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# For publication of results, please cite:
# A generic method for assignment of reliability scores applied to solvent
# accessibility predictions.
# Bent Petersen, Thomas Nordahl Petersen, Pernille Andersen, Morten Nielsen and
# Claus Lundegaard
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#
# Column 1: Class assignment - B for buried or E for Exposed - Threshold: 25%
# exposure, but not based on RSA
# Column 2: Amino acid
# Column 3: Sequence name
# Column 4: Amino acid number
# Column 5: Relative Surface Accessibility - RSA
# Column 6: Absolute Surface Accessibility
# Column 7: Z-fit score for RSA prediction
# Column 8: Probability for Alpha-Helix
# Column 9: Probability for Beta-strand
# Column 10: Probability for Coil
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E	M	sp_P17927_CR1_HUMAN	1	0.705	141.111	-1.391	0.003	0.003	0.994
E	G	sp_P17927_CR1_HUMAN	2	0.564	44.387	-1.327	0.020	0.205	0.775
B	A	sp_P17927_CR1_HUMAN	3	0.293	32.278	-2.486	0.021	0.279	0.699
E	S	sp_P17927_CR1_HUMAN	4	0.439	51.486	-1.747	0.020	0.205	0.775
B	S	sp_P17927_CR1_HUMAN	5	0.198	23.264	-0.941	0.052	0.084	0.864
E	P	sp_P17927_CR1_HUMAN	6	0.459	65.118	-0.811	0.018	0.047	0.935
E	R	sp_P17927_CR1_HUMAN	7	0.439	100.577	-0.897	0.018	0.019	0.964
E	S	sp_P17927_CR1_HUMAN	8	0.498	58.401	-1.087	0.018	0.019	0.964
E	P	sp_P17927_CR1_HUMAN	9	0.623	88.418	-1.426	0.018	0.019	0.964
E	E	sp_P17927_CR1_HUMAN	10	0.493	86.075	-1.332	0.005	0.015	0.979
B	P	sp_P17927_CR1_HUMAN	11	0.237	33.644	-2.496	0.005	0.045	0.951
E	V	sp_P17927_CR1_HUMAN	12	0.419	64.400	-1.149	0.004	0.085	0.910
E	G	sp_P17927_CR1_HUMAN	13	0.362	28.458	-1.379	0.005	0.045	0.951
B	P	sp_P17927_CR1_HUMAN	14	0.197	27.926	-0.165	0.005	0.015	0.979
B	P	sp_P17927_CR1_HUMAN	15	0.281	39.831	-2.404	0.005	0.015	0.979
E	A	sp_P17927_CR1_HUMAN	16	0.314	34.581	-1.753	0.003	0.003	0.994
E	P	sp_P17927_CR1_HUMAN	17	0.358	50.743	-1.649	0.003	0.003	0.994
E	G	sp_P17927_CR1_HUMAN	18	0.435	34.258	-1.641	0.005	0.015	0.979
B	L	sp_P17927_CR1_HUMAN	19	0.087	16.003	-1.357	0.018	0.019	0.964
B	P	sp_P17927_CR1_HUMAN	20	0.129	18.333	-0.881	0.018	0.047	0.935
B	F	sp_P17927_CR1_HUMAN	21	0.241	48.308	-1.023	0.052	0.084	0.864
B	C	sp_P17927_CR1_HUMAN	22	0.072	10.165	-1.284	0.113	0.087	0.800
B	C	sp_P17927_CR1_HUMAN	23	0.115	16.146	-1.621	0.113	0.043	0.844
B	G	sp_P17927_CR1_HUMAN	24	0.164	12.907	-2.985	0.257	0.016	0.727
B	G	sp_P17927_CR1_HUMAN	25	0.086	6.745	-2.174	0.246	0.004	0.750
B	S	sp_P17927_CR1_HUMAN	26	0.115	13.466	-1.251	0.430	0.016	0.555
B	L	sp_P17927_CR1_HUMAN	27	0.060	11.004	-0.712	0.455	0.046	0.498
B	L	sp_P17927_CR1_HUMAN	28	0.045	8.166	-0.081	0.455	0.046	0.498
B	A	sp_P17927_CR1_HUMAN	29	0.047	5.135	-0.892	0.455	0.046	0.498
B	V	sp_P17927_CR1_HUMAN	30	0.045	6.855	-1.653	0.455	0.046	0.498
B	V	sp_P17927_CR1_HUMAN	31	0.059	9.053	-0.142	0.278	0.093	0.628
B	V	sp_P17927_CR1_HUMAN	32	0.051	7.869	-0.816	0.199	0.152	0.649
B	L	sp_P17927_CR1_HUMAN	33	0.036	6.573	-1.536	0.113	0.087	0.800
B	L	sp_P17927_CR1_HUMAN	34	0.040	7.306	-1.590	0.113	0.043	0.844
B	A	sp_P17927_CR1_HUMAN	35	0.092	10.105	-0.147	0.058	0.017	0.925
B	L	sp_P17927_CR1_HUMAN	36	0.134	24.517	0.042	0.018	0.019	0.964

B P	sp_P17927_CR1_HUMAN	37	0.148	20.944	-1.804	0.005	0.015	0.979
B V	sp_P17927_CR1_HUMAN	38	0.340	52.319	-1.602	0.004	0.085	0.910
E A	sp_P17927_CR1_HUMAN	39	0.321	35.429	-0.762	0.004	0.085	0.910
E W	sp_P17927_CR1_HUMAN	40	0.559	134.536	-0.217	0.004	0.085	0.910
E G	sp_P17927_CR1_HUMAN	41	0.546	42.947	-0.187	0.004	0.085	0.910
E Q	sp_P17927_CR1_HUMAN	42	0.630	112.572	1.063	0.004	0.138	0.858
B C	sp_P17927_CR1_HUMAN	43	0.037	5.125	-1.950	0.005	0.045	0.951
E N	sp_P17927_CR1_HUMAN	44	0.685	100.284	0.649	0.005	0.015	0.979
E A	sp_P17927_CR1_HUMAN	45	0.621	68.379	1.105	0.005	0.015	0.979
B P	sp_P17927_CR1_HUMAN	46	0.092	13.041	-0.751	0.003	0.003	0.994
E E	sp_P17927_CR1_HUMAN	47	0.670	117.101	-1.667	0.003	0.003	0.994
E W	sp_P17927_CR1_HUMAN	48	0.521	125.204	-0.071	0.018	0.019	0.964
B L	sp_P17927_CR1_HUMAN	49	0.140	25.579	-0.680	0.005	0.015	0.979
E P	sp_P17927_CR1_HUMAN	50	0.722	102.480	-1.287	0.005	0.045	0.951
E F	sp_P17927_CR1_HUMAN	51	0.510	102.317	-1.746	0.004	0.085	0.910
B A	sp_P17927_CR1_HUMAN	52	0.090	9.874	-3.587	0.005	0.336	0.660
E R	sp_P17927_CR1_HUMAN	53	0.411	94.188	-0.351	0.002	0.816	0.182
B P	sp_P17927_CR1_HUMAN	54	0.105	14.871	-1.512	0.001	0.900	0.099
E T	sp_P17927_CR1_HUMAN	55	0.303	42.040	-1.230	0.002	0.816	0.182
B N	sp_P17927_CR1_HUMAN	56	0.239	35.063	-2.577	0.023	0.655	0.322
E L	sp_P17927_CR1_HUMAN	57	0.328	60.093	-1.829	0.021	0.451	0.528
E T	sp_P17927_CR1_HUMAN	58	0.372	51.541	-1.469	0.004	0.197	0.799
E D	sp_P17927_CR1_HUMAN	59	0.496	71.502	-1.781	0.018	0.047	0.935
E E	sp_P17927_CR1_HUMAN	60	0.676	118.080	-1.885	0.018	0.019	0.964
E F	sp_P17927_CR1_HUMAN	61	0.518	103.963	-1.798	0.018	0.088	0.893
E E	sp_P17927_CR1_HUMAN	62	0.530	92.661	-1.018	0.004	0.138	0.858
B F	sp_P17927_CR1_HUMAN	63	0.113	22.779	0.451	0.004	0.197	0.799
E P	sp_P17927_CR1_HUMAN	64	0.542	76.967	-0.035	0.005	0.262	0.733
E I	sp_P17927_CR1_HUMAN	65	0.407	75.295	-0.461	0.004	0.197	0.799
E G	sp_P17927_CR1_HUMAN	66	0.554	43.616	-1.558	0.005	0.045	0.951
E T	sp_P17927_CR1_HUMAN	67	0.281	38.933	-0.402	0.005	0.262	0.733
E Y	sp_P17927_CR1_HUMAN	68	0.391	83.535	1.463	0.001	0.900	0.099
B L	sp_P17927_CR1_HUMAN	69	0.037	6.738	0.394	0.001	0.959	0.040
E N	sp_P17927_CR1_HUMAN	70	0.355	51.899	1.537	0.001	0.959	0.040
B Y	sp_P17927_CR1_HUMAN	71	0.054	11.583	0.447	0.001	0.959	0.040
E E	sp_P17927_CR1_HUMAN	72	0.439	76.658	1.280	0.001	0.959	0.040
B C	sp_P17927_CR1_HUMAN	73	0.023	3.257	0.703	0.004	0.616	0.381
E R	sp_P17927_CR1_HUMAN	74	0.487	111.569	1.176	0.004	0.138	0.858
E P	sp_P17927_CR1_HUMAN	75	0.681	96.676	0.253	0.005	0.045	0.951
E G	sp_P17927_CR1_HUMAN	76	0.414	32.558	-1.717	0.018	0.047	0.935
B Y	sp_P17927_CR1_HUMAN	77	0.117	25.067	-0.188	0.004	0.197	0.799
E S	sp_P17927_CR1_HUMAN	78	0.483	56.596	-0.150	0.004	0.616	0.381
B G	sp_P17927_CR1_HUMAN	79	0.262	20.627	-0.832	0.004	0.616	0.381
E R	sp_P17927_CR1_HUMAN	80	0.498	113.927	-0.436	0.004	0.197	0.799
E P	sp_P17927_CR1_HUMAN	81	0.645	91.469	-2.415	0.005	0.045	0.951
E F	sp_P17927_CR1_HUMAN	82	0.500	100.410	-1.361	0.005	0.262	0.733
E S	sp_P17927_CR1_HUMAN	83	0.443	51.920	0.306	0.003	0.718	0.279
B I	sp_P17927_CR1_HUMAN	84	0.210	38.850	0.812	0.001	0.900	0.099
E I	sp_P17927_CR1_HUMAN	85	0.291	53.817	1.327	0.006	0.962	0.032
B C	sp_P17927_CR1_HUMAN	86	0.029	4.114	-0.191	0.011	0.918	0.071
B L	sp_P17927_CR1_HUMAN	87	0.203	37.206	0.414	0.003	0.718	0.279
E K	sp_P17927_CR1_HUMAN	88	0.612	125.827	-0.742	0.004	0.197	0.799
E N	sp_P17927_CR1_HUMAN	89	0.619	90.622	-1.187	0.018	0.019	0.964
E S	sp_P17927_CR1_HUMAN	90	0.339	39.731	-1.403	0.018	0.019	0.964
E V	sp_P17927_CR1_HUMAN	91	0.553	84.950	-0.441	0.005	0.336	0.660
B W	sp_P17927_CR1_HUMAN	92	0.180	43.290	-1.092	0.022	0.552	0.426
E T	sp_P17927_CR1_HUMAN	93	0.528	73.247	-1.137	0.021	0.279	0.699
E G	sp_P17927_CR1_HUMAN	94	0.540	42.467	-1.746	0.005	0.045	0.951
E A	sp_P17927_CR1_HUMAN	95	0.595	65.525	-1.365	0.005	0.045	0.951
E K	sp_P17927_CR1_HUMAN	96	0.532	109.371	-0.270	0.005	0.015	0.979
B D	sp_P17927_CR1_HUMAN	97	0.232	33.417	-0.776	0.004	0.085	0.910

E R	sp_P17927_CR1_HUMAN	98	0.473	108.317	1.125	0.005	0.336	0.660
B C	sp_P17927_CR1_HUMAN	99	0.052	7.371	-1.543	0.003	0.718	0.279
E R	sp_P17927_CR1_HUMAN	100	0.488	111.638	0.950	0.002	0.816	0.182
E R	sp_P17927_CR1_HUMAN	101	0.551	126.271	0.412	0.021	0.756	0.223
E K	sp_P17927_CR1_HUMAN	102	0.349	71.830	1.382	0.023	0.655	0.322
E S	sp_P17927_CR1_HUMAN	103	0.617	72.301	0.370	0.004	0.514	0.481
B C	sp_P17927_CR1_HUMAN	104	0.060	8.396	-1.806	0.004	0.085	0.910
E R	sp_P17927_CR1_HUMAN	105	0.646	147.888	-0.748	0.005	0.015	0.979
E N	sp_P17927_CR1_HUMAN	106	0.541	79.276	-0.309	0.016	0.005	0.979
B P	sp_P17927_CR1_HUMAN	107	0.219	31.133	-0.978	0.016	0.005	0.979
E P	sp_P17927_CR1_HUMAN	108	0.645	91.596	-2.225	0.016	0.005	0.979
E D	sp_P17927_CR1_HUMAN	109	0.378	54.527	-0.265	0.005	0.015	0.979
B P	sp_P17927_CR1_HUMAN	110	0.127	18.007	-0.911	0.005	0.015	0.979
E V	sp_P17927_CR1_HUMAN	111	0.673	103.440	-1.301	0.005	0.015	0.979
E N	sp_P17927_CR1_HUMAN	112	0.447	65.412	-1.677	0.005	0.045	0.951
B G	sp_P17927_CR1_HUMAN	113	0.093	7.327	-4.858	0.004	0.197	0.799
E M	sp_P17927_CR1_HUMAN	114	0.377	75.498	-0.811	0.002	0.816	0.182
B V	sp_P17927_CR1_HUMAN	115	0.118	18.090	-0.815	0.001	0.900	0.099
E H	sp_P17927_CR1_HUMAN	116	0.391	71.196	-0.682	0.002	0.816	0.182
B V	sp_P17927_CR1_HUMAN	117	0.258	39.731	-1.036	0.022	0.552	0.426
E I	sp_P17927_CR1_HUMAN	118	0.397	73.389	-1.920	0.019	0.141	0.840
E K	sp_P17927_CR1_HUMAN	119	0.682	140.287	-2.181	0.018	0.047	0.935
E G	sp_P17927_CR1_HUMAN	120	0.601	47.322	-1.624	0.005	0.045	0.951
B I	sp_P17927_CR1_HUMAN	121	0.193	35.686	-0.012	0.004	0.138	0.858
E Q	sp_P17927_CR1_HUMAN	122	0.527	94.051	-0.338	0.005	0.262	0.733
E F	sp_P17927_CR1_HUMAN	123	0.282	56.638	-0.452	0.005	0.262	0.733
E G	sp_P17927_CR1_HUMAN	124	0.511	40.239	-1.561	0.004	0.085	0.910
E S	sp_P17927_CR1_HUMAN	125	0.324	37.961	-1.188	0.005	0.262	0.733
E Q	sp_P17927_CR1_HUMAN	126	0.446	79.709	0.878	0.001	0.900	0.099
B I	sp_P17927_CR1_HUMAN	127	0.044	8.122	0.288	0.001	0.959	0.040
E K	sp_P17927_CR1_HUMAN	128	0.407	83.761	1.160	0.006	0.962	0.032
B Y	sp_P17927_CR1_HUMAN	129	0.071	15.215	0.465	0.001	0.900	0.099
E S	sp_P17927_CR1_HUMAN	130	0.434	50.912	1.111	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	131	0.026	3.594	0.237	0.005	0.336	0.660
E T	sp_P17927_CR1_HUMAN	132	0.537	74.482	0.965	0.004	0.085	0.910
E K	sp_P17927_CR1_HUMAN	133	0.711	146.232	0.350	0.018	0.019	0.964
E G	sp_P17927_CR1_HUMAN	134	0.394	31.039	-1.160	0.018	0.047	0.935
B Y	sp_P17927_CR1_HUMAN	135	0.094	20.002	0.269	0.004	0.420	0.576
E R	sp_P17927_CR1_HUMAN	136	0.459	105.203	-0.065	0.002	0.816	0.182
B L	sp_P17927_CR1_HUMAN	137	0.143	26.257	-0.739	0.003	0.718	0.279
E I	sp_P17927_CR1_HUMAN	138	0.493	91.205	-0.614	0.005	0.336	0.660
E G	sp_P17927_CR1_HUMAN	139	0.543	42.710	-2.187	0.004	0.085	0.910
E S	sp_P17927_CR1_HUMAN	140	0.691	81.032	-1.117	0.005	0.045	0.951
E S	sp_P17927_CR1_HUMAN	141	0.600	70.285	-1.095	0.004	0.197	0.799
E S	sp_P17927_CR1_HUMAN	142	0.394	46.224	0.052	0.004	0.616	0.381
B A	sp_P17927_CR1_HUMAN	143	0.164	18.062	0.137	0.003	0.718	0.279
E T	sp_P17927_CR1_HUMAN	144	0.321	44.537	0.566	0.018	0.846	0.136
B C	sp_P17927_CR1_HUMAN	145	0.038	5.321	-1.788	0.018	0.846	0.136
E I	sp_P17927_CR1_HUMAN	146	0.290	53.631	-0.074	0.021	0.756	0.223
E I	sp_P17927_CR1_HUMAN	147	0.331	61.216	-1.491	0.022	0.552	0.426
E S	sp_P17927_CR1_HUMAN	148	0.344	40.317	-1.229	0.020	0.205	0.775
E G	sp_P17927_CR1_HUMAN	149	0.513	40.357	-2.212	0.018	0.019	0.964
E D	sp_P17927_CR1_HUMAN	150	0.656	94.573	-1.694	0.018	0.019	0.964
E T	sp_P17927_CR1_HUMAN	151	0.537	74.524	-1.262	0.018	0.088	0.893
E V	sp_P17927_CR1_HUMAN	152	0.272	41.791	-1.808	0.019	0.141	0.840
E I	sp_P17927_CR1_HUMAN	153	0.424	78.477	-1.440	0.022	0.359	0.619
B W	sp_P17927_CR1_HUMAN	154	0.269	64.791	-1.691	0.022	0.359	0.619
E D	sp_P17927_CR1_HUMAN	155	0.403	58.000	-1.627	0.004	0.138	0.858
E N	sp_P17927_CR1_HUMAN	156	0.581	85.000	-2.605	0.005	0.015	0.979
E E	sp_P17927_CR1_HUMAN	157	0.621	108.471	-1.631	0.005	0.015	0.979
E T	sp_P17927_CR1_HUMAN	158	0.425	59.003	-1.104	0.018	0.019	0.964

E P	sp_P17927_CR1_HUMAN	159	0.402	57.015	-1.586	0.018	0.047	0.935
E I	sp_P17927_CR1_HUMAN	160	0.484	89.448	-0.345	0.020	0.205	0.775
B C	sp_P17927_CR1_HUMAN	161	0.164	23.012	-1.853	0.022	0.359	0.619
E D	sp_P17927_CR1_HUMAN	162	0.589	84.889	-0.661	0.022	0.359	0.619
E R	sp_P17927_CR1_HUMAN	163	0.484	110.905	-0.924	0.021	0.279	0.699
E I	sp_P17927_CR1_HUMAN	164	0.332	61.475	-0.973	0.020	0.205	0.775
E P	sp_P17927_CR1_HUMAN	165	0.642	91.100	-1.008	0.021	0.279	0.699
B C	sp_P17927_CR1_HUMAN	166	0.214	30.102	-1.488	0.019	0.141	0.840
E G	sp_P17927_CR1_HUMAN	167	0.577	45.441	-2.401	0.018	0.088	0.893
E L	sp_P17927_CR1_HUMAN	168	0.491	89.939	-1.473	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	169	0.302	42.825	-1.467	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	170	0.474	67.246	-1.989	0.018	0.088	0.893
E T	sp_P17927_CR1_HUMAN	171	0.443	61.513	-0.709	0.018	0.088	0.893
B I	sp_P17927_CR1_HUMAN	172	0.108	20.017	-1.628	0.005	0.045	0.951
E T	sp_P17927_CR1_HUMAN	173	0.735	101.903	-1.189	0.005	0.045	0.951
E N	sp_P17927_CR1_HUMAN	174	0.577	84.531	-1.944	0.005	0.045	0.951
B G	sp_P17927_CR1_HUMAN	175	0.209	16.409	-2.626	0.004	0.085	0.910
E D	sp_P17927_CR1_HUMAN	176	0.464	66.805	-0.691	0.005	0.336	0.660
B F	sp_P17927_CR1_HUMAN	177	0.157	31.490	-0.420	0.002	0.816	0.182
E I	sp_P17927_CR1_HUMAN	178	0.256	47.304	-1.397	0.018	0.846	0.136
B S	sp_P17927_CR1_HUMAN	179	0.167	19.596	-2.569	0.022	0.552	0.426
E T	sp_P17927_CR1_HUMAN	180	0.388	53.788	-2.143	0.020	0.205	0.775
E N	sp_P17927_CR1_HUMAN	181	0.561	82.189	-1.884	0.005	0.045	0.951
E R	sp_P17927_CR1_HUMAN	182	0.499	114.202	-1.027	0.018	0.019	0.964
E E	sp_P17927_CR1_HUMAN	183	0.689	120.316	-2.301	0.018	0.019	0.964
E N	sp_P17927_CR1_HUMAN	184	0.626	91.573	-1.116	0.005	0.045	0.951
B F	sp_P17927_CR1_HUMAN	185	0.110	22.057	-0.691	0.004	0.085	0.910
E H	sp_P17927_CR1_HUMAN	186	0.531	96.516	0.185	0.004	0.138	0.858
B Y	sp_P17927_CR1_HUMAN	187	0.262	55.989	-0.834	0.004	0.197	0.799
E G	sp_P17927_CR1_HUMAN	188	0.510	40.161	-1.312	0.004	0.085	0.910
B S	sp_P17927_CR1_HUMAN	189	0.278	32.582	-1.203	0.005	0.262	0.733
E V	sp_P17927_CR1_HUMAN	190	0.360	55.332	0.494	0.002	0.816	0.182
B V	sp_P17927_CR1_HUMAN	191	0.047	7.301	0.556	0.001	0.900	0.099
E T	sp_P17927_CR1_HUMAN	192	0.316	43.829	1.061	0.001	0.900	0.099
B Y	sp_P17927_CR1_HUMAN	193	0.083	17.780	0.201	0.001	0.959	0.040
E R	sp_P17927_CR1_HUMAN	194	0.389	88.989	0.305	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	195	0.031	4.366	-0.594	0.023	0.655	0.322
E N	sp_P17927_CR1_HUMAN	196	0.480	70.272	-0.170	0.022	0.359	0.619
E P	sp_P17927_CR1_HUMAN	197	0.575	81.578	-1.806	0.018	0.088	0.893
E G	sp_P17927_CR1_HUMAN	198	0.441	34.691	-2.103	0.018	0.019	0.964
E S	sp_P17927_CR1_HUMAN	199	0.395	46.294	-1.783	0.018	0.088	0.893
E G	sp_P17927_CR1_HUMAN	200	0.565	44.450	-1.695	0.020	0.205	0.775
E G	sp_P17927_CR1_HUMAN	201	0.381	29.993	-1.849	0.019	0.141	0.840
E R	sp_P17927_CR1_HUMAN	202	0.519	118.943	-1.889	0.019	0.141	0.840
E K	sp_P17927_CR1_HUMAN	203	0.553	113.773	-1.739	0.004	0.138	0.858
E V	sp_P17927_CR1_HUMAN	204	0.453	69.580	-1.567	0.004	0.197	0.799
B F	sp_P17927_CR1_HUMAN	205	0.260	52.262	-1.291	0.022	0.359	0.619
E E	sp_P17927_CR1_HUMAN	206	0.341	59.573	-1.630	0.022	0.359	0.619
B L	sp_P17927_CR1_HUMAN	207	0.227	41.582	-1.647	0.022	0.359	0.619
E V	sp_P17927_CR1_HUMAN	208	0.474	72.915	-1.693	0.022	0.359	0.619
E G	sp_P17927_CR1_HUMAN	209	0.399	31.425	-2.014	0.018	0.088	0.893
E E	sp_P17927_CR1_HUMAN	210	0.624	109.100	-1.551	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	211	0.593	84.175	-1.443	0.019	0.141	0.840
E S	sp_P17927_CR1_HUMAN	212	0.465	54.545	-0.289	0.004	0.420	0.576
B I	sp_P17927_CR1_HUMAN	213	0.170	31.358	-0.573	0.004	0.616	0.381
E Y	sp_P17927_CR1_HUMAN	214	0.403	86.036	0.410	0.021	0.756	0.223
B C	sp_P17927_CR1_HUMAN	215	0.073	10.249	-1.402	0.021	0.756	0.223
E T	sp_P17927_CR1_HUMAN	216	0.356	49.308	-0.512	0.021	0.756	0.223
B S	sp_P17927_CR1_HUMAN	217	0.244	28.632	-2.377	0.021	0.451	0.528
E N	sp_P17927_CR1_HUMAN	218	0.528	77.328	-1.190	0.020	0.205	0.775
E D	sp_P17927_CR1_HUMAN	219	0.387	55.781	-1.994	0.018	0.088	0.893

E D	sp_P17927_CR1_HUMAN	220	0.566	81.633	-1.525	0.018	0.088	0.893
E Q	sp_P17927_CR1_HUMAN	221	0.608	108.535	-1.939	0.019	0.141	0.840
E V	sp_P17927_CR1_HUMAN	222	0.465	71.440	-0.935	0.019	0.141	0.840
E G	sp_P17927_CR1_HUMAN	223	0.280	22.028	-1.745	0.019	0.141	0.840
E I	sp_P17927_CR1_HUMAN	224	0.468	86.673	-0.898	0.022	0.359	0.619
B W	sp_P17927_CR1_HUMAN	225	0.174	41.751	-2.737	0.022	0.359	0.619
E S	sp_P17927_CR1_HUMAN	226	0.398	46.634	-1.464	0.019	0.141	0.840
E G	sp_P17927_CR1_HUMAN	227	0.465	36.603	-2.407	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	228	0.616	87.439	-2.102	0.018	0.047	0.935
E A	sp_P17927_CR1_HUMAN	229	0.511	56.290	-1.795	0.004	0.085	0.910
E P	sp_P17927_CR1_HUMAN	230	0.396	56.192	-1.658	0.004	0.085	0.910
E Q	sp_P17927_CR1_HUMAN	231	0.422	75.441	-0.918	0.004	0.197	0.799
E C	sp_P17927_CR1_HUMAN	232	0.279	39.115	-1.415	0.004	0.420	0.576
E I	sp_P17927_CR1_HUMAN	233	0.490	90.595	-0.832	0.022	0.552	0.426
E I	sp_P17927_CR1_HUMAN	234	0.435	80.401	-1.268	0.022	0.359	0.619
E P	sp_P17927_CR1_HUMAN	235	0.303	42.982	-1.029	0.021	0.279	0.699
E N	sp_P17927_CR1_HUMAN	236	0.620	90.812	-1.393	0.021	0.279	0.699
B K	sp_P17927_CR1_HUMAN	237	0.210	43.135	-1.307	0.020	0.205	0.775
E C	sp_P17927_CR1_HUMAN	238	0.500	70.200	-2.022	0.019	0.141	0.840
E T	sp_P17927_CR1_HUMAN	239	0.553	76.757	-1.366	0.018	0.088	0.893
E P	sp_P17927_CR1_HUMAN	240	0.302	42.911	-1.319	0.005	0.045	0.951
E P	sp_P17927_CR1_HUMAN	241	0.512	72.681	-2.565	0.005	0.015	0.979
E N	sp_P17927_CR1_HUMAN	242	0.501	73.390	-1.035	0.005	0.045	0.951
B V	sp_P17927_CR1_HUMAN	243	0.103	15.908	-1.554	0.005	0.015	0.979
E E	sp_P17927_CR1_HUMAN	244	0.723	126.256	-1.221	0.005	0.015	0.979
E N	sp_P17927_CR1_HUMAN	245	0.548	80.242	-1.936	0.005	0.015	0.979
B G	sp_P17927_CR1_HUMAN	246	0.204	16.071	-2.694	0.004	0.085	0.910
E I	sp_P17927_CR1_HUMAN	247	0.416	76.868	-0.958	0.004	0.514	0.481
B L	sp_P17927_CR1_HUMAN	248	0.179	32.738	-0.739	0.002	0.816	0.182
B V	sp_P17927_CR1_HUMAN	249	0.222	34.106	-1.288	0.002	0.816	0.182
B S	sp_P17927_CR1_HUMAN	250	0.237	27.741	-1.812	0.022	0.552	0.426
E D	sp_P17927_CR1_HUMAN	251	0.519	74.802	-1.656	0.020	0.205	0.775
E N	sp_P17927_CR1_HUMAN	252	0.587	85.893	-1.941	0.018	0.088	0.893
E R	sp_P17927_CR1_HUMAN	253	0.612	140.148	-1.248	0.018	0.047	0.935
E S	sp_P17927_CR1_HUMAN	254	0.584	68.433	-2.010	0.019	0.141	0.840
E L	sp_P17927_CR1_HUMAN	255	0.499	91.404	-0.976	0.005	0.336	0.660
B F	sp_P17927_CR1_HUMAN	256	0.120	24.064	-0.756	0.005	0.336	0.660
E S	sp_P17927_CR1_HUMAN	257	0.471	55.201	-0.488	0.005	0.336	0.660
E L	sp_P17927_CR1_HUMAN	258	0.379	69.395	-0.965	0.005	0.262	0.733
E N	sp_P17927_CR1_HUMAN	259	0.575	84.136	-1.494	0.004	0.085	0.910
E E	sp_P17927_CR1_HUMAN	260	0.336	58.682	-1.127	0.004	0.197	0.799
E V	sp_P17927_CR1_HUMAN	261	0.483	74.283	0.921	0.002	0.816	0.182
B V	sp_P17927_CR1_HUMAN	262	0.060	9.222	0.444	0.001	0.900	0.099
E E	sp_P17927_CR1_HUMAN	263	0.423	73.846	1.184	0.011	0.918	0.071
B F	sp_P17927_CR1_HUMAN	264	0.065	13.106	0.186	0.011	0.918	0.071
E R	sp_P17927_CR1_HUMAN	265	0.482	110.470	1.051	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	266	0.029	4.086	-0.093	0.004	0.514	0.481
E Q	sp_P17927_CR1_HUMAN	267	0.555	99.069	0.712	0.004	0.085	0.910
E P	sp_P17927_CR1_HUMAN	268	0.723	102.665	-0.021	0.005	0.045	0.951
E G	sp_P17927_CR1_HUMAN	269	0.430	33.849	-1.365	0.018	0.047	0.935
B F	sp_P17927_CR1_HUMAN	270	0.123	24.586	-0.002	0.022	0.359	0.619
E V	sp_P17927_CR1_HUMAN	271	0.471	72.408	-0.203	0.003	0.718	0.279
B M	sp_P17927_CR1_HUMAN	272	0.172	34.317	-0.758	0.023	0.655	0.322
E K	sp_P17927_CR1_HUMAN	273	0.532	109.350	0.029	0.005	0.262	0.733
E G	sp_P17927_CR1_HUMAN	274	0.570	44.875	-2.245	0.004	0.085	0.910
E P	sp_P17927_CR1_HUMAN	275	0.623	88.361	-1.238	0.005	0.015	0.979
E R	sp_P17927_CR1_HUMAN	276	0.578	132.408	-0.594	0.004	0.197	0.799
E R	sp_P17927_CR1_HUMAN	277	0.357	81.776	0.562	0.003	0.718	0.279
B V	sp_P17927_CR1_HUMAN	278	0.117	17.952	0.031	0.018	0.846	0.136
E K	sp_P17927_CR1_HUMAN	279	0.376	77.425	1.415	0.011	0.918	0.071
B C	sp_P17927_CR1_HUMAN	280	0.025	3.496	-0.277	0.018	0.846	0.136

E Q	sp_P17927_CR1_HUMAN	281	0.300	53.651	-0.143	0.022	0.552	0.426
E A	sp_P17927_CR1_HUMAN	282	0.626	68.985	-2.086	0.004	0.197	0.799
E L	sp_P17927_CR1_HUMAN	283	0.611	111.874	-1.386	0.018	0.019	0.964
E N	sp_P17927_CR1_HUMAN	284	0.309	45.296	-1.377	0.018	0.019	0.964
E K	sp_P17927_CR1_HUMAN	285	0.581	119.553	-0.621	0.021	0.279	0.699
B W	sp_P17927_CR1_HUMAN	286	0.163	39.153	-1.552	0.022	0.359	0.619
E E	sp_P17927_CR1_HUMAN	287	0.493	86.145	-1.085	0.019	0.141	0.840
E P	sp_P17927_CR1_HUMAN	288	0.548	77.790	-1.774	0.004	0.085	0.910
E E	sp_P17927_CR1_HUMAN	289	0.605	105.746	-0.785	0.005	0.045	0.951
E L	sp_P17927_CR1_HUMAN	290	0.454	83.036	0.033	0.005	0.045	0.951
E P	sp_P17927_CR1_HUMAN	291	0.275	39.037	-0.281	0.004	0.138	0.858
E S	sp_P17927_CR1_HUMAN	292	0.479	56.080	0.618	0.004	0.420	0.576
B C	sp_P17927_CR1_HUMAN	293	0.085	11.878	-2.082	0.023	0.655	0.322
E S	sp_P17927_CR1_HUMAN	294	0.574	67.226	0.066	0.022	0.552	0.426
E R	sp_P17927_CR1_HUMAN	295	0.565	129.362	-0.692	0.021	0.279	0.699
E V	sp_P17927_CR1_HUMAN	296	0.418	64.308	-1.001	0.020	0.205	0.775
E C	sp_P17927_CR1_HUMAN	297	0.329	46.135	-1.440	0.021	0.279	0.699
E Q	sp_P17927_CR1_HUMAN	298	0.407	72.601	-1.229	0.019	0.141	0.840
E P	sp_P17927_CR1_HUMAN	299	0.600	85.197	-1.330	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	300	0.288	40.810	-1.348	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	301	0.535	75.902	-2.645	0.018	0.019	0.964
E D	sp_P17927_CR1_HUMAN	302	0.596	85.941	-2.278	0.018	0.019	0.964
B V	sp_P17927_CR1_HUMAN	303	0.213	32.692	-1.504	0.018	0.019	0.964
E L	sp_P17927_CR1_HUMAN	304	0.483	88.456	-2.241	0.005	0.045	0.951
E H	sp_P17927_CR1_HUMAN	305	0.526	95.661	-2.377	0.004	0.085	0.910
E A	sp_P17927_CR1_HUMAN	306	0.358	39.496	-2.506	0.004	0.138	0.858
E E	sp_P17927_CR1_HUMAN	307	0.382	66.770	-1.843	0.005	0.336	0.660
B R	sp_P17927_CR1_HUMAN	308	0.263	60.135	-1.268	0.003	0.718	0.279
E T	sp_P17927_CR1_HUMAN	309	0.304	42.165	-2.214	0.023	0.655	0.322
B Q	sp_P17927_CR1_HUMAN	310	0.253	45.168	-2.362	0.022	0.359	0.619
E R	sp_P17927_CR1_HUMAN	311	0.403	92.287	-1.875	0.004	0.138	0.858
E D	sp_P17927_CR1_HUMAN	312	0.518	74.615	-1.965	0.018	0.088	0.893
E K	sp_P17927_CR1_HUMAN	313	0.567	116.591	-1.530	0.018	0.047	0.935
E D	sp_P17927_CR1_HUMAN	314	0.517	74.485	-2.282	0.019	0.141	0.840
E N	sp_P17927_CR1_HUMAN	315	0.452	66.144	-1.481	0.004	0.197	0.799
B F	sp_P17927_CR1_HUMAN	316	0.095	18.986	-0.832	0.004	0.197	0.799
E S	sp_P17927_CR1_HUMAN	317	0.459	53.783	-0.367	0.004	0.138	0.858
E P	sp_P17927_CR1_HUMAN	318	0.382	54.263	-1.038	0.004	0.085	0.910
E G	sp_P17927_CR1_HUMAN	319	0.587	46.236	-1.982	0.005	0.015	0.979
E Q	sp_P17927_CR1_HUMAN	320	0.334	59.706	-1.351	0.004	0.138	0.858
E E	sp_P17927_CR1_HUMAN	321	0.478	83.454	1.273	0.002	0.816	0.182
B V	sp_P17927_CR1_HUMAN	322	0.054	8.254	0.866	0.001	0.959	0.040
E F	sp_P17927_CR1_HUMAN	323	0.355	71.329	1.319	0.011	0.918	0.071
B Y	sp_P17927_CR1_HUMAN	324	0.066	14.040	-0.233	0.011	0.918	0.071
E S	sp_P17927_CR1_HUMAN	325	0.447	52.377	0.888	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	326	0.024	3.412	0.363	0.004	0.514	0.481
E E	sp_P17927_CR1_HUMAN	327	0.502	87.682	1.020	0.004	0.138	0.858
E P	sp_P17927_CR1_HUMAN	328	0.674	95.697	-0.396	0.005	0.015	0.979
E G	sp_P17927_CR1_HUMAN	329	0.548	43.088	-1.132	0.018	0.019	0.964
B Y	sp_P17927_CR1_HUMAN	330	0.134	28.550	0.088	0.004	0.197	0.799
E D	sp_P17927_CR1_HUMAN	331	0.534	76.949	0.044	0.004	0.616	0.381
B L	sp_P17927_CR1_HUMAN	332	0.228	41.674	-0.698	0.023	0.655	0.322
E R	sp_P17927_CR1_HUMAN	333	0.531	121.576	-0.522	0.005	0.336	0.660
E G	sp_P17927_CR1_HUMAN	334	0.569	44.772	-2.097	0.004	0.085	0.910
E A	sp_P17927_CR1_HUMAN	335	0.541	59.640	-1.543	0.005	0.045	0.951
E A	sp_P17927_CR1_HUMAN	336	0.536	59.111	-1.013	0.005	0.262	0.733
E S	sp_P17927_CR1_HUMAN	337	0.492	57.686	0.198	0.003	0.718	0.279
B M	sp_P17927_CR1_HUMAN	338	0.170	34.117	0.452	0.021	0.756	0.223
E R	sp_P17927_CR1_HUMAN	339	0.388	88.829	0.751	0.018	0.846	0.136
B C	sp_P17927_CR1_HUMAN	340	0.050	7.062	-0.361	0.021	0.756	0.223
E T	sp_P17927_CR1_HUMAN	341	0.308	42.692	-0.044	0.022	0.552	0.426

E P	sp_P17927_CR1_HUMAN	342	0.583	82.784	-1.695	0.020	0.205	0.775
E Q	sp_P17927_CR1_HUMAN	343	0.626	111.750	-1.808	0.018	0.047	0.935
E G	sp_P17927_CR1_HUMAN	344	0.326	25.688	-1.686	0.018	0.088	0.893
E D	sp_P17927_CR1_HUMAN	345	0.606	87.353	-0.650	0.022	0.552	0.426
B W	sp_P17927_CR1_HUMAN	346	0.172	41.462	-1.552	0.022	0.552	0.426
E S	sp_P17927_CR1_HUMAN	347	0.446	52.224	-1.558	0.021	0.279	0.699
E P	sp_P17927_CR1_HUMAN	348	0.492	69.829	-2.223	0.018	0.088	0.893
E A	sp_P17927_CR1_HUMAN	349	0.574	63.277	-1.764	0.018	0.047	0.935
E A	sp_P17927_CR1_HUMAN	350	0.433	47.750	-0.998	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	351	0.520	73.788	-1.322	0.018	0.047	0.935
E T	sp_P17927_CR1_HUMAN	352	0.394	54.592	-0.543	0.020	0.205	0.775
B C	sp_P17927_CR1_HUMAN	353	0.170	23.798	-1.754	0.022	0.359	0.619
E E	sp_P17927_CR1_HUMAN	354	0.483	84.398	-0.754	0.022	0.359	0.619
E V	sp_P17927_CR1_HUMAN	355	0.577	88.746	-0.809	0.021	0.279	0.699
E K	sp_P17927_CR1_HUMAN	356	0.291	59.900	-0.530	0.021	0.279	0.699
E S	sp_P17927_CR1_HUMAN	357	0.595	69.699	-1.314	0.022	0.359	0.619
B C	sp_P17927_CR1_HUMAN	358	0.199	27.912	-1.227	0.020	0.205	0.775
E D	sp_P17927_CR1_HUMAN	359	0.478	68.851	-2.005	0.018	0.088	0.893
E D	sp_P17927_CR1_HUMAN	360	0.561	80.811	-1.992	0.018	0.047	0.935
E F	sp_P17927_CR1_HUMAN	361	0.319	64.003	-1.646	0.018	0.047	0.935
E M	sp_P17927_CR1_HUMAN	362	0.557	111.456	-2.036	0.018	0.019	0.964
E G	sp_P17927_CR1_HUMAN	363	0.532	41.900	-2.498	0.018	0.019	0.964
E Q	sp_P17927_CR1_HUMAN	364	0.542	96.765	-2.201	0.018	0.019	0.964
E L	sp_P17927_CR1_HUMAN	365	0.429	78.550	-1.837	0.018	0.047	0.935
E L	sp_P17927_CR1_HUMAN	366	0.518	94.901	-1.911	0.005	0.045	0.951
E N	sp_P17927_CR1_HUMAN	367	0.399	58.370	-2.339	0.004	0.085	0.910
E G	sp_P17927_CR1_HUMAN	368	0.327	25.703	-2.376	0.005	0.262	0.733
E R	sp_P17927_CR1_HUMAN	369	0.299	68.357	-1.920	0.004	0.616	0.381
B V	sp_P17927_CR1_HUMAN	370	0.240	36.888	-1.827	0.003	0.718	0.279
E L	sp_P17927_CR1_HUMAN	371	0.398	72.819	-1.461	0.023	0.655	0.322
B F	sp_P17927_CR1_HUMAN	372	0.317	63.522	-1.358	0.021	0.279	0.699
E P	sp_P17927_CR1_HUMAN	373	0.622	88.304	-1.628	0.018	0.088	0.893
E V	sp_P17927_CR1_HUMAN	374	0.559	85.888	-1.631	0.018	0.088	0.893
E N	sp_P17927_CR1_HUMAN	375	0.569	83.243	-0.927	0.004	0.197	0.799
B L	sp_P17927_CR1_HUMAN	376	0.163	29.790	-0.371	0.005	0.336	0.660
E Q	sp_P17927_CR1_HUMAN	377	0.505	90.139	-0.148	0.004	0.420	0.576
E L	sp_P17927_CR1_HUMAN	378	0.270	49.510	-0.455	0.005	0.336	0.660
E G	sp_P17927_CR1_HUMAN	379	0.602	47.401	-1.618	0.004	0.085	0.910
E A	sp_P17927_CR1_HUMAN	380	0.355	39.110	-1.039	0.004	0.197	0.799
E K	sp_P17927_CR1_HUMAN	381	0.459	94.499	1.015	0.002	0.816	0.182
B V	sp_P17927_CR1_HUMAN	382	0.068	10.498	0.202	0.001	0.959	0.040
E D	sp_P17927_CR1_HUMAN	383	0.313	45.147	0.856	0.011	0.918	0.071
B F	sp_P17927_CR1_HUMAN	384	0.072	14.491	-0.692	0.011	0.918	0.071
E V	sp_P17927_CR1_HUMAN	385	0.449	68.996	0.882	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	386	0.029	4.044	-0.292	0.022	0.359	0.619
E D	sp_P17927_CR1_HUMAN	387	0.534	76.964	0.444	0.004	0.085	0.910
E E	sp_P17927_CR1_HUMAN	388	0.639	111.546	-1.188	0.005	0.015	0.979
E G	sp_P17927_CR1_HUMAN	389	0.476	37.469	-1.257	0.018	0.019	0.964
B F	sp_P17927_CR1_HUMAN	390	0.106	21.354	-0.157	0.021	0.279	0.699
E Q	sp_P17927_CR1_HUMAN	391	0.495	88.496	-0.079	0.002	0.816	0.182
B L	sp_P17927_CR1_HUMAN	392	0.196	35.961	-0.271	0.021	0.756	0.223
E K	sp_P17927_CR1_HUMAN	393	0.429	88.245	-0.342	0.021	0.451	0.528
E G	sp_P17927_CR1_HUMAN	394	0.589	46.370	-2.341	0.004	0.085	0.910
E S	sp_P17927_CR1_HUMAN	395	0.605	70.941	-1.763	0.005	0.045	0.951
E S	sp_P17927_CR1_HUMAN	396	0.595	69.699	-0.951	0.004	0.197	0.799
E A	sp_P17927_CR1_HUMAN	397	0.506	55.706	-0.256	0.004	0.616	0.381
E S	sp_P17927_CR1_HUMAN	398	0.302	35.406	-0.022	0.003	0.718	0.279
E Y	sp_P17927_CR1_HUMAN	399	0.284	60.755	-0.371	0.021	0.756	0.223
B C	sp_P17927_CR1_HUMAN	400	0.226	31.758	-0.651	0.021	0.756	0.223
E V	sp_P17927_CR1_HUMAN	401	0.325	49.999	-0.320	0.022	0.552	0.426
E L	sp_P17927_CR1_HUMAN	402	0.352	64.378	-0.954	0.021	0.451	0.528

E A	sp_P17927_CR1_HUMAN	403	0.314	34.570	-1.265	0.022	0.359	0.619
E G	sp_P17927_CR1_HUMAN	404	0.293	23.051	-1.141	0.020	0.205	0.775
E M	sp_P17927_CR1_HUMAN	405	0.644	128.864	-1.142	0.018	0.088	0.893
E E	sp_P17927_CR1_HUMAN	406	0.659	115.127	-1.333	0.018	0.047	0.935
E S	sp_P17927_CR1_HUMAN	407	0.334	39.180	-1.573	0.005	0.045	0.951
E L	sp_P17927_CR1_HUMAN	408	0.588	107.718	-0.825	0.005	0.262	0.733
B W	sp_P17927_CR1_HUMAN	409	0.203	48.894	-1.387	0.005	0.336	0.660
E N	sp_P17927_CR1_HUMAN	410	0.452	66.231	-0.894	0.004	0.138	0.858
E S	sp_P17927_CR1_HUMAN	411	0.577	67.589	-1.482	0.018	0.047	0.935
E S	sp_P17927_CR1_HUMAN	412	0.673	78.887	-0.592	0.018	0.019	0.964
E V	sp_P17927_CR1_HUMAN	413	0.303	46.586	-0.252	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	414	0.276	39.207	-1.288	0.018	0.019	0.964
E V	sp_P17927_CR1_HUMAN	415	0.485	74.468	-0.559	0.018	0.088	0.893
B C	sp_P17927_CR1_HUMAN	416	0.211	29.582	-1.266	0.021	0.279	0.699
E E	sp_P17927_CR1_HUMAN	417	0.398	69.461	-1.015	0.021	0.451	0.528
E Q	sp_P17927_CR1_HUMAN	418	0.562	100.463	-1.241	0.021	0.451	0.528
E I	sp_P17927_CR1_HUMAN	419	0.382	70.762	-0.686	0.021	0.451	0.528
E F	sp_P17927_CR1_HUMAN	420	0.425	85.338	-1.142	0.022	0.359	0.619
E C	sp_P17927_CR1_HUMAN	421	0.452	63.475	-1.433	0.020	0.205	0.775
E P	sp_P17927_CR1_HUMAN	422	0.515	73.121	-1.744	0.004	0.085	0.910
E S	sp_P17927_CR1_HUMAN	423	0.573	67.132	-1.357	0.005	0.045	0.951
E P	sp_P17927_CR1_HUMAN	424	0.332	47.068	-1.315	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	425	0.572	81.238	-1.869	0.018	0.019	0.964
E V	sp_P17927_CR1_HUMAN	426	0.467	71.839	-1.007	0.018	0.047	0.935
B I	sp_P17927_CR1_HUMAN	427	0.163	30.118	-1.666	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	428	0.648	91.894	-2.465	0.018	0.047	0.935
E N	sp_P17927_CR1_HUMAN	429	0.545	79.817	-2.324	0.018	0.047	0.935
E G	sp_P17927_CR1_HUMAN	430	0.313	24.672	-2.436	0.018	0.088	0.893
E R	sp_P17927_CR1_HUMAN	431	0.400	91.646	-1.552	0.005	0.262	0.733
E H	sp_P17927_CR1_HUMAN	432	0.308	56.062	-1.387	0.022	0.552	0.426
E T	sp_P17927_CR1_HUMAN	433	0.349	48.351	-2.112	0.022	0.552	0.426
B G	sp_P17927_CR1_HUMAN	434	0.268	21.084	-2.213	0.022	0.359	0.619
E K	sp_P17927_CR1_HUMAN	435	0.508	104.413	-1.702	0.020	0.205	0.775
E P	sp_P17927_CR1_HUMAN	436	0.503	71.404	-1.684	0.019	0.141	0.840
E L	sp_P17927_CR1_HUMAN	437	0.545	99.698	-1.506	0.018	0.047	0.935
E E	sp_P17927_CR1_HUMAN	438	0.513	89.656	-1.795	0.019	0.141	0.840
E V	sp_P17927_CR1_HUMAN	439	0.482	74.053	-1.557	0.021	0.279	0.699
B F	sp_P17927_CR1_HUMAN	440	0.151	30.286	-0.697	0.022	0.359	0.619
E P	sp_P17927_CR1_HUMAN	441	0.512	72.681	-1.135	0.022	0.359	0.619
E F	sp_P17927_CR1_HUMAN	442	0.434	87.104	-1.091	0.005	0.262	0.733
E G	sp_P17927_CR1_HUMAN	443	0.518	40.735	-2.212	0.004	0.138	0.858
E K	sp_P17927_CR1_HUMAN	444	0.475	97.707	-1.677	0.004	0.138	0.858
E T	sp_P17927_CR1_HUMAN	445	0.500	69.308	-0.508	0.004	0.420	0.576
B V	sp_P17927_CR1_HUMAN	446	0.143	21.948	0.182	0.004	0.616	0.381
E N	sp_P17927_CR1_HUMAN	447	0.446	65.338	-0.492	0.004	0.616	0.381
B Y	sp_P17927_CR1_HUMAN	448	0.220	47.057	-0.292	0.003	0.718	0.279
E T	sp_P17927_CR1_HUMAN	449	0.410	56.895	-1.055	0.004	0.616	0.381
B C	sp_P17927_CR1_HUMAN	450	0.140	19.656	-1.233	0.021	0.451	0.528
E D	sp_P17927_CR1_HUMAN	451	0.524	75.508	-0.999	0.022	0.359	0.619
E P	sp_P17927_CR1_HUMAN	452	0.355	50.332	-1.217	0.021	0.451	0.528
E H	sp_P17927_CR1_HUMAN	453	0.456	82.874	-1.120	0.021	0.451	0.528
E P	sp_P17927_CR1_HUMAN	454	0.341	48.374	-1.534	0.022	0.359	0.619
E D	sp_P17927_CR1_HUMAN	455	0.556	80.062	-1.276	0.021	0.279	0.699
E R	sp_P17927_CR1_HUMAN	456	0.354	81.089	-0.775	0.019	0.141	0.840
E G	sp_P17927_CR1_HUMAN	457	0.419	33.007	-1.622	0.019	0.141	0.840
E T	sp_P17927_CR1_HUMAN	458	0.556	77.145	-1.317	0.019	0.141	0.840
E S	sp_P17927_CR1_HUMAN	459	0.423	49.564	-1.485	0.020	0.205	0.775
B F	sp_P17927_CR1_HUMAN	460	0.219	43.933	-0.966	0.022	0.359	0.619
E D	sp_P17927_CR1_HUMAN	461	0.461	66.416	-0.954	0.021	0.451	0.528
B L	sp_P17927_CR1_HUMAN	462	0.201	36.840	-1.576	0.022	0.359	0.619
E I	sp_P17927_CR1_HUMAN	463	0.489	90.447	-1.643	0.020	0.205	0.775

E G	sp_P17927_CR1_HUMAN	464	0.543	42.726	-2.599	0.005	0.045	0.951
E E	sp_P17927_CR1_HUMAN	465	0.572	99.998	-2.012	0.005	0.045	0.951
E S	sp_P17927_CR1_HUMAN	466	0.526	61.624	-1.297	0.004	0.197	0.799
E T	sp_P17927_CR1_HUMAN	467	0.362	50.196	-0.433	0.004	0.420	0.576
B I	sp_P17927_CR1_HUMAN	468	0.184	34.114	0.083	0.023	0.655	0.322
E R	sp_P17927_CR1_HUMAN	469	0.359	82.211	-0.140	0.021	0.756	0.223
B C	sp_P17927_CR1_HUMAN	470	0.071	9.940	-1.548	0.021	0.756	0.223
E T	sp_P17927_CR1_HUMAN	471	0.307	42.581	-0.384	0.022	0.552	0.426
E S	sp_P17927_CR1_HUMAN	472	0.376	44.102	-1.830	0.021	0.279	0.699
E D	sp_P17927_CR1_HUMAN	473	0.538	77.497	-1.699	0.018	0.088	0.893
E P	sp_P17927_CR1_HUMAN	474	0.460	65.260	-2.152	0.018	0.047	0.935
E Q	sp_P17927_CR1_HUMAN	475	0.516	92.086	-1.739	0.018	0.088	0.893
E G	sp_P17927_CR1_HUMAN	476	0.394	31.000	-1.654	0.019	0.141	0.840
E N	sp_P17927_CR1_HUMAN	477	0.411	60.097	-2.018	0.018	0.088	0.893
E G	sp_P17927_CR1_HUMAN	478	0.304	23.909	-2.490	0.018	0.088	0.893
E V	sp_P17927_CR1_HUMAN	479	0.539	82.906	-1.177	0.020	0.205	0.775
B W	sp_P17927_CR1_HUMAN	480	0.264	63.372	-2.087	0.004	0.197	0.799
E S	sp_P17927_CR1_HUMAN	481	0.446	52.213	-2.045	0.004	0.085	0.910
E S	sp_P17927_CR1_HUMAN	482	0.523	61.272	-1.929	0.005	0.045	0.951
E P	sp_P17927_CR1_HUMAN	483	0.553	78.513	-1.424	0.018	0.047	0.935
E A	sp_P17927_CR1_HUMAN	484	0.423	46.637	-0.846	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	485	0.446	63.330	-0.917	0.018	0.088	0.893
E R	sp_P17927_CR1_HUMAN	486	0.384	87.890	-0.618	0.020	0.205	0.775
E C	sp_P17927_CR1_HUMAN	487	0.323	45.377	-1.540	0.022	0.359	0.619
E G	sp_P17927_CR1_HUMAN	488	0.474	37.335	-1.120	0.021	0.279	0.699
E I	sp_P17927_CR1_HUMAN	489	0.549	101.621	-1.423	0.022	0.359	0.619
E L	sp_P17927_CR1_HUMAN	490	0.350	64.122	-0.884	0.022	0.359	0.619
E G	sp_P17927_CR1_HUMAN	491	0.473	37.241	-1.345	0.022	0.359	0.619
E H	sp_P17927_CR1_HUMAN	492	0.448	81.491	-1.332	0.020	0.205	0.775
E C	sp_P17927_CR1_HUMAN	493	0.310	43.468	-1.522	0.019	0.141	0.840
E Q	sp_P17927_CR1_HUMAN	494	0.508	90.657	-2.264	0.019	0.141	0.840
E A	sp_P17927_CR1_HUMAN	495	0.422	46.471	-1.127	0.018	0.088	0.893
E P	sp_P17927_CR1_HUMAN	496	0.308	43.734	-2.144	0.018	0.047	0.935
E D	sp_P17927_CR1_HUMAN	497	0.489	70.523	-2.010	0.018	0.047	0.935
E H	sp_P17927_CR1_HUMAN	498	0.535	97.226	-1.519	0.018	0.047	0.935
E F	sp_P17927_CR1_HUMAN	499	0.321	64.485	-2.106	0.018	0.047	0.935
E L	sp_P17927_CR1_HUMAN	500	0.487	89.225	-1.801	0.018	0.047	0.935
E F	sp_P17927_CR1_HUMAN	501	0.463	92.864	-2.306	0.018	0.047	0.935
E A	sp_P17927_CR1_HUMAN	502	0.420	46.273	-2.280	0.018	0.047	0.935
E K	sp_P17927_CR1_HUMAN	503	0.443	91.228	-1.955	0.004	0.085	0.910
B L	sp_P17927_CR1_HUMAN	504	0.254	46.526	-1.482	0.005	0.262	0.733
E K	sp_P17927_CR1_HUMAN	505	0.441	90.755	-1.209	0.022	0.552	0.426
E T	sp_P17927_CR1_HUMAN	506	0.334	46.340	-1.852	0.022	0.552	0.426
E Q	sp_P17927_CR1_HUMAN	507	0.412	73.583	-2.162	0.022	0.359	0.619
E T	sp_P17927_CR1_HUMAN	508	0.407	56.520	-2.053	0.019	0.141	0.840
E N	sp_P17927_CR1_HUMAN	509	0.499	73.068	-1.806	0.004	0.085	0.910
E A	sp_P17927_CR1_HUMAN	510	0.496	54.692	-1.597	0.019	0.141	0.840
E S	sp_P17927_CR1_HUMAN	511	0.425	49.845	-1.545	0.020	0.205	0.775
E D	sp_P17927_CR1_HUMAN	512	0.457	65.810	-1.865	0.021	0.279	0.699
B F	sp_P17927_CR1_HUMAN	513	0.130	26.151	-0.785	0.022	0.359	0.619
E P	sp_P17927_CR1_HUMAN	514	0.468	66.466	-0.938	0.005	0.336	0.660
E I	sp_P17927_CR1_HUMAN	515	0.363	67.118	-0.973	0.005	0.262	0.733
E G	sp_P17927_CR1_HUMAN	516	0.541	42.569	-2.154	0.005	0.045	0.951
E T	sp_P17927_CR1_HUMAN	517	0.426	59.142	-1.328	0.004	0.138	0.858
E S	sp_P17927_CR1_HUMAN	518	0.482	56.479	0.120	0.003	0.718	0.279
B L	sp_P17927_CR1_HUMAN	519	0.067	12.213	-1.087	0.002	0.816	0.182
E K	sp_P17927_CR1_HUMAN	520	0.454	93.429	0.184	0.011	0.918	0.071
B Y	sp_P17927_CR1_HUMAN	521	0.125	26.734	-1.000	0.018	0.846	0.136
E E	sp_P17927_CR1_HUMAN	522	0.524	91.473	-0.204	0.021	0.756	0.223
B C	sp_P17927_CR1_HUMAN	523	0.072	10.137	-1.247	0.020	0.205	0.775
E R	sp_P17927_CR1_HUMAN	524	0.540	123.591	-0.242	0.018	0.088	0.893

E P	sp_P17927_CR1_HUMAN	525	0.717	101.686	-1.334	0.018	0.047	0.935
E E	sp_P17927_CR1_HUMAN	526	0.386	67.347	-2.130	0.018	0.047	0.935
B Y	sp_P17927_CR1_HUMAN	527	0.127	27.204	-0.877	0.021	0.279	0.699
E Y	sp_P17927_CR1_HUMAN	528	0.422	90.181	-0.875	0.022	0.552	0.426
B G	sp_P17927_CR1_HUMAN	529	0.268	21.060	-2.354	0.022	0.359	0.619
E R	sp_P17927_CR1_HUMAN	530	0.493	112.874	-0.910	0.004	0.085	0.910
E P	sp_P17927_CR1_HUMAN	531	0.618	87.737	-2.569	0.005	0.045	0.951
E F	sp_P17927_CR1_HUMAN	532	0.485	97.259	-1.724	0.004	0.085	0.910
E S	sp_P17927_CR1_HUMAN	533	0.392	45.907	-1.011	0.005	0.262	0.733
B I	sp_P17927_CR1_HUMAN	534	0.216	39.942	-0.040	0.004	0.616	0.381
E T	sp_P17927_CR1_HUMAN	535	0.274	38.073	0.344	0.018	0.846	0.136
B C	sp_P17927_CR1_HUMAN	536	0.056	7.820	-0.874	0.018	0.846	0.136
B L	sp_P17927_CR1_HUMAN	537	0.184	33.745	-0.286	0.023	0.655	0.322
E D	sp_P17927_CR1_HUMAN	538	0.559	80.480	-1.350	0.021	0.279	0.699
E N	sp_P17927_CR1_HUMAN	539	0.593	86.815	-1.323	0.018	0.047	0.935
E L	sp_P17927_CR1_HUMAN	540	0.317	57.988	-1.463	0.018	0.047	0.935
E V	sp_P17927_CR1_HUMAN	541	0.574	88.270	-0.846	0.022	0.359	0.619
B W	sp_P17927_CR1_HUMAN	542	0.182	43.843	-1.164	0.021	0.451	0.528
E S	sp_P17927_CR1_HUMAN	543	0.529	62.022	-1.276	0.021	0.279	0.699
E S	sp_P17927_CR1_HUMAN	544	0.520	60.921	-2.091	0.018	0.088	0.893
E P	sp_P17927_CR1_HUMAN	545	0.602	85.452	-1.464	0.018	0.047	0.935
E K	sp_P17927_CR1_HUMAN	546	0.474	97.440	-0.109	0.018	0.047	0.935
E D	sp_P17927_CR1_HUMAN	547	0.364	52.438	-0.166	0.004	0.085	0.910
E V	sp_P17927_CR1_HUMAN	548	0.470	72.239	0.349	0.005	0.262	0.733
B C	sp_P17927_CR1_HUMAN	549	0.098	13.731	-2.805	0.022	0.552	0.426
E K	sp_P17927_CR1_HUMAN	550	0.556	114.472	-0.309	0.022	0.552	0.426
E R	sp_P17927_CR1_HUMAN	551	0.514	117.614	-0.698	0.022	0.359	0.619
E K	sp_P17927_CR1_HUMAN	552	0.339	69.671	-0.689	0.021	0.279	0.699
E S	sp_P17927_CR1_HUMAN	553	0.619	72.512	-1.281	0.022	0.359	0.619
B C	sp_P17927_CR1_HUMAN	554	0.167	23.419	-2.034	0.019	0.141	0.840
E K	sp_P17927_CR1_HUMAN	555	0.598	122.947	-2.353	0.018	0.019	0.964
E T	sp_P17927_CR1_HUMAN	556	0.521	72.249	-1.402	0.018	0.019	0.964
B P	sp_P17927_CR1_HUMAN	557	0.267	37.831	-1.906	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	558	0.508	72.114	-1.984	0.018	0.047	0.935
E D	sp_P17927_CR1_HUMAN	559	0.316	45.593	-1.428	0.018	0.088	0.893
E P	sp_P17927_CR1_HUMAN	560	0.364	51.666	-1.316	0.018	0.088	0.893
E V	sp_P17927_CR1_HUMAN	561	0.627	96.431	-2.183	0.005	0.045	0.951
E N	sp_P17927_CR1_HUMAN	562	0.587	86.010	-2.387	0.005	0.015	0.979
E G	sp_P17927_CR1_HUMAN	563	0.379	29.851	-2.077	0.004	0.085	0.910
E M	sp_P17927_CR1_HUMAN	564	0.431	86.223	-0.647	0.004	0.616	0.381
B V	sp_P17927_CR1_HUMAN	565	0.192	29.510	-1.180	0.002	0.816	0.182
E H	sp_P17927_CR1_HUMAN	566	0.426	77.508	-0.935	0.021	0.756	0.223
E V	sp_P17927_CR1_HUMAN	567	0.328	50.429	-1.580	0.021	0.451	0.528
E I	sp_P17927_CR1_HUMAN	568	0.419	77.459	-1.779	0.018	0.088	0.893
E T	sp_P17927_CR1_HUMAN	569	0.612	84.912	-2.365	0.018	0.047	0.935
E D	sp_P17927_CR1_HUMAN	570	0.525	75.696	-1.371	0.018	0.088	0.893
B I	sp_P17927_CR1_HUMAN	571	0.143	26.474	-0.300	0.020	0.205	0.775
E Q	sp_P17927_CR1_HUMAN	572	0.473	84.567	-0.480	0.005	0.262	0.733
E V	sp_P17927_CR1_HUMAN	573	0.314	48.231	-0.852	0.004	0.197	0.799
E G	sp_P17927_CR1_HUMAN	574	0.546	42.954	-1.819	0.005	0.045	0.951
E S	sp_P17927_CR1_HUMAN	575	0.425	49.787	-1.247	0.004	0.138	0.858
E R	sp_P17927_CR1_HUMAN	576	0.446	102.248	0.621	0.004	0.616	0.381
B I	sp_P17927_CR1_HUMAN	577	0.055	10.249	0.135	0.002	0.816	0.182
E N	sp_P17927_CR1_HUMAN	578	0.325	47.565	0.644	0.001	0.900	0.099
B Y	sp_P17927_CR1_HUMAN	579	0.064	13.720	-0.624	0.001	0.900	0.099
E S	sp_P17927_CR1_HUMAN	580	0.460	53.912	0.676	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	581	0.041	5.756	-0.542	0.021	0.451	0.528
E T	sp_P17927_CR1_HUMAN	582	0.464	64.398	0.139	0.019	0.141	0.840
E T	sp_P17927_CR1_HUMAN	583	0.662	91.792	-0.849	0.018	0.047	0.935
E G	sp_P17927_CR1_HUMAN	584	0.446	35.077	-1.706	0.018	0.019	0.964
B H	sp_P17927_CR1_HUMAN	585	0.170	31.014	-0.178	0.021	0.279	0.699

E R	sp_P17927_CR1_HUMAN	586	0.484	110.767	-0.365	0.004	0.616	0.381
B L	sp_P17927_CR1_HUMAN	587	0.234	42.919	-1.059	0.022	0.552	0.426
E I	sp_P17927_CR1_HUMAN	588	0.460	85.192	-0.798	0.022	0.359	0.619
E G	sp_P17927_CR1_HUMAN	589	0.594	46.732	-1.985	0.004	0.085	0.910
E H	sp_P17927_CR1_HUMAN	590	0.665	120.982	-1.457	0.005	0.015	0.979
E S	sp_P17927_CR1_HUMAN	591	0.608	71.258	-1.154	0.004	0.138	0.858
E S	sp_P17927_CR1_HUMAN	592	0.490	57.405	-0.152	0.004	0.514	0.481
B A	sp_P17927_CR1_HUMAN	593	0.164	18.051	-0.320	0.004	0.616	0.381
E E	sp_P17927_CR1_HUMAN	594	0.347	60.621	0.579	0.003	0.718	0.279
B C	sp_P17927_CR1_HUMAN	595	0.061	8.508	-1.513	0.021	0.756	0.223
E I	sp_P17927_CR1_HUMAN	596	0.314	58.164	-0.521	0.021	0.756	0.223
B L	sp_P17927_CR1_HUMAN	597	0.304	55.607	-1.518	0.022	0.552	0.426
E S	sp_P17927_CR1_HUMAN	598	0.382	44.747	-0.830	0.021	0.279	0.699
E G	sp_P17927_CR1_HUMAN	599	0.450	35.391	-2.059	0.018	0.047	0.935
E N	sp_P17927_CR1_HUMAN	600	0.726	106.272	-1.144	0.018	0.047	0.935
E A	sp_P17927_CR1_HUMAN	601	0.548	60.357	-1.434	0.018	0.088	0.893
E A	sp_P17927_CR1_HUMAN	602	0.312	34.371	-1.257	0.019	0.141	0.840
E H	sp_P17927_CR1_HUMAN	603	0.503	91.550	-1.321	0.021	0.279	0.699
B W	sp_P17927_CR1_HUMAN	604	0.219	52.670	-1.195	0.005	0.262	0.733
E S	sp_P17927_CR1_HUMAN	605	0.419	49.154	-1.517	0.004	0.085	0.910
E T	sp_P17927_CR1_HUMAN	606	0.597	82.818	-2.218	0.018	0.019	0.964
E K	sp_P17927_CR1_HUMAN	607	0.613	126.156	-1.259	0.016	0.005	0.979
E P	sp_P17927_CR1_HUMAN	608	0.405	57.413	-1.306	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	609	0.415	58.874	-1.035	0.018	0.047	0.935
E I	sp_P17927_CR1_HUMAN	610	0.451	83.361	-0.708	0.004	0.138	0.858
E C	sp_P17927_CR1_HUMAN	611	0.275	38.652	-1.385	0.005	0.262	0.733
E Q	sp_P17927_CR1_HUMAN	612	0.520	92.961	-1.128	0.005	0.336	0.660
E R	sp_P17927_CR1_HUMAN	613	0.497	113.744	-1.000	0.004	0.420	0.576
E I	sp_P17927_CR1_HUMAN	614	0.244	45.159	-0.947	0.022	0.359	0.619
E P	sp_P17927_CR1_HUMAN	615	0.598	84.828	-1.673	0.022	0.359	0.619
B C	sp_P17927_CR1_HUMAN	616	0.198	27.841	-1.600	0.018	0.088	0.893
E G	sp_P17927_CR1_HUMAN	617	0.585	46.063	-2.174	0.018	0.047	0.935
E L	sp_P17927_CR1_HUMAN	618	0.627	114.767	-1.285	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	619	0.310	44.032	-1.792	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	620	0.489	69.446	-1.943	0.018	0.047	0.935
E T	sp_P17927_CR1_HUMAN	621	0.477	66.146	-0.991	0.005	0.045	0.951
B I	sp_P17927_CR1_HUMAN	622	0.146	26.991	-1.914	0.005	0.045	0.951
E A	sp_P17927_CR1_HUMAN	623	0.705	77.746	-1.436	0.005	0.045	0.951
E N	sp_P17927_CR1_HUMAN	624	0.600	87.796	-2.176	0.005	0.015	0.979
B G	sp_P17927_CR1_HUMAN	625	0.243	19.140	-2.958	0.005	0.045	0.951
E D	sp_P17927_CR1_HUMAN	626	0.459	66.185	-0.908	0.004	0.420	0.576
B F	sp_P17927_CR1_HUMAN	627	0.218	43.712	-0.269	0.003	0.718	0.279
E I	sp_P17927_CR1_HUMAN	628	0.375	69.338	-1.262	0.023	0.655	0.322
B S	sp_P17927_CR1_HUMAN	629	0.191	22.409	-2.422	0.022	0.359	0.619
E T	sp_P17927_CR1_HUMAN	630	0.497	68.865	-1.973	0.004	0.138	0.858
E N	sp_P17927_CR1_HUMAN	631	0.567	82.980	-1.862	0.005	0.045	0.951
E R	sp_P17927_CR1_HUMAN	632	0.590	135.133	-1.728	0.018	0.019	0.964
E E	sp_P17927_CR1_HUMAN	633	0.666	116.315	-2.651	0.018	0.047	0.935
E N	sp_P17927_CR1_HUMAN	634	0.544	79.583	-1.436	0.004	0.138	0.858
B F	sp_P17927_CR1_HUMAN	635	0.133	26.613	-0.812	0.004	0.138	0.858
E H	sp_P17927_CR1_HUMAN	636	0.498	90.604	-0.677	0.004	0.138	0.858
E Y	sp_P17927_CR1_HUMAN	637	0.421	90.053	-0.951	0.004	0.138	0.858
E G	sp_P17927_CR1_HUMAN	638	0.555	43.647	-1.564	0.005	0.045	0.951
E S	sp_P17927_CR1_HUMAN	639	0.326	38.195	-1.051	0.004	0.138	0.858
E V	sp_P17927_CR1_HUMAN	640	0.405	62.279	0.457	0.003	0.718	0.279
B V	sp_P17927_CR1_HUMAN	641	0.074	11.405	0.363	0.001	0.900	0.099
E T	sp_P17927_CR1_HUMAN	642	0.300	41.555	0.526	0.011	0.918	0.071
B Y	sp_P17927_CR1_HUMAN	643	0.114	24.383	-0.128	0.011	0.918	0.071
E R	sp_P17927_CR1_HUMAN	644	0.427	97.760	-0.204	0.018	0.846	0.136
B C	sp_P17927_CR1_HUMAN	645	0.048	6.711	-1.036	0.022	0.359	0.619
E N	sp_P17927_CR1_HUMAN	646	0.501	73.361	-1.085	0.019	0.141	0.840

E P	sp_P17927_CR1_HUMAN	647	0.565	80.216	-1.828	0.018	0.047	0.935
E G	sp_P17927_CR1_HUMAN	648	0.482	37.957	-2.485	0.018	0.047	0.935
E S	sp_P17927_CR1_HUMAN	649	0.373	43.657	-1.845	0.018	0.088	0.893
E G	sp_P17927_CR1_HUMAN	650	0.551	43.340	-1.723	0.019	0.141	0.840
E G	sp_P17927_CR1_HUMAN	651	0.347	27.325	-1.744	0.018	0.088	0.893
E R	sp_P17927_CR1_HUMAN	652	0.509	116.447	-1.649	0.018	0.088	0.893
E K	sp_P17927_CR1_HUMAN	653	0.580	119.244	-1.701	0.018	0.088	0.893
E V	sp_P17927_CR1_HUMAN	654	0.444	68.197	-1.608	0.019	0.141	0.840
B F	sp_P17927_CR1_HUMAN	655	0.237	47.486	-1.635	0.021	0.279	0.699
E E	sp_P17927_CR1_HUMAN	656	0.373	65.128	-1.386	0.022	0.359	0.619
B L	sp_P17927_CR1_HUMAN	657	0.196	35.851	-1.590	0.021	0.451	0.528
E V	sp_P17927_CR1_HUMAN	658	0.455	69.949	-1.904	0.004	0.420	0.576
E G	sp_P17927_CR1_HUMAN	659	0.403	31.716	-2.441	0.005	0.262	0.733
E E	sp_P17927_CR1_HUMAN	660	0.525	91.787	-2.120	0.004	0.138	0.858
E P	sp_P17927_CR1_HUMAN	661	0.502	71.205	-1.981	0.004	0.197	0.799
E S	sp_P17927_CR1_HUMAN	662	0.437	51.205	-1.014	0.004	0.420	0.576
B I	sp_P17927_CR1_HUMAN	663	0.229	42.458	-0.665	0.023	0.655	0.322
E Y	sp_P17927_CR1_HUMAN	664	0.406	86.741	0.073	0.021	0.756	0.223
B C	sp_P17927_CR1_HUMAN	665	0.094	13.184	-0.825	0.023	0.655	0.322
E T	sp_P17927_CR1_HUMAN	666	0.327	45.327	-0.954	0.022	0.552	0.426
E S	sp_P17927_CR1_HUMAN	667	0.360	42.157	-1.930	0.021	0.279	0.699
E N	sp_P17927_CR1_HUMAN	668	0.525	76.875	-1.792	0.018	0.088	0.893
E D	sp_P17927_CR1_HUMAN	669	0.515	74.240	-2.276	0.018	0.088	0.893
E D	sp_P17927_CR1_HUMAN	670	0.468	67.453	-1.814	0.019	0.141	0.840
E Q	sp_P17927_CR1_HUMAN	671	0.498	88.961	-1.395	0.019	0.141	0.840
E V	sp_P17927_CR1_HUMAN	672	0.401	61.680	-1.337	0.019	0.141	0.840
E G	sp_P17927_CR1_HUMAN	673	0.353	27.765	-1.697	0.020	0.205	0.775
E I	sp_P17927_CR1_HUMAN	674	0.465	86.118	-1.099	0.022	0.359	0.619
B W	sp_P17927_CR1_HUMAN	675	0.229	55.123	-1.418	0.022	0.359	0.619
E S	sp_P17927_CR1_HUMAN	676	0.405	47.478	-1.726	0.020	0.205	0.775
E G	sp_P17927_CR1_HUMAN	677	0.469	36.942	-1.817	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	678	0.621	88.177	-1.430	0.018	0.019	0.964
E A	sp_P17927_CR1_HUMAN	679	0.493	54.296	-1.468	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	680	0.460	65.317	-0.666	0.019	0.141	0.840
E Q	sp_P17927_CR1_HUMAN	681	0.361	64.510	-0.216	0.004	0.420	0.576
B C	sp_P17927_CR1_HUMAN	682	0.210	29.498	-1.494	0.022	0.552	0.426
E I	sp_P17927_CR1_HUMAN	683	0.547	101.177	-0.806	0.022	0.552	0.426
E I	sp_P17927_CR1_HUMAN	684	0.462	85.415	-0.701	0.022	0.359	0.619
E P	sp_P17927_CR1_HUMAN	685	0.363	51.510	-1.085	0.021	0.279	0.699
E N	sp_P17927_CR1_HUMAN	686	0.637	93.228	-1.616	0.022	0.359	0.619
E K	sp_P17927_CR1_HUMAN	687	0.493	101.328	-0.864	0.021	0.279	0.699
B C	sp_P17927_CR1_HUMAN	688	0.189	26.508	-2.290	0.004	0.085	0.910
E T	sp_P17927_CR1_HUMAN	689	0.647	89.808	-1.661	0.005	0.045	0.951
E P	sp_P17927_CR1_HUMAN	690	0.443	62.904	-1.129	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	691	0.428	60.747	-2.362	0.016	0.005	0.979
E N	sp_P17927_CR1_HUMAN	692	0.587	85.966	-1.598	0.018	0.019	0.964
B V	sp_P17927_CR1_HUMAN	693	0.087	13.326	-2.112	0.005	0.015	0.979
E E	sp_P17927_CR1_HUMAN	694	0.678	118.429	-0.884	0.005	0.015	0.979
E N	sp_P17927_CR1_HUMAN	695	0.634	92.774	-2.155	0.005	0.015	0.979
B G	sp_P17927_CR1_HUMAN	696	0.233	18.361	-3.373	0.005	0.045	0.951
E I	sp_P17927_CR1_HUMAN	697	0.392	72.594	-1.513	0.005	0.336	0.660
B L	sp_P17927_CR1_HUMAN	698	0.187	34.295	-0.894	0.003	0.718	0.279
E V	sp_P17927_CR1_HUMAN	699	0.259	39.839	-1.775	0.002	0.816	0.182
B S	sp_P17927_CR1_HUMAN	700	0.276	32.312	-1.644	0.022	0.552	0.426
E D	sp_P17927_CR1_HUMAN	701	0.338	48.677	-2.116	0.020	0.205	0.775
E N	sp_P17927_CR1_HUMAN	702	0.593	86.844	-2.362	0.018	0.088	0.893
E R	sp_P17927_CR1_HUMAN	703	0.555	127.141	-1.142	0.018	0.047	0.935
E S	sp_P17927_CR1_HUMAN	704	0.540	63.300	-1.784	0.019	0.141	0.840
E L	sp_P17927_CR1_HUMAN	705	0.508	92.960	-1.005	0.021	0.279	0.699
B F	sp_P17927_CR1_HUMAN	706	0.142	28.399	-0.823	0.005	0.262	0.733
E S	sp_P17927_CR1_HUMAN	707	0.525	61.483	-0.224	0.005	0.262	0.733

E L	sp_P17927_CR1_HUMAN	708	0.398	72.801	-0.771	0.005	0.262	0.733
E N	sp_P17927_CR1_HUMAN	709	0.562	82.277	-1.418	0.004	0.085	0.910
E E	sp_P17927_CR1_HUMAN	710	0.314	54.838	-1.059	0.004	0.197	0.799
E V	sp_P17927_CR1_HUMAN	711	0.455	69.857	1.121	0.002	0.816	0.182
B V	sp_P17927_CR1_HUMAN	712	0.059	9.022	0.463	0.001	0.900	0.099
E E	sp_P17927_CR1_HUMAN	713	0.368	64.342	1.148	0.011	0.918	0.071
B F	sp_P17927_CR1_HUMAN	714	0.057	11.500	0.175	0.011	0.918	0.071
E R	sp_P17927_CR1_HUMAN	715	0.430	98.539	1.053	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	716	0.021	2.920	0.500	0.021	0.451	0.528
E Q	sp_P17927_CR1_HUMAN	717	0.488	87.139	0.808	0.004	0.085	0.910
E P	sp_P17927_CR1_HUMAN	718	0.756	107.291	-0.496	0.005	0.015	0.979
E G	sp_P17927_CR1_HUMAN	719	0.485	38.193	-1.605	0.005	0.015	0.979
B F	sp_P17927_CR1_HUMAN	720	0.124	24.807	0.013	0.005	0.262	0.733
E V	sp_P17927_CR1_HUMAN	721	0.481	73.899	-0.098	0.003	0.718	0.279
B M	sp_P17927_CR1_HUMAN	722	0.144	28.854	-0.930	0.003	0.718	0.279
E K	sp_P17927_CR1_HUMAN	723	0.496	102.048	-0.453	0.005	0.336	0.660
E G	sp_P17927_CR1_HUMAN	724	0.533	41.931	-1.993	0.004	0.085	0.910
E P	sp_P17927_CR1_HUMAN	725	0.647	91.738	-1.319	0.005	0.015	0.979
E R	sp_P17927_CR1_HUMAN	726	0.536	122.790	-1.378	0.005	0.262	0.733
E R	sp_P17927_CR1_HUMAN	727	0.403	92.356	0.337	0.003	0.718	0.279
B V	sp_P17927_CR1_HUMAN	728	0.149	22.871	0.099	0.018	0.846	0.136
E K	sp_P17927_CR1_HUMAN	729	0.354	72.859	1.058	0.011	0.918	0.071
B C	sp_P17927_CR1_HUMAN	730	0.026	3.594	-0.444	0.018	0.846	0.136
E Q	sp_P17927_CR1_HUMAN	731	0.285	50.955	0.214	0.022	0.552	0.426
E A	sp_P17927_CR1_HUMAN	732	0.560	61.701	-1.799	0.020	0.205	0.775
E L	sp_P17927_CR1_HUMAN	733	0.555	101.566	-1.909	0.018	0.019	0.964
E N	sp_P17927_CR1_HUMAN	734	0.395	57.872	-1.742	0.018	0.019	0.964
E K	sp_P17927_CR1_HUMAN	735	0.516	106.182	-0.885	0.019	0.141	0.840
B W	sp_P17927_CR1_HUMAN	736	0.172	41.318	-1.435	0.021	0.279	0.699
E E	sp_P17927_CR1_HUMAN	737	0.487	85.131	-1.416	0.020	0.205	0.775
E P	sp_P17927_CR1_HUMAN	738	0.629	89.198	-1.885	0.018	0.088	0.893
E E	sp_P17927_CR1_HUMAN	739	0.640	111.808	-0.936	0.018	0.019	0.964
E L	sp_P17927_CR1_HUMAN	740	0.394	72.233	-0.292	0.005	0.015	0.979
E P	sp_P17927_CR1_HUMAN	741	0.365	51.850	-0.774	0.005	0.045	0.951
E S	sp_P17927_CR1_HUMAN	742	0.484	56.760	0.348	0.004	0.197	0.799
B C	sp_P17927_CR1_HUMAN	743	0.085	11.976	-2.034	0.022	0.359	0.619
E S	sp_P17927_CR1_HUMAN	744	0.577	67.636	-0.228	0.022	0.359	0.619
E R	sp_P17927_CR1_HUMAN	745	0.547	125.194	-0.389	0.020	0.205	0.775
E V	sp_P17927_CR1_HUMAN	746	0.490	75.267	-0.806	0.020	0.205	0.775
E C	sp_P17927_CR1_HUMAN	747	0.333	46.725	-1.246	0.020	0.205	0.775
E Q	sp_P17927_CR1_HUMAN	748	0.400	71.369	-1.558	0.004	0.138	0.858
E P	sp_P17927_CR1_HUMAN	749	0.542	76.924	-1.313	0.005	0.015	0.979
E P	sp_P17927_CR1_HUMAN	750	0.302	42.840	-1.148	0.003	0.003	0.994
E P	sp_P17927_CR1_HUMAN	751	0.547	77.605	-2.349	0.016	0.005	0.979
E D	sp_P17927_CR1_HUMAN	752	0.607	87.469	-1.671	0.016	0.005	0.979
B V	sp_P17927_CR1_HUMAN	753	0.136	20.949	-1.352	0.016	0.005	0.979
E L	sp_P17927_CR1_HUMAN	754	0.502	91.989	-1.855	0.005	0.015	0.979
E H	sp_P17927_CR1_HUMAN	755	0.552	100.463	-2.117	0.005	0.015	0.979
E A	sp_P17927_CR1_HUMAN	756	0.387	42.636	-2.494	0.005	0.045	0.951
E E	sp_P17927_CR1_HUMAN	757	0.369	64.429	-1.912	0.004	0.197	0.799
B R	sp_P17927_CR1_HUMAN	758	0.275	62.929	-1.029	0.004	0.616	0.381
B T	sp_P17927_CR1_HUMAN	759	0.231	32.081	-1.922	0.003	0.718	0.279
B Q	sp_P17927_CR1_HUMAN	760	0.274	48.901	-1.536	0.023	0.655	0.322
E R	sp_P17927_CR1_HUMAN	761	0.301	68.883	-1.420	0.022	0.359	0.619
E D	sp_P17927_CR1_HUMAN	762	0.537	77.411	-1.744	0.004	0.138	0.858
E K	sp_P17927_CR1_HUMAN	763	0.600	123.461	-1.542	0.018	0.047	0.935
E D	sp_P17927_CR1_HUMAN	764	0.566	81.589	-2.020	0.018	0.088	0.893
E N	sp_P17927_CR1_HUMAN	765	0.493	72.131	-1.448	0.004	0.197	0.799
B F	sp_P17927_CR1_HUMAN	766	0.117	23.462	-1.089	0.004	0.197	0.799
E S	sp_P17927_CR1_HUMAN	767	0.516	60.475	-0.358	0.004	0.197	0.799
E P	sp_P17927_CR1_HUMAN	768	0.346	49.112	-0.869	0.004	0.138	0.858

E G	sp_P17927_CR1_HUMAN	769	0.563	44.284	-1.910	0.005	0.045	0.951
E Q	sp_P17927_CR1_HUMAN	770	0.403	72.029	-1.282	0.004	0.138	0.858
E E	sp_P17927_CR1_HUMAN	771	0.446	77.846	0.981	0.002	0.816	0.182
B V	sp_P17927_CR1_HUMAN	772	0.046	7.024	0.554	0.001	0.900	0.099
E F	sp_P17927_CR1_HUMAN	773	0.372	74.640	1.351	0.011	0.918	0.071
B Y	sp_P17927_CR1_HUMAN	774	0.057	12.181	0.184	0.011	0.918	0.071
E S	sp_P17927_CR1_HUMAN	775	0.377	44.220	1.066	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	776	0.021	2.948	0.571	0.004	0.514	0.481
E E	sp_P17927_CR1_HUMAN	777	0.527	92.119	1.066	0.004	0.138	0.858
E P	sp_P17927_CR1_HUMAN	778	0.687	97.457	0.066	0.018	0.019	0.964
E G	sp_P17927_CR1_HUMAN	779	0.418	32.904	-1.357	0.018	0.019	0.964
B Y	sp_P17927_CR1_HUMAN	780	0.113	24.191	0.007	0.021	0.279	0.699
E D	sp_P17927_CR1_HUMAN	781	0.485	69.961	0.374	0.003	0.718	0.279
B L	sp_P17927_CR1_HUMAN	782	0.178	32.519	-0.968	0.023	0.655	0.322
E R	sp_P17927_CR1_HUMAN	783	0.481	110.263	-0.328	0.005	0.336	0.660
E G	sp_P17927_CR1_HUMAN	784	0.605	47.621	-2.214	0.004	0.085	0.910
E A	sp_P17927_CR1_HUMAN	785	0.580	63.971	-1.403	0.005	0.015	0.979
E A	sp_P17927_CR1_HUMAN	786	0.583	64.236	-0.639	0.004	0.197	0.799
E S	sp_P17927_CR1_HUMAN	787	0.391	45.802	0.379	0.003	0.718	0.279
B M	sp_P17927_CR1_HUMAN	788	0.155	31.096	0.441	0.018	0.846	0.136
E R	sp_P17927_CR1_HUMAN	789	0.291	66.662	0.684	0.011	0.918	0.071
B C	sp_P17927_CR1_HUMAN	790	0.034	4.717	-1.026	0.018	0.846	0.136
B T	sp_P17927_CR1_HUMAN	791	0.258	35.812	-0.135	0.022	0.552	0.426
E P	sp_P17927_CR1_HUMAN	792	0.612	86.814	-1.245	0.019	0.141	0.840
E Q	sp_P17927_CR1_HUMAN	793	0.628	112.214	-1.198	0.018	0.019	0.964
B G	sp_P17927_CR1_HUMAN	794	0.266	20.966	-0.744	0.018	0.047	0.935
E D	sp_P17927_CR1_HUMAN	795	0.622	89.630	-0.216	0.022	0.552	0.426
B W	sp_P17927_CR1_HUMAN	796	0.151	36.388	-1.373	0.022	0.552	0.426
E S	sp_P17927_CR1_HUMAN	797	0.443	51.955	-1.055	0.021	0.279	0.699
E P	sp_P17927_CR1_HUMAN	798	0.469	66.594	-2.153	0.018	0.088	0.893
E A	sp_P17927_CR1_HUMAN	799	0.598	65.944	-1.691	0.018	0.047	0.935
E A	sp_P17927_CR1_HUMAN	800	0.419	46.185	-0.737	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	801	0.461	65.473	-1.198	0.004	0.085	0.910
E T	sp_P17927_CR1_HUMAN	802	0.390	54.135	-1.023	0.005	0.262	0.733
E C	sp_P17927_CR1_HUMAN	803	0.277	38.891	-1.751	0.004	0.420	0.576
E E	sp_P17927_CR1_HUMAN	804	0.501	87.560	-0.762	0.022	0.552	0.426
E V	sp_P17927_CR1_HUMAN	805	0.475	72.977	-0.791	0.022	0.552	0.426
E K	sp_P17927_CR1_HUMAN	806	0.407	83.658	-0.414	0.021	0.451	0.528
E S	sp_P17927_CR1_HUMAN	807	0.431	50.490	-0.660	0.021	0.451	0.528
B C	sp_P17927_CR1_HUMAN	808	0.192	26.887	-1.396	0.022	0.359	0.619
E D	sp_P17927_CR1_HUMAN	809	0.494	71.185	-1.728	0.022	0.359	0.619
E D	sp_P17927_CR1_HUMAN	810	0.479	69.038	-1.517	0.020	0.205	0.775
B F	sp_P17927_CR1_HUMAN	811	0.250	50.215	-1.984	0.019	0.141	0.840
E M	sp_P17927_CR1_HUMAN	812	0.571	114.317	-2.125	0.018	0.047	0.935
E G	sp_P17927_CR1_HUMAN	813	0.468	36.816	-2.272	0.018	0.047	0.935
E Q	sp_P17927_CR1_HUMAN	814	0.498	88.996	-1.864	0.018	0.047	0.935
E L	sp_P17927_CR1_HUMAN	815	0.397	72.727	-1.804	0.018	0.047	0.935
E L	sp_P17927_CR1_HUMAN	816	0.549	100.467	-2.289	0.005	0.045	0.951
E N	sp_P17927_CR1_HUMAN	817	0.396	57.989	-2.611	0.005	0.045	0.951
B G	sp_P17927_CR1_HUMAN	818	0.298	23.437	-2.398	0.005	0.336	0.660
B R	sp_P17927_CR1_HUMAN	819	0.239	54.777	-2.321	0.004	0.616	0.381
B V	sp_P17927_CR1_HUMAN	820	0.200	30.801	-1.343	0.021	0.756	0.223
E L	sp_P17927_CR1_HUMAN	821	0.336	61.577	-1.800	0.022	0.552	0.426
E F	sp_P17927_CR1_HUMAN	822	0.339	68.138	-1.198	0.021	0.279	0.699
E P	sp_P17927_CR1_HUMAN	823	0.598	84.885	-1.604	0.018	0.088	0.893
E V	sp_P17927_CR1_HUMAN	824	0.540	82.952	-2.016	0.018	0.088	0.893
E N	sp_P17927_CR1_HUMAN	825	0.613	89.699	-0.926	0.020	0.205	0.775
B L	sp_P17927_CR1_HUMAN	826	0.122	22.393	-0.420	0.005	0.262	0.733
E Q	sp_P17927_CR1_HUMAN	827	0.540	96.390	-0.065	0.005	0.336	0.660
E L	sp_P17927_CR1_HUMAN	828	0.324	59.306	-0.754	0.005	0.336	0.660
E G	sp_P17927_CR1_HUMAN	829	0.588	46.252	-1.685	0.004	0.085	0.910

E A	sp_P17927_CR1_HUMAN	830	0.333	36.642	-1.316	0.004	0.197	0.799
E K	sp_P17927_CR1_HUMAN	831	0.455	93.676	1.165	0.002	0.816	0.182
B V	sp_P17927_CR1_HUMAN	832	0.038	5.825	-0.141	0.001	0.900	0.099
E D	sp_P17927_CR1_HUMAN	833	0.322	46.429	1.128	0.011	0.918	0.071
B F	sp_P17927_CR1_HUMAN	834	0.066	13.146	-0.429	0.011	0.918	0.071
E V	sp_P17927_CR1_HUMAN	835	0.420	64.554	0.476	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	836	0.039	5.419	-0.618	0.004	0.514	0.481
E D	sp_P17927_CR1_HUMAN	837	0.554	79.831	-0.164	0.004	0.085	0.910
E E	sp_P17927_CR1_HUMAN	838	0.702	122.727	-0.661	0.005	0.015	0.979
E G	sp_P17927_CR1_HUMAN	839	0.420	33.046	-1.425	0.018	0.047	0.935
B F	sp_P17927_CR1_HUMAN	840	0.125	25.067	-0.161	0.022	0.359	0.619
E Q	sp_P17927_CR1_HUMAN	841	0.469	83.710	-0.292	0.002	0.816	0.182
B L	sp_P17927_CR1_HUMAN	842	0.174	31.823	-1.449	0.021	0.756	0.223
E K	sp_P17927_CR1_HUMAN	843	0.512	105.380	-0.681	0.021	0.451	0.528
E G	sp_P17927_CR1_HUMAN	844	0.515	40.554	-2.111	0.004	0.085	0.910
E S	sp_P17927_CR1_HUMAN	845	0.641	75.125	-1.493	0.005	0.045	0.951
E S	sp_P17927_CR1_HUMAN	846	0.634	74.352	-0.327	0.004	0.197	0.799
E A	sp_P17927_CR1_HUMAN	847	0.428	47.199	0.025	0.004	0.514	0.481
E S	sp_P17927_CR1_HUMAN	848	0.331	38.758	0.535	0.004	0.616	0.381
E Y	sp_P17927_CR1_HUMAN	849	0.410	87.638	0.738	0.021	0.756	0.223
B C	sp_P17927_CR1_HUMAN	850	0.061	8.635	-0.430	0.021	0.756	0.223
E V	sp_P17927_CR1_HUMAN	851	0.401	61.634	-0.049	0.021	0.756	0.223
E L	sp_P17927_CR1_HUMAN	852	0.330	60.386	-1.220	0.022	0.552	0.426
E A	sp_P17927_CR1_HUMAN	853	0.442	48.719	-0.728	0.021	0.279	0.699
E G	sp_P17927_CR1_HUMAN	854	0.397	31.260	-1.785	0.019	0.141	0.840
E M	sp_P17927_CR1_HUMAN	855	0.587	117.479	-2.131	0.019	0.141	0.840
E E	sp_P17927_CR1_HUMAN	856	0.567	98.985	-1.791	0.019	0.141	0.840
B S	sp_P17927_CR1_HUMAN	857	0.219	25.714	-2.144	0.004	0.197	0.799
E L	sp_P17927_CR1_HUMAN	858	0.567	103.836	-0.725	0.004	0.420	0.576
B W	sp_P17927_CR1_HUMAN	859	0.236	56.686	-1.425	0.005	0.336	0.660
E N	sp_P17927_CR1_HUMAN	860	0.327	47.844	-1.829	0.004	0.138	0.858
E S	sp_P17927_CR1_HUMAN	861	0.588	68.925	-2.388	0.005	0.045	0.951
E S	sp_P17927_CR1_HUMAN	862	0.635	74.445	-1.535	0.018	0.019	0.964
B V	sp_P17927_CR1_HUMAN	863	0.258	39.685	-1.309	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	864	0.357	50.658	-1.297	0.018	0.019	0.964
E V	sp_P17927_CR1_HUMAN	865	0.487	74.806	-0.970	0.018	0.047	0.935
E C	sp_P17927_CR1_HUMAN	866	0.543	76.307	-1.435	0.018	0.088	0.893
E E	sp_P17927_CR1_HUMAN	867	0.485	84.660	-1.363	0.018	0.088	0.893
E Q	sp_P17927_CR1_HUMAN	868	0.450	80.406	-0.898	0.020	0.205	0.775
E I	sp_P17927_CR1_HUMAN	869	0.454	83.934	-0.669	0.022	0.359	0.619
E F	sp_P17927_CR1_HUMAN	870	0.561	112.653	-0.522	0.022	0.359	0.619
B C	sp_P17927_CR1_HUMAN	871	0.219	30.748	-2.032	0.018	0.088	0.893
E P	sp_P17927_CR1_HUMAN	872	0.529	75.093	-1.872	0.018	0.047	0.935
E S	sp_P17927_CR1_HUMAN	873	0.576	67.519	-1.261	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	874	0.337	47.778	-1.235	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	875	0.470	66.665	-2.077	0.018	0.047	0.935
E V	sp_P17927_CR1_HUMAN	876	0.535	82.199	-1.132	0.018	0.088	0.893
B I	sp_P17927_CR1_HUMAN	877	0.190	35.150	-1.312	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	878	0.645	91.582	-1.791	0.005	0.045	0.951
E N	sp_P17927_CR1_HUMAN	879	0.548	80.300	-1.635	0.005	0.045	0.951
B G	sp_P17927_CR1_HUMAN	880	0.224	17.660	-3.145	0.004	0.085	0.910
E R	sp_P17927_CR1_HUMAN	881	0.431	98.676	-1.214	0.004	0.420	0.576
B H	sp_P17927_CR1_HUMAN	882	0.289	52.569	-1.178	0.003	0.718	0.279
E T	sp_P17927_CR1_HUMAN	883	0.282	39.127	-1.953	0.023	0.655	0.322
B G	sp_P17927_CR1_HUMAN	884	0.208	16.362	-2.641	0.022	0.359	0.619
E K	sp_P17927_CR1_HUMAN	885	0.534	109.864	-1.593	0.020	0.205	0.775
E P	sp_P17927_CR1_HUMAN	886	0.513	72.766	-1.812	0.019	0.141	0.840
E L	sp_P17927_CR1_HUMAN	887	0.563	103.049	-1.619	0.018	0.047	0.935
E E	sp_P17927_CR1_HUMAN	888	0.618	108.034	-2.741	0.019	0.141	0.840
E V	sp_P17927_CR1_HUMAN	889	0.512	78.771	-1.178	0.021	0.279	0.699
B F	sp_P17927_CR1_HUMAN	890	0.136	27.335	-0.952	0.022	0.359	0.619

E P	sp_P17927_CR1_HUMAN	891	0.513	72.851	-0.795	0.005	0.336	0.660
E F	sp_P17927_CR1_HUMAN	892	0.348	69.864	-0.967	0.004	0.197	0.799
E G	sp_P17927_CR1_HUMAN	893	0.524	41.215	-1.770	0.005	0.045	0.951
E K	sp_P17927_CR1_HUMAN	894	0.544	111.839	-1.587	0.004	0.138	0.858
E A	sp_P17927_CR1_HUMAN	895	0.487	53.656	0.060	0.004	0.616	0.381
B V	sp_P17927_CR1_HUMAN	896	0.060	9.191	-0.387	0.002	0.816	0.182
E N	sp_P17927_CR1_HUMAN	897	0.339	49.630	0.088	0.018	0.846	0.136
B Y	sp_P17927_CR1_HUMAN	898	0.092	19.703	-0.410	0.018	0.846	0.136
E T	sp_P17927_CR1_HUMAN	899	0.440	61.042	-0.073	0.021	0.756	0.223
B C	sp_P17927_CR1_HUMAN	900	0.045	6.374	-1.416	0.021	0.451	0.528
E D	sp_P17927_CR1_HUMAN	901	0.537	77.411	-0.319	0.022	0.359	0.619
E P	sp_P17927_CR1_HUMAN	902	0.506	71.816	-1.797	0.019	0.141	0.840
E H	sp_P17927_CR1_HUMAN	903	0.422	76.689	-1.865	0.018	0.088	0.893
B P	sp_P17927_CR1_HUMAN	904	0.279	39.618	-1.321	0.018	0.088	0.893
E D	sp_P17927_CR1_HUMAN	905	0.603	86.820	-1.649	0.019	0.141	0.840
E R	sp_P17927_CR1_HUMAN	906	0.343	78.593	-1.566	0.018	0.088	0.893
E G	sp_P17927_CR1_HUMAN	907	0.393	30.898	-2.112	0.018	0.088	0.893
E T	sp_P17927_CR1_HUMAN	908	0.650	90.155	-2.117	0.018	0.047	0.935
E S	sp_P17927_CR1_HUMAN	909	0.454	53.174	-1.556	0.019	0.141	0.840
E F	sp_P17927_CR1_HUMAN	910	0.307	61.535	-1.105	0.020	0.205	0.775
E D	sp_P17927_CR1_HUMAN	911	0.517	74.456	-1.199	0.021	0.279	0.699
B L	sp_P17927_CR1_HUMAN	912	0.210	38.506	-1.603	0.021	0.279	0.699
E I	sp_P17927_CR1_HUMAN	913	0.475	87.894	-1.461	0.005	0.262	0.733
E G	sp_P17927_CR1_HUMAN	914	0.391	30.772	-2.122	0.004	0.138	0.858
E E	sp_P17927_CR1_HUMAN	915	0.522	91.228	-1.711	0.004	0.085	0.910
E S	sp_P17927_CR1_HUMAN	916	0.467	54.779	-1.207	0.004	0.197	0.799
E T	sp_P17927_CR1_HUMAN	917	0.384	53.316	-0.595	0.004	0.514	0.481
B I	sp_P17927_CR1_HUMAN	918	0.168	31.061	-0.379	0.004	0.616	0.381
E R	sp_P17927_CR1_HUMAN	919	0.317	72.570	-0.812	0.021	0.756	0.223
B C	sp_P17927_CR1_HUMAN	920	0.088	12.355	-1.226	0.021	0.756	0.223
E T	sp_P17927_CR1_HUMAN	921	0.416	57.741	-0.454	0.023	0.655	0.322
E S	sp_P17927_CR1_HUMAN	922	0.363	42.497	-1.689	0.022	0.359	0.619
E D	sp_P17927_CR1_HUMAN	923	0.493	70.984	-1.648	0.019	0.141	0.840
E P	sp_P17927_CR1_HUMAN	924	0.506	71.844	-2.139	0.018	0.047	0.935
E Q	sp_P17927_CR1_HUMAN	925	0.454	80.995	-1.331	0.018	0.088	0.893
E G	sp_P17927_CR1_HUMAN	926	0.519	40.845	-1.335	0.019	0.141	0.840
E N	sp_P17927_CR1_HUMAN	927	0.533	77.958	-1.838	0.019	0.141	0.840
E G	sp_P17927_CR1_HUMAN	928	0.268	21.123	-1.822	0.019	0.141	0.840
E V	sp_P17927_CR1_HUMAN	929	0.527	81.015	-0.720	0.022	0.359	0.619
B W	sp_P17927_CR1_HUMAN	930	0.245	58.874	-1.244	0.022	0.359	0.619
E S	sp_P17927_CR1_HUMAN	931	0.493	57.721	-1.977	0.020	0.205	0.775
E S	sp_P17927_CR1_HUMAN	932	0.522	61.214	-1.993	0.004	0.085	0.910
E P	sp_P17927_CR1_HUMAN	933	0.593	84.218	-1.616	0.005	0.015	0.979
E A	sp_P17927_CR1_HUMAN	934	0.468	51.618	-0.588	0.005	0.015	0.979
E P	sp_P17927_CR1_HUMAN	935	0.484	68.651	-0.587	0.004	0.085	0.910
E R	sp_P17927_CR1_HUMAN	936	0.424	97.027	-0.069	0.005	0.262	0.733
E C	sp_P17927_CR1_HUMAN	937	0.299	41.994	-0.967	0.005	0.336	0.660
E G	sp_P17927_CR1_HUMAN	938	0.540	42.474	-0.447	0.022	0.359	0.619
E I	sp_P17927_CR1_HUMAN	939	0.500	92.518	-0.459	0.021	0.451	0.528
E L	sp_P17927_CR1_HUMAN	940	0.382	70.036	-0.158	0.022	0.552	0.426
E G	sp_P17927_CR1_HUMAN	941	0.521	41.003	-0.470	0.021	0.451	0.528
E H	sp_P17927_CR1_HUMAN	942	0.471	85.711	-0.878	0.020	0.205	0.775
E C	sp_P17927_CR1_HUMAN	943	0.404	56.694	-1.080	0.019	0.141	0.840
E Q	sp_P17927_CR1_HUMAN	944	0.543	97.033	-1.186	0.019	0.141	0.840
E A	sp_P17927_CR1_HUMAN	945	0.416	45.788	-0.515	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	946	0.476	67.573	-1.241	0.005	0.015	0.979
E D	sp_P17927_CR1_HUMAN	947	0.536	77.194	-1.720	0.018	0.019	0.964
E H	sp_P17927_CR1_HUMAN	948	0.570	103.756	-0.890	0.018	0.019	0.964
E F	sp_P17927_CR1_HUMAN	949	0.275	55.273	-1.996	0.018	0.047	0.935
E L	sp_P17927_CR1_HUMAN	950	0.660	120.828	-1.640	0.005	0.045	0.951
E F	sp_P17927_CR1_HUMAN	951	0.483	96.918	-2.243	0.004	0.085	0.910

E A	sp_P17927_CR1_HUMAN	952	0.374	41.204	-2.290	0.004	0.085	0.910
E K	sp_P17927_CR1_HUMAN	953	0.479	98.613	-1.653	0.004	0.197	0.799
B L	sp_P17927_CR1_HUMAN	954	0.200	36.565	-1.325	0.005	0.336	0.660
E K	sp_P17927_CR1_HUMAN	955	0.434	89.233	-1.846	0.022	0.552	0.426
B T	sp_P17927_CR1_HUMAN	956	0.233	32.386	-2.509	0.021	0.451	0.528
E Q	sp_P17927_CR1_HUMAN	957	0.354	63.278	-1.620	0.021	0.279	0.699
E T	sp_P17927_CR1_HUMAN	958	0.426	59.100	-1.629	0.018	0.088	0.893
E N	sp_P17927_CR1_HUMAN	959	0.585	85.644	-1.847	0.018	0.047	0.935
E A	sp_P17927_CR1_HUMAN	960	0.612	67.475	-1.801	0.018	0.047	0.935
E S	sp_P17927_CR1_HUMAN	961	0.453	53.068	-1.515	0.018	0.047	0.935
E D	sp_P17927_CR1_HUMAN	962	0.480	69.139	-1.175	0.019	0.141	0.840
B F	sp_P17927_CR1_HUMAN	963	0.131	26.392	-0.703	0.004	0.197	0.799
E P	sp_P17927_CR1_HUMAN	964	0.522	74.058	-1.021	0.004	0.197	0.799
E I	sp_P17927_CR1_HUMAN	965	0.439	81.252	-1.206	0.004	0.138	0.858
E G	sp_P17927_CR1_HUMAN	966	0.610	48.038	-1.495	0.005	0.045	0.951
E T	sp_P17927_CR1_HUMAN	967	0.318	44.120	-0.643	0.004	0.197	0.799
E S	sp_P17927_CR1_HUMAN	968	0.408	47.853	1.014	0.002	0.816	0.182
B L	sp_P17927_CR1_HUMAN	969	0.057	10.345	0.633	0.001	0.900	0.099
E K	sp_P17927_CR1_HUMAN	970	0.345	71.049	0.868	0.011	0.918	0.071
B Y	sp_P17927_CR1_HUMAN	971	0.057	12.095	0.162	0.011	0.918	0.071
E E	sp_P17927_CR1_HUMAN	972	0.418	73.007	0.680	0.002	0.816	0.182
B C	sp_P17927_CR1_HUMAN	973	0.033	4.661	-1.231	0.021	0.451	0.528
E R	sp_P17927_CR1_HUMAN	974	0.552	126.431	0.174	0.018	0.088	0.893
E P	sp_P17927_CR1_HUMAN	975	0.681	96.691	-0.920	0.018	0.047	0.935
E E	sp_P17927_CR1_HUMAN	976	0.436	76.204	-1.596	0.018	0.047	0.935
B Y	sp_P17927_CR1_HUMAN	977	0.118	25.152	-0.816	0.021	0.279	0.699
E Y	sp_P17927_CR1_HUMAN	978	0.443	94.584	-0.670	0.023	0.655	0.322
B G	sp_P17927_CR1_HUMAN	979	0.242	19.045	-1.935	0.004	0.420	0.576
E R	sp_P17927_CR1_HUMAN	980	0.566	129.614	-1.382	0.004	0.197	0.799
E P	sp_P17927_CR1_HUMAN	981	0.602	85.466	-2.802	0.005	0.045	0.951
E F	sp_P17927_CR1_HUMAN	982	0.484	97.219	-1.842	0.004	0.138	0.858
E S	sp_P17927_CR1_HUMAN	983	0.432	50.572	-0.310	0.004	0.514	0.481
B I	sp_P17927_CR1_HUMAN	984	0.220	40.792	0.203	0.021	0.756	0.223
E T	sp_P17927_CR1_HUMAN	985	0.260	36.020	0.316	0.018	0.846	0.136
B C	sp_P17927_CR1_HUMAN	986	0.062	8.691	-1.005	0.023	0.655	0.322
B L	sp_P17927_CR1_HUMAN	987	0.168	30.761	-0.494	0.021	0.451	0.528
E D	sp_P17927_CR1_HUMAN	988	0.508	73.145	-1.327	0.018	0.088	0.893
E N	sp_P17927_CR1_HUMAN	989	0.575	84.253	-1.669	0.016	0.005	0.979
E L	sp_P17927_CR1_HUMAN	990	0.414	75.785	-2.091	0.018	0.019	0.964
E V	sp_P17927_CR1_HUMAN	991	0.574	88.239	-1.044	0.021	0.279	0.699
E W	sp_P17927_CR1_HUMAN	992	0.271	65.200	-0.821	0.022	0.359	0.619
E S	sp_P17927_CR1_HUMAN	993	0.526	61.635	-1.861	0.020	0.205	0.775
E S	sp_P17927_CR1_HUMAN	994	0.589	69.054	-1.560	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	995	0.541	76.810	-1.157	0.018	0.047	0.935
E K	sp_P17927_CR1_HUMAN	996	0.511	105.174	-0.278	0.018	0.047	0.935
E D	sp_P17927_CR1_HUMAN	997	0.345	49.657	-1.003	0.005	0.045	0.951
E V	sp_P17927_CR1_HUMAN	998	0.495	76.081	-0.157	0.004	0.197	0.799
B C	sp_P17927_CR1_HUMAN	999	0.135	18.940	-2.820	0.005	0.336	0.660
E K	sp_P17927_CR1_HUMAN	1000	0.596	122.659	-0.676	0.022	0.359	0.619
E R	sp_P17927_CR1_HUMAN	1001	0.583	133.599	-1.291	0.021	0.279	0.699
E K	sp_P17927_CR1_HUMAN	1002	0.449	92.380	-0.348	0.021	0.279	0.699
E S	sp_P17927_CR1_HUMAN	1003	0.560	65.585	-0.328	0.021	0.279	0.699
B C	sp_P17927_CR1_HUMAN	1004	0.084	11.822	-2.014	0.019	0.141	0.840
E K	sp_P17927_CR1_HUMAN	1005	0.594	122.124	-1.222	0.018	0.047	0.935
E T	sp_P17927_CR1_HUMAN	1006	0.528	73.275	-1.080	0.018	0.019	0.964
B P	sp_P17927_CR1_HUMAN	1007	0.166	23.499	-2.443	0.016	0.005	0.979
E P	sp_P17927_CR1_HUMAN	1008	0.531	75.377	-2.548	0.018	0.019	0.964
E D	sp_P17927_CR1_HUMAN	1009	0.426	61.372	-1.036	0.018	0.019	0.964
B P	sp_P17927_CR1_HUMAN	1010	0.220	31.232	-1.525	0.005	0.045	0.951
E V	sp_P17927_CR1_HUMAN	1011	0.622	95.586	-2.318	0.005	0.015	0.979
E N	sp_P17927_CR1_HUMAN	1012	0.509	74.444	-2.451	0.005	0.015	0.979

B G	sp_P17927_CR1_HUMAN	1013	0.228	17.967	-3.690	0.004	0.138	0.858
E M	sp_P17927_CR1_HUMAN	1014	0.386	77.299	-1.242	0.004	0.616	0.381
B V	sp_P17927_CR1_HUMAN	1015	0.216	33.245	-1.010	0.002	0.816	0.182
E H	sp_P17927_CR1_HUMAN	1016	0.383	69.668	-1.027	0.023	0.655	0.322
E V	sp_P17927_CR1_HUMAN	1017	0.316	48.492	-1.392	0.022	0.359	0.619
E I	sp_P17927_CR1_HUMAN	1018	0.471	87.116	-1.403	0.019	0.141	0.840
E T	sp_P17927_CR1_HUMAN	1019	0.629	87.173	-1.995	0.018	0.088	0.893
E D	sp_P17927_CR1_HUMAN	1020	0.576	83.059	-1.273	0.018	0.088	0.893
B I	sp_P17927_CR1_HUMAN	1021	0.122	22.607	-0.141	0.004	0.138	0.858
E Q	sp_P17927_CR1_HUMAN	1022	0.559	99.766	-0.520	0.004	0.197	0.799
E V	sp_P17927_CR1_HUMAN	1023	0.352	54.149	-0.766	0.004	0.138	0.858
E G	sp_P17927_CR1_HUMAN	1024	0.510	40.168	-1.801	0.005	0.045	0.951
E S	sp_P17927_CR1_HUMAN	1025	0.322	37.727	-1.541	0.004	0.138	0.858
E R	sp_P17927_CR1_HUMAN	1026	0.461	105.638	1.368	0.002	0.816	0.182
B I	sp_P17927_CR1_HUMAN	1027	0.044	8.103	0.101	0.001	0.959	0.040
E N	sp_P17927_CR1_HUMAN	1028	0.360	52.748	1.338	0.001	0.959	0.040
B Y	sp_P17927_CR1_HUMAN	1029	0.052	11.070	0.175	0.001	0.959	0.040
E S	sp_P17927_CR1_HUMAN	1030	0.418	48.966	1.001	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	1031	0.025	3.482	0.384	0.004	0.514	0.481
E T	sp_P17927_CR1_HUMAN	1032	0.510	70.682	0.697	0.005	0.045	0.951
E T	sp_P17927_CR1_HUMAN	1033	0.680	94.344	-0.349	0.005	0.015	0.979
E G	sp_P17927_CR1_HUMAN	1034	0.417	32.810	-1.673	0.018	0.019	0.964
B H	sp_P17927_CR1_HUMAN	1035	0.140	25.502	-0.469	0.004	0.197	0.799
E R	sp_P17927_CR1_HUMAN	1036	0.460	105.340	-0.220	0.003	0.718	0.279
B L	sp_P17927_CR1_HUMAN	1037	0.229	41.893	-1.460	0.023	0.655	0.322
E I	sp_P17927_CR1_HUMAN	1038	0.425	78.681	-0.440	0.004	0.420	0.576
E G	sp_P17927_CR1_HUMAN	1039	0.571	44.953	-2.394	0.004	0.138	0.858
E H	sp_P17927_CR1_HUMAN	1040	0.579	105.266	-1.944	0.018	0.047	0.935
E S	sp_P17927_CR1_HUMAN	1041	0.615	72.113	-0.679	0.004	0.197	0.799
E S	sp_P17927_CR1_HUMAN	1042	0.382	44.747	0.001	0.004	0.514	0.481
B A	sp_P17927_CR1_HUMAN	1043	0.243	26.757	0.257	0.023	0.655	0.322
E E	sp_P17927_CR1_HUMAN	1044	0.377	65.775	0.772	0.021	0.756	0.223
B C	sp_P17927_CR1_HUMAN	1045	0.045	6.290	-1.026	0.021	0.756	0.223
E I	sp_P17927_CR1_HUMAN	1046	0.343	63.400	-0.498	0.023	0.655	0.322
E L	sp_P17927_CR1_HUMAN	1047	0.385	70.439	-1.245	0.022	0.552	0.426
E S	sp_P17927_CR1_HUMAN	1048	0.450	52.775	-1.059	0.021	0.279	0.699
E G	sp_P17927_CR1_HUMAN	1049	0.412	32.464	-1.558	0.018	0.088	0.893
E N	sp_P17927_CR1_HUMAN	1050	0.623	91.193	-1.444	0.019	0.141	0.840
E T	sp_P17927_CR1_HUMAN	1051	0.489	67.824	-1.129	0.020	0.205	0.775
E A	sp_P17927_CR1_HUMAN	1052	0.274	30.140	-1.694	0.004	0.138	0.858
E H	sp_P17927_CR1_HUMAN	1053	0.482	87.676	-1.312	0.004	0.197	0.799
B W	sp_P17927_CR1_HUMAN	1054	0.241	58.081	-1.419	0.004	0.138	0.858
E S	sp_P17927_CR1_HUMAN	1055	0.547	64.108	-1.782	0.005	0.045	0.951
E T	sp_P17927_CR1_HUMAN	1056	0.617	85.606	-2.344	0.005	0.015	0.979
E K	sp_P17927_CR1_HUMAN	1057	0.578	118.895	-1.738	0.005	0.015	0.979
E P	sp_P17927_CR1_HUMAN	1058	0.465	65.955	-0.879	0.005	0.015	0.979
E P	sp_P17927_CR1_HUMAN	1059	0.442	62.791	-0.409	0.005	0.045	0.951
E I	sp_P17927_CR1_HUMAN	1060	0.377	69.800	-0.567	0.004	0.138	0.858
E C	sp_P17927_CR1_HUMAN	1061	0.255	35.816	-1.771	0.005	0.336	0.660
E Q	sp_P17927_CR1_HUMAN	1062	0.579	103.374	-0.739	0.005	0.262	0.733
E R	sp_P17927_CR1_HUMAN	1063	0.542	124.049	-0.582	0.004	0.197	0.799
E I	sp_P17927_CR1_HUMAN	1064	0.403	74.536	-0.387	0.020	0.205	0.775
E P	sp_P17927_CR1_HUMAN	1065	0.608	86.275	-0.441	0.020	0.205	0.775
B C	sp_P17927_CR1_HUMAN	1066	0.094	13.198	-2.722	0.018	0.047	0.935
E G	sp_P17927_CR1_HUMAN	1067	0.672	52.910	-1.736	0.018	0.019	0.964
E L	sp_P17927_CR1_HUMAN	1068	0.577	105.612	-0.655	0.018	0.019	0.964
B P	sp_P17927_CR1_HUMAN	1069	0.222	31.445	-1.654	0.016	0.005	0.979
E P	sp_P17927_CR1_HUMAN	1070	0.575	81.635	-2.135	0.018	0.019	0.964
E T	sp_P17927_CR1_HUMAN	1071	0.511	70.931	-0.226	0.018	0.019	0.964
B I	sp_P17927_CR1_HUMAN	1072	0.090	16.595	-1.767	0.005	0.015	0.979
E A	sp_P17927_CR1_HUMAN	1073	0.710	78.220	-1.419	0.005	0.015	0.979

E N	sp_P17927_CR1_HUMAN	1074	0.594	86.991	-1.868	0.005	0.015	0.979
B G	sp_P17927_CR1_HUMAN	1075	0.138	10.821	-3.889	0.005	0.045	0.951
E D	sp_P17927_CR1_HUMAN	1076	0.492	70.854	-0.746	0.004	0.514	0.481
B F	sp_P17927_CR1_HUMAN	1077	0.185	37.150	-0.604	0.002	0.816	0.182
E I	sp_P17927_CR1_HUMAN	1078	0.333	61.605	-1.374	0.021	0.756	0.223
B S	sp_P17927_CR1_HUMAN	1079	0.174	20.381	-2.557	0.021	0.451	0.528
E T	sp_P17927_CR1_HUMAN	1080	0.521	72.221	-1.442	0.004	0.138	0.858
E N	sp_P17927_CR1_HUMAN	1081	0.527	77.138	-1.621	0.018	0.047	0.935
E R	sp_P17927_CR1_HUMAN	1082	0.586	134.148	-1.293	0.018	0.019	0.964
E E	sp_P17927_CR1_HUMAN	1083	0.649	113.293	-2.333	0.018	0.047	0.935
E N	sp_P17927_CR1_HUMAN	1084	0.502	73.478	-1.234	0.019	0.141	0.840
B F	sp_P17927_CR1_HUMAN	1085	0.153	30.647	-0.495	0.004	0.138	0.858
E H	sp_P17927_CR1_HUMAN	1086	0.513	93.351	-0.484	0.004	0.138	0.858
E Y	sp_P17927_CR1_HUMAN	1087	0.427	91.335	-0.756	0.004	0.138	0.858
E G	sp_P17927_CR1_HUMAN	1088	0.550	43.277	-1.754	0.005	0.045	0.951
E S	sp_P17927_CR1_HUMAN	1089	0.443	51.978	-1.327	0.004	0.085	0.910
E V	sp_P17927_CR1_HUMAN	1090	0.459	70.579	0.621	0.003	0.718	0.279
B V	sp_P17927_CR1_HUMAN	1091	0.088	13.602	0.603	0.002	0.816	0.182
E T	sp_P17927_CR1_HUMAN	1092	0.321	44.550	0.750	0.001	0.900	0.099
B Y	sp_P17927_CR1_HUMAN	1093	0.113	24.148	0.209	0.001	0.900	0.099
E R	sp_P17927_CR1_HUMAN	1094	0.439	100.554	1.186	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	1095	0.021	2.948	0.356	0.022	0.552	0.426
E N	sp_P17927_CR1_HUMAN	1096	0.525	76.831	0.629	0.021	0.279	0.699
E L	sp_P17927_CR1_HUMAN	1097	0.647	118.521	-1.424	0.005	0.045	0.951
E G	sp_P17927_CR1_HUMAN	1098	0.530	41.750	-1.790	0.018	0.047	0.935
E S	sp_P17927_CR1_HUMAN	1099	0.343	40.246	-1.695	0.018	0.088	0.893
E R	sp_P17927_CR1_HUMAN	1100	0.495	113.378	-1.420	0.020	0.205	0.775
E G	sp_P17927_CR1_HUMAN	1101	0.329	25.892	-2.144	0.018	0.088	0.893
E R	sp_P17927_CR1_HUMAN	1102	0.482	110.378	-1.891	0.018	0.088	0.893
E K	sp_P17927_CR1_HUMAN	1103	0.544	111.983	-1.917	0.019	0.141	0.840
E V	sp_P17927_CR1_HUMAN	1104	0.488	74.944	-1.942	0.020	0.205	0.775
B F	sp_P17927_CR1_HUMAN	1105	0.237	47.666	-1.744	0.022	0.359	0.619
E E	sp_P17927_CR1_HUMAN	1106	0.385	67.190	-1.519	0.022	0.359	0.619
B L	sp_P17927_CR1_HUMAN	1107	0.237	43.303	-1.860	0.022	0.359	0.619
E V	sp_P17927_CR1_HUMAN	1108	0.510	78.418	-1.942	0.021	0.279	0.699
E G	sp_P17927_CR1_HUMAN	1109	0.427	33.613	-2.080	0.019	0.141	0.840
E E	sp_P17927_CR1_HUMAN	1110	0.599	104.575	-1.935	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	1111	0.611	86.701	-1.450	0.018	0.088	0.893
E S	sp_P17927_CR1_HUMAN	1112	0.461	54.029	-0.672	0.005	0.336	0.660
B I	sp_P17927_CR1_HUMAN	1113	0.224	41.514	-0.271	0.004	0.420	0.576
E Y	sp_P17927_CR1_HUMAN	1114	0.362	77.381	0.412	0.021	0.756	0.223
B C	sp_P17927_CR1_HUMAN	1115	0.062	8.677	-0.628	0.021	0.756	0.223
B T	sp_P17927_CR1_HUMAN	1116	0.253	35.160	-1.060	0.021	0.756	0.223
B S	sp_P17927_CR1_HUMAN	1117	0.289	33.836	-1.391	0.023	0.655	0.322
E N	sp_P17927_CR1_HUMAN	1118	0.439	64.255	-0.999	0.021	0.279	0.699
E D	sp_P17927_CR1_HUMAN	1119	0.467	67.251	-1.872	0.018	0.088	0.893
E D	sp_P17927_CR1_HUMAN	1120	0.586	84.500	-1.518	0.018	0.019	0.964
E Q	sp_P17927_CR1_HUMAN	1121	0.603	107.696	-1.715	0.018	0.047	0.935
E V	sp_P17927_CR1_HUMAN	1122	0.446	68.473	-1.227	0.018	0.047	0.935
E G	sp_P17927_CR1_HUMAN	1123	0.289	22.744	-1.529	0.018	0.088	0.893
E I	sp_P17927_CR1_HUMAN	1124	0.487	90.021	-0.430	0.021	0.279	0.699
B W	sp_P17927_CR1_HUMAN	1125	0.177	42.665	-2.006	0.021	0.451	0.528
E S	sp_P17927_CR1_HUMAN	1126	0.476	55.775	-1.341	0.021	0.279	0.699
E G	sp_P17927_CR1_HUMAN	1127	0.487	38.295	-2.438	0.004	0.085	0.910
E P	sp_P17927_CR1_HUMAN	1128	0.667	94.704	-1.453	0.005	0.045	0.951
E A	sp_P17927_CR1_HUMAN	1129	0.512	56.466	-1.146	0.005	0.045	0.951
E P	sp_P17927_CR1_HUMAN	1130	0.381	53.993	-0.754	0.005	0.045	0.951
E Q	sp_P17927_CR1_HUMAN	1131	0.490	87.460	-0.104	0.005	0.262	0.733
B C	sp_P17927_CR1_HUMAN	1132	0.155	21.762	-1.049	0.004	0.420	0.576
E I	sp_P17927_CR1_HUMAN	1133	0.524	96.884	-0.189	0.021	0.451	0.528
E I	sp_P17927_CR1_HUMAN	1134	0.511	94.553	-0.511	0.022	0.359	0.619

E P	sp_P17927_CR1_HUMAN	1135	0.359	50.970	-0.570	0.021	0.279	0.699
E N	sp_P17927_CR1_HUMAN	1136	0.556	81.340	-1.053	0.022	0.359	0.619
E K	sp_P17927_CR1_HUMAN	1137	0.493	101.328	-0.982	0.021	0.279	0.699
E C	sp_P17927_CR1_HUMAN	1138	0.290	40.702	-1.846	0.019	0.141	0.840
E T	sp_P17927_CR1_HUMAN	1139	0.563	78.074	-1.694	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	1140	0.352	49.977	-0.983	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	1141	0.506	71.787	-1.825	0.018	0.019	0.964
E N	sp_P17927_CR1_HUMAN	1142	0.571	83.536	-0.980	0.018	0.047	0.935
B V	sp_P17927_CR1_HUMAN	1143	0.074	11.374	-1.327	0.005	0.015	0.979
E E	sp_P17927_CR1_HUMAN	1144	0.751	131.270	-1.001	0.005	0.015	0.979
E N	sp_P17927_CR1_HUMAN	1145	0.565	82.745	-1.940	0.005	0.015	0.979
B G	sp_P17927_CR1_HUMAN	1146	0.201	15.834	-3.398	0.005	0.045	0.951
E I	sp_P17927_CR1_HUMAN	1147	0.360	66.526	-1.445	0.005	0.262	0.733
B L	sp_P17927_CR1_HUMAN	1148	0.180	32.976	-1.326	0.003	0.718	0.279
B V	sp_P17927_CR1_HUMAN	1149	0.156	24.039	-2.235	0.021	0.756	0.223
B S	sp_P17927_CR1_HUMAN	1150	0.228	26.722	-1.772	0.022	0.552	0.426
E D	sp_P17927_CR1_HUMAN	1151	0.362	52.121	-2.076	0.021	0.279	0.699
E N	sp_P17927_CR1_HUMAN	1152	0.595	87.064	-2.617	0.018	0.088	0.893
E R	sp_P17927_CR1_HUMAN	1153	0.630	144.270	-2.121	0.018	0.047	0.935
E S	sp_P17927_CR1_HUMAN	1154	0.466	54.627	-2.281	0.018	0.088	0.893
E L	sp_P17927_CR1_HUMAN	1155	0.561	102.737	-1.098	0.021	0.279	0.699
B F	sp_P17927_CR1_HUMAN	1156	0.130	26.091	-1.240	0.005	0.262	0.733
E S	sp_P17927_CR1_HUMAN	1157	0.504	59.116	-0.485	0.004	0.197	0.799
E L	sp_P17927_CR1_HUMAN	1158	0.375	68.681	-1.015	0.004	0.138	0.858
E N	sp_P17927_CR1_HUMAN	1159	0.605	88.616	-1.044	0.005	0.045	0.951
E E	sp_P17927_CR1_HUMAN	1160	0.345	60.202	-1.064	0.004	0.197	0.799
E V	sp_P17927_CR1_HUMAN	1161	0.439	67.444	1.098	0.002	0.816	0.182
B V	sp_P17927_CR1_HUMAN	1162	0.061	9.345	0.435	0.001	0.959	0.040
E E	sp_P17927_CR1_HUMAN	1163	0.389	67.888	1.199	0.011	0.918	0.071
B F	sp_P17927_CR1_HUMAN	1164	0.059	11.881	0.188	0.011	0.918	0.071
E R	sp_P17927_CR1_HUMAN	1165	0.439	100.645	1.144	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	1166	0.023	3.271	0.558	0.022	0.359	0.619
E Q	sp_P17927_CR1_HUMAN	1167	0.532	95.015	0.738	0.005	0.045	0.951
E P	sp_P17927_CR1_HUMAN	1168	0.730	103.516	0.051	0.005	0.015	0.979
E G	sp_P17927_CR1_HUMAN	1169	0.400	31.464	-1.609	0.018	0.047	0.935
B F	sp_P17927_CR1_HUMAN	1170	0.109	21.816	-0.279	0.005	0.262	0.733
E V	sp_P17927_CR1_HUMAN	1171	0.483	74.206	-0.266	0.003	0.718	0.279
B M	sp_P17927_CR1_HUMAN	1172	0.140	28.114	-0.865	0.004	0.616	0.381
E K	sp_P17927_CR1_HUMAN	1173	0.467	96.000	-0.550	0.005	0.262	0.733
E G	sp_P17927_CR1_HUMAN	1174	0.515	40.507	-1.893	0.004	0.085	0.910
E P	sp_P17927_CR1_HUMAN	1175	0.676	95.939	-1.541	0.005	0.015	0.979
E R	sp_P17927_CR1_HUMAN	1176	0.490	112.256	-1.232	0.004	0.197	0.799
E R	sp_P17927_CR1_HUMAN	1177	0.368	84.203	0.067	0.004	0.616	0.381
B V	sp_P17927_CR1_HUMAN	1178	0.111	17.061	-0.486	0.002	0.816	0.182
E K	sp_P17927_CR1_HUMAN	1179	0.320	65.721	1.057	0.011	0.918	0.071
B C	sp_P17927_CR1_HUMAN	1180	0.022	3.033	-0.163	0.018	0.846	0.136
E Q	sp_P17927_CR1_HUMAN	1181	0.334	59.599	0.164	0.023	0.655	0.322
E A	sp_P17927_CR1_HUMAN	1182	0.502	55.320	-1.196	0.005	0.262	0.733
E L	sp_P17927_CR1_HUMAN	1183	0.627	114.822	-1.522	0.018	0.019	0.964
E N	sp_P17927_CR1_HUMAN	1184	0.436	63.786	-1.296	0.018	0.047	0.935
E K	sp_P17927_CR1_HUMAN	1185	0.562	115.706	-0.023	0.022	0.552	0.426
B W	sp_P17927_CR1_HUMAN	1186	0.210	50.433	-0.647	0.023	0.655	0.322
E E	sp_P17927_CR1_HUMAN	1187	0.500	87.280	-0.786	0.021	0.451	0.528
E P	sp_P17927_CR1_HUMAN	1188	0.565	80.145	-1.570	0.019	0.141	0.840
E E	sp_P17927_CR1_HUMAN	1189	0.651	113.695	-0.775	0.005	0.045	0.951
E L	sp_P17927_CR1_HUMAN	1190	0.442	80.949	-0.237	0.005	0.015	0.979
E P	sp_P17927_CR1_HUMAN	1191	0.435	61.741	-0.498	0.005	0.045	0.951
E S	sp_P17927_CR1_HUMAN	1192	0.482	56.502	0.376	0.021	0.279	0.699
B C	sp_P17927_CR1_HUMAN	1193	0.134	18.757	-1.355	0.021	0.451	0.528
E S	sp_P17927_CR1_HUMAN	1194	0.563	65.995	0.033	0.022	0.359	0.619
E R	sp_P17927_CR1_HUMAN	1195	0.635	145.438	-0.583	0.020	0.205	0.775

E V	sp_P17927_CR1_HUMAN	1196	0.497	76.358	-0.858	0.020	0.205	0.775
E C	sp_P17927_CR1_HUMAN	1197	0.351	49.238	-0.883	0.019	0.141	0.840
E Q	sp_P17927_CR1_HUMAN	1198	0.368	65.636	-1.270	0.005	0.045	0.951
E P	sp_P17927_CR1_HUMAN	1199	0.592	84.062	-1.534	0.005	0.015	0.979
E P	sp_P17927_CR1_HUMAN	1200	0.403	57.228	-1.129	0.016	0.005	0.979
E P	sp_P17927_CR1_HUMAN	1201	0.475	67.459	-2.162	0.016	0.005	0.979
E E	sp_P17927_CR1_HUMAN	1202	0.583	101.885	-1.654	0.018	0.019	0.964
B I	sp_P17927_CR1_HUMAN	1203	0.192	35.428	-0.947	0.018	0.047	0.935
E L	sp_P17927_CR1_HUMAN	1204	0.547	100.137	-1.869	0.018	0.047	0.935
E H	sp_P17927_CR1_HUMAN	1205	0.530	96.389	-2.247	0.018	0.047	0.935
B G	sp_P17927_CR1_HUMAN	1206	0.326	25.696	-2.962	0.005	0.045	0.951
E E	sp_P17927_CR1_HUMAN	1207	0.504	88.136	-1.164	0.004	0.420	0.576
B H	sp_P17927_CR1_HUMAN	1208	0.196	35.634	-0.477	0.003	0.718	0.279
E T	sp_P17927_CR1_HUMAN	1209	0.391	54.190	-1.497	0.023	0.655	0.322
B P	sp_P17927_CR1_HUMAN	1210	0.200	28.423	-1.887	0.022	0.359	0.619
E S	sp_P17927_CR1_HUMAN	1211	0.450	52.705	-1.546	0.005	0.262	0.733
E H	sp_P17927_CR1_HUMAN	1212	0.508	92.351	-1.353	0.004	0.138	0.858
E Q	sp_P17927_CR1_HUMAN	1213	0.504	89.979	-0.936	0.018	0.047	0.935
E D	sp_P17927_CR1_HUMAN	1214	0.604	87.065	-2.430	0.018	0.088	0.893
E N	sp_P17927_CR1_HUMAN	1215	0.489	71.560	-1.149	0.004	0.197	0.799
B F	sp_P17927_CR1_HUMAN	1216	0.104	20.793	-0.434	0.005	0.262	0.733
E S	sp_P17927_CR1_HUMAN	1217	0.548	64.179	0.000	0.004	0.197	0.799
E P	sp_P17927_CR1_HUMAN	1218	0.360	51.084	-0.705	0.004	0.197	0.799
E G	sp_P17927_CR1_HUMAN	1219	0.505	39.775	-1.410	0.005	0.045	0.951
E Q	sp_P17927_CR1_HUMAN	1220	0.446	79.602	-0.907	0.004	0.138	0.858
E E	sp_P17927_CR1_HUMAN	1221	0.429	75.016	1.421	0.002	0.816	0.182
B V	sp_P17927_CR1_HUMAN	1222	0.043	6.609	0.361	0.001	0.959	0.040
E F	sp_P17927_CR1_HUMAN	1223	0.372	74.741	1.333	0.001	0.959	0.040
B Y	sp_P17927_CR1_HUMAN	1224	0.056	11.903	0.320	0.001	0.959	0.040
E S	sp_P17927_CR1_HUMAN	1225	0.421	49.353	1.064	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	1226	0.021	2.948	0.736	0.004	0.514	0.481
E E	sp_P17927_CR1_HUMAN	1227	0.482	84.205	0.902	0.004	0.085	0.910
E P	sp_P17927_CR1_HUMAN	1228	0.681	96.705	-0.122	0.018	0.047	0.935
E G	sp_P17927_CR1_HUMAN	1229	0.440	34.644	-1.306	0.018	0.019	0.964
B Y	sp_P17927_CR1_HUMAN	1230	0.110	23.464	0.054	0.021	0.279	0.699
E D	sp_P17927_CR1_HUMAN	1231	0.522	75.148	0.607	0.021	0.756	0.223
B L	sp_P17927_CR1_HUMAN	1232	0.171	31.365	-0.414	0.023	0.655	0.322
E R	sp_P17927_CR1_HUMAN	1233	0.538	123.156	-0.099	0.004	0.197	0.799
E G	sp_P17927_CR1_HUMAN	1234	0.605	47.614	-1.855	0.005	0.045	0.951
E A	sp_P17927_CR1_HUMAN	1235	0.621	68.467	-1.185	0.005	0.015	0.979
E A	sp_P17927_CR1_HUMAN	1236	0.578	63.718	-0.226	0.004	0.138	0.858
E S	sp_P17927_CR1_HUMAN	1237	0.443	51.908	0.714	0.004	0.616	0.381
B L	sp_P17927_CR1_HUMAN	1238	0.132	24.206	0.370	0.002	0.816	0.182
E H	sp_P17927_CR1_HUMAN	1239	0.360	65.484	1.050	0.018	0.846	0.136
B C	sp_P17927_CR1_HUMAN	1240	0.040	5.686	-1.363	0.021	0.756	0.223
B T	sp_P17927_CR1_HUMAN	1241	0.233	32.373	-0.352	0.021	0.451	0.528
E P	sp_P17927_CR1_HUMAN	1242	0.584	82.855	-1.030	0.019	0.141	0.840
E Q	sp_P17927_CR1_HUMAN	1243	0.611	109.107	-1.433	0.018	0.019	0.964
E G	sp_P17927_CR1_HUMAN	1244	0.300	23.618	-1.290	0.018	0.047	0.935
E D	sp_P17927_CR1_HUMAN	1245	0.624	89.962	-0.333	0.021	0.451	0.528
B W	sp_P17927_CR1_HUMAN	1246	0.209	50.168	-0.745	0.021	0.451	0.528
E S	sp_P17927_CR1_HUMAN	1247	0.387	45.321	-0.856	0.022	0.359	0.619
E P	sp_P17927_CR1_HUMAN	1248	0.479	67.998	-1.885	0.019	0.141	0.840
E E	sp_P17927_CR1_HUMAN	1249	0.613	107.021	-1.190	0.018	0.088	0.893
E A	sp_P17927_CR1_HUMAN	1250	0.354	39.044	-0.269	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	1251	0.503	71.333	-0.855	0.018	0.047	0.935
E R	sp_P17927_CR1_HUMAN	1252	0.515	118.050	-0.373	0.018	0.088	0.893
B C	sp_P17927_CR1_HUMAN	1253	0.191	26.816	-2.350	0.004	0.197	0.799
E A	sp_P17927_CR1_HUMAN	1254	0.616	67.916	-1.139	0.021	0.279	0.699
E V	sp_P17927_CR1_HUMAN	1255	0.620	95.340	-0.214	0.005	0.336	0.660
E K	sp_P17927_CR1_HUMAN	1256	0.418	85.941	0.066	0.022	0.359	0.619

E S	sp_P17927_CR1_HUMAN	1257	0.575	67.425	-0.469	0.022	0.359	0.619
B C	sp_P17927_CR1_HUMAN	1258	0.152	21.355	-1.548	0.019	0.141	0.840
E D	sp_P17927_CR1_HUMAN	1259	0.600	86.402	-1.358	0.018	0.047	0.935
E D	sp_P17927_CR1_HUMAN	1260	0.553	79.731	-0.906	0.018	0.047	0.935
E F	sp_P17927_CR1_HUMAN	1261	0.355	71.269	-1.124	0.018	0.047	0.935
E L	sp_P17927_CR1_HUMAN	1262	0.587	107.516	-2.250	0.018	0.019	0.964
E G	sp_P17927_CR1_HUMAN	1263	0.474	37.304	-2.255	0.018	0.019	0.964
E Q	sp_P17927_CR1_HUMAN	1264	0.570	101.873	-1.960	0.018	0.019	0.964
E L	sp_P17927_CR1_HUMAN	1265	0.322	59.013	-1.692	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	1266	0.666	94.520	-2.158	0.005	0.015	0.979
E H	sp_P17927_CR1_HUMAN	1267	0.530	96.407	-2.166	0.005	0.045	0.951
B G	sp_P17927_CR1_HUMAN	1268	0.275	21.650	-2.363	0.004	0.197	0.799
E R	sp_P17927_CR1_HUMAN	1269	0.300	68.792	-1.305	0.004	0.616	0.381
B V	sp_P17927_CR1_HUMAN	1270	0.300	46.125	-1.143	0.003	0.718	0.279
E L	sp_P17927_CR1_HUMAN	1271	0.336	61.540	-1.700	0.023	0.655	0.322
E F	sp_P17927_CR1_HUMAN	1272	0.343	68.760	-1.337	0.022	0.359	0.619
E P	sp_P17927_CR1_HUMAN	1273	0.548	77.690	-2.148	0.018	0.088	0.893
E L	sp_P17927_CR1_HUMAN	1274	0.486	88.913	-2.052	0.018	0.088	0.893
E N	sp_P17927_CR1_HUMAN	1275	0.513	75.103	-0.951	0.020	0.205	0.775
B L	sp_P17927_CR1_HUMAN	1276	0.129	23.693	-0.864	0.020	0.205	0.775
E Q	sp_P17927_CR1_HUMAN	1277	0.477	85.264	-0.864	0.005	0.336	0.660
E L	sp_P17927_CR1_HUMAN	1278	0.344	62.950	-1.044	0.005	0.262	0.733
E G	sp_P17927_CR1_HUMAN	1279	0.506	39.783	-1.757	0.005	0.045	0.951
E A	sp_P17927_CR1_HUMAN	1280	0.465	51.221	-1.402	0.004	0.085	0.910
E K	sp_P17927_CR1_HUMAN	1281	0.489	100.546	0.751	0.003	0.718	0.279
B V	sp_P17927_CR1_HUMAN	1282	0.051	7.823	0.153	0.001	0.900	0.099
E S	sp_P17927_CR1_HUMAN	1283	0.358	42.004	0.710	0.011	0.918	0.071
B F	sp_P17927_CR1_HUMAN	1284	0.060	12.022	-0.509	0.011	0.918	0.071
E V	sp_P17927_CR1_HUMAN	1285	0.401	61.664	0.922	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	1286	0.028	3.959	-0.087	0.021	0.279	0.699
E D	sp_P17927_CR1_HUMAN	1287	0.554	79.774	0.464	0.005	0.015	0.979
E E	sp_P17927_CR1_HUMAN	1288	0.614	107.248	-0.727	0.018	0.019	0.964
E G	sp_P17927_CR1_HUMAN	1289	0.416	32.779	-1.396	0.018	0.019	0.964
B F	sp_P17927_CR1_HUMAN	1290	0.108	21.716	-0.499	0.022	0.359	0.619
E R	sp_P17927_CR1_HUMAN	1291	0.489	112.004	-0.146	0.003	0.718	0.279
B L	sp_P17927_CR1_HUMAN	1292	0.149	27.227	-0.788	0.021	0.756	0.223
E K	sp_P17927_CR1_HUMAN	1293	0.551	113.300	-0.716	0.021	0.451	0.528
E G	sp_P17927_CR1_HUMAN	1294	0.537	42.246	-2.124	0.004	0.085	0.910
E S	sp_P17927_CR1_HUMAN	1295	0.699	81.981	-1.465	0.005	0.015	0.979
E S	sp_P17927_CR1_HUMAN	1296	0.607	71.176	-1.002	0.004	0.138	0.858
E V	sp_P17927_CR1_HUMAN	1297	0.484	74.375	-0.239	0.004	0.616	0.381
E S	sp_P17927_CR1_HUMAN	1298	0.252	29.546	-0.163	0.003	0.718	0.279
E H	sp_P17927_CR1_HUMAN	1299	0.352	64.065	0.881	0.018	0.846	0.136
B C	sp_P17927_CR1_HUMAN	1300	0.047	6.571	-0.981	0.021	0.756	0.223
E V	sp_P17927_CR1_HUMAN	1301	0.351	53.887	-0.096	0.021	0.756	0.223
E L	sp_P17927_CR1_HUMAN	1302	0.325	59.507	-1.068	0.022	0.552	0.426
E V	sp_P17927_CR1_HUMAN	1303	0.370	56.946	-0.996	0.021	0.279	0.699
E G	sp_P17927_CR1_HUMAN	1304	0.378	29.788	-1.574	0.018	0.088	0.893
E M	sp_P17927_CR1_HUMAN	1305	0.701	140.350	-1.388	0.018	0.047	0.935
E R	sp_P17927_CR1_HUMAN	1306	0.620	142.026	-1.692	0.018	0.047	0.935
E S	sp_P17927_CR1_HUMAN	1307	0.330	38.735	-1.329	0.019	0.141	0.840
E L	sp_P17927_CR1_HUMAN	1308	0.586	107.260	-0.773	0.022	0.359	0.619
B W	sp_P17927_CR1_HUMAN	1309	0.223	53.680	-0.930	0.022	0.359	0.619
E N	sp_P17927_CR1_HUMAN	1310	0.479	70.126	-1.442	0.004	0.138	0.858
E N	sp_P17927_CR1_HUMAN	1311	0.608	88.997	-1.444	0.005	0.015	0.979
E S	sp_P17927_CR1_HUMAN	1312	0.697	81.630	-0.422	0.005	0.015	0.979
E V	sp_P17927_CR1_HUMAN	1313	0.420	64.493	-0.401	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	1314	0.307	43.521	-1.242	0.005	0.045	0.951
E V	sp_P17927_CR1_HUMAN	1315	0.446	68.566	-0.056	0.005	0.262	0.733
B C	sp_P17927_CR1_HUMAN	1316	0.162	22.745	-1.418	0.004	0.420	0.576
E E	sp_P17927_CR1_HUMAN	1317	0.558	97.500	-0.038	0.021	0.451	0.528

E H	sp_P17927_CR1_HUMAN	1318	0.351	63.829	-0.935	0.022	0.359	0.619
E I	sp_P17927_CR1_HUMAN	1319	0.436	80.604	-0.083	0.021	0.451	0.528
E F	sp_P17927_CR1_HUMAN	1320	0.595	119.497	-0.895	0.022	0.552	0.426
E C	sp_P17927_CR1_HUMAN	1321	0.293	41.095	-0.984	0.021	0.279	0.699
E P	sp_P17927_CR1_HUMAN	1322	0.450	63.784	-1.646	0.019	0.141	0.840
E N	sp_P17927_CR1_HUMAN	1323	0.531	77.724	-1.368	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	1324	0.378	53.681	-1.256	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	1325	0.468	66.452	-1.793	0.018	0.019	0.964
E A	sp_P17927_CR1_HUMAN	1326	0.485	53.480	-0.943	0.018	0.047	0.935
B I	sp_P17927_CR1_HUMAN	1327	0.145	26.899	-1.798	0.018	0.047	0.935
E L	sp_P17927_CR1_HUMAN	1328	0.582	106.491	-1.157	0.018	0.088	0.893
E N	sp_P17927_CR1_HUMAN	1329	0.476	69.745	-1.679	0.004	0.085	0.910
E G	sp_P17927_CR1_HUMAN	1330	0.311	24.460	-2.727	0.004	0.085	0.910
E R	sp_P17927_CR1_HUMAN	1331	0.512	117.317	-1.444	0.005	0.336	0.660
B H	sp_P17927_CR1_HUMAN	1332	0.219	39.872	-0.900	0.004	0.616	0.381
E T	sp_P17927_CR1_HUMAN	1333	0.370	51.388	-1.699	0.023	0.655	0.322
B G	sp_P17927_CR1_HUMAN	1334	0.253	19.880	-2.437	0.021	0.451	0.528
E T	sp_P17927_CR1_HUMAN	1335	0.450	62.457	-1.973	0.021	0.279	0.699
E P	sp_P17927_CR1_HUMAN	1336	0.442	62.663	-1.667	0.004	0.138	0.858
E S	sp_P17927_CR1_HUMAN	1337	0.593	69.476	-1.613	0.018	0.047	0.935
E G	sp_P17927_CR1_HUMAN	1338	0.540	42.482	-2.211	0.018	0.088	0.893
E D	sp_P17927_CR1_HUMAN	1339	0.522	75.163	-1.897	0.020	0.205	0.775
B I	sp_P17927_CR1_HUMAN	1340	0.156	28.804	-0.911	0.004	0.420	0.576
E P	sp_P17927_CR1_HUMAN	1341	0.541	76.796	-0.522	0.004	0.514	0.481
E Y	sp_P17927_CR1_HUMAN	1342	0.283	60.498	-1.020	0.005	0.336	0.660
E G	sp_P17927_CR1_HUMAN	1343	0.506	39.806	-1.794	0.004	0.197	0.799
E K	sp_P17927_CR1_HUMAN	1344	0.516	106.079	-1.299	0.005	0.262	0.733
E E	sp_P17927_CR1_HUMAN	1345	0.509	88.957	-0.570	0.004	0.420	0.576
E I	sp_P17927_CR1_HUMAN	1346	0.294	54.334	-0.216	0.004	0.514	0.481
E S	sp_P17927_CR1_HUMAN	1347	0.402	47.103	-0.660	0.003	0.718	0.279
B Y	sp_P17927_CR1_HUMAN	1348	0.105	22.374	-0.730	0.018	0.846	0.136
E T	sp_P17927_CR1_HUMAN	1349	0.459	63.677	-0.086	0.018	0.846	0.136
B C	sp_P17927_CR1_HUMAN	1350	0.065	9.126	-2.053	0.022	0.552	0.426
E D	sp_P17927_CR1_HUMAN	1351	0.497	71.618	-0.946	0.021	0.279	0.699
E P	sp_P17927_CR1_HUMAN	1352	0.571	80.954	-2.157	0.018	0.088	0.893
E H	sp_P17927_CR1_HUMAN	1353	0.494	89.859	-2.090	0.018	0.088	0.893
E P	sp_P17927_CR1_HUMAN	1354	0.304	43.095	-1.735	0.019	0.141	0.840
E D	sp_P17927_CR1_HUMAN	1355	0.584	84.126	-1.189	0.020	0.205	0.775
E R	sp_P17927_CR1_HUMAN	1356	0.398	91.028	-1.517	0.019	0.141	0.840
E G	sp_P17927_CR1_HUMAN	1357	0.525	41.286	-2.397	0.018	0.088	0.893
E M	sp_P17927_CR1_HUMAN	1358	0.560	112.116	-1.968	0.018	0.088	0.893
E T	sp_P17927_CR1_HUMAN	1359	0.518	71.888	-1.533	0.019	0.141	0.840
B F	sp_P17927_CR1_HUMAN	1360	0.232	46.562	-1.242	0.021	0.279	0.699
E N	sp_P17927_CR1_HUMAN	1361	0.450	65.807	-1.149	0.021	0.279	0.699
B L	sp_P17927_CR1_HUMAN	1362	0.253	46.251	-2.218	0.019	0.141	0.840
E I	sp_P17927_CR1_HUMAN	1363	0.558	103.230	-1.387	0.019	0.141	0.840
E G	sp_P17927_CR1_HUMAN	1364	0.439	34.581	-1.328	0.018	0.088	0.893
E E	sp_P17927_CR1_HUMAN	1365	0.636	111.074	-1.805	0.018	0.047	0.935
E S	sp_P17927_CR1_HUMAN	1366	0.546	64.015	-1.205	0.004	0.138	0.858
E T	sp_P17927_CR1_HUMAN	1367	0.416	57.685	-0.312	0.022	0.359	0.619
B I	sp_P17927_CR1_HUMAN	1368	0.156	28.823	-0.367	0.021	0.451	0.528
E R	sp_P17927_CR1_HUMAN	1369	0.397	90.890	0.116	0.022	0.552	0.426
B C	sp_P17927_CR1_HUMAN	1370	0.055	7.708	-2.527	0.021	0.451	0.528
E T	sp_P17927_CR1_HUMAN	1371	0.430	59.710	-0.719	0.021	0.451	0.528
E S	sp_P17927_CR1_HUMAN	1372	0.507	59.420	-1.755	0.020	0.205	0.775
E D	sp_P17927_CR1_HUMAN	1373	0.541	77.900	-1.599	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	1374	0.535	75.860	-2.268	0.018	0.019	0.964
E H	sp_P17927_CR1_HUMAN	1375	0.544	98.990	-1.442	0.018	0.047	0.935
E G	sp_P17927_CR1_HUMAN	1376	0.295	23.216	-0.971	0.019	0.141	0.840
E N	sp_P17927_CR1_HUMAN	1377	0.358	52.411	-1.010	0.020	0.205	0.775
E G	sp_P17927_CR1_HUMAN	1378	0.356	28.009	-0.700	0.021	0.279	0.699

E V	sp_P17927_CR1_HUMAN	1379	0.423	65.030	-1.728	0.021	0.279	0.699
B W	sp_P17927_CR1_HUMAN	1380	0.235	56.445	-2.096	0.004	0.138	0.858
E S	sp_P17927_CR1_HUMAN	1381	0.469	55.002	-2.318	0.004	0.085	0.910
E S	sp_P17927_CR1_HUMAN	1382	0.463	54.322	-2.160	0.005	0.015	0.979
E P	sp_P17927_CR1_HUMAN	1383	0.472	67.019	-1.487	0.018	0.019	0.964
E A	sp_P17927_CR1_HUMAN	1384	0.524	57.789	-1.778	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	1385	0.376	53.340	-1.329	0.018	0.047	0.935
E R	sp_P17927_CR1_HUMAN	1386	0.359	82.097	-1.440	0.019	0.141	0.840
E C	sp_P17927_CR1_HUMAN	1387	0.292	40.941	-1.147	0.020	0.205	0.775
E E	sp_P17927_CR1_HUMAN	1388	0.423	73.933	-0.871	0.004	0.197	0.799
E L	sp_P17927_CR1_HUMAN	1389	0.346	63.316	-1.755	0.005	0.262	0.733
E S	sp_P17927_CR1_HUMAN	1390	0.412	48.322	-0.933	0.005	0.336	0.660
E V	sp_P17927_CR1_HUMAN	1391	0.317	48.723	-2.128	0.021	0.451	0.528
E R	sp_P17927_CR1_HUMAN	1392	0.466	106.645	-1.026	0.021	0.451	0.528
E A	sp_P17927_CR1_HUMAN	1393	0.330	36.388	-1.805	0.021	0.279	0.699
E G	sp_P17927_CR1_HUMAN	1394	0.536	42.160	-1.045	0.005	0.262	0.733
E H	sp_P17927_CR1_HUMAN	1395	0.618	112.323	-0.723	0.005	0.262	0.733
B C	sp_P17927_CR1_HUMAN	1396	0.118	16.623	-1.957	0.004	0.085	0.910
E K	sp_P17927_CR1_HUMAN	1397	0.643	132.224	-1.543	0.005	0.045	0.951
E T	sp_P17927_CR1_HUMAN	1398	0.467	64.717	-0.847	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	1399	0.287	40.669	-1.825	0.018	0.019	0.964
E E	sp_P17927_CR1_HUMAN	1400	0.585	102.165	-2.387	0.018	0.019	0.964
E Q	sp_P17927_CR1_HUMAN	1401	0.364	64.993	-1.076	0.018	0.088	0.893
B F	sp_P17927_CR1_HUMAN	1402	0.190	38.233	-1.660	0.018	0.088	0.893
E P	sp_P17927_CR1_HUMAN	1403	0.550	78.002	-1.862	0.019	0.141	0.840
E F	sp_P17927_CR1_HUMAN	1404	0.458	91.941	-2.135	0.004	0.138	0.858
E A	sp_P17927_CR1_HUMAN	1405	0.378	41.667	-2.917	0.004	0.085	0.910
E S	sp_P17927_CR1_HUMAN	1406	0.432	50.677	-1.908	0.005	0.262	0.733
B P	sp_P17927_CR1_HUMAN	1407	0.295	41.903	-1.394	0.004	0.420	0.576
E T	sp_P17927_CR1_HUMAN	1408	0.498	69.045	-1.408	0.022	0.552	0.426
B I	sp_P17927_CR1_HUMAN	1409	0.151	27.898	-2.133	0.021	0.451	0.528
E P	sp_P17927_CR1_HUMAN	1410	0.372	52.773	-1.475	0.022	0.359	0.619
B I	sp_P17927_CR1_HUMAN	1411	0.307	56.776	-1.993	0.020	0.205	0.775
E N	sp_P17927_CR1_HUMAN	1412	0.555	81.252	-2.136	0.018	0.047	0.935
E D	sp_P17927_CR1_HUMAN	1413	0.557	80.307	-2.256	0.018	0.047	0.935
E F	sp_P17927_CR1_HUMAN	1414	0.462	92.764	-1.970	0.019	0.141	0.840
E E	sp_P17927_CR1_HUMAN	1415	0.510	89.062	-1.639	0.019	0.141	0.840
B F	sp_P17927_CR1_HUMAN	1416	0.121	24.204	-0.788	0.004	0.138	0.858
E P	sp_P17927_CR1_HUMAN	1417	0.552	78.343	-0.978	0.004	0.138	0.858
E V	sp_P17927_CR1_HUMAN	1418	0.354	54.471	-1.080	0.004	0.085	0.910
E G	sp_P17927_CR1_HUMAN	1419	0.528	41.593	-1.564	0.005	0.015	0.979
E T	sp_P17927_CR1_HUMAN	1420	0.360	49.987	-1.566	0.004	0.138	0.858
E S	sp_P17927_CR1_HUMAN	1421	0.365	42.743	0.526	0.002	0.816	0.182
B L	sp_P17927_CR1_HUMAN	1422	0.057	10.363	-0.550	0.001	0.900	0.099
E N	sp_P17927_CR1_HUMAN	1423	0.280	41.036	0.537	0.011	0.918	0.071
B Y	sp_P17927_CR1_HUMAN	1424	0.114	24.298	-0.398	0.011	0.918	0.071
E E	sp_P17927_CR1_HUMAN	1425	0.352	61.564	-0.360	0.003	0.718	0.279
B C	sp_P17927_CR1_HUMAN	1426	0.034	4.760	-0.681	0.021	0.279	0.699
E R	sp_P17927_CR1_HUMAN	1427	0.440	100.668	0.294	0.018	0.088	0.893
E P	sp_P17927_CR1_HUMAN	1428	0.586	83.111	-1.246	0.018	0.019	0.964
E G	sp_P17927_CR1_HUMAN	1429	0.403	31.724	-2.285	0.018	0.019	0.964
B Y	sp_P17927_CR1_HUMAN	1430	0.112	23.849	-0.979	0.019	0.141	0.840
E F	sp_P17927_CR1_HUMAN	1431	0.424	85.057	-0.749	0.021	0.451	0.528
E G	sp_P17927_CR1_HUMAN	1432	0.307	24.161	-1.505	0.022	0.359	0.619
E K	sp_P17927_CR1_HUMAN	1433	0.528	108.610	-1.419	0.004	0.197	0.799
E M	sp_P17927_CR1_HUMAN	1434	0.597	119.540	-2.428	0.005	0.045	0.951
E F	sp_P17927_CR1_HUMAN	1435	0.482	96.717	-1.200	0.004	0.085	0.910
E S	sp_P17927_CR1_HUMAN	1436	0.515	60.381	-0.609	0.005	0.336	0.660
E I	sp_P17927_CR1_HUMAN	1437	0.287	53.021	0.198	0.021	0.451	0.528
E S	sp_P17927_CR1_HUMAN	1438	0.336	39.414	0.550	0.023	0.655	0.322
B C	sp_P17927_CR1_HUMAN	1439	0.079	11.049	-0.919	0.023	0.655	0.322

B	L	sp_P17927_CR1_HUMAN	1440	0.272	49.840	-0.157	0.023	0.655	0.322
E	E	sp_P17927_CR1_HUMAN	1441	0.512	89.534	-1.354	0.021	0.279	0.699
E	N	sp_P17927_CR1_HUMAN	1442	0.575	84.180	-1.438	0.018	0.047	0.935
E	L	sp_P17927_CR1_HUMAN	1443	0.334	61.119	-1.499	0.018	0.047	0.935
E	V	sp_P17927_CR1_HUMAN	1444	0.611	93.957	-0.975	0.004	0.197	0.799
B	W	sp_P17927_CR1_HUMAN	1445	0.221	53.126	-1.309	0.004	0.197	0.799
E	S	sp_P17927_CR1_HUMAN	1446	0.402	47.126	-1.194	0.004	0.085	0.910
E	S	sp_P17927_CR1_HUMAN	1447	0.528	61.870	-1.668	0.018	0.047	0.935
E	V	sp_P17927_CR1_HUMAN	1448	0.544	83.659	-1.585	0.018	0.019	0.964
E	E	sp_P17927_CR1_HUMAN	1449	0.566	98.915	-0.434	0.018	0.019	0.964
E	D	sp_P17927_CR1_HUMAN	1450	0.336	48.475	-0.973	0.018	0.047	0.935
E	N	sp_P17927_CR1_HUMAN	1451	0.482	70.609	-0.025	0.019	0.141	0.840
B	C	sp_P17927_CR1_HUMAN	1452	0.153	21.495	-1.878	0.022	0.359	0.619
E	R	sp_P17927_CR1_HUMAN	1453	0.501	114.706	-0.414	0.022	0.359	0.619
E	R	sp_P17927_CR1_HUMAN	1454	0.561	128.355	-0.535	0.021	0.279	0.699
E	K	sp_P17927_CR1_HUMAN	1455	0.430	88.389	-0.074	0.021	0.279	0.699
E	S	sp_P17927_CR1_HUMAN	1456	0.528	61.835	-0.058	0.022	0.359	0.619
B	C	sp_P17927_CR1_HUMAN	1457	0.050	7.076	-2.289	0.019	0.141	0.840
E	G	sp_P17927_CR1_HUMAN	1458	0.638	50.226	-0.898	0.018	0.019	0.964
E	P	sp_P17927_CR1_HUMAN	1459	0.507	71.943	-0.565	0.005	0.015	0.979
B	P	sp_P17927_CR1_HUMAN	1460	0.175	24.861	-2.069	0.018	0.019	0.964
E	P	sp_P17927_CR1_HUMAN	1461	0.506	71.858	-1.815	0.018	0.047	0.935
E	E	sp_P17927_CR1_HUMAN	1462	0.438	76.571	-0.848	0.018	0.088	0.893
B	P	sp_P17927_CR1_HUMAN	1463	0.262	37.220	-1.592	0.004	0.085	0.910
E	F	sp_P17927_CR1_HUMAN	1464	0.620	124.414	-2.588	0.005	0.045	0.951
E	N	sp_P17927_CR1_HUMAN	1465	0.579	84.707	-2.497	0.005	0.045	0.951
B	G	sp_P17927_CR1_HUMAN	1466	0.276	21.753	-2.217	0.004	0.138	0.858
E	M	sp_P17927_CR1_HUMAN	1467	0.464	92.806	-1.004	0.004	0.616	0.381
B	V	sp_P17927_CR1_HUMAN	1468	0.131	20.119	-0.335	0.002	0.816	0.182
E	H	sp_P17927_CR1_HUMAN	1469	0.464	84.474	-0.873	0.021	0.756	0.223
B	I	sp_P17927_CR1_HUMAN	1470	0.240	44.363	-1.123	0.022	0.552	0.426
E	N	sp_P17927_CR1_HUMAN	1471	0.494	72.351	-1.345	0.019	0.141	0.840
E	T	sp_P17927_CR1_HUMAN	1472	0.654	90.765	-2.222	0.018	0.047	0.935
E	D	sp_P17927_CR1_HUMAN	1473	0.612	88.146	-1.197	0.018	0.088	0.893
B	T	sp_P17927_CR1_HUMAN	1474	0.143	19.848	-0.269	0.005	0.262	0.733
E	Q	sp_P17927_CR1_HUMAN	1475	0.524	93.604	-0.521	0.005	0.336	0.660
B	F	sp_P17927_CR1_HUMAN	1476	0.211	42.408	-0.232	0.005	0.336	0.660
E	G	sp_P17927_CR1_HUMAN	1477	0.496	39.059	-0.918	0.004	0.197	0.799
E	S	sp_P17927_CR1_HUMAN	1478	0.355	41.559	-1.028	0.005	0.336	0.660
E	T	sp_P17927_CR1_HUMAN	1479	0.448	62.193	0.915	0.001	0.900	0.099
B	V	sp_P17927_CR1_HUMAN	1480	0.037	5.625	-0.126	0.001	0.959	0.040
E	N	sp_P17927_CR1_HUMAN	1481	0.386	56.569	1.060	0.011	0.918	0.071
B	Y	sp_P17927_CR1_HUMAN	1482	0.051	10.835	0.233	0.011	0.918	0.071
E	S	sp_P17927_CR1_HUMAN	1483	0.472	55.260	1.045	0.001	0.900	0.099
B	C	sp_P17927_CR1_HUMAN	1484	0.025	3.496	0.241	0.022	0.359	0.619
E	N	sp_P17927_CR1_HUMAN	1485	0.587	85.937	0.814	0.004	0.085	0.910
E	E	sp_P17927_CR1_HUMAN	1486	0.745	130.169	-0.462	0.005	0.015	0.979
E	G	sp_P17927_CR1_HUMAN	1487	0.439	34.565	-1.953	0.018	0.019	0.964
B	F	sp_P17927_CR1_HUMAN	1488	0.160	32.052	-0.522	0.019	0.141	0.840
E	R	sp_P17927_CR1_HUMAN	1489	0.504	115.530	-0.281	0.021	0.451	0.528
B	L	sp_P17927_CR1_HUMAN	1490	0.220	40.300	-1.586	0.022	0.359	0.619
E	I	sp_P17927_CR1_HUMAN	1491	0.451	83.435	-1.127	0.004	0.138	0.858
E	G	sp_P17927_CR1_HUMAN	1492	0.533	41.947	-2.311	0.004	0.085	0.910
E	S	sp_P17927_CR1_HUMAN	1493	0.609	71.410	-2.072	0.005	0.015	0.979
E	P	sp_P17927_CR1_HUMAN	1494	0.603	85.594	-1.852	0.004	0.085	0.910
E	S	sp_P17927_CR1_HUMAN	1495	0.419	49.083	-0.647	0.005	0.336	0.660
B	T	sp_P17927_CR1_HUMAN	1496	0.274	37.962	-0.201	0.004	0.514	0.481
B	T	sp_P17927_CR1_HUMAN	1497	0.261	36.159	-0.048	0.003	0.718	0.279
B	C	sp_P17927_CR1_HUMAN	1498	0.079	11.078	-1.137	0.021	0.756	0.223
B	L	sp_P17927_CR1_HUMAN	1499	0.280	51.305	-0.769	0.021	0.756	0.223
B	V	sp_P17927_CR1_HUMAN	1500	0.285	43.743	-1.793	0.021	0.756	0.223

B	S	sp_P17927_CR1_HUMAN	1501	0.288	33.777	-0.637	0.021	0.451	0.528
E	G	sp_P17927_CR1_HUMAN	1502	0.320	25.168	-1.921	0.018	0.088	0.893
E	N	sp_P17927_CR1_HUMAN	1503	0.678	99.318	-1.679	0.018	0.019	0.964
E	N	sp_P17927_CR1_HUMAN	1504	0.582	85.146	-1.710	0.018	0.047	0.935
E	V	sp_P17927_CR1_HUMAN	1505	0.376	57.791	-1.542	0.019	0.141	0.840
E	T	sp_P17927_CR1_HUMAN	1506	0.578	80.127	-0.539	0.005	0.262	0.733
B	W	sp_P17927_CR1_HUMAN	1507	0.173	41.655	-1.371	0.005	0.262	0.733
E	D	sp_P17927_CR1_HUMAN	1508	0.541	77.900	-1.533	0.004	0.138	0.858
E	K	sp_P17927_CR1_HUMAN	1509	0.602	123.790	-2.194	0.005	0.045	0.951
E	K	sp_P17927_CR1_HUMAN	1510	0.691	142.077	-0.763	0.005	0.015	0.979
E	A	sp_P17927_CR1_HUMAN	1511	0.451	49.678	-0.856	0.005	0.015	0.979
E	P	sp_P17927_CR1_HUMAN	1512	0.403	57.143	-0.566	0.005	0.045	0.951
E	I	sp_P17927_CR1_HUMAN	1513	0.382	70.725	-0.508	0.004	0.197	0.799
B	C	sp_P17927_CR1_HUMAN	1514	0.204	28.585	-1.814	0.022	0.359	0.619
E	E	sp_P17927_CR1_HUMAN	1515	0.483	84.415	-0.608	0.021	0.451	0.528
E	I	sp_P17927_CR1_HUMAN	1516	0.485	89.799	-0.752	0.021	0.451	0.528
B	I	sp_P17927_CR1_HUMAN	1517	0.250	46.194	-1.075	0.022	0.359	0.619
E	S	sp_P17927_CR1_HUMAN	1518	0.437	51.216	-1.251	0.022	0.359	0.619
B	C	sp_P17927_CR1_HUMAN	1519	0.289	40.576	-1.924	0.020	0.205	0.775
E	E	sp_P17927_CR1_HUMAN	1520	0.516	90.075	-1.367	0.018	0.088	0.893
E	P	sp_P17927_CR1_HUMAN	1521	0.519	73.575	-1.461	0.018	0.047	0.935
B	P	sp_P17927_CR1_HUMAN	1522	0.277	39.250	-1.556	0.018	0.019	0.964
E	P	sp_P17927_CR1_HUMAN	1523	0.460	65.260	-2.566	0.018	0.019	0.964
E	T	sp_P17927_CR1_HUMAN	1524	0.491	68.143	-0.652	0.018	0.047	0.935
B	I	sp_P17927_CR1_HUMAN	1525	0.102	18.815	-1.930	0.005	0.045	0.951
E	S	sp_P17927_CR1_HUMAN	1526	0.725	85.005	-1.398	0.005	0.045	0.951
E	N	sp_P17927_CR1_HUMAN	1527	0.635	93.023	-2.450	0.005	0.015	0.979
E	G	sp_P17927_CR1_HUMAN	1528	0.327	25.735	-2.388	0.004	0.085	0.910
E	D	sp_P17927_CR1_HUMAN	1529	0.529	76.243	-0.973	0.004	0.420	0.576
B	F	sp_P17927_CR1_HUMAN	1530	0.223	44.836	-0.679	0.002	0.816	0.182
E	Y	sp_P17927_CR1_HUMAN	1531	0.374	79.945	-1.374	0.021	0.756	0.223
B	S	sp_P17927_CR1_HUMAN	1532	0.252	29.476	-2.272	0.022	0.359	0.619
E	N	sp_P17927_CR1_HUMAN	1533	0.521	76.333	-1.537	0.004	0.197	0.799
E	N	sp_P17927_CR1_HUMAN	1534	0.526	77.036	-1.063	0.004	0.138	0.858
E	R	sp_P17927_CR1_HUMAN	1535	0.597	136.713	-1.407	0.004	0.085	0.910
E	T	sp_P17927_CR1_HUMAN	1536	0.580	80.446	-2.030	0.020	0.205	0.775
E	S	sp_P17927_CR1_HUMAN	1537	0.501	58.705	-0.958	0.020	0.205	0.775
B	F	sp_P17927_CR1_HUMAN	1538	0.117	23.522	-0.627	0.019	0.141	0.840
E	H	sp_P17927_CR1_HUMAN	1539	0.568	103.356	-0.418	0.019	0.141	0.840
E	N	sp_P17927_CR1_HUMAN	1540	0.472	69.115	-1.042	0.004	0.138	0.858
E	G	sp_P17927_CR1_HUMAN	1541	0.543	42.734	-2.349	0.005	0.045	0.951
E	T	sp_P17927_CR1_HUMAN	1542	0.331	45.924	-1.933	0.004	0.138	0.858
E	V	sp_P17927_CR1_HUMAN	1543	0.425	65.261	0.012	0.004	0.616	0.381
B	V	sp_P17927_CR1_HUMAN	1544	0.106	16.215	-0.493	0.003	0.718	0.279
E	T	sp_P17927_CR1_HUMAN	1545	0.321	44.467	-0.443	0.021	0.756	0.223
B	Y	sp_P17927_CR1_HUMAN	1546	0.132	28.208	-1.279	0.021	0.756	0.223
E	Q	sp_P17927_CR1_HUMAN	1547	0.355	63.349	-1.429	0.022	0.552	0.426
B	C	sp_P17927_CR1_HUMAN	1548	0.040	5.686	-2.279	0.020	0.205	0.775
E	H	sp_P17927_CR1_HUMAN	1549	0.516	93.806	-0.870	0.019	0.141	0.840
E	T	sp_P17927_CR1_HUMAN	1550	0.496	68.795	-1.740	0.018	0.047	0.935
E	G	sp_P17927_CR1_HUMAN	1551	0.357	28.135	-2.266	0.018	0.019	0.964
E	P	sp_P17927_CR1_HUMAN	1552	0.378	53.610	-2.043	0.018	0.047	0.935
E	D	sp_P17927_CR1_HUMAN	1553	0.459	66.214	-1.486	0.018	0.088	0.893
E	G	sp_P17927_CR1_HUMAN	1554	0.396	31.197	-2.047	0.018	0.047	0.935
E	E	sp_P17927_CR1_HUMAN	1555	0.567	99.072	-2.172	0.018	0.047	0.935
E	Q	sp_P17927_CR1_HUMAN	1556	0.601	107.303	-1.737	0.018	0.088	0.893
E	L	sp_P17927_CR1_HUMAN	1557	0.490	89.701	-1.370	0.004	0.085	0.910
B	F	sp_P17927_CR1_HUMAN	1558	0.222	44.455	-1.055	0.004	0.197	0.799
E	E	sp_P17927_CR1_HUMAN	1559	0.452	79.052	-1.185	0.005	0.262	0.733
B	L	sp_P17927_CR1_HUMAN	1560	0.177	32.464	-2.200	0.005	0.262	0.733
E	V	sp_P17927_CR1_HUMAN	1561	0.533	81.845	-1.813	0.005	0.336	0.660

E G	sp_P17927_CR1_HUMAN	1562	0.398	31.338	-1.969	0.004	0.197	0.799
E E	sp_P17927_CR1_HUMAN	1563	0.555	96.993	-1.806	0.004	0.138	0.858
E R	sp_P17927_CR1_HUMAN	1564	0.466	106.645	-1.685	0.005	0.262	0.733
E S	sp_P17927_CR1_HUMAN	1565	0.440	51.533	-0.357	0.004	0.514	0.481
B I	sp_P17927_CR1_HUMAN	1566	0.182	33.670	-1.295	0.022	0.552	0.426
E Y	sp_P17927_CR1_HUMAN	1567	0.347	74.175	-0.107	0.021	0.756	0.223
B C	sp_P17927_CR1_HUMAN	1568	0.092	12.847	-0.494	0.021	0.756	0.223
E T	sp_P17927_CR1_HUMAN	1569	0.318	44.065	-1.040	0.023	0.655	0.322
E S	sp_P17927_CR1_HUMAN	1570	0.364	42.719	-1.548	0.022	0.359	0.619
E K	sp_P17927_CR1_HUMAN	1571	0.480	98.736	-2.031	0.019	0.141	0.840
E D	sp_P17927_CR1_HUMAN	1572	0.473	68.188	-2.182	0.018	0.047	0.935
E D	sp_P17927_CR1_HUMAN	1573	0.484	69.730	-1.952	0.018	0.088	0.893
E Q	sp_P17927_CR1_HUMAN	1574	0.505	90.122	-1.508	0.018	0.088	0.893
E V	sp_P17927_CR1_HUMAN	1575	0.510	78.433	-1.247	0.019	0.141	0.840
B G	sp_P17927_CR1_HUMAN	1576	0.252	19.864	-2.213	0.020	0.205	0.775
E V	sp_P17927_CR1_HUMAN	1577	0.469	72.055	-0.965	0.021	0.451	0.528
B W	sp_P17927_CR1_HUMAN	1578	0.199	47.811	-1.961	0.021	0.451	0.528
E S	sp_P17927_CR1_HUMAN	1579	0.350	41.008	-1.401	0.021	0.279	0.699
E S	sp_P17927_CR1_HUMAN	1580	0.479	56.092	-2.303	0.018	0.088	0.893
E P	sp_P17927_CR1_HUMAN	1581	0.614	87.183	-2.084	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	1582	0.434	61.556	-1.504	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	1583	0.428	60.747	-1.535	0.018	0.047	0.935
E R	sp_P17927_CR1_HUMAN	1584	0.490	112.164	-1.128	0.019	0.141	0.840
E C	sp_P17927_CR1_HUMAN	1585	0.445	62.478	-1.109	0.020	0.205	0.775
E I	sp_P17927_CR1_HUMAN	1586	0.488	90.206	-0.792	0.021	0.279	0.699
E S	sp_P17927_CR1_HUMAN	1587	0.556	65.140	-0.911	0.022	0.359	0.619
E T	sp_P17927_CR1_HUMAN	1588	0.350	48.503	-0.632	0.021	0.451	0.528
E N	sp_P17927_CR1_HUMAN	1589	0.517	75.660	-0.841	0.021	0.451	0.528
E K	sp_P17927_CR1_HUMAN	1590	0.284	58.398	-1.387	0.020	0.205	0.775
B C	sp_P17927_CR1_HUMAN	1591	0.262	36.771	-2.016	0.004	0.085	0.910
E T	sp_P17927_CR1_HUMAN	1592	0.642	89.087	-1.464	0.005	0.045	0.951
E A	sp_P17927_CR1_HUMAN	1593	0.393	43.331	-1.080	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	1594	0.472	66.948	-1.959	0.005	0.015	0.979
E E	sp_P17927_CR1_HUMAN	1595	0.624	109.048	-1.715	0.005	0.015	0.979
B V	sp_P17927_CR1_HUMAN	1596	0.123	18.967	-1.353	0.005	0.015	0.979
E E	sp_P17927_CR1_HUMAN	1597	0.715	124.998	-1.186	0.005	0.015	0.979
E N	sp_P17927_CR1_HUMAN	1598	0.495	72.512	-2.003	0.005	0.015	0.979
B A	sp_P17927_CR1_HUMAN	1599	0.310	34.162	-3.231	0.005	0.045	0.951
E I	sp_P17927_CR1_HUMAN	1600	0.364	67.358	-1.405	0.005	0.336	0.660
B R	sp_P17927_CR1_HUMAN	1601	0.265	60.777	-0.839	0.002	0.816	0.182
B V	sp_P17927_CR1_HUMAN	1602	0.247	38.025	-1.804	0.002	0.816	0.182
E P	sp_P17927_CR1_HUMAN	1603	0.325	46.089	-0.887	0.023	0.655	0.322
E G	sp_P17927_CR1_HUMAN	1604	0.476	37.430	-2.090	0.005	0.262	0.733
E N	sp_P17927_CR1_HUMAN	1605	0.521	76.230	-2.107	0.004	0.085	0.910
E R	sp_P17927_CR1_HUMAN	1606	0.570	130.507	-1.651	0.004	0.085	0.910
E S	sp_P17927_CR1_HUMAN	1607	0.519	60.839	-1.570	0.004	0.197	0.799
E F	sp_P17927_CR1_HUMAN	1608	0.465	93.366	-0.780	0.005	0.262	0.733
B F	sp_P17927_CR1_HUMAN	1609	0.118	23.743	-0.866	0.005	0.336	0.660
E S	sp_P17927_CR1_HUMAN	1610	0.563	65.995	-0.131	0.005	0.336	0.660
E L	sp_P17927_CR1_HUMAN	1611	0.343	62.858	-0.812	0.005	0.262	0.733
E T	sp_P17927_CR1_HUMAN	1612	0.581	80.626	-1.050	0.004	0.085	0.910
E E	sp_P17927_CR1_HUMAN	1613	0.359	62.787	-1.021	0.004	0.138	0.858
E I	sp_P17927_CR1_HUMAN	1614	0.388	71.762	1.282	0.002	0.816	0.182
B I	sp_P17927_CR1_HUMAN	1615	0.045	8.399	0.292	0.001	0.900	0.099
E R	sp_P17927_CR1_HUMAN	1616	0.358	81.959	1.253	0.011	0.918	0.071
B F	sp_P17927_CR1_HUMAN	1617	0.046	9.312	0.199	0.011	0.918	0.071
E R	sp_P17927_CR1_HUMAN	1618	0.406	92.882	1.220	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	1619	0.019	2.724	0.453	0.022	0.359	0.619
E Q	sp_P17927_CR1_HUMAN	1620	0.530	94.569	0.709	0.004	0.085	0.910
E P	sp_P17927_CR1_HUMAN	1621	0.724	102.736	-0.377	0.005	0.015	0.979
E G	sp_P17927_CR1_HUMAN	1622	0.409	32.196	-2.223	0.016	0.005	0.979

B	F	sp_P17927_CR1_HUMAN	1623	0.238	47.847	-1.016	0.004	0.085	0.910
E	V	sp_P17927_CR1_HUMAN	1624	0.478	73.484	-0.644	0.004	0.420	0.576
B	M	sp_P17927_CR1_HUMAN	1625	0.180	35.938	-1.920	0.005	0.262	0.733
E	V	sp_P17927_CR1_HUMAN	1626	0.503	77.296	-1.223	0.004	0.138	0.858
E	G	sp_P17927_CR1_HUMAN	1627	0.560	44.096	-2.278	0.005	0.045	0.951
E	S	sp_P17927_CR1_HUMAN	1628	0.581	68.070	-1.513	0.005	0.015	0.979
E	H	sp_P17927_CR1_HUMAN	1629	0.484	87.985	-1.406	0.004	0.138	0.858
E	T	sp_P17927_CR1_HUMAN	1630	0.364	50.417	0.290	0.004	0.616	0.381
B	V	sp_P17927_CR1_HUMAN	1631	0.110	16.876	-0.200	0.021	0.756	0.223
E	Q	sp_P17927_CR1_HUMAN	1632	0.321	57.402	0.932	0.018	0.846	0.136
B	C	sp_P17927_CR1_HUMAN	1633	0.025	3.454	-0.333	0.021	0.756	0.223
B	Q	sp_P17927_CR1_HUMAN	1634	0.243	43.364	-0.175	0.021	0.451	0.528
E	T	sp_P17927_CR1_HUMAN	1635	0.612	84.871	-1.409	0.019	0.141	0.840
E	N	sp_P17927_CR1_HUMAN	1636	0.639	93.476	-1.538	0.016	0.005	0.979
E	G	sp_P17927_CR1_HUMAN	1637	0.382	30.048	-1.636	0.005	0.015	0.979
E	R	sp_P17927_CR1_HUMAN	1638	0.578	132.385	-0.549	0.020	0.205	0.775
B	W	sp_P17927_CR1_HUMAN	1639	0.138	33.285	-1.613	0.021	0.279	0.699
E	G	sp_P17927_CR1_HUMAN	1640	0.514	40.475	-0.989	0.021	0.279	0.699
E	P	sp_P17927_CR1_HUMAN	1641	0.524	74.356	-1.878	0.004	0.138	0.858
E	K	sp_P17927_CR1_HUMAN	1642	0.634	130.352	-0.676	0.005	0.045	0.951
E	L	sp_P17927_CR1_HUMAN	1643	0.430	78.825	-0.045	0.005	0.015	0.979
E	P	sp_P17927_CR1_HUMAN	1644	0.348	49.339	-0.742	0.005	0.045	0.951
E	H	sp_P17927_CR1_HUMAN	1645	0.482	87.621	0.633	0.005	0.336	0.660
B	C	sp_P17927_CR1_HUMAN	1646	0.058	8.185	-2.599	0.004	0.616	0.381
E	S	sp_P17927_CR1_HUMAN	1647	0.549	64.390	0.370	0.023	0.655	0.322
E	R	sp_P17927_CR1_HUMAN	1648	0.505	115.714	-0.541	0.022	0.552	0.426
E	V	sp_P17927_CR1_HUMAN	1649	0.440	67.643	-0.471	0.021	0.451	0.528
B	C	sp_P17927_CR1_HUMAN	1650	0.272	38.231	-1.216	0.022	0.359	0.619
E	Q	sp_P17927_CR1_HUMAN	1651	0.353	63.117	-1.163	0.004	0.138	0.858
E	P	sp_P17927_CR1_HUMAN	1652	0.657	93.172	-1.527	0.005	0.045	0.951
E	P	sp_P17927_CR1_HUMAN	1653	0.365	51.737	-1.075	0.016	0.005	0.979
E	P	sp_P17927_CR1_HUMAN	1654	0.448	63.585	-1.858	0.016	0.005	0.979
E	E	sp_P17927_CR1_HUMAN	1655	0.658	115.040	-0.703	0.018	0.019	0.964
B	I	sp_P17927_CR1_HUMAN	1656	0.103	19.036	-1.241	0.018	0.019	0.964
E	L	sp_P17927_CR1_HUMAN	1657	0.604	110.574	-1.449	0.005	0.045	0.951
E	H	sp_P17927_CR1_HUMAN	1658	0.577	105.047	-1.479	0.005	0.045	0.951
B	G	sp_P17927_CR1_HUMAN	1659	0.250	19.636	-2.726	0.004	0.085	0.910
E	E	sp_P17927_CR1_HUMAN	1660	0.380	66.438	-1.195	0.004	0.420	0.576
B	H	sp_P17927_CR1_HUMAN	1661	0.197	35.852	-0.450	0.002	0.816	0.182
E	T	sp_P17927_CR1_HUMAN	1662	0.299	41.499	-1.391	0.002	0.816	0.182
B	L	sp_P17927_CR1_HUMAN	1663	0.123	22.540	-1.073	0.023	0.655	0.322
E	S	sp_P17927_CR1_HUMAN	1664	0.402	47.103	-1.427	0.021	0.451	0.528
E	H	sp_P17927_CR1_HUMAN	1665	0.496	90.277	-1.331	0.020	0.205	0.775
E	Q	sp_P17927_CR1_HUMAN	1666	0.548	97.926	-1.215	0.018	0.047	0.935
E	D	sp_P17927_CR1_HUMAN	1667	0.557	80.206	-1.944	0.019	0.141	0.840
E	N	sp_P17927_CR1_HUMAN	1668	0.569	83.346	-1.579	0.005	0.262	0.733
B	F	sp_P17927_CR1_HUMAN	1669	0.130	26.131	-0.602	0.004	0.197	0.799
E	S	sp_P17927_CR1_HUMAN	1670	0.485	56.783	-0.416	0.005	0.262	0.733
B	P	sp_P17927_CR1_HUMAN	1671	0.286	40.583	-0.602	0.005	0.262	0.733
E	G	sp_P17927_CR1_HUMAN	1672	0.541	42.585	-1.704	0.004	0.085	0.910
E	Q	sp_P17927_CR1_HUMAN	1673	0.370	66.046	-1.225	0.005	0.262	0.733
E	E	sp_P17927_CR1_HUMAN	1674	0.446	77.899	1.347	0.001	0.900	0.099
B	V	sp_P17927_CR1_HUMAN	1675	0.057	8.761	0.895	0.001	0.959	0.040
E	F	sp_P17927_CR1_HUMAN	1676	0.344	69.081	1.128	0.011	0.918	0.071
B	Y	sp_P17927_CR1_HUMAN	1677	0.046	9.787	0.107	0.011	0.918	0.071
E	S	sp_P17927_CR1_HUMAN	1678	0.415	48.650	1.232	0.001	0.900	0.099
B	C	sp_P17927_CR1_HUMAN	1679	0.020	2.822	0.548	0.004	0.514	0.481
E	E	sp_P17927_CR1_HUMAN	1680	0.467	81.498	0.624	0.004	0.138	0.858
E	P	sp_P17927_CR1_HUMAN	1681	0.678	96.237	-0.439	0.005	0.045	0.951
E	S	sp_P17927_CR1_HUMAN	1682	0.438	51.357	-1.499	0.018	0.019	0.964
B	Y	sp_P17927_CR1_HUMAN	1683	0.124	26.413	-0.233	0.021	0.279	0.699

E D	sp_P17927_CR1_HUMAN	1684	0.451	64.975	-0.312	0.004	0.616	0.381
B L	sp_P17927_CR1_HUMAN	1685	0.243	44.420	-1.334	0.004	0.514	0.481
E R	sp_P17927_CR1_HUMAN	1686	0.487	111.454	-0.686	0.004	0.197	0.799
E G	sp_P17927_CR1_HUMAN	1687	0.581	45.701	-2.076	0.004	0.085	0.910
E A	sp_P17927_CR1_HUMAN	1688	0.585	64.423	-1.379	0.005	0.045	0.951
E A	sp_P17927_CR1_HUMAN	1689	0.491	54.097	-0.569	0.004	0.420	0.576
E S	sp_P17927_CR1_HUMAN	1690	0.410	48.087	0.803	0.002	0.816	0.182
B L	sp_P17927_CR1_HUMAN	1691	0.129	23.583	0.710	0.018	0.846	0.136
E H	sp_P17927_CR1_HUMAN	1692	0.377	68.594	1.416	0.011	0.918	0.071
B C	sp_P17927_CR1_HUMAN	1693	0.026	3.664	-0.409	0.021	0.756	0.223
E T	sp_P17927_CR1_HUMAN	1694	0.281	38.989	0.088	0.004	0.420	0.576
E P	sp_P17927_CR1_HUMAN	1695	0.599	84.998	-1.902	0.004	0.085	0.910
E Q	sp_P17927_CR1_HUMAN	1696	0.663	118.323	-0.907	0.003	0.003	0.994
B G	sp_P17927_CR1_HUMAN	1697	0.250	19.659	-1.405	0.005	0.015	0.979
E D	sp_P17927_CR1_HUMAN	1698	0.603	86.950	-0.293	0.005	0.336	0.660
B W	sp_P17927_CR1_HUMAN	1699	0.147	35.305	-1.317	0.022	0.359	0.619
E S	sp_P17927_CR1_HUMAN	1700	0.450	52.787	-1.459	0.019	0.141	0.840
E P	sp_P17927_CR1_HUMAN	1701	0.549	77.846	-2.086	0.018	0.047	0.935
E E	sp_P17927_CR1_HUMAN	1702	0.620	108.384	-1.191	0.018	0.019	0.964
E A	sp_P17927_CR1_HUMAN	1703	0.424	46.703	-0.366	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	1704	0.487	69.063	-0.293	0.004	0.085	0.910
E R	sp_P17927_CR1_HUMAN	1705	0.438	100.279	0.377	0.004	0.197	0.799
B C	sp_P17927_CR1_HUMAN	1706	0.147	20.597	-2.025	0.004	0.420	0.576
E T	sp_P17927_CR1_HUMAN	1707	0.469	65.092	-0.326	0.004	0.616	0.381
E V	sp_P17927_CR1_HUMAN	1708	0.448	68.796	-0.454	0.022	0.552	0.426
E K	sp_P17927_CR1_HUMAN	1709	0.463	95.321	-0.119	0.021	0.451	0.528
E S	sp_P17927_CR1_HUMAN	1710	0.509	59.702	-0.759	0.022	0.359	0.619
B C	sp_P17927_CR1_HUMAN	1711	0.090	12.580	-2.118	0.020	0.205	0.775
E D	sp_P17927_CR1_HUMAN	1712	0.548	78.996	-1.743	0.019	0.141	0.840
E D	sp_P17927_CR1_HUMAN	1713	0.515	74.240	-1.716	0.018	0.047	0.935
E F	sp_P17927_CR1_HUMAN	1714	0.398	79.919	-1.706	0.018	0.019	0.964
E L	sp_P17927_CR1_HUMAN	1715	0.557	102.042	-2.277	0.018	0.019	0.964
E G	sp_P17927_CR1_HUMAN	1716	0.482	37.910	-2.278	0.018	0.019	0.964
E Q	sp_P17927_CR1_HUMAN	1717	0.457	81.638	-2.088	0.018	0.019	0.964
E L	sp_P17927_CR1_HUMAN	1718	0.413	75.620	-2.134	0.005	0.015	0.979
E P	sp_P17927_CR1_HUMAN	1719	0.474	67.232	-2.196	0.005	0.015	0.979
E H	sp_P17927_CR1_HUMAN	1720	0.453	82.346	-2.708	0.005	0.015	0.979
B G	sp_P17927_CR1_HUMAN	1721	0.298	23.468	-2.095	0.004	0.085	0.910
B R	sp_P17927_CR1_HUMAN	1722	0.202	46.166	-1.486	0.004	0.514	0.481
B V	sp_P17927_CR1_HUMAN	1723	0.207	31.739	-1.492	0.003	0.718	0.279
B L	sp_P17927_CR1_HUMAN	1724	0.302	55.369	-1.469	0.021	0.756	0.223
B L	sp_P17927_CR1_HUMAN	1725	0.310	56.834	-0.940	0.021	0.451	0.528
E P	sp_P17927_CR1_HUMAN	1726	0.558	79.109	-1.622	0.019	0.141	0.840
E L	sp_P17927_CR1_HUMAN	1727	0.558	102.225	-2.044	0.018	0.088	0.893
E N	sp_P17927_CR1_HUMAN	1728	0.563	82.482	-1.575	0.018	0.088	0.893
B L	sp_P17927_CR1_HUMAN	1729	0.138	25.249	-0.702	0.004	0.197	0.799
E Q	sp_P17927_CR1_HUMAN	1730	0.548	97.944	-0.292	0.005	0.336	0.660
E L	sp_P17927_CR1_HUMAN	1731	0.327	59.965	-0.538	0.005	0.262	0.733
E G	sp_P17927_CR1_HUMAN	1732	0.507	39.901	-1.812	0.004	0.085	0.910
E A	sp_P17927_CR1_HUMAN	1733	0.364	40.168	-1.466	0.005	0.262	0.733
E K	sp_P17927_CR1_HUMAN	1734	0.413	84.975	0.862	0.002	0.816	0.182
B V	sp_P17927_CR1_HUMAN	1735	0.041	6.240	-0.311	0.001	0.900	0.099
E S	sp_P17927_CR1_HUMAN	1736	0.354	41.501	1.107	0.011	0.918	0.071
B F	sp_P17927_CR1_HUMAN	1737	0.050	10.095	0.151	0.011	0.918	0.071
E V	sp_P17927_CR1_HUMAN	1738	0.402	61.772	0.971	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	1739	0.020	2.864	0.395	0.022	0.552	0.426
E D	sp_P17927_CR1_HUMAN	1740	0.473	68.130	0.393	0.004	0.138	0.858
E E	sp_P17927_CR1_HUMAN	1741	0.643	112.367	-1.486	0.018	0.019	0.964
E G	sp_P17927_CR1_HUMAN	1742	0.444	34.927	-1.469	0.018	0.019	0.964
B F	sp_P17927_CR1_HUMAN	1743	0.127	25.549	-0.511	0.021	0.279	0.699
E R	sp_P17927_CR1_HUMAN	1744	0.463	106.050	-0.263	0.023	0.655	0.322

B L	sp_P17927_CR1_HUMAN	1745	0.144	26.440	-0.840	0.023	0.655	0.322
E K	sp_P17927_CR1_HUMAN	1746	0.473	97.358	-1.147	0.021	0.451	0.528
E G	sp_P17927_CR1_HUMAN	1747	0.435	34.242	-2.199	0.004	0.197	0.799
E R	sp_P17927_CR1_HUMAN	1748	0.566	129.728	-2.343	0.018	0.047	0.935
E S	sp_P17927_CR1_HUMAN	1749	0.498	58.319	-1.554	0.019	0.141	0.840
E A	sp_P17927_CR1_HUMAN	1750	0.428	47.122	-0.714	0.022	0.359	0.619
B S	sp_P17927_CR1_HUMAN	1751	0.269	31.480	-0.469	0.021	0.279	0.699
E H	sp_P17927_CR1_HUMAN	1752	0.318	57.808	-0.086	0.022	0.359	0.619
B C	sp_P17927_CR1_HUMAN	1753	0.050	6.950	-0.983	0.021	0.451	0.528
E V	sp_P17927_CR1_HUMAN	1754	0.298	45.849	-0.280	0.023	0.655	0.322
E L	sp_P17927_CR1_HUMAN	1755	0.423	77.488	-1.123	0.022	0.552	0.426
B A	sp_P17927_CR1_HUMAN	1756	0.251	27.649	-0.848	0.020	0.205	0.775
E G	sp_P17927_CR1_HUMAN	1757	0.457	35.997	-1.820	0.005	0.015	0.979
E M	sp_P17927_CR1_HUMAN	1758	0.698	139.730	-1.152	0.005	0.015	0.979
E K	sp_P17927_CR1_HUMAN	1759	0.625	128.501	-0.977	0.005	0.045	0.951
B A	sp_P17927_CR1_HUMAN	1760	0.176	19.351	-2.361	0.004	0.085	0.910
E L	sp_P17927_CR1_HUMAN	1761	0.536	98.087	-0.660	0.005	0.336	0.660
B W	sp_P17927_CR1_HUMAN	1762	0.236	56.854	-0.877	0.022	0.359	0.619
E N	sp_P17927_CR1_HUMAN	1763	0.425	62.147	-1.300	0.004	0.085	0.910
E S	sp_P17927_CR1_HUMAN	1764	0.666	78.008	-2.065	0.005	0.015	0.979
E S	sp_P17927_CR1_HUMAN	1765	0.679	79.532	-1.113	0.005	0.015	0.979
E V	sp_P17927_CR1_HUMAN	1766	0.477	73.392	-0.751	0.005	0.015	0.979
E P	sp_P17927_CR1_HUMAN	1767	0.235	33.276	-1.955	0.005	0.045	0.951
E V	sp_P17927_CR1_HUMAN	1768	0.496	76.204	0.442	0.005	0.262	0.733
B C	sp_P17927_CR1_HUMAN	1769	0.071	10.025	-2.783	0.005	0.336	0.660
E E	sp_P17927_CR1_HUMAN	1770	0.583	101.798	-0.246	0.022	0.359	0.619
E Q	sp_P17927_CR1_HUMAN	1771	0.587	104.910	-0.802	0.021	0.279	0.699
E I	sp_P17927_CR1_HUMAN	1772	0.380	70.263	0.220	0.020	0.205	0.775
E F	sp_P17927_CR1_HUMAN	1773	0.655	131.458	-1.012	0.020	0.205	0.775
B C	sp_P17927_CR1_HUMAN	1774	0.153	21.551	-1.757	0.018	0.088	0.893
E P	sp_P17927_CR1_HUMAN	1775	0.620	87.950	-1.956	0.018	0.047	0.935
E N	sp_P17927_CR1_HUMAN	1776	0.575	84.239	-1.328	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	1777	0.304	43.209	-1.513	0.018	0.019	0.964
E P	sp_P17927_CR1_HUMAN	1778	0.421	59.740	-1.937	0.018	0.047	0.935
E A	sp_P17927_CR1_HUMAN	1779	0.521	57.425	-0.640	0.018	0.088	0.893
B I	sp_P17927_CR1_HUMAN	1780	0.106	19.628	-1.403	0.018	0.088	0.893
E L	sp_P17927_CR1_HUMAN	1781	0.624	114.218	-1.806	0.018	0.088	0.893
E N	sp_P17927_CR1_HUMAN	1782	0.514	75.250	-1.865	0.018	0.047	0.935
B G	sp_P17927_CR1_HUMAN	1783	0.276	21.729	-3.219	0.018	0.047	0.935
E R	sp_P17927_CR1_HUMAN	1784	0.470	107.630	-1.061	0.022	0.359	0.619
E H	sp_P17927_CR1_HUMAN	1785	0.352	63.956	-0.516	0.023	0.655	0.322
E T	sp_P17927_CR1_HUMAN	1786	0.325	45.050	-0.907	0.023	0.655	0.322
E G	sp_P17927_CR1_HUMAN	1787	0.335	26.341	-1.396	0.022	0.552	0.426
E T	sp_P17927_CR1_HUMAN	1788	0.506	70.238	-1.114	0.022	0.359	0.619
E P	sp_P17927_CR1_HUMAN	1789	0.427	60.577	-0.878	0.020	0.205	0.775
E F	sp_P17927_CR1_HUMAN	1790	0.538	107.997	-1.200	0.018	0.088	0.893
E G	sp_P17927_CR1_HUMAN	1791	0.600	47.196	-1.707	0.018	0.088	0.893
E D	sp_P17927_CR1_HUMAN	1792	0.542	78.045	-1.359	0.020	0.205	0.775
B I	sp_P17927_CR1_HUMAN	1793	0.150	27.806	-0.365	0.021	0.279	0.699
E P	sp_P17927_CR1_HUMAN	1794	0.569	80.713	-0.654	0.005	0.336	0.660
E Y	sp_P17927_CR1_HUMAN	1795	0.402	85.972	-0.723	0.005	0.262	0.733
E G	sp_P17927_CR1_HUMAN	1796	0.553	43.537	-2.206	0.004	0.085	0.910
E K	sp_P17927_CR1_HUMAN	1797	0.548	112.682	-1.599	0.004	0.138	0.858
E E	sp_P17927_CR1_HUMAN	1798	0.475	82.948	-0.364	0.004	0.616	0.381
B I	sp_P17927_CR1_HUMAN	1799	0.206	38.092	0.201	0.003	0.718	0.279
E S	sp_P17927_CR1_HUMAN	1800	0.407	47.665	-0.215	0.021	0.756	0.223
B Y	sp_P17927_CR1_HUMAN	1801	0.149	31.777	-0.192	0.018	0.846	0.136
E A	sp_P17927_CR1_HUMAN	1802	0.493	54.340	-0.132	0.021	0.756	0.223
B C	sp_P17927_CR1_HUMAN	1803	0.051	7.090	-2.638	0.021	0.279	0.699
E D	sp_P17927_CR1_HUMAN	1804	0.575	82.872	-0.663	0.018	0.088	0.893
E T	sp_P17927_CR1_HUMAN	1805	0.642	89.059	-1.472	0.018	0.088	0.893

E H	sp_P17927_CR1_HUMAN	1806	0.476	86.548	-1.473	0.018	0.088	0.893
E P	sp_P17927_CR1_HUMAN	1807	0.321	45.564	-1.839	0.019	0.141	0.840
E D	sp_P17927_CR1_HUMAN	1808	0.554	79.846	-1.414	0.021	0.279	0.699
E R	sp_P17927_CR1_HUMAN	1809	0.322	73.715	-1.909	0.019	0.141	0.840
E G	sp_P17927_CR1_HUMAN	1810	0.509	40.090	-2.394	0.018	0.088	0.893
E M	sp_P17927_CR1_HUMAN	1811	0.544	108.854	-1.773	0.004	0.085	0.910
E T	sp_P17927_CR1_HUMAN	1812	0.438	60.737	-2.115	0.018	0.088	0.893
B F	sp_P17927_CR1_HUMAN	1813	0.283	56.718	-1.573	0.021	0.279	0.699
E N	sp_P17927_CR1_HUMAN	1814	0.380	55.632	-1.425	0.022	0.359	0.619
B L	sp_P17927_CR1_HUMAN	1815	0.233	42.626	-2.424	0.022	0.359	0.619
E I	sp_P17927_CR1_HUMAN	1816	0.474	87.635	-2.047	0.022	0.359	0.619
E G	sp_P17927_CR1_HUMAN	1817	0.372	29.300	-2.036	0.004	0.138	0.858
E E	sp_P17927_CR1_HUMAN	1818	0.621	108.524	-1.969	0.018	0.047	0.935
E S	sp_P17927_CR1_HUMAN	1819	0.565	66.171	-1.262	0.004	0.085	0.910
E S	sp_P17927_CR1_HUMAN	1820	0.447	52.342	-0.396	0.005	0.336	0.660
B I	sp_P17927_CR1_HUMAN	1821	0.163	30.229	-0.504	0.022	0.552	0.426
E R	sp_P17927_CR1_HUMAN	1822	0.334	76.486	-0.256	0.021	0.756	0.223
B C	sp_P17927_CR1_HUMAN	1823	0.043	6.009	-1.282	0.021	0.756	0.223
E T	sp_P17927_CR1_HUMAN	1824	0.351	48.711	-0.571	0.023	0.655	0.322
B S	sp_P17927_CR1_HUMAN	1825	0.287	33.636	-1.852	0.022	0.359	0.619
E D	sp_P17927_CR1_HUMAN	1826	0.491	70.695	-1.546	0.020	0.205	0.775
E P	sp_P17927_CR1_HUMAN	1827	0.429	60.875	-1.906	0.018	0.088	0.893
E Q	sp_P17927_CR1_HUMAN	1828	0.501	89.568	-1.749	0.018	0.088	0.893
E G	sp_P17927_CR1_HUMAN	1829	0.640	50.344	-2.059	0.018	0.047	0.935
E N	sp_P17927_CR1_HUMAN	1830	0.511	74.869	-1.333	0.018	0.047	0.935
E G	sp_P17927_CR1_HUMAN	1831	0.326	25.625	-1.732	0.018	0.088	0.893
E V	sp_P17927_CR1_HUMAN	1832	0.501	77.081	-0.571	0.021	0.279	0.699
B W	sp_P17927_CR1_HUMAN	1833	0.159	38.191	-1.155	0.022	0.359	0.619
E S	sp_P17927_CR1_HUMAN	1834	0.367	43.036	-1.681	0.021	0.279	0.699
E S	sp_P17927_CR1_HUMAN	1835	0.520	60.967	-2.588	0.018	0.088	0.893
E P	sp_P17927_CR1_HUMAN	1836	0.543	76.995	-1.816	0.018	0.047	0.935
E A	sp_P17927_CR1_HUMAN	1837	0.380	41.854	-1.126	0.018	0.088	0.893
E P	sp_P17927_CR1_HUMAN	1838	0.407	57.767	-1.173	0.018	0.088	0.893
E R	sp_P17927_CR1_HUMAN	1839	0.509	116.469	-1.045	0.020	0.205	0.775
E C	sp_P17927_CR1_HUMAN	1840	0.274	38.413	-0.796	0.021	0.279	0.699
E E	sp_P17927_CR1_HUMAN	1841	0.497	86.878	-1.304	0.022	0.359	0.619
E L	sp_P17927_CR1_HUMAN	1842	0.449	82.175	-1.414	0.021	0.279	0.699
E S	sp_P17927_CR1_HUMAN	1843	0.433	50.783	-0.778	0.020	0.205	0.775
E V	sp_P17927_CR1_HUMAN	1844	0.425	65.384	-1.062	0.019	0.141	0.840
E P	sp_P17927_CR1_HUMAN	1845	0.531	75.349	-1.273	0.019	0.141	0.840
E A	sp_P17927_CR1_HUMAN	1846	0.347	38.261	-1.380	0.021	0.279	0.699
E A	sp_P17927_CR1_HUMAN	1847	0.434	47.871	-0.307	0.021	0.451	0.528
B C	sp_P17927_CR1_HUMAN	1848	0.183	25.749	-1.697	0.022	0.359	0.619
E P	sp_P17927_CR1_HUMAN	1849	0.484	68.722	-1.252	0.021	0.279	0.699
E H	sp_P17927_CR1_HUMAN	1850	0.556	101.045	-1.325	0.019	0.141	0.840
E P	sp_P17927_CR1_HUMAN	1851	0.299	42.400	-1.166	0.018	0.047	0.935
E P	sp_P17927_CR1_HUMAN	1852	0.467	66.324	-1.585	0.018	0.047	0.935
E K	sp_P17927_CR1_HUMAN	1853	0.371	76.397	-0.286	0.018	0.088	0.893
B I	sp_P17927_CR1_HUMAN	1854	0.085	15.707	-0.932	0.004	0.085	0.910
E Q	sp_P17927_CR1_HUMAN	1855	0.650	116.126	-0.953	0.004	0.085	0.910
E N	sp_P17927_CR1_HUMAN	1856	0.480	70.331	-1.563	0.004	0.085	0.910
B G	sp_P17927_CR1_HUMAN	1857	0.097	7.618	-3.332	0.005	0.262	0.733
E H	sp_P17927_CR1_HUMAN	1858	0.457	83.146	-0.349	0.003	0.718	0.279
B Y	sp_P17927_CR1_HUMAN	1859	0.164	35.068	-0.944	0.002	0.816	0.182
B I	sp_P17927_CR1_HUMAN	1860	0.254	46.935	-1.944	0.021	0.756	0.223
B G	sp_P17927_CR1_HUMAN	1861	0.207	16.283	-1.934	0.021	0.451	0.528
E G	sp_P17927_CR1_HUMAN	1862	0.461	36.273	-1.612	0.021	0.279	0.699
E H	sp_P17927_CR1_HUMAN	1863	0.532	96.771	-1.590	0.019	0.141	0.840
E V	sp_P17927_CR1_HUMAN	1864	0.568	87.348	-1.356	0.018	0.088	0.893
E S	sp_P17927_CR1_HUMAN	1865	0.500	58.577	-1.864	0.020	0.205	0.775
E L	sp_P17927_CR1_HUMAN	1866	0.528	96.750	-1.213	0.005	0.262	0.733

B Y	sp_P17927_CR1_HUMAN	1867	0.102	21.883	-0.006	0.005	0.262	0.733
E L	sp_P17927_CR1_HUMAN	1868	0.481	88.163	-0.127	0.004	0.197	0.799
E P	sp_P17927_CR1_HUMAN	1869	0.350	49.679	-0.615	0.004	0.138	0.858
E G	sp_P17927_CR1_HUMAN	1870	0.577	45.402	-0.582	0.004	0.085	0.910
B M	sp_P17927_CR1_HUMAN	1871	0.243	48.624	-1.274	0.005	0.262	0.733
E T	sp_P17927_CR1_HUMAN	1872	0.379	52.581	1.524	0.001	0.900	0.099
B I	sp_P17927_CR1_HUMAN	1873	0.034	6.290	0.555	0.001	0.959	0.040
E S	sp_P17927_CR1_HUMAN	1874	0.319	37.410	1.491	0.006	0.962	0.032
B Y	sp_P17927_CR1_HUMAN	1875	0.054	11.625	0.449	0.001	0.959	0.040
E I	sp_P17927_CR1_HUMAN	1876	0.396	73.241	1.286	0.001	0.900	0.099
B C	sp_P17927_CR1_HUMAN	1877	0.019	2.738	0.930	0.004	0.420	0.576
E D	sp_P17927_CR1_HUMAN	1878	0.493	71.070	0.921	0.004	0.085	0.910
E P	sp_P17927_CR1_HUMAN	1879	0.716	101.629	0.363	0.018	0.047	0.935
E G	sp_P17927_CR1_HUMAN	1880	0.447	35.155	-1.297	0.018	0.047	0.935
B Y	sp_P17927_CR1_HUMAN	1881	0.129	27.546	0.132	0.020	0.205	0.775
E L	sp_P17927_CR1_HUMAN	1882	0.470	86.002	0.079	0.004	0.616	0.381
B L	sp_P17927_CR1_HUMAN	1883	0.138	25.249	-0.902	0.004	0.616	0.381
E V	sp_P17927_CR1_HUMAN	1884	0.500	76.819	-0.116	0.005	0.336	0.660
E G	sp_P17927_CR1_HUMAN	1885	0.528	41.522	-1.903	0.004	0.085	0.910
E K	sp_P17927_CR1_HUMAN	1886	0.585	120.252	-1.477	0.004	0.085	0.910
E G	sp_P17927_CR1_HUMAN	1887	0.486	38.280	-0.599	0.004	0.420	0.576
E F	sp_P17927_CR1_HUMAN	1888	0.382	76.708	0.457	0.002	0.816	0.182
B I	sp_P17927_CR1_HUMAN	1889	0.114	21.090	0.585	0.011	0.918	0.071
E F	sp_P17927_CR1_HUMAN	1890	0.385	77.310	1.301	0.001	0.959	0.040
B C	sp_P17927_CR1_HUMAN	1891	0.032	4.437	-0.820	0.011	0.918	0.071
E T	sp_P17927_CR1_HUMAN	1892	0.323	44.772	0.360	0.022	0.552	0.426
E D	sp_P17927_CR1_HUMAN	1893	0.628	90.538	-1.205	0.004	0.197	0.799
E Q	sp_P17927_CR1_HUMAN	1894	0.659	117.751	-0.462	0.018	0.019	0.964
B G	sp_P17927_CR1_HUMAN	1895	0.229	17.999	-0.787	0.018	0.047	0.935
E I	sp_P17927_CR1_HUMAN	1896	0.580	107.393	0.538	0.004	0.514	0.481
B W	sp_P17927_CR1_HUMAN	1897	0.147	35.281	-1.099	0.022	0.552	0.426
E S	sp_P17927_CR1_HUMAN	1898	0.515	60.346	-0.312	0.020	0.205	0.775
E Q	sp_P17927_CR1_HUMAN	1899	0.603	107.696	-1.180	0.005	0.045	0.951
E L	sp_P17927_CR1_HUMAN	1900	0.676	123.702	-0.544	0.005	0.015	0.979
E D	sp_P17927_CR1_HUMAN	1901	0.486	69.975	0.105	0.005	0.015	0.979
E H	sp_P17927_CR1_HUMAN	1902	0.222	40.473	-0.518	0.004	0.085	0.910
E Y	sp_P17927_CR1_HUMAN	1903	0.432	92.233	1.399	0.004	0.616	0.381
B C	sp_P17927_CR1_HUMAN	1904	0.038	5.307	-1.740	0.002	0.816	0.182
E K	sp_P17927_CR1_HUMAN	1905	0.468	96.370	0.967	0.002	0.816	0.182
E E	sp_P17927_CR1_HUMAN	1906	0.551	96.347	-0.461	0.021	0.756	0.223
E V	sp_P17927_CR1_HUMAN	1907	0.278	42.790	0.243	0.022	0.552	0.426
E N	sp_P17927_CR1_HUMAN	1908	0.613	89.699	-0.554	0.004	0.420	0.576
B C	sp_P17927_CR1_HUMAN	1909	0.067	9.351	-1.291	0.004	0.138	0.858
E S	sp_P17927_CR1_HUMAN	1910	0.599	70.238	-1.033	0.005	0.015	0.979
E F	sp_P17927_CR1_HUMAN	1911	0.524	105.247	-0.785	0.018	0.019	0.964
B P	sp_P17927_CR1_HUMAN	1912	0.324	45.947	-1.317	0.016	0.005	0.979
E L	sp_P17927_CR1_HUMAN	1913	0.590	107.992	-2.107	0.018	0.019	0.964
B F	sp_P17927_CR1_HUMAN	1914	0.236	47.405	-0.578	0.018	0.047	0.935
B M	sp_P17927_CR1_HUMAN	1915	0.269	53.747	-1.247	0.018	0.088	0.893
E N	sp_P17927_CR1_HUMAN	1916	0.660	96.683	-1.742	0.005	0.045	0.951
E G	sp_P17927_CR1_HUMAN	1917	0.523	41.129	-1.893	0.005	0.045	0.951
B I	sp_P17927_CR1_HUMAN	1918	0.188	34.817	-2.439	0.004	0.197	0.799
E S	sp_P17927_CR1_HUMAN	1919	0.352	41.231	-0.669	0.002	0.816	0.182
B K	sp_P17927_CR1_HUMAN	1920	0.183	37.561	-0.532	0.001	0.900	0.099
E E	sp_P17927_CR1_HUMAN	1921	0.331	57.861	-1.611	0.002	0.816	0.182
B L	sp_P17927_CR1_HUMAN	1922	0.161	29.406	-1.272	0.022	0.552	0.426
E E	sp_P17927_CR1_HUMAN	1923	0.585	102.182	-1.425	0.005	0.336	0.660
E M	sp_P17927_CR1_HUMAN	1924	0.458	91.646	-1.423	0.004	0.138	0.858
E K	sp_P17927_CR1_HUMAN	1925	0.572	117.640	-1.050	0.018	0.047	0.935
E K	sp_P17927_CR1_HUMAN	1926	0.605	124.510	-2.218	0.019	0.141	0.840
E V	sp_P17927_CR1_HUMAN	1927	0.548	84.258	-0.434	0.005	0.262	0.733

B	Y	sp_P17927_CR1_HUMAN	1928	0.108	23.101	-0.292	0.005	0.262	0.733
E	H	sp_P17927_CR1_HUMAN	1929	0.519	94.388	0.008	0.005	0.336	0.660
B	Y	sp_P17927_CR1_HUMAN	1930	0.287	61.246	-0.405	0.005	0.336	0.660
E	G	sp_P17927_CR1_HUMAN	1931	0.519	40.806	-1.157	0.004	0.085	0.910
E	D	sp_P17927_CR1_HUMAN	1932	0.298	42.942	-1.036	0.005	0.262	0.733
E	Y	sp_P17927_CR1_HUMAN	1933	0.415	88.707	1.362	0.001	0.900	0.099
B	V	sp_P17927_CR1_HUMAN	1934	0.031	4.826	0.487	0.001	0.959	0.040
E	T	sp_P17927_CR1_HUMAN	1935	0.319	44.301	1.523	0.006	0.962	0.032
B	L	sp_P17927_CR1_HUMAN	1936	0.046	8.514	0.204	0.001	0.959	0.040
E	K	sp_P17927_CR1_HUMAN	1937	0.399	82.095	1.073	0.001	0.900	0.099
B	C	sp_P17927_CR1_HUMAN	1938	0.021	2.934	0.774	0.005	0.336	0.660
E	E	sp_P17927_CR1_HUMAN	1939	0.552	96.399	0.816	0.005	0.045	0.951
E	D	sp_P17927_CR1_HUMAN	1940	0.709	102.124	0.311	0.005	0.015	0.979
E	G	sp_P17927_CR1_HUMAN	1941	0.451	35.525	-1.248	0.018	0.019	0.964
B	Y	sp_P17927_CR1_HUMAN	1942	0.103	22.054	0.214	0.020	0.205	0.775
E	T	sp_P17927_CR1_HUMAN	1943	0.492	68.240	0.376	0.003	0.718	0.279
B	L	sp_P17927_CR1_HUMAN	1944	0.136	24.938	-0.264	0.003	0.718	0.279
E	E	sp_P17927_CR1_HUMAN	1945	0.547	95.491	-0.469	0.005	0.336	0.660
E	G	sp_P17927_CR1_HUMAN	1946	0.497	39.130	-1.901	0.004	0.085	0.910
E	S	sp_P17927_CR1_HUMAN	1947	0.555	65.034	-0.989	0.005	0.045	0.951
E	P	sp_P17927_CR1_HUMAN	1948	0.535	75.860	-0.246	0.005	0.336	0.660
E	W	sp_P17927_CR1_HUMAN	1949	0.391	93.939	0.797	0.002	0.816	0.182
B	S	sp_P17927_CR1_HUMAN	1950	0.147	17.264	0.756	0.011	0.918	0.071
E	Q	sp_P17927_CR1_HUMAN	1951	0.348	62.153	1.306	0.001	0.959	0.040
B	C	sp_P17927_CR1_HUMAN	1952	0.038	5.321	-0.794	0.001	0.900	0.099
B	Q	sp_P17927_CR1_HUMAN	1953	0.264	47.115	0.346	0.022	0.552	0.426
E	A	sp_P17927_CR1_HUMAN	1954	0.607	66.913	-1.204	0.004	0.197	0.799
E	D	sp_P17927_CR1_HUMAN	1955	0.693	99.876	-0.796	0.018	0.019	0.964
B	D	sp_P17927_CR1_HUMAN	1956	0.243	34.987	-0.566	0.018	0.047	0.935
E	R	sp_P17927_CR1_HUMAN	1957	0.614	140.698	0.588	0.004	0.514	0.481
B	W	sp_P17927_CR1_HUMAN	1958	0.124	29.822	-0.876	0.004	0.514	0.481
E	D	sp_P17927_CR1_HUMAN	1959	0.524	75.566	-0.223	0.020	0.205	0.775
E	P	sp_P17927_CR1_HUMAN	1960	0.497	70.538	-1.201	0.004	0.085	0.910
E	P	sp_P17927_CR1_HUMAN	1961	0.712	100.962	0.037	0.005	0.045	0.951
E	L	sp_P17927_CR1_HUMAN	1962	0.425	77.781	-0.055	0.005	0.015	0.979
B	A	sp_P17927_CR1_HUMAN	1963	0.157	17.323	-0.976	0.005	0.045	0.951
E	K	sp_P17927_CR1_HUMAN	1964	0.542	111.572	1.554	0.004	0.420	0.576
B	C	sp_P17927_CR1_HUMAN	1965	0.032	4.549	-1.960	0.004	0.616	0.381
E	T	sp_P17927_CR1_HUMAN	1966	0.499	69.211	1.315	0.021	0.756	0.223
E	S	sp_P17927_CR1_HUMAN	1967	0.666	78.114	0.078	0.004	0.514	0.481
E	R	sp_P17927_CR1_HUMAN	1968	0.434	99.478	0.603	0.019	0.141	0.840
E	T	sp_P17927_CR1_HUMAN	1969	0.681	94.427	-1.125	0.018	0.088	0.893
E	H	sp_P17927_CR1_HUMAN	1970	0.544	98.990	-1.065	0.005	0.045	0.951
E	D	sp_P17927_CR1_HUMAN	1971	0.620	89.385	-1.953	0.005	0.015	0.979
E	A	sp_P17927_CR1_HUMAN	1972	0.538	59.244	-2.102	0.005	0.015	0.979
B	L	sp_P17927_CR1_HUMAN	1973	0.199	36.455	-1.135	0.005	0.015	0.979
E	I	sp_P17927_CR1_HUMAN	1974	0.563	104.192	-1.371	0.018	0.019	0.964
B	V	sp_P17927_CR1_HUMAN	1975	0.255	39.255	-1.126	0.018	0.019	0.964
E	G	sp_P17927_CR1_HUMAN	1976	0.353	27.773	-2.267	0.018	0.019	0.964
B	T	sp_P17927_CR1_HUMAN	1977	0.246	34.190	-1.751	0.018	0.047	0.935
E	L	sp_P17927_CR1_HUMAN	1978	0.445	81.553	-2.106	0.005	0.015	0.979
E	S	sp_P17927_CR1_HUMAN	1979	0.374	43.868	-2.192	0.018	0.019	0.964
B	G	sp_P17927_CR1_HUMAN	1980	0.181	14.205	-2.937	0.018	0.088	0.893
B	T	sp_P17927_CR1_HUMAN	1981	0.285	39.516	-1.584	0.004	0.420	0.576
B	I	sp_P17927_CR1_HUMAN	1982	0.099	18.407	-0.915	0.004	0.616	0.381
B	F	sp_P17927_CR1_HUMAN	1983	0.209	42.047	-1.667	0.004	0.616	0.381
E	F	sp_P17927_CR1_HUMAN	1984	0.306	61.494	-1.307	0.004	0.420	0.576
B	I	sp_P17927_CR1_HUMAN	1985	0.234	43.290	-1.029	0.004	0.197	0.799
E	L	sp_P17927_CR1_HUMAN	1986	0.577	105.594	-2.058	0.004	0.085	0.910
E	L	sp_P17927_CR1_HUMAN	1987	0.462	84.611	-2.087	0.018	0.088	0.893
B	I	sp_P17927_CR1_HUMAN	1988	0.187	34.632	-1.470	0.005	0.262	0.733

E I	sp_P17927_CR1_HUMAN	1989	0.311	57.479	-0.997	0.004	0.514	0.481
B F	sp_P17927_CR1_HUMAN	1990	0.127	25.569	-0.413	0.004	0.616	0.381
E L	sp_P17927_CR1_HUMAN	1991	0.268	49.107	-0.901	0.004	0.514	0.481
B S	sp_P17927_CR1_HUMAN	1992	0.259	30.308	-1.400	0.004	0.616	0.381
B W	sp_P17927_CR1_HUMAN	1993	0.224	53.752	-0.617	0.002	0.816	0.182
B I	sp_P17927_CR1_HUMAN	1994	0.053	9.731	-0.148	0.001	0.959	0.040
E I	sp_P17927_CR1_HUMAN	1995	0.262	48.451	0.361	0.001	0.959	0.040
B L	sp_P17927_CR1_HUMAN	1996	0.073	13.366	-0.096	0.001	0.959	0.040
E K	sp_P17927_CR1_HUMAN	1997	0.383	78.763	0.831	0.001	0.959	0.040
B H	sp_P17927_CR1_HUMAN	1998	0.071	12.897	0.208	0.001	0.900	0.099
E R	sp_P17927_CR1_HUMAN	1999	0.456	104.493	0.682	0.004	0.420	0.576
E K	sp_P17927_CR1_HUMAN	2000	0.606	124.736	-0.304	0.004	0.138	0.858
E G	sp_P17927_CR1_HUMAN	2001	0.557	43.844	-0.777	0.018	0.047	0.935
E N	sp_P17927_CR1_HUMAN	2002	0.297	43.495	-0.678	0.020	0.205	0.775
E N	sp_P17927_CR1_HUMAN	2003	0.550	80.549	-0.103	0.022	0.552	0.426
E A	sp_P17927_CR1_HUMAN	2004	0.308	33.909	-0.468	0.022	0.552	0.426
E H	sp_P17927_CR1_HUMAN	2005	0.638	116.016	-0.553	0.022	0.359	0.619
E E	sp_P17927_CR1_HUMAN	2006	0.499	87.175	-1.081	0.004	0.138	0.858
E N	sp_P17927_CR1_HUMAN	2007	0.580	84.868	-0.189	0.005	0.045	0.951
E P	sp_P17927_CR1_HUMAN	2008	0.450	63.883	-0.401	0.004	0.138	0.858
E K	sp_P17927_CR1_HUMAN	2009	0.575	118.319	-0.145	0.004	0.616	0.381
B E	sp_P17927_CR1_HUMAN	2010	0.246	42.976	0.848	0.003	0.718	0.279
E V	sp_P17927_CR1_HUMAN	2011	0.407	62.602	1.013	0.018	0.846	0.136
B A	sp_P17927_CR1_HUMAN	2012	0.035	3.890	-0.734	0.018	0.846	0.136
B I	sp_P17927_CR1_HUMAN	2013	0.205	37.944	-0.123	0.018	0.846	0.136
E H	sp_P17927_CR1_HUMAN	2014	0.357	64.884	-0.965	0.022	0.552	0.426
E L	sp_P17927_CR1_HUMAN	2015	0.383	70.201	0.091	0.018	0.088	0.893
E H	sp_P17927_CR1_HUMAN	2016	0.610	110.959	-2.216	0.003	0.003	0.994
E S	sp_P17927_CR1_HUMAN	2017	0.548	64.226	-1.935	0.003	0.003	0.994
E Q	sp_P17927_CR1_HUMAN	2018	0.646	115.340	-0.756	0.005	0.045	0.951
E G	sp_P17927_CR1_HUMAN	2019	0.343	26.994	-0.724	0.004	0.085	0.910
E G	sp_P17927_CR1_HUMAN	2020	0.349	27.458	-1.653	0.004	0.197	0.799
B S	sp_P17927_CR1_HUMAN	2021	0.235	27.483	-1.111	0.004	0.420	0.576
B S	sp_P17927_CR1_HUMAN	2022	0.122	14.322	-2.002	0.004	0.514	0.481
B V	sp_P17927_CR1_HUMAN	2023	0.206	31.616	-1.058	0.005	0.336	0.660
E H	sp_P17927_CR1_HUMAN	2024	0.356	64.756	-0.803	0.004	0.138	0.858
E P	sp_P17927_CR1_HUMAN	2025	0.436	61.840	-1.564	0.005	0.045	0.951
B R	sp_P17927_CR1_HUMAN	2026	0.329	75.364	-1.215	0.005	0.045	0.951
B T	sp_P17927_CR1_HUMAN	2027	0.200	27.740	-2.142	0.004	0.085	0.910
B L	sp_P17927_CR1_HUMAN	2028	0.175	32.116	-0.070	0.018	0.047	0.935
E Q	sp_P17927_CR1_HUMAN	2029	0.322	57.491	-1.712	0.018	0.019	0.964
B T	sp_P17927_CR1_HUMAN	2030	0.241	33.482	-0.632	0.053	0.005	0.942
B N	sp_P17927_CR1_HUMAN	2031	0.273	39.923	-0.410	0.502	0.002	0.495
E E	sp_P17927_CR1_HUMAN	2032	0.548	95.666	-0.665	0.600	0.003	0.397
E E	sp_P17927_CR1_HUMAN	2033	0.374	65.285	-0.826	0.502	0.002	0.495
B N	sp_P17927_CR1_HUMAN	2034	0.225	32.896	-0.197	0.502	0.002	0.495
E S	sp_P17927_CR1_HUMAN	2035	0.374	43.880	-1.236	0.502	0.002	0.495
E R	sp_P17927_CR1_HUMAN	2036	0.661	151.346	-0.390	0.406	0.004	0.590
E V	sp_P17927_CR1_HUMAN	2037	0.457	70.210	-0.797	0.176	0.004	0.820
E L	sp_P17927_CR1_HUMAN	2038	0.279	51.048	0.225	0.016	0.005	0.979
E P	sp_P17927_CR1_HUMAN	2039	0.801	113.662	-0.863	0.000	0.001	0.999