4Hr1G063430.1	9.955	7.578	1.639	0.000	0.071	4.027	0.073	0.000	0.697	3.925	0.038	6.969	49.963	0.376	10.047	0.023
HORVU5Hr1G103460.2	6.458	29.776	11.277	0.000	0.574	3.562	0.382	21.231	0.761	161.759	32.728	34.437	13.746	87.748	41.292	2.207
HORVU2Hr1G096360.13	1305.897	1094.393	1133.081	0.000	131.139	1345.771	332.071	385.016	968.914	673.944	306.989	266.549	985.271	223.498	761.565	519.520
HORVU2Hr1G109330.1	0.141	0.284	0.123	0.000	0.231	0.684	0.030	0.044	0.080	0.238	0.158	0.133	0.183	0.091	0.402	1.123

HORVU3Hr1G061690.1	48.794	62.843	45.098	0.000	29.136	78.961	34.661	33.447	51.351	210.042	196.468	162.354	77.911	109.782	196.922	60.249
HORVU0Hr1G016450.1	14.357	16.710	16.052	0.000	8.369	15.613	12.984	16.628	10.717	15.443	18.637	14.167	12.470	13.130	29.153	15.141
HORVU5Hr1G105980.4	5.479	2.302	6.885	0.000	26.930	4.141	11.748	30.363	5.386	3.474	3.578	4.516	3.851	5.298	2.562	2.578
HORVU2Hr1G018340.3	23.059	41.801	24.761	0.000	17.530	160.163	14.221	0.962	17.282	158.751	85.071	161.561	23.544	66.317	13.017	3.815
HORVU2Hr1G098330.1	8.725	6.405	3.141	0.000	0.821	5.969	2.289	2.792	4.627	7.848	5.509	9.187	12.559	5.925	22.035	2.240
HORVU4Hr1G083960.3	9.297	7.680	11.406	0.000	17.361	15.883	14.857	19.413	14.752	12.873	17.803	14.617	19.110	16.650	16.564	22.046
HORVU4Hr1G048400.12	3.898	4.304	8.871	0.000	6.339	4.481	4.851	5.833	6.433	5.216	3.717	4.167	8.565	3.670	2.911	9.656
HORVU4Hr1G033760.1	4.918	9.283	14.821	0.000	4.223	11.698	8.135	15.964	6.677	10.937	9.418	8.983	16.004	8.956	6.230	23.503
HORVU7Hr1G037410.4	32.307	38.709	23.649	0.000	2.140	37.617	8.714	3.027	7.397	5.382	22.307	8.920	21.984	16.544	3.267	11.805
HORVU2Hr1G021020.4	5.865	8.743	16.482	0.000	23.953	49.791	11.115	12.231	17.568	42.308	13.567	22.734	65.941	25.827	5.471	10.384
HORVU7Hr1G031480.1	21.229	0.000	0.861	0.000	3.726	0.771	11.053	11.048	1.899	2.573	1.541	6.985	0.462	4.640	3.145	1.495
HORVU7Hr1G114250.2	243.945	66.406	62.404	0.000	38.657	110.696	135.010	41.202	27.212	31.682	65.250	120.775	40.350	44.664	81.259	13.588
HORVU1Hr1G048970.4	17.997	11.681	14.857	0.000	40.463	13.225	24.224	43.706	21.663	17.492	19.210	16.170	11.748	18.225	22.661	11.527
HORVU1Hr1G001850.3	130.689	130.618	1.422	0.128	0.032	0.002	0.022	0.108	0.144	0.026	0.018	0.040	1.164	0.055	131.255	0.300
HORVU6Hr1G081080.12	19.004	60.501	45.919	0.000	3.804	10.843	2.101	8.576	4.440	4.737	0.799	4.400	8.388	3.914	3.296	23.952
HORVU2Hr1G118320.7	41.806	38.715	60.416	0.000	45.389	129.032	43.690	22.130	69.421	60.849	49.445	48.148	38.077	33.915	18.727	49.211
HORVU3Hr1G087400.11	58.173	41.012	42.255	0.000	31.090	70.851	60.548	32.221	38.367	87.259	170.988	123.430	40.110	119.649	99.634	51.733

**Note:** *EMB* – 4-day embryo, *ROO1* – root from seedlings (10 cm shoot stage), *LEA* – shoot from seedling stage (10 cm shoot stage), *INF1* – young developing inflorescences (5mm), *INF2* – developing inflorescences (1 – 1.5 mm), *NOD* – developing tillers, third internode (42DAP), *CAR5* – developing grain (5DAP), *CAR15* – developing grain (15DAP), *ETI* – etiolated seedling dark con (10DAP), *LEM* – inflorescences lemma (42DAP), *LOD* – inflorescences lodicule (42DAP), *PAL* – dissected inflorescences, palea (42DAP), *EPI* – epidermal strips (28DAP), *RAC* – inflorescences rachis (35DAP) *ROO2* – roots (28DAP), and *SEN* – senescing leaves (56DAP) (Colmsee et al., 2015)