

	L21	L27	H32	K35	I42	V44M	N47	R48	P76	P82	R102	R103	E112	S113	T123
A	-2.219	-2.642	0.321	-0.072	-2.791	-1.698	-1.338	-0.701	-1.426	-0.455	-1.828	-1.117	-1.94	-1.8	-1.514
V	-1.265	-1.662	0.612	0.066	-1.684		-0.546	-0.157	-0.561	-0.3	-1.18	-0.484	-1.23	-1.096	-0.759
L			0.727	0.104	-1.157	-0.143	-0.189	0.085	-0.175	-0.274	-0.878	-0.196	-0.895	-0.778	-0.423
G	-2.715	-3.138	0.15	-0.17	-3.352	-2.254	-1.762	-0.993	-1.892	-0.582	-2.164	-1.453	-2.303	-2.175	-1.922
S	-2.561	-2.902	0.207	-0.531	-3.306	-2.415	-1.382	-0.873	-1.511	-0.543	-2.135	-1.392	-2.183		-1.884
W	-1.652	-1.973	0.52	-0.594	-2.121	-1.359	-0.408	-0.33	-1.242	-0.766	-0.962	-0.375	-1.405	-1.418	-1.114
T	-2.251	-2.56	0.279	-0.446	-2.918	-1.986	-0.939	-0.533	-1.214	-0.566	-1.745	-1.033	-1.825	-0.699	
Q	-1.797	-2.164	0.16	-0.331	-2.445	-1.498	-0.91	-0.264	-0.772	-0.493	-1.206	-0.629	-1.35	-0.596	-1.42
E	-1.952	-2.876	-0.245	-0.459	-2.947	-1.725	-1.321	0.086	-1.031	-0.623	-0.381	0.056		-1.584	-1.923
C	-1.319	-1.794	0.366	-0.638	-2.268	-1.342	-0.509	-0.654	-0.754	-0.648	-1.816	-1.04	-0.982	-0.795	-1.255
R	-1.296	-1.666	-0.09	-0.26	-1.87	-1.432	-0.595		-0.679	0.094			-1.014	-0.698	-1.119
P	-1.265	-1.662	0.612	0.066	-1.684	-0.635	-0.546	-0.157			-1.18	-0.484	-1.23	-1.096	-0.759
D	-2.126	-3.095	-0.235	-0.441	-3.183	-1.98	-1.568	-0.063	-1.183	-0.504	-0.556	-0.099	-1.46	-1.854	-2.152
F	-1.314	-1.549	0.673	-0.464	-1.739	-0.935	-0.616	-0.52	-0.872	-0.697	-1.508	-0.807	-1.615	-1.259	-0.92
I	-0.824	-1.195	0.727	0.104		-0.143	-0.189	0.085	-0.175	-0.274	-0.878	-0.196	-0.895	-0.778	-0.423
H	-2.049	-2.624		-0.228	-2.786	-1.968	-1.1	-1.456	-1.552	-0.113	-2.165	-1.65	-1.399	-1.869	-1.824
N	-1.858	-2.301	0.131	-0.214	-2.591	-1.758		-0.253	-0.846	-0.217	-1.089	-0.514	-1.488	-0.963	-1.703
M	-0.614	-1.213	0.43	-0.283	-1.204	-0.343	0.007	-0.446	-0.168	-0.359	-1.147	-0.542	-0.139	-1.061	-0.602
Y	-1.346	-1.727	0.789	-0.253	-1.869	-0.938	-0.137	-0.043	-0.812	-0.47	-0.762	-0.133	-1.309	-1.117	-0.765
K	-1.683	-1.957	0.258		-2.187	-1.356	-0.389	-0.402	-0.778	-0.482	-1.426	-0.963	-1.263	-0.259	-0.958

	Q25	E41	A52	C70	T77	K93	Y101	E138	G141	A144	I146	Q153
A	-0.526	-0.534		-1.46	-0.622	-0.488	-2.794	-0.015	-0.227		-1.976	-0.304
V	0.052	-0.008	-0.237	-0.903	-0.341	0.055	-2.098	0.183	-0.327	-0.542	-1.362	0.074
L	0.294	0.221	-0.325	-0.66	-0.246	0.283	-1.75	0.255	-0.417	-0.562	-1.097	0.22
G	-0.853	-0.824	-0.149	-1.767	-0.805	-0.795	-3.129	-0.139		-0.697	-2.313	-0.531
S	-0.843	-0.817	-0.295	-1.056	-0.557	-0.956	-2.405	-0.04	-0.365	-0.69	-1.694	-0.452
W	-0.166	-0.543	-1.004	-1.36	-0.943	-0.326	-0.671	0.042	-1.1	-1.322	-1.632	-0.368
T	-0.59	-0.587	-0.382	-0.69		-0.651	-2.199	0.07	-0.438	-0.762	-1.568	-0.263
Q		-0.508	-0.398	-0.409	-0.449	-0.353	-1.735	0.108	-0.445	-0.793	-1.307	
E	-0.186		-0.538	-0.379	0.198	0.156	-1.319		-0.562	-0.903	-1.819	0.105
C	0.07	-0.155	-0.709		-0.352	-0.656	-1.477	-0.274	-0.79	-0.789	-1.209	-0.017
R	-0.26	-0.267	-0.004	-0.721	-0.196	-0.371	-0.885	0.654	-0.219	-0.401	-0.632	0.192
P	0.052	-0.008	-0.237	-0.903	-0.341	0.055	-2.098	0.183	-0.327	-0.542	-1.362	0.074
D	-0.252	-1.011	-0.378	-0.551	0.24	0.057	-1.427	-0.336	-0.419	-0.757	-1.835	0.084
F	-0.261	-0.584	-0.882	-1.182	-0.982	-0.39	-1.283	-0.013	-0.972	-1.183	-1.528	-0.387
I	0.294	0.221	-0.325	-0.66	-0.246	0.283	-1.75	0.255	-0.417	-0.562		0.22
H	-0.679	-0.941	-0.24	-2.067	-1.05	-1.008	-1.322	0.618	-0.351	-0.837	-1.556	-0.188
N	-0.78	-0.569	-0.121	-0.665	-0.273	-0.342	-1.755	0.088	-0.216	-0.481	-1.084	-0.42
M	0.614	0.66	-0.362	-0.317	-0.045	-0.03	-1.432	-0.035	-0.65	-0.421	-0.801	0.211
Y	0.035	-0.376	-0.655	-1.141	-0.679	-0.015		0.212	-0.769	-0.985	-1.396	-0.107
K	-0.344	-0.312	-0.41	-0.333	-0.443		-1.447	0.381	-0.576	-0.868	-1.221	0.004