

A	14	GLN	10	-15.632	-14.984
A	15	CYS	11	-16.632	-15.985
A	16	VAL	18	-12.955	-13.535
A	17	ASN	2	-12.273	-11.091
A	18	PHE	36	-11.909	-14.680
A	19	THR	4	-8.403	-7.896
A	20	ASN	23	-7.121	-8.947
A	21	ARG	25	-7.099	-9.157
A	22	THR	16	-6.744	-7.808
A	23	GLN	0	-5.109	-4.521
A	24	LEU	20	-5.177	-6.881
A	25	PRO	2	-5.788	-5.352
A	26	SER	11	-9.617	-9.776
A	27	ALA	19	-10.725	-11.677
A	28	TYR	9	-11.984	-11.641
A	29	THR	21	-13.707	-14.545
A	30	ASN	9	-15.371	-14.639
A	31	SER	31	-16.840	-18.469
A	32	PHE	14	-17.384	-16.995
A	33	THR	17	-18.240	-18.097
A	34	ARG	34	-18.485	-20.269
A	35	GLY	40	-21.327	-23.474
A	36	VAL	30	-20.385	-21.491
A	37	TYR	35	-16.933	-19.011
A	38	TYR	21	-15.009	-15.698
A	39	PRO	25	-14.922	-16.081
A	40	ASP	12	-11.322	-11.400
A	41	LYS	7	-7.013	-7.012
A	42	VAL	9	-12.033	-11.684
A	43	PHE	5	-10.921	-10.240
A	44	ARG	23	-14.427	-15.413
A	45	SER	11	-14.327	-13.944
A	46	SER	12	-15.771	-15.337
A	47	VAL	18	-18.678	-18.600
A	48	LEU	20	-19.861	-19.877
A	49	HIS	26	-19.393	-20.153
A	50	SER	16	-19.149	-18.787
A	51	THR	22	-17.722	-18.214
A	52	GLN	7	-14.988	-14.069
A	53	ASP	24	-14.486	-15.580
A	54	LEU	20	-16.983	-17.330
A	55	PHE	33	-20.125	-21.606
A	56	LEU	34	-19.720	-21.362
A	57	PRO	21	-21.336	-21.298
A	58	PHE	26	-21.521	-22.036
A	59	PHE	12	-19.987	-19.068
A	60	SER	26	-17.572	-18.541
A	61	ASN	5	-15.824	-14.579
A	62	VAL	36	-16.840	-19.043
A	63	THR	21	-15.275	-15.934

A	64	TRP	21	-15.394	-16.039	
A	65	PHE	23	-17.002	-17.691	
A	66	HIS	21	-14.079	-14.875	
A	67	ALA	33	-14.206	-16.367	
A	68	ILE	15	-9.150	-9.823	
A	69	HIS	28	-5.250	-7.867	
A	70	VAL	12	-2.665	-3.739	
A	71	SER	7	-1.666	-2.279	<=B
A	72	GLY	1	-0.848	-0.865	<=B
A	73	THR	15	-0.696	-2.341	<=B
A	74	ASN	11	-0.591	-1.788	<=B
A	75	GLY	13	-2.201	-3.443	<=B
A	76	THR	31	-5.241	-8.203	
A	77	LYS	13	-7.392	-8.037	
A	78	ARG	16	-10.165	-10.836	
A	79	PHE	29	-14.710	-16.353	
A	80	ASP	21	-17.931	-18.284	
A	81	ASN	34	-21.735	-23.145	
A	82	PRO	20	-19.718	-19.751	
A	83	VAL	19	-21.433	-21.154	
A	84	LEU	27	-21.602	-22.223	
A	85	PRO	8	-15.155	-14.333	
A	86	PHE	30	-18.364	-19.702	
A	87	ASN	3	-13.207	-12.033	
A	88	ASP	11	-13.895	-13.562	
A	89	GLY	27	-20.647	-21.378	
A	90	VAL	25	-23.336	-23.528	
A	91	TYR	38	-22.883	-24.621	
A	92	PHE	32	-26.100	-26.778	
A	93	ALA	41	-22.115	-24.286	
A	94	SER	23	-20.105	-20.438	
A	95	THR	25	-15.270	-16.389	
A	96	GLU	26	-14.363	-15.701	
A	97	LYS	21	-7.022	-8.630	
A	98	SER	29	-6.452	-9.045	
A	99	ASN	21	-13.408	-14.281	
A	100	ILE	34	-17.942	-19.788	
A	101	ILE	30	-23.411	-24.169	
A	102	ARG	37	-24.874	-26.269	
A	103	GLY	33	-29.189	-29.627	
A	104	TRP	27	-30.986	-30.527	
A	105	ILE	32	-29.799	-30.052	
A	106	PHE	35	-26.956	-27.881	
A	107	GLY	31	-22.197	-23.210	
A	108	THR	11	-15.672	-15.135	
A	109	THR	13	-13.598	-13.529	
A	110	LEU	25	-18.900	-19.602	
A	111	ASP	5	-14.230	-13.169	
A	112	SER	16	-15.099	-15.203	
A	113	LYS	7	-10.086	-9.731	

A	114	THR	13	-12.160	-12.257	
A	115	GLN	17	-15.699	-15.848	
A	116	SER	32	-21.133	-22.383	
A	117	LEU	29	-24.132	-24.692	
A	118	LEU	38	-28.069	-29.211	
A	119	ILE	23	-28.679	-28.026	
A	120	VAL	28	-27.786	-27.811	
A	121	ASN	16	-24.307	-23.352	
A	122	ASN	24	-21.307	-21.616	
A	123	ALA	16	-14.470	-14.646	
A	124	THR	7	-11.785	-11.235	
A	125	ASN	11	-17.503	-16.756	
A	126	VAL	13	-22.381	-21.302	
A	127	VAL	17	-23.043	-22.348	
A	128	ILE	17	-23.418	-22.680	
A	129	LYS	21	-22.272	-22.126	
A	130	VAL	18	-20.684	-20.375	
A	131	CYS	22	-18.869	-19.229	
A	132	GLU	5	-16.179	-14.893	
A	133	PHE	33	-19.842	-21.355	
A	134	GLN	7	-18.177	-16.891	
A	135	PHE	33	-21.737	-23.032	
A	136	CYS	22	-19.166	-19.492	
A	137	ASN	5	-15.781	-14.541	
A	138	TYR	15	-19.091	-18.621	
A	139	PRO	28	-24.079	-24.530	
A	140	PHE	29	-24.868	-25.343	
A	141	LEU	30	-20.777	-21.838	
A	142	GLY	24	-14.374	-15.481	
A	143	VAL	28	-8.342	-10.602	
A	144	TYR	9	-4.798	-5.281	
A	145	TYR	23	-1.595	-4.057	
A	146	HIS	10	0.572	-0.644	<=B
A	147	LYS	15	1.014	-0.828	<=B
A	148	ASN	0	3.243	2.870	<=B
A	149	ASN	10	2.690	1.230	<=B
A	150	LYS	0	2.575	2.279	<=B
A	151	SER	9	1.226	0.050	<=B
A	152	TRP	23	-1.723	-4.170	
A	153	MET	6	-5.818	-5.839	
A	154	GLU	24	-9.454	-11.127	
A	155	SER	16	-8.661	-9.505	
A	156	GLU	30	-13.575	-15.464	
A	157	PHE	19	-18.857	-18.874	
A	158	ARG	22	-20.337	-20.528	
A	159	VAL	34	-25.762	-26.709	
A	160	TYR	31	-21.709	-22.778	
A	161	SER	11	-17.815	-17.032	
A	162	SER	10	-17.309	-16.469	
A	163	ALA	17	-18.124	-17.995	

A	164	ASN	14	-15.002	-14.887	
A	165	ASN	11	-12.666	-12.474	
A	166	CYS	16	-15.988	-15.989	
A	167	THR	14	-14.398	-14.352	
A	168	PHE	19	-15.650	-16.036	
A	169	GLU	8	-17.120	-16.071	
A	170	TYR	15	-16.643	-16.454	
A	171	VAL	9	-16.826	-15.926	
A	172	SER	18	-13.990	-14.451	
A	173	GLN	0	-9.927	-8.785	
A	174	PRO	1	-9.665	-8.668	
A	175	PHE	12	-6.423	-7.065	
A	176	LEU	7	-5.456	-5.633	
A	177	MET	20	-6.845	-8.358	
A	178	ASP	9	-5.487	-5.891	
A	179	LEU	30	-7.761	-10.318	
A	180	GLU	10	-3.447	-4.201	
A	181	GLY	19	-2.078	-4.024	
A	182	LYS	16	-0.953	-2.683	<=B
A	183	GLN	14	-0.558	-2.104	<=B
A	184	GLY	1	-1.323	-1.286	<=B
A	185	ASN	9	-3.845	-4.438	
A	186	PHE	30	-7.523	-10.108	
A	187	LYS	9	-6.735	-6.995	
A	188	ASN	22	-11.748	-12.927	
A	189	LEU	25	-15.533	-16.622	
A	190	SER	16	-18.349	-18.078	
A	191	GLU	33	-21.949	-23.220	
A	192	PHE	26	-24.536	-24.705	
A	193	VAL	29	-22.176	-22.961	
A	194	PHE	34	-24.358	-25.467	
A	195	LYS	25	-21.340	-21.761	
A	196	ASN	22	-14.269	-15.158	
A	197	ILE	18	-11.284	-12.056	
A	198	ASP	1	-7.018	-6.326	
A	199	GLY	3	-10.776	-9.882	
A	200	TYR	10	-13.508	-13.104	
A	201	PHE	28	-16.405	-17.739	
A	202	LYS	22	-18.099	-18.547	
A	203	ILE	22	-20.454	-20.631	
A	204	TYR	26	-18.161	-19.062	
A	205	SER	17	-18.253	-18.109	
A	206	LYS	23	-16.143	-16.932	
A	207	HIS	8	-12.059	-11.592	
A	208	THR	18	-9.077	-10.103	
A	209	PRO	0	-5.642	-4.993	
A	210	ILE	27	-6.143	-8.542	
A	211	ASN	0	-4.211	-3.726	
A	212	LEU	17	-6.264	-7.499	
A	213	VAL	1	-4.883	-4.436	

A	214	ARG	6	-7.495	-7.323	
A	215	ASP	10	-11.219	-11.078	
A	216	LEU	32	-14.621	-16.620	
A	217	PRO	23	-11.192	-12.550	
A	218	GLN	2	-12.513	-11.304	
A	219	GLY	17	-13.657	-14.041	
A	220	PHE	20	-15.498	-16.016	
A	221	SER	20	-14.760	-15.362	
A	222	ALA	25	-16.372	-17.364	
A	223	LEU	28	-18.104	-19.242	
A	224	GLU	8	-12.639	-12.105	
A	225	PRO	14	-12.999	-13.114	
A	226	LEU	15	-12.743	-13.003	
A	227	VAL	10	-15.164	-14.570	
A	228	ASP	9	-12.773	-12.339	
A	229	LEU	31	-16.049	-17.768	
A	230	PRO	0	-11.663	-10.322	
A	231	ILE	32	-15.898	-17.749	
A	232	GLY	7	-13.185	-12.473	
A	233	ILE	39	-15.672	-18.355	
A	234	ASN	9	-14.572	-13.931	
A	235	ILE	33	-17.833	-19.577	
A	236	THR	7	-15.032	-14.108	
A	237	ARG	13	-20.676	-19.793	
A	238	PHE	35	-26.065	-27.093	
A	239	GLN	29	-27.285	-27.482	
A	240	THR	30	-28.914	-29.039	
A	241	LEU	29	-27.923	-28.047	
A	242	LEU	34	-24.586	-25.669	
A	243	ALA	30	-18.976	-20.244	
A	244	LEU	32	-14.906	-16.872	
A	245	HIS	33	-8.067	-10.934	
A	246	ARG	20	-4.220	-6.035	
A	247	SER	17	-0.902	-2.753	<=B
A	248	TYR	11	0.041	-1.229	<=B
A	249	LEU	13	-0.941	-2.328	<=B
A	250	THR	11	-0.402	-1.620	<=B
A	251	PRO	0	1.118	0.989	<=B
A	252	GLY	2	-1.191	-1.284	<=B
A	253	ASP	17	-2.987	-4.598	
A	254	SER	3	-4.162	-4.028	
A	255	SER	11	-6.140	-6.699	
A	256	SER	12	-6.284	-6.941	
A	257	GLY	9	-4.481	-5.001	
A	258	TRP	30	-4.635	-7.552	
A	259	THR	24	-5.004	-7.189	
A	260	ALA	28	-11.386	-13.297	
A	261	GLY	32	-10.248	-12.749	
A	262	ALA	20	-8.551	-9.868	
A	263	ALA	32	-12.092	-14.382	

A	264	ALA	24	-15.702	-16.656
A	265	TYR	34	-20.370	-21.938
A	266	TYR	32	-19.381	-20.832
A	267	VAL	26	-22.884	-23.242
A	268	GLY	31	-21.805	-22.863
A	269	TYR	14	-19.282	-18.674
A	270	LEU	30	-19.189	-20.432
A	271	GLN	22	-15.120	-15.911
A	272	PRO	7	-14.083	-13.269
A	273	ARG	31	-16.304	-17.994
A	274	THR	19	-18.125	-18.226
A	275	PHE	27	-19.606	-20.457
A	276	LEU	21	-19.433	-19.613
A	277	LEU	32	-18.411	-19.974
A	278	LYS	18	-17.008	-17.122
A	279	TYR	22	-16.561	-17.187
A	280	ASN	8	-12.027	-11.564
A	281	GLU	3	-9.994	-9.190
A	282	ASN	5	-7.340	-7.071
A	283	GLY	10	-11.639	-11.451
A	284	THR	8	-12.730	-12.186
A	285	ILE	29	-15.595	-17.137
A	286	THR	14	-14.352	-14.312
A	287	ASP	13	-15.732	-15.418
A	288	ALA	32	-18.652	-20.187
A	289	VAL	26	-19.455	-20.208
A	290	ASP	24	-21.442	-21.736
A	291	CYS	25	-22.290	-22.601
A	292	ALA	23	-25.038	-24.803
A	293	LEU	28	-24.010	-24.469
A	294	ASP	21	-25.166	-24.687
A	295	PRO	32	-26.657	-27.271
A	296	LEU	22	-26.527	-26.006
A	297	SER	23	-23.260	-23.230
A	298	GLU	26	-24.455	-24.633
A	299	THR	26	-24.028	-24.255
A	300	LYS	30	-18.641	-19.947
A	301	CYS	23	-21.095	-21.314
A	302	THR	23	-19.393	-19.808
A	303	LEU	23	-18.111	-18.674
A	304	LYS	12	-19.138	-18.317
A	305	SER	12	-19.674	-18.791
A	306	PHE	15	-17.819	-17.495
A	307	THR	5	-15.906	-14.651
A	308	VAL	30	-19.996	-21.146
A	309	GLU	7	-18.989	-17.610
A	310	LYS	18	-19.607	-19.422
A	311	GLY	11	-21.261	-20.081
A	312	ILE	29	-24.488	-25.007
A	313	TYR	27	-23.725	-24.101

A	314	GLN	8	-23.083	-21.348
A	315	THR	32	-23.416	-24.403
A	316	SER	20	-23.460	-23.062
A	317	ASN	9	-21.172	-19.773
A	318	PHE	34	-23.492	-24.701
A	319	ARG	13	-19.869	-19.079
A	320	VAL	29	-19.551	-20.638
A	321	GLN	12	-14.965	-14.624
A	322	PRO	17	-12.748	-13.237
A	323	THR	16	-10.536	-11.164
A	324	GLU	12	-10.415	-10.597
A	325	SER	7	-12.533	-11.897
A	326	ILE	27	-12.739	-14.379
A	327	VAL	17	-14.693	-14.959
A	328	ARG	31	-13.552	-15.559
A	329	PHE	26	-13.665	-15.083
A	330	PRO	21	-12.111	-13.134
A	331	ASN	5	-11.953	-11.154
A	332	ILE	25	-14.218	-15.458
A	333	THR	1	-12.131	-10.851
A	334	ASN	10	-14.187	-13.706
A	335	LEU	12	-20.838	-19.821
A	336	CYS	33	-25.130	-26.035
A	337	PRO	16	-24.652	-23.657
A	338	PHE	18	-27.395	-26.315
A	339	GLY	5	-20.435	-18.660
A	340	GLU	15	-20.683	-20.030
A	341	VAL	30	-24.901	-25.487
A	342	PHE	24	-22.574	-22.738
A	343	ASN	8	-16.833	-15.817
A	344	ALA	21	-13.610	-14.460
A	345	THR	1	-8.792	-7.896
A	346	ARG	13	-9.677	-10.059
A	347	PHE	38	-13.893	-16.665
A	348	ALA	23	-11.784	-13.074
A	349	SER	24	-8.323	-10.126
A	350	VAL	38	-10.833	-13.957
A	351	TYR	19	-8.126	-9.376
A	352	ALA	12	-8.076	-8.528
A	353	TRP	34	-11.318	-13.927
A	354	ASN	21	-14.309	-15.078
A	355	ARG	17	-21.090	-20.620
A	356	LYS	21	-23.514	-23.225
A	357	ARG	7	-22.628	-20.831
A	358	ILE	34	-25.964	-26.888
A	359	SER	11	-22.416	-21.103
A	360	ASN	0	-17.986	-15.917
A	361	CYS	20	-20.807	-20.714
A	362	VAL	12	-22.540	-21.328
A	363	ALA	31	-26.581	-27.089

A	364	ASP	13	-24.757	-23.405
A	365	TYR	30	-27.745	-28.005
A	366	SER	9	-22.290	-20.762
A	367	VAL	13	-21.675	-20.678
A	368	LEU	35	-25.144	-26.277
A	369	TYR	16	-23.309	-22.468
A	370	ASN	5	-19.126	-17.501
A	371	SER	18	-18.207	-18.183
A	372	ALA	0	-13.064	-11.562
A	373	SER	19	-13.365	-14.013
A	374	PHE	24	-17.552	-18.294
A	375	SER	17	-13.518	-13.919
A	376	THR	31	-17.502	-19.055
A	377	PHE	17	-23.441	-22.700
A	378	LYS	15	-22.686	-21.802
A	379	CYS	18	-25.237	-24.404
A	380	TYR	24	-21.618	-21.892
A	381	GLY	22	-20.972	-21.090
A	382	VAL	24	-23.118	-23.220
A	383	SER	5	-22.176	-20.201
A	384	PRO	15	-23.061	-22.134
A	385	THR	0	-21.740	-19.240
A	386	LYS	13	-22.622	-21.516
A	387	LEU	27	-25.762	-25.904
A	388	ASN	11	-23.749	-22.283
A	389	ASP	5	-20.807	-18.989
A	390	LEU	24	-23.572	-23.621
A	391	CYS	20	-24.757	-24.210
A	392	PHE	31	-25.289	-25.946
A	393	THR	11	-21.683	-20.454
A	394	ASN	6	-23.533	-21.517
A	395	VAL	31	-27.348	-27.768
A	396	TYR	13	-26.740	-25.160
A	397	ALA	28	-27.740	-27.770
A	398	ASP	26	-24.325	-24.518
A	399	SER	22	-21.229	-21.318
A	400	PHE	34	-14.845	-17.048
A	401	VAL	31	-13.441	-15.461
A	402	ILE	35	-10.903	-13.674
A	403	ARG	25	-8.220	-10.150
A	404	GLY	17	-8.777	-9.723
A	405	ASP	11	-6.154	-6.712
A	406	GLU	29	-7.245	-9.747
A	407	VAL	23	-11.535	-12.854
A	408	ARG	6	-10.854	-10.295
A	409	GLN	27	-9.888	-11.856
A	410	ILE	35	-14.273	-16.657
A	411	ALA	11	-14.572	-14.162
A	412	PRO	18	-10.966	-11.775
A	413	GLY	5	-6.168	-6.034

A	414	GLN	21	-6.115	-7.827	
A	415	THR	2	-4.640	-4.336	
A	416	GLY	19	-5.712	-7.240	
A	417	THR	19	-5.304	-6.879	
A	418	ILE	25	-8.565	-10.455	
A	419	ALA	17	-8.175	-9.190	
A	420	ASP	10	-5.746	-6.235	
A	421	TYR	23	-5.939	-7.901	
A	422	ASN	32	-8.427	-11.138	
A	423	TYR	31	-9.887	-12.315	
A	424	LYS	20	-9.243	-10.480	
A	425	LEU	32	-13.833	-15.922	
A	426	PRO	14	-10.296	-10.722	
A	427	ASP	0	-6.764	-5.986	
A	428	ASP	4	-10.930	-10.133	
A	429	PHE	27	-18.872	-19.806	
A	430	THR	14	-23.518	-22.424	
A	431	GLY	31	-27.742	-28.117	
A	432	CYS	27	-28.451	-28.284	
A	433	VAL	24	-26.329	-26.061	
A	434	ILE	31	-24.882	-25.586	
A	435	ALA	25	-17.834	-18.658	
A	436	TRP	20	-16.117	-16.563	
A	437	ASN	14	-9.273	-9.816	
A	438	SER	34	-8.670	-11.583	
A	439	ASN	20	-3.834	-5.693	
A	440	ASN	4	-3.385	-3.455	<=B
A	441	LEU	20	-5.250	-6.946	
A	442	ASP	34	-4.939	-8.281	
A	443	SER	23	-2.146	-4.544	
A	444	LYS	9	0.792	-0.334	<=B
A	445	VAL	1	2.403	2.011	<=B
A	446	GLY	1	2.532	2.126	<=B
A	447	GLY	9	0.701	-0.415	<=B
A	448	ASN	26	-1.743	-4.532	
A	449	TYR	5	-2.313	-2.622	<=B
A	450	ASN	18	-2.465	-4.252	
A	451	TYR	31	-6.634	-9.436	
A	452	LEU	19	-6.232	-7.700	
A	453	TYR	28	-7.122	-9.523	
A	454	ARG	30	-4.517	-7.447	
A	455	LEU	15	-4.889	-6.051	
A	456	PHE	14	-4.561	-5.647	
A	457	ARG	24	-3.149	-5.547	
A	458	LYS	10	-1.974	-2.897	<=B
A	459	SER	5	-1.295	-1.721	<=B
A	460	ASN	14	-1.923	-3.312	<=B
A	461	LEU	26	-4.221	-6.726	
A	462	LYS	1	-3.320	-3.053	<=B
A	463	PRO	11	-8.093	-8.427	

A	464	PHE	18	-11.413	-12.170	
A	465	GLU	16	-6.126	-7.261	
A	466	ARG	13	-6.280	-7.053	
A	467	ASP	29	-4.931	-7.699	
A	468	ILE	2	-4.863	-4.533	
A	469	SER	20	-3.836	-5.695	
A	470	THR	7	-4.862	-5.108	
A	471	GLU	10	-4.740	-5.345	
A	472	ILE	16	-5.655	-6.844	
A	473	TYR	18	-5.309	-6.768	
A	474	GLN	8	-4.887	-5.245	
A	475	ALA	10	-5.354	-5.888	
A	476	GLY	10	-4.079	-4.760	
A	477	SER	0	-3.374	-2.986	<=B
A	478	THR	9	-4.190	-4.743	
A	479	PRO	1	-3.764	-3.446	<=B
A	480	CYS	18	-4.505	-6.057	
A	481	ASN	0	-3.899	-3.451	<=B
A	482	GLY	5	-3.964	-4.083	
A	483	VAL	0	-5.140	-4.549	
A	484	LYS	1	-5.346	-4.846	
A	485	GLY	16	-5.402	-6.621	
A	486	PHE	2	-4.912	-4.577	
A	487	ASN	5	-5.097	-5.086	
A	488	CYS	20	-6.679	-8.210	
A	489	TYR	11	-6.237	-6.784	
A	490	PHE	9	-6.360	-6.664	
A	491	PRO	21	-5.692	-7.452	
A	492	LEU	20	-5.092	-6.807	
A	493	GLN	13	-4.729	-5.680	
A	494	SER	13	-4.165	-5.181	
A	495	TYR	34	-4.236	-7.658	
A	496	GLY	4	-1.165	-1.491	<=B
A	497	PHE	32	-2.465	-5.862	
A	498	GLN	7	-0.058	-0.856	<=B
A	499	PRO	7	0.653	-0.227	<=B
A	500	THR	3	2.043	1.463	<=B
A	501	TYR	27	1.175	-2.065	<=B
A	502	GLY	1	0.479	0.309	<=B
A	503	VAL	7	-2.781	-3.266	<=B
A	504	GLY	4	-6.373	-6.100	
A	505	TYR	9	-2.700	-3.424	<=B
A	506	GLN	17	-5.103	-6.471	
A	507	PRO	32	-7.642	-10.443	
A	508	TYR	25	-10.808	-12.440	
A	509	ARG	27	-16.054	-17.313	
A	510	VAL	37	-19.923	-21.887	
A	511	VAL	26	-25.625	-25.668	
A	512	VAL	30	-27.841	-28.090	
A	513	LEU	37	-30.503	-31.250	

A	514	SER	22	-27.418	-26.795	
A	515	PHE	38	-28.230	-29.354	
A	516	GLU	11	-24.017	-22.520	
A	517	LEU	16	-22.881	-22.090	
A	518	LEU	10	-19.043	-18.003	
A	519	HIS	7	-15.709	-14.708	
A	520	ALA	11	-15.968	-15.397	
A	521	PRO	9	-16.810	-15.912	
A	522	ALA	30	-20.647	-21.722	
A	523	THR	11	-21.135	-19.970	
A	524	VAL	27	-24.997	-25.228	
A	525	CYS	19	-23.637	-23.103	
A	526	GLY	19	-22.257	-21.883	
A	527	PRO	13	-18.027	-17.449	
A	528	LYS	13	-14.304	-14.154	
A	529	LYS	16	-15.302	-15.382	
A	530	SER	22	-13.338	-14.334	
A	531	THR	12	-11.098	-11.202	
A	532	ASN	3	-8.682	-8.028	
A	533	LEU	21	-9.259	-10.609	
A	534	VAL	16	-6.127	-7.262	
A	535	LYS	13	-8.026	-8.598	
A	536	ASN	3	-10.752	-9.860	
A	537	LYS	13	-11.857	-11.988	
A	538	CYS	19	-13.580	-14.204	
A	539	VAL	23	-12.074	-13.330	
A	540	ASN	5	-13.077	-12.148	
A	541	PHE	32	-12.730	-14.946	
A	542	ASN	17	-14.512	-14.798	
A	543	PHE	29	-13.986	-15.713	
A	544	ASN	20	-15.069	-15.636	
A	545	GLY	18	-16.682	-16.833	
A	546	LEU	20	-13.949	-14.645	
A	547	THR	9	-13.586	-13.058	
A	548	GLY	22	-13.050	-14.080	
A	549	THR	9	-13.324	-12.826	
A	550	GLY	21	-13.163	-14.064	
A	551	VAL	14	-12.723	-12.870	
A	552	LEU	27	-10.528	-12.422	
A	553	THR	15	-9.403	-10.046	
A	554	GLU	6	-6.140	-6.124	
A	555	SER	24	-5.343	-7.488	
A	556	ASN	0	-3.217	-2.847	<=B
A	557	LYS	22	-3.602	-5.718	
A	558	LYS	1	-0.983	-0.985	<=B
A	559	PHE	23	-1.705	-4.154	
A	560	LEU	1	-0.923	-0.932	<=B
A	561	PRO	0	-1.451	-1.285	<=B
A	562	PHE	0	-3.406	-3.014	<=B
A	563	GLN	13	-3.649	-4.724	

A	564	GLN	15	-8.359	-9.123	
A	565	PHE	16	-8.074	-8.985	
A	566	GLY	23	-5.606	-7.607	
A	567	ARG	6	-5.540	-5.593	
A	568	ASP	10	-4.299	-4.954	
A	569	ILE	0	-3.672	-3.249	<=B
A	570	ALA	3	-4.335	-4.181	
A	571	ASP	0	-4.253	-3.764	
A	572	THR	10	-6.271	-6.700	
A	573	THR	26	-7.636	-9.748	
A	574	ASP	11	-7.140	-7.584	
A	575	ALA	20	-7.604	-9.030	
A	576	VAL	28	-9.304	-11.454	
A	577	ARG	13	-8.121	-8.682	
A	578	ASP	22	-8.306	-9.881	
A	579	PRO	23	-9.857	-11.368	
A	580	GLN	15	-8.670	-9.398	
A	581	THR	11	-4.777	-5.493	
A	582	LEU	9	-4.079	-4.645	
A	583	GLU	12	-3.671	-4.629	
A	584	ILE	17	-5.132	-6.497	
A	585	LEU	33	-6.822	-9.833	
A	586	ASP	12	-7.941	-8.408	
A	587	ILE	25	-10.360	-12.044	
A	588	THR	17	-12.086	-12.651	
A	589	PRO	11	-13.405	-13.129	
A	590	CYS	25	-16.943	-17.870	
A	591	SER	19	-19.852	-19.754	
A	592	PHE	13	-21.481	-20.506	
A	593	GLY	23	-23.911	-23.806	
A	594	GLY	13	-24.576	-23.245	
A	595	VAL	30	-27.271	-27.584	
A	596	SER	24	-26.072	-25.833	
A	597	VAL	32	-28.482	-28.886	
A	598	ILE	33	-26.901	-27.603	
A	599	THR	28	-23.810	-24.292	
A	600	PRO	18	-17.085	-17.190	
A	601	GLY	7	-17.246	-16.068	
A	602	THR	17	-16.487	-16.546	
A	603	ASN	6	-13.077	-12.263	
A	604	THR	19	-11.190	-12.088	
A	605	SER	24	-15.257	-16.263	
A	606	ASN	11	-18.069	-17.256	
A	607	GLN	21	-20.249	-20.335	
A	608	VAL	33	-24.489	-25.467	
A	609	ALA	37	-27.234	-28.357	
A	610	VAL	32	-29.452	-29.745	
A	611	LEU	31	-28.385	-28.686	
A	612	TYR	26	-28.344	-28.074	
A	613	GLN	16	-25.320	-24.248	

A	614	GLY	11	-22.769	-21.416
A	615	VAL	28	-22.753	-23.356
A	616	ASN	4	-21.124	-19.155
A	617	CYS	18	-23.209	-22.610
A	618	THR	3	-19.287	-17.414
A	619	GLU	27	-20.846	-21.553
A	620	VAL	34	-24.343	-25.453
A	621	PRO	10	-19.235	-18.173
A	622	VAL	24	-19.038	-19.608
A	623	ALA	30	-19.930	-21.088
A	624	ILE	11	-16.836	-16.165
A	625	HIS	7	-13.906	-13.112
A	626	ALA	26	-15.059	-16.317
A	627	ASP	7	-11.624	-11.092
A	628	GLN	13	-16.087	-15.732
A	629	LEU	17	-20.067	-19.715
A	630	THR	26	-22.546	-22.944
A	631	PRO	17	-22.933	-22.250
A	632	THR	32	-24.008	-24.927
A	633	TRP	28	-25.631	-25.903
A	634	ARG	12	-20.410	-19.442
A	635	VAL	17	-19.994	-19.650
A	636	TYR	38	-24.080	-25.680
A	637	SER	16	-19.551	-19.142
A	638	THR	10	-15.358	-14.742
A	639	GLY	15	-17.802	-17.480
A	640	SER	2	-14.671	-13.214
A	641	ASN	19	-16.880	-17.124
A	642	VAL	20	-21.725	-21.527
A	643	PHE	28	-21.889	-22.592
A	644	GLN	7	-21.540	-19.868
A	645	THR	32	-21.797	-22.971
A	646	ARG	9	-19.799	-18.557
A	647	ALA	24	-21.171	-21.496
A	648	GLY	27	-23.885	-24.243
A	649	CYS	29	-24.766	-25.253
A	650	LEU	30	-27.800	-28.053
A	651	ILE	30	-26.446	-26.855
A	652	GLY	26	-23.681	-23.947
A	653	ALA	38	-20.984	-22.941
A	654	GLU	15	-16.684	-16.490
A	655	TYR	15	-16.063	-15.941
A	656	VAL	26	-13.497	-14.935
A	657	ASN	1	-10.844	-9.712
A	658	ASN	12	-9.256	-9.572
A	659	SER	9	-11.646	-11.342
A	660	TYR	19	-12.129	-12.919
A	661	GLU	3	-12.596	-11.492
A	662	CYS	14	-15.643	-15.454
A	663	ASP	21	-16.983	-17.445

A	664	ILE	29	-19.716	-20.784	
A	665	PRO	3	-18.950	-17.116	
A	666	ILE	41	-21.229	-23.503	
A	667	GLY	21	-19.578	-19.742	
A	668	ALA	12	-17.778	-17.114	
A	669	GLY	10	-16.632	-15.870	
A	670	ILE	29	-19.515	-20.606	
A	671	CYS	17	-19.603	-19.304	
A	672	ALA	37	-20.946	-22.792	
A	673	SER	16	-17.587	-17.404	
A	674	TYR	21	-14.304	-15.074	
A	675	GLN	19	-10.622	-11.586	
A	676	THR	9	-5.685	-6.066	
A	677	GLN	18	-6.299	-7.645	
A	678	THR	10	-3.277	-4.050	
A	679	ASN	1	0.117	-0.011	<=B
A	680	SER	16	0.876	-1.065	<=B
A	681	PRO	0	2.342	2.072	<=B
A	682	ARG	7	2.399	1.318	<=B
A	683	ARG	3	2.517	1.882	<=B
A	684	ALA	1	2.677	2.255	<=B
A	685	ARG	6	1.555	0.687	<=B
A	686	SER	3	1.167	0.688	<=B
A	687	VAL	6	-3.349	-3.654	<=B
A	688	ALA	6	-2.806	-3.174	<=B
A	689	SER	11	-3.627	-4.475	
A	690	GLN	16	-7.132	-8.152	
A	691	SER	22	-11.987	-13.139	
A	692	ILE	36	-17.701	-19.806	
A	693	ILE	21	-16.850	-17.327	
A	694	ALA	29	-19.000	-20.150	
A	695	TYR	22	-17.772	-18.259	
A	696	THR	7	-15.623	-14.632	
A	697	MET	16	-14.464	-14.641	
A	698	SER	10	-10.848	-10.751	
A	699	LEU	4	-9.236	-8.634	
A	700	GLY	3	-7.785	-7.235	
A	701	ALA	2	-6.097	-5.626	
A	702	GLU	5	-4.787	-4.811	
A	703	ASN	6	-2.298	-2.724	<=B
A	704	SER	1	-1.683	-1.604	<=B
A	705	VAL	8	-2.900	-3.486	<=B
A	706	ALA	10	-3.729	-4.450	
A	707	TYR	3	-4.154	-4.021	
A	708	SER	12	-5.495	-6.243	
A	709	ASN	5	-6.062	-5.940	
A	710	ASN	13	-7.055	-7.738	
A	711	SER	8	-6.222	-6.426	
A	712	ILE	24	-7.662	-9.541	
A	713	ALA	12	-3.496	-4.474	

A	714	ILE	26	-3.405	-6.003	
A	715	PRO	18	-3.965	-5.579	
A	716	THR	8	-2.997	-3.572	<=B
A	717	ASN	7	-4.043	-4.383	
A	718	PHE	36	-8.338	-11.520	
A	719	THR	13	-9.036	-9.492	
A	720	ILE	30	-13.077	-15.023	
A	721	SER	18	-18.191	-18.169	
A	722	VAL	31	-24.069	-24.866	
A	723	THR	19	-25.444	-24.703	
A	724	THR	31	-27.036	-27.492	
A	725	GLU	28	-27.412	-27.480	
A	726	ILE	22	-26.250	-25.761	
A	727	LEU	31	-26.962	-27.427	
A	728	PRO	24	-26.789	-26.468	
A	729	VAL	33	-26.821	-27.531	
A	730	SER	33	-25.516	-26.377	
A	731	MET	32	-22.714	-23.782	
A	732	THR	31	-24.465	-25.217	
A	733	LYS	21	-24.387	-23.997	
A	734	THR	35	-24.929	-26.087	
A	735	SER	15	-25.594	-24.376	
A	736	VAL	41	-28.290	-29.751	
A	737	ASP	17	-27.551	-26.338	
A	738	CYS	25	-28.806	-28.368	
A	739	THR	14	-28.015	-26.403	
A	740	MET	13	-28.253	-26.499	
A	741	TYR	33	-30.430	-30.726	
A	742	ILE	34	-29.223	-29.772	
A	743	CYS	22	-27.969	-27.283	
A	744	GLY	23	-26.534	-26.127	
A	745	ASP	6	-21.672	-19.870	
A	746	SER	28	-19.411	-20.398	
A	747	THR	3	-17.051	-15.435	
A	748	GLU	21	-17.549	-17.946	
A	749	CYS	29	-21.247	-22.139	
A	750	SER	8	-21.160	-19.647	
A	751	ASN	9	-17.057	-16.131	
A	752	LEU	28	-19.562	-20.532	
A	753	LEU	27	-22.278	-22.821	
A	754	LEU	7	-19.215	-17.810	
A	755	GLN	13	-16.366	-15.979	
A	756	TYR	27	-18.279	-19.282	
A	757	GLY	0	-16.416	-14.528	
A	758	SER	3	-16.031	-14.532	
A	759	PHE	26	-21.509	-22.026	
A	760	CYS	24	-24.342	-24.303	
A	761	THR	5	-19.982	-18.259	
A	762	GLN	13	-18.239	-17.636	
A	763	LEU	29	-22.860	-23.566	

A	764	ASN	15	-22.434	-21.579	
A	765	ARG	5	-17.812	-16.338	
A	766	ALA	22	-17.107	-17.670	
A	767	LEU	27	-21.933	-22.516	
A	768	THR	8	-18.875	-17.624	
A	769	GLY	16	-16.474	-16.419	
A	770	ILE	28	-19.110	-20.132	
A	771	ALA	18	-21.728	-21.299	
A	772	VAL	6	-17.172	-15.887	
A	773	GLU	19	-16.587	-16.864	
A	774	GLN	33	-19.445	-21.004	
A	775	ASP	17	-17.783	-17.693	
A	776	LYS	14	-15.747	-15.546	
A	777	ASN	31	-21.891	-22.939	
A	778	THR	27	-23.270	-23.699	
A	779	GLN	9	-20.828	-19.468	
A	780	GLU	21	-20.921	-20.930	
A	781	VAL	39	-26.008	-27.503	
A	782	PHE	33	-25.094	-26.003	
A	783	ALA	14	-20.150	-19.443	
A	784	GLN	34	-20.777	-22.298	
A	785	VAL	31	-17.531	-19.080	
A	786	LYS	3	-12.423	-11.339	
A	787	GLN	18	-12.403	-13.047	
A	788	ILE	11	-11.196	-11.174	
A	789	TYR	29	-13.196	-15.014	
A	790	LYS	5	-10.323	-9.711	
A	791	THR	31	-11.475	-13.720	
A	792	PRO	17	-4.762	-6.169	
A	793	PRO	0	-1.443	-1.277	<=B
A	794	ILE	3	-1.829	-1.964	<=B
A	795	LYS	13	-6.071	-6.868	
A	796	ASP	6	-6.673	-6.596	
A	797	PHE	27	-10.276	-12.199	
A	798	GLY	21	-9.289	-10.636	
A	799	GLY	17	-7.580	-8.663	
A	800	PHE	32	-13.687	-15.793	
A	801	ASN	17	-13.155	-13.597	
A	802	PHE	32	-16.750	-18.504	
A	803	SER	13	-10.976	-11.209	
A	804	GLN	24	-13.697	-14.881	
A	805	ILE	39	-20.397	-22.536	
A	806	LEU	21	-16.484	-17.004	
A	807	PRO	28	-11.994	-13.835	
A	808	ASP	14	-5.992	-6.913	
A	809	PRO	5	-1.448	-1.856	<=B
A	810	SER	4	0.936	0.368	<=B
A	811	LYS	20	-2.134	-4.189	
A	812	PRO	0	-1.495	-1.323	<=B
A	813	SER	21	-5.821	-7.567	

A	814	LYS	15	-6.901	-7.832
A	815	ARG	22	-13.554	-14.525
A	816	SER	33	-17.296	-19.102
A	817	PHE	14	-14.530	-14.469
A	818	ILE	35	-20.883	-22.506
A	819	GLU	33	-20.969	-22.352
A	820	ASP	15	-14.984	-14.986
A	821	LEU	26	-17.051	-18.080
A	822	LEU	35	-21.234	-22.817
A	823	PHE	21	-17.078	-17.529
A	824	ASN	14	-13.996	-13.996
A	825	LYS	28	-14.726	-16.252
A	826	VAL	38	-16.339	-18.830
A	827	THR	5	-18.650	-17.080
A	828	LEU	23	-22.028	-22.140
A	829	ALA	25	-22.614	-22.889
A	830	ASP	27	-21.146	-21.819
A	831	ALA	14	-20.314	-19.588
A	832	GLY	22	-17.456	-17.979
A	833	PHE	9	-13.406	-12.900
A	834	ILE	3	-13.910	-12.655
A	835	LYS	24	-13.430	-14.645
A	836	GLN	3	-9.797	-9.015
A	837	TYR	1	-11.389	-10.194
A	838	GLY	1	-8.360	-7.514
A	839	ASP	8	-10.930	-10.593
A	840	CYS	16	-15.813	-15.835
A	841	LEU	4	-12.368	-11.406
A	842	GLY	5	-8.012	-7.665
A	843	ASP	2	-8.830	-8.045
A	844	ILE	12	-12.854	-12.756
A	845	ALA	11	-15.439	-14.929
A	846	ALA	13	-15.465	-15.182
A	847	ARG	11	-17.378	-16.645
A	848	ASP	21	-18.364	-18.667
A	849	LEU	18	-21.515	-21.111
A	850	ILE	24	-22.638	-22.795
A	851	CYS	15	-20.938	-20.255
A	852	ALA	24	-24.586	-24.519
A	853	GLN	28	-26.536	-26.704
A	854	LYS	23	-26.150	-25.788
A	855	PHE	17	-26.272	-25.206
A	856	ASN	25	-29.054	-28.588
A	857	GLY	26	-28.891	-28.559
A	858	LEU	31	-29.656	-29.810
A	859	THR	18	-27.049	-26.008
A	860	VAL	29	-23.210	-23.875
A	861	LEU	19	-22.738	-22.308
A	862	PRO	11	-18.406	-17.554
A	863	PRO	28	-17.587	-18.785

A	864	LEU	18	-13.364	-13.897
A	865	LEU	29	-15.327	-16.899
A	866	THR	9	-12.962	-12.507
A	867	ASP	24	-16.076	-16.987
A	868	GLU	8	-11.919	-11.468
A	869	MET	14	-14.499	-14.442
A	870	ILE	31	-20.994	-22.145
A	871	ALA	23	-19.001	-19.461
A	872	GLN	11	-15.830	-15.275
A	873	TYR	27	-20.710	-21.433
A	874	THR	39	-23.611	-25.381
A	875	SER	23	-19.234	-19.667
A	876	ALA	22	-18.379	-18.795
A	877	LEU	37	-24.631	-26.054
A	878	LEU	32	-23.936	-24.864
A	879	ALA	25	-20.088	-20.653
A	880	GLY	35	-22.297	-23.758
A	881	THR	32	-23.982	-24.904
A	882	ILE	29	-20.512	-21.488
A	883	THR	20	-16.464	-16.870
A	884	SER	27	-17.198	-18.325
A	885	GLY	17	-20.697	-20.272
A	886	TRP	22	-21.743	-21.772
A	887	THR	15	-17.007	-16.776
A	888	PHE	31	-18.096	-19.580
A	889	GLY	25	-19.932	-20.515
A	890	ALA	13	-14.305	-14.155
A	891	GLY	4	-11.272	-10.436
A	892	ALA	2	-11.883	-10.746
A	893	ALA	22	-13.892	-14.824
A	894	LEU	11	-11.758	-11.671
A	895	GLN	10	-11.141	-11.010
A	896	ILE	19	-11.096	-12.005
A	897	PRO	11	-11.391	-11.346
A	898	PHE	26	-14.563	-15.879
A	899	ALA	19	-13.003	-13.693
A	900	MET	9	-11.248	-10.990
A	901	GLN	31	-14.065	-16.012
A	902	MET	28	-14.553	-16.100
A	903	ALA	15	-10.730	-11.221
A	904	TYR	17	-11.135	-11.809
A	905	ARG	38	-15.126	-17.756
A	906	PHE	27	-10.984	-12.826
A	907	ASN	10	-8.810	-8.947
A	908	GLY	30	-11.232	-13.390
A	909	ILE	33	-9.791	-12.460
A	910	GLY	21	-6.691	-8.337
A	911	VAL	36	-7.629	-10.891
A	912	THR	19	-3.714	-5.472
A	913	GLN	11	-5.122	-5.798

A	914	ASN	7	-1.213	-1.879	<=B
A	915	VAL	29	-3.247	-6.209	
A	916	LEU	26	-7.407	-9.545	
A	917	TYR	9	-2.638	-3.369	<=B
A	918	GLU	11	-2.041	-3.071	<=B
A	919	ASN	23	-2.782	-5.107	
A	920	GLN	19	-5.065	-6.668	
A	921	LYS	1	-4.486	-4.085	
A	922	LEU	14	-4.180	-5.309	
A	923	ILE	28	-8.952	-11.142	
A	924	ALA	20	-10.807	-11.865	
A	925	ASN	7	-7.572	-7.506	
A	926	GLN	23	-11.137	-12.501	
A	927	PHE	30	-15.068	-16.785	
A	928	ASN	12	-14.172	-13.922	
A	929	SER	11	-12.965	-12.739	
A	930	ALA	28	-17.511	-18.718	
A	931	ILE	25	-19.122	-19.798	
A	932	GLY	10	-15.621	-14.975	
A	933	LYS	14	-14.935	-14.828	
A	934	ILE	35	-19.424	-21.215	
A	935	GLN	15	-15.581	-15.514	
A	936	ASP	8	-11.795	-11.358	
A	937	SER	18	-13.968	-14.431	
A	938	LEU	30	-15.241	-16.938	
A	939	SER	8	-10.134	-9.888	
A	940	SER	6	-8.501	-8.213	
A	941	THR	10	-10.343	-10.303	
A	942	ALA	3	-10.781	-9.886	
A	943	SER	4	-14.963	-13.702	
A	944	ALA	27	-19.418	-20.290	
A	945	LEU	33	-20.639	-22.061	
A	946	GLY	7	-18.362	-17.056	
A	947	LYS	21	-20.011	-20.125	
A	948	LEU	32	-24.055	-24.968	
A	949	GLN	12	-19.210	-18.381	
A	950	ASP	15	-20.552	-19.913	
A	951	VAL	35	-21.869	-23.379	
A	952	VAL	21	-23.925	-23.588	
A	953	ASN	11	-21.884	-20.633	
A	954	GLN	23	-20.137	-20.466	
A	955	ASN	36	-24.588	-25.900	
A	956	ALA	17	-24.184	-23.358	
A	957	GLN	11	-23.764	-22.296	
A	958	ALA	29	-24.352	-24.886	
A	959	LEU	30	-26.566	-26.961	
A	960	ASN	15	-26.560	-25.231	
A	961	THR	22	-25.985	-25.526	
A	962	LEU	38	-29.442	-30.426	
A	963	VAL	20	-29.430	-28.346	

A	964	LYS	12	-26.679	-24.991
A	965	GLN	27	-25.877	-26.006
A	966	LEU	28	-27.809	-27.831
A	967	SER	11	-23.635	-22.182
A	968	SER	21	-21.134	-21.118
A	969	ASN	4	-16.897	-15.414
A	970	PHE	23	-15.844	-16.667
A	971	GLY	7	-10.999	-10.539
A	972	ALA	30	-13.728	-15.599
A	973	ILE	13	-10.341	-10.647
A	974	SER	12	-13.123	-12.994
A	975	SER	9	-20.051	-18.780
A	976	VAL	4	-20.897	-18.954
A	977	LEU	24	-21.819	-22.070
A	978	ASN	4	-18.242	-16.604
A	979	ASP	11	-12.146	-12.014
A	980	ILE	31	-14.986	-16.828
A	981	LEU	17	-13.660	-14.044
A	982	SER	7	-10.258	-9.883
A	983	ARG	12	-9.359	-9.663
A	984	LEU	20	-10.702	-11.771
A	985	ASP	1	-9.804	-8.791
A	986	LYS	2	-10.243	-9.295
A	987	VAL	0	-10.345	-9.155
A	988	GLU	10	-11.232	-11.090
A	989	ALA	20	-14.576	-15.200
A	990	GLU	7	-15.388	-14.423
A	991	VAL	6	-14.593	-13.605
A	992	GLN	22	-15.842	-16.550
A	993	ILE	31	-19.845	-21.128
A	994	ASP	10	-19.199	-18.141
A	995	ARG	18	-18.291	-18.258
A	996	LEU	35	-21.529	-23.078
A	997	ILE	23	-23.311	-23.275
A	998	THR	10	-20.763	-19.526
A	999	GLY	22	-20.871	-21.001
A	1000	ARG	34	-24.741	-25.806
A	1001	LEU	21	-25.470	-24.956
A	1002	GLN	9	-21.024	-19.641
A	1003	SER	32	-23.421	-24.408
A	1004	LEU	32	-25.907	-26.608
A	1005	GLN	10	-21.699	-20.353
A	1006	THR	19	-19.967	-19.855
A	1007	TYR	39	-22.993	-24.834
A	1008	VAL	25	-22.329	-22.636
A	1009	THR	7	-15.347	-14.387
A	1010	GLN	20	-14.947	-15.528
A	1011	GLN	39	-21.425	-23.446
A	1012	LEU	14	-16.244	-15.986
A	1013	ILE	8	-13.369	-12.751

A	1014	ARG	28	-17.617	-18.811
A	1015	ALA	22	-19.357	-19.661
A	1016	ALA	6	-15.994	-14.845
A	1017	GLU	18	-16.732	-16.878
A	1018	ILE	35	-20.751	-22.390
A	1019	ARG	13	-20.698	-19.813
A	1020	ALA	8	-17.486	-16.395
A	1021	SER	24	-22.472	-22.648
A	1022	ALA	27	-23.226	-23.660
A	1023	ASN	7	-19.477	-18.042
A	1024	LEU	21	-20.830	-20.850
A	1025	ALA	36	-25.957	-27.112
A	1026	ALA	19	-24.340	-23.726
A	1027	ILE	12	-22.257	-21.077
A	1028	LYS	35	-26.685	-27.641
A	1029	MET	35	-29.606	-30.227
A	1030	SER	11	-23.231	-21.824
A	1031	GLU	16	-23.676	-22.793
A	1032	CYS	38	-28.688	-29.759
A	1033	VAL	33	-28.949	-29.415
A	1034	LEU	25	-26.348	-26.193
A	1035	GLY	15	-24.307	-23.237
A	1036	GLN	24	-22.964	-23.083
A	1037	SER	24	-21.752	-22.011
A	1038	LYS	9	-13.451	-12.939
A	1039	ARG	16	-13.243	-13.560
A	1040	VAL	2	-12.757	-11.520
A	1041	ASP	1	-16.440	-14.664
A	1042	PHE	20	-19.470	-19.531
A	1043	CYS	33	-26.343	-27.109
A	1044	GLY	28	-24.441	-24.851
A	1045	LYS	2	-19.499	-17.487
A	1046	GLY	25	-14.752	-15.930
A	1047	TYR	21	-13.230	-14.124
A	1048	HIS	27	-20.093	-20.888
A	1049	LEU	36	-20.608	-22.378
A	1050	MET	34	-26.989	-27.795
A	1051	SER	37	-29.078	-29.989
A	1052	PHE	35	-28.725	-29.446
A	1053	PRO	42	-28.840	-30.353
A	1054	GLN	36	-25.120	-26.371
A	1055	SER	29	-25.917	-26.272
A	1056	ALA	33	-24.762	-25.709
A	1057	PRO	25	-24.153	-24.251
A	1058	HIS	38	-26.580	-27.893
A	1059	GLY	32	-26.794	-27.393
A	1060	VAL	44	-28.296	-30.102
A	1061	VAL	35	-27.375	-28.252
A	1062	PHE	36	-30.908	-31.494
A	1063	LEU	36	-29.281	-30.054

A	1064	HIS	28	-29.012	-28.895	
A	1065	VAL	36	-25.890	-27.053	
A	1066	THR	21	-20.455	-20.518	
A	1067	TYR	32	-13.407	-15.546	
A	1068	VAL	17	-10.872	-11.576	
A	1069	PRO	17	-8.168	-9.184	
A	1070	ALA	12	-6.221	-6.885	
A	1071	GLN	7	-3.313	-3.737	
A	1072	GLU	15	-3.182	-4.541	
A	1073	LYS	16	-3.004	-4.499	
A	1074	ASN	9	-2.942	-3.639	<=B
A	1075	PHE	30	-5.530	-8.344	
A	1076	THR	12	-6.596	-7.218	
A	1077	THR	25	-8.162	-10.099	
A	1078	ALA	27	-9.345	-11.375	
A	1079	PRO	12	-9.874	-10.119	
A	1080	ALA	20	-10.235	-11.358	
A	1081	ILE	30	-9.348	-11.723	
A	1082	CYS	13	-9.349	-9.769	
A	1083	HIS	22	-7.684	-9.330	
A	1084	ASP	13	-7.502	-8.134	
A	1085	GLY	0	-8.173	-7.233	
A	1086	LYS	13	-8.543	-9.055	
A	1087	ALA	15	-9.272	-9.931	
A	1088	HIS	28	-8.750	-10.964	
A	1089	PHE	13	-8.556	-9.068	
A	1090	PRO	20	-5.941	-7.558	
A	1091	ARG	11	-5.580	-6.203	
A	1092	GLU	16	-4.477	-5.802	
A	1093	GLY	30	-5.678	-8.475	
A	1094	VAL	22	-7.519	-9.184	
A	1095	PHE	33	-8.245	-11.092	
A	1096	VAL	24	-7.266	-9.191	
A	1097	SER	18	-6.228	-7.582	
A	1098	ASN	12	-3.621	-4.584	
A	1099	GLY	2	-4.125	-3.880	
A	1100	THR	0	-3.904	-3.455	<=B
A	1101	HIS	9	-3.285	-3.942	
A	1102	TRP	26	-5.484	-7.843	
A	1103	PHE	19	-4.883	-6.506	
A	1104	VAL	24	-6.147	-8.200	
A	1105	THR	26	-5.646	-7.987	
A	1106	GLN	18	-3.851	-5.478	
A	1107	ARG	13	-5.611	-6.461	
A	1108	ASN	23	-4.805	-6.897	
A	1109	PHE	22	-4.482	-6.496	
A	1110	TYR	21	-3.522	-5.532	
A	1111	GLU	20	-1.611	-3.726	
A	1112	PRO	20	-2.883	-4.852	
A	1113	GLN	23	-2.211	-4.601	

A	1114	ILE	7	-3.317	-3.741	
A	1115	ILE	31	-5.127	-8.102	
A	1116	THR	10	-5.179	-5.733	
A	1117	THR	8	-4.694	-5.074	
A	1118	ASP	8	-3.099	-3.662	<=B
A	1119	ASN	25	-5.401	-7.655	
A	1120	THR	32	-6.369	-9.316	
A	1121	PHE	4	-7.124	-6.764	
A	1122	VAL	15	-7.810	-8.637	
A	1123	SER	8	-8.294	-8.260	
A	1124	GLY	10	-8.756	-8.899	
A	1125	ASN	3	-8.641	-7.993	
A	1126	CYS	12	-10.649	-10.804	
A	1127	ASP	0	-9.610	-8.505	
A	1128	VAL	8	-9.383	-9.224	
A	1129	VAL	23	-10.698	-12.113	
A	1130	ILE	2	-10.127	-9.192	
A	1131	GLY	11	-10.187	-10.280	
A	1132	ILE	23	-10.563	-11.993	
A	1133	VAL	21	-9.501	-10.824	
A	1134	ASN	2	-8.071	-7.373	
A	1135	ASN	33	-6.901	-9.902	
A	1136	THR	4	-6.322	-6.055	
A	1137	VAL	25	-6.849	-8.937	
A	1138	TYR	14	-3.955	-5.110	
A	1139	ASP	11	-3.138	-4.042	
A	1140	PRO	8	-1.023	-1.825	<=B
A	1141	LEU	3	-0.665	-0.933	<=B
A	1142	GLN	7	-0.239	-1.017	<=B
A	1143	PRO	6	0.810	0.027	<=B
A	1144	GLU	5	0.686	0.032	<=B
A	1145	LEU	5	0.971	0.285	<=B
A	1146	ASP	6	1.982	1.064	<=B
A	1147	SER	5	1.068	0.370	<=B
A	1148	PHE	6	1.138	0.317	<=B
A	1149	LYS	6	1.732	0.843	<=B
A	1150	GLU	5	2.624	1.747	<=B
A	1151	GLU	6	2.410	1.443	<=B
A	1152	LEU	7	2.169	1.115	<=B
A	1153	ASP	6	2.851	1.833	<=B
A	1154	LYS	5	2.856	1.953	<=B
A	1155	TYR	5	2.670	1.788	<=B
A	1156	PHE	6	3.000	1.965	<=B
A	1157	LYS	6	3.276	2.209	<=B
A	1158	ASN	6	3.171	2.116	<=B
A	1159	HIS	7	2.973	1.827	<=B
A	1160	THR	5	3.207	2.263	<=B
A	1161	SER	5	3.112	2.179	<=B
A	1162	PRO	4	3.210	2.381	<=B

Identified 95 B-Cell epitope residues out of 1149 total residues