

A	14	GLN	10	-15.544	-14.907
A	15	CYS	11	-16.495	-15.863
A	16	VAL	18	-13.195	-13.748
A	17	ASN	2	-11.220	-10.160
A	18	LEU	37	-11.616	-14.535
A	19	ARG	6	-7.891	-7.674
A	20	THR	21	-6.996	-8.606
A	21	ARG	25	-6.849	-8.936
A	22	THR	16	-6.307	-7.422
A	23	GLN	0	-4.408	-3.901
A	24	LEU	20	-4.527	-6.307
A	25	PRO	2	-4.690	-4.381
A	26	PRO	8	-8.096	-8.085
A	27	ALA	19	-9.009	-10.158
A	28	TYR	9	-10.215	-10.076
A	29	THR	21	-12.347	-13.342
A	30	ASN	9	-14.186	-13.590
A	31	SER	31	-15.649	-17.415
A	32	PHE	14	-16.410	-16.133
A	33	THR	17	-17.589	-17.522
A	34	ARG	34	-17.443	-19.347
A	35	GLY	40	-20.015	-22.313
A	36	VAL	30	-19.708	-20.891
A	37	TYR	35	-16.265	-18.420
A	38	TYR	21	-14.329	-15.096
A	39	PRO	25	-14.481	-15.691
A	40	ASP	12	-11.012	-11.125
A	41	LYS	7	-6.709	-6.743
A	42	VAL	9	-12.034	-11.685
A	43	PHE	5	-10.921	-10.240
A	44	ARG	23	-14.427	-15.413
A	45	SER	12	-14.319	-14.052
A	46	SER	11	-15.753	-15.207
A	47	VAL	18	-19.129	-18.999
A	48	LEU	19	-19.830	-19.735
A	49	HIS	26	-19.399	-20.158
A	50	SER	16	-19.156	-18.793
A	51	THR	22	-17.424	-17.950
A	52	GLN	7	-14.995	-14.076
A	53	ASP	23	-14.225	-15.234
A	54	LEU	20	-16.614	-17.003
A	55	PHE	34	-19.630	-21.282
A	56	LEU	34	-18.788	-20.537
A	57	PRO	22	-20.539	-20.707
A	58	PHE	26	-20.737	-21.342
A	59	PHE	12	-19.118	-18.299
A	60	SER	26	-16.870	-17.920
A	61	ASN	5	-14.626	-13.519
A	62	VAL	37	-15.445	-17.924
A	63	THR	21	-13.548	-14.405

A	64	TRP	21	-13.651	-14.497	
A	65	PHE	24	-15.452	-16.435	
A	66	HIS	21	-12.703	-13.658	
A	67	ALA	32	-13.053	-15.232	
A	68	ILE	15	-7.941	-8.753	
A	69	HIS	28	-4.722	-7.399	
A	70	VAL	12	-2.565	-3.650	<=B
A	71	SER	7	-2.027	-2.599	<=B
A	72	GLY	1	-1.194	-1.171	<=B
A	73	THR	15	-0.750	-2.389	<=B
A	74	ASN	10	-0.886	-1.934	<=B
A	75	GLY	13	-2.204	-3.446	<=B
A	76	THR	32	-4.430	-7.601	
A	77	LYS	13	-7.030	-7.716	
A	78	ARG	16	-9.291	-10.063	
A	79	PHE	27	-13.677	-15.210	
A	80	ASP	20	-16.654	-17.039	
A	81	ASN	34	-20.475	-22.030	
A	82	PRO	20	-18.454	-18.632	
A	83	VAL	19	-20.241	-20.099	
A	84	LEU	27	-20.297	-21.068	
A	85	PRO	8	-13.939	-13.256	
A	86	PHE	29	-17.267	-18.616	
A	87	ASN	3	-12.388	-11.308	
A	88	ASP	11	-13.319	-13.053	
A	89	GLY	27	-19.848	-20.671	
A	90	VAL	25	-22.100	-22.433	
A	91	TYR	39	-21.609	-23.609	
A	92	PHE	32	-24.465	-25.331	
A	93	ALA	42	-20.331	-22.823	
A	94	SER	24	-18.322	-18.975	
A	95	THR	25	-13.783	-15.073	
A	96	GLU	26	-13.140	-14.619	
A	97	LYS	21	-6.198	-7.900	
A	98	SER	29	-5.997	-8.642	
A	99	ASN	21	-12.881	-13.815	
A	100	ILE	34	-16.884	-18.852	
A	101	ILE	30	-22.128	-23.033	
A	102	ARG	37	-23.775	-25.296	
A	103	GLY	33	-28.057	-28.625	
A	104	TRP	27	-29.760	-29.443	
A	105	ILE	32	-28.494	-28.898	
A	106	PHE	35	-26.048	-27.077	
A	107	GLY	31	-22.069	-23.096	
A	108	THR	11	-15.417	-14.909	
A	109	THR	14	-13.475	-13.536	
A	110	LEU	25	-18.379	-19.140	
A	111	ASP	5	-13.710	-12.708	
A	112	SER	16	-14.987	-15.103	
A	113	LYS	7	-9.883	-9.552	

A	114	THR	13	-11.977	-12.095	
A	115	GLN	17	-15.516	-15.687	
A	116	SER	33	-20.887	-22.280	
A	117	LEU	29	-23.567	-24.191	
A	118	LEU	37	-27.335	-28.446	
A	119	ILE	23	-28.010	-27.434	
A	120	VAL	28	-27.114	-27.216	
A	121	ASN	16	-23.594	-22.721	
A	122	ASN	24	-20.780	-21.150	
A	123	ALA	16	-13.846	-14.094	
A	124	THR	7	-11.444	-10.933	
A	125	ASN	12	-16.892	-16.329	
A	126	VAL	13	-21.686	-20.687	
A	127	VAL	17	-22.439	-21.813	
A	128	ILE	17	-22.831	-22.160	
A	129	LYS	21	-22.049	-21.928	
A	130	VAL	18	-20.490	-20.203	
A	131	CYS	21	-18.907	-19.148	
A	132	GLU	5	-15.943	-14.685	
A	133	PHE	32	-19.724	-21.135	
A	134	GLN	7	-17.689	-16.459	
A	135	PHE	34	-21.459	-22.901	
A	136	CYS	22	-18.918	-19.272	
A	137	ASN	6	-15.095	-14.049	
A	138	ASP	19	-18.280	-18.363	
A	139	PRO	28	-22.921	-23.505	
A	140	PHE	30	-23.916	-24.616	
A	141	LEU	29	-20.332	-21.328	
A	142	GLY	24	-14.157	-15.289	
A	143	VAL	28	-8.172	-10.452	
A	144	TYR	9	-4.949	-5.415	
A	145	TYR	23	-1.768	-4.210	
A	146	HIS	10	0.675	-0.553	<=B
A	147	LYS	15	0.869	-0.956	<=B
A	148	ASN	0	3.239	2.867	<=B
A	149	ASN	10	2.686	1.227	<=B
A	150	LYS	0	2.566	2.271	<=B
A	151	SER	8	1.355	0.279	<=B
A	152	TRP	23	-1.900	-4.327	
A	153	MET	6	-5.855	-5.871	
A	154	GLU	24	-9.222	-10.921	
A	155	SER	16	-8.927	-9.740	
A	156	GLU	31	-13.573	-15.577	
A	157	PHE	19	-18.776	-18.802	
A	158	ARG	22	-20.222	-20.426	
A	159	VAL	35	-25.588	-26.671	
A	160	TYR	31	-21.490	-22.584	
A	161	SER	11	-17.610	-16.850	
A	162	SER	10	-17.223	-16.392	
A	163	ALA	17	-18.022	-17.904	

A	164	ASN	14	-14.789	-14.698	
A	165	ASN	11	-12.640	-12.451	
A	166	CYS	16	-15.974	-15.977	
A	167	THR	14	-14.381	-14.337	
A	168	PHE	19	-15.638	-16.024	
A	169	GLU	8	-17.109	-16.062	
A	170	TYR	15	-16.637	-16.449	
A	171	VAL	9	-16.602	-15.728	
A	172	SER	18	-13.636	-14.138	
A	173	GLN	0	-9.662	-8.551	
A	174	PRO	1	-9.756	-8.749	
A	175	PHE	12	-6.063	-6.745	
A	176	LEU	7	-5.070	-5.292	
A	177	MET	20	-6.302	-7.878	
A	178	ASP	9	-4.978	-5.440	
A	179	LEU	30	-7.264	-9.878	
A	180	GLU	10	-3.119	-3.910	
A	181	GLY	19	-1.555	-3.561	<=B
A	182	LYS	16	-0.500	-2.282	<=B
A	183	GLN	14	-0.064	-1.667	<=B
A	184	GLY	1	-0.831	-0.851	<=B
A	185	ASN	9	-2.850	-3.558	<=B
A	186	PHE	30	-6.419	-9.130	
A	187	LYS	9	-5.873	-6.232	
A	188	ASN	23	-10.704	-12.118	
A	189	LEU	25	-13.740	-15.035	
A	190	ARG	17	-17.240	-17.212	
A	191	GLU	33	-20.187	-21.661	
A	192	PHE	26	-23.236	-23.554	
A	193	VAL	27	-21.313	-21.967	
A	194	PHE	34	-23.678	-24.865	
A	195	LYS	25	-20.843	-21.321	
A	196	ASN	22	-13.924	-14.853	
A	197	ILE	18	-11.293	-12.065	
A	198	ASP	1	-7.036	-6.342	
A	199	GLY	3	-10.782	-9.887	
A	200	TYR	10	-13.512	-13.109	
A	201	PHE	28	-15.999	-17.379	
A	202	LYS	22	-17.583	-18.091	
A	203	ILE	22	-19.525	-19.809	
A	204	TYR	27	-17.358	-18.467	
A	205	SER	20	-16.961	-17.310	
A	206	LYS	23	-14.803	-15.745	
A	207	HIS	7	-11.584	-11.057	
A	208	THR	18	-8.083	-9.223	
A	209	PRO	0	-4.752	-4.206	
A	210	ILE	27	-5.308	-7.802	
A	211	ASN	0	-3.506	-3.103	<=B
A	212	LEU	17	-5.282	-6.630	
A	213	VAL	1	-3.885	-3.554	<=B

A	214	ARG	6	-6.298	-6.264	
A	215	ASP	10	-9.924	-9.932	
A	216	LEU	32	-13.267	-15.421	
A	217	PRO	23	-10.031	-11.522	
A	218	GLN	1	-11.579	-10.362	
A	219	GLY	17	-12.983	-13.445	
A	220	PHE	21	-14.518	-15.263	
A	221	SER	20	-13.992	-14.683	
A	222	ALA	25	-15.620	-16.698	
A	223	LEU	28	-17.259	-18.494	
A	224	GLU	7	-11.903	-11.340	
A	225	PRO	14	-12.342	-12.533	
A	226	LEU	15	-12.060	-12.398	
A	227	VAL	11	-14.361	-13.974	
A	228	ASP	9	-12.323	-11.941	
A	229	LEU	31	-15.679	-17.441	
A	230	PRO	0	-11.658	-10.317	
A	231	ILE	32	-15.875	-17.730	
A	232	GLY	7	-13.158	-12.449	
A	233	ILE	39	-15.648	-18.334	
A	234	ASN	9	-14.412	-13.790	
A	235	ILE	33	-17.614	-19.383	
A	236	THR	7	-14.478	-13.618	
A	237	ARG	13	-19.771	-18.993	
A	238	PHE	35	-24.392	-25.612	
A	239	GLN	29	-26.014	-26.357	
A	240	THR	29	-27.584	-27.747	
A	241	LEU	29	-26.782	-27.037	
A	242	LEU	34	-23.502	-24.709	
A	243	ALA	29	-18.207	-19.448	
A	244	LEU	32	-14.097	-16.156	
A	245	HIS	33	-7.931	-10.814	
A	246	ARG	21	-4.468	-6.369	
A	247	SER	17	-1.175	-2.995	<=B
A	248	TYR	10	-0.256	-1.377	<=B
A	249	LEU	13	-1.228	-2.582	<=B
A	250	THR	11	-0.695	-1.880	<=B
A	251	PRO	0	0.866	0.767	<=B
A	252	GLY	2	-1.400	-1.469	<=B
A	253	ASP	17	-3.243	-4.825	
A	254	SER	3	-4.160	-4.027	
A	255	SER	11	-6.339	-6.875	
A	256	SER	11	-6.577	-7.086	
A	257	GLY	10	-4.865	-5.456	
A	258	TRP	29	-5.047	-7.801	
A	259	THR	23	-5.330	-7.362	
A	260	ALA	29	-10.793	-12.887	
A	261	GLY	33	-9.295	-12.021	
A	262	ALA	20	-7.929	-9.318	
A	263	ALA	32	-10.866	-13.297	

A	264	ALA	25	-14.253	-15.488
A	265	TYR	34	-18.715	-20.473
A	266	TYR	32	-17.581	-19.239
A	267	VAL	26	-21.139	-21.698
A	268	GLY	31	-20.349	-21.574
A	269	TYR	14	-18.195	-17.713
A	270	LEU	31	-18.356	-19.810
A	271	GLN	22	-14.531	-15.390
A	272	PRO	7	-13.808	-13.025
A	273	ARG	32	-16.308	-18.113
A	274	THR	19	-18.116	-18.218
A	275	PHE	27	-19.604	-20.454
A	276	LEU	21	-19.434	-19.614
A	277	LEU	32	-17.748	-19.387
A	278	LYS	18	-17.005	-17.120
A	279	TYR	21	-16.299	-16.839
A	280	ASN	8	-12.030	-11.567
A	281	GLU	3	-10.003	-9.197
A	282	ASN	5	-7.349	-7.079
A	283	GLY	10	-11.375	-11.217
A	284	THR	8	-12.280	-11.788
A	285	ILE	29	-15.119	-16.715
A	286	THR	14	-13.893	-13.905
A	287	ASP	13	-15.620	-15.318
A	288	ALA	32	-18.267	-19.846
A	289	VAL	26	-19.213	-19.994
A	290	ASP	24	-21.173	-21.498
A	291	CYS	25	-22.287	-22.599
A	292	ALA	23	-25.016	-24.785
A	293	LEU	28	-24.000	-24.460
A	294	ASP	21	-24.890	-24.443
A	295	PRO	32	-26.296	-26.952
A	296	LEU	22	-26.167	-25.688
A	297	SER	23	-23.418	-23.370
A	298	GLU	26	-24.449	-24.628
A	299	THR	26	-23.859	-24.105
A	300	LYS	30	-18.483	-19.807
A	301	CYS	23	-20.970	-21.203
A	302	THR	23	-19.221	-19.655
A	303	LEU	23	-17.869	-18.459
A	304	LYS	12	-18.943	-18.144
A	305	SER	12	-19.476	-18.616
A	306	PHE	15	-17.347	-17.077
A	307	THR	5	-15.666	-14.440
A	308	VAL	29	-19.719	-20.786
A	309	GLU	6	-18.628	-17.176
A	310	LYS	17	-19.033	-18.799
A	311	GLY	11	-20.549	-19.451
A	312	ILE	29	-23.523	-24.152
A	313	TYR	27	-23.206	-23.642

A	314	GLN	8	-22.653	-20.968
A	315	THR	32	-23.305	-24.305
A	316	SER	20	-23.832	-23.391
A	317	ASN	9	-21.175	-19.775
A	318	PHE	34	-23.545	-24.748
A	319	ARG	13	-19.872	-19.081
A	320	VAL	29	-19.551	-20.638
A	321	GLN	12	-14.972	-14.630
A	322	PRO	17	-12.739	-13.229
A	323	THR	16	-10.525	-11.155
A	324	GLU	12	-10.410	-10.593
A	325	SER	7	-12.532	-11.896
A	326	ILE	27	-12.741	-14.381
A	327	VAL	17	-14.693	-14.958
A	328	ARG	31	-13.560	-15.565
A	329	PHE	26	-13.681	-15.098
A	330	PRO	21	-12.120	-13.141
A	331	ASN	4	-11.949	-11.035
A	332	ILE	25	-14.227	-15.466
A	333	THR	1	-12.134	-10.853
A	334	ASN	10	-14.185	-13.703
A	335	LEU	12	-20.836	-19.820
A	336	CYS	33	-25.132	-26.037
A	337	PRO	16	-24.683	-23.685
A	338	PHE	18	-27.363	-26.286
A	339	GLY	5	-20.442	-18.666
A	340	GLU	15	-20.022	-19.444
A	341	VAL	29	-24.048	-24.618
A	342	PHE	24	-21.679	-21.946
A	343	ASN	8	-15.719	-14.831
A	344	ALA	21	-12.727	-13.678
A	345	THR	1	-7.352	-6.621
A	346	ARG	14	-7.519	-8.264
A	347	PHE	38	-11.355	-14.419
A	348	ALA	23	-8.865	-10.491
A	349	SER	24	-4.786	-6.995
A	350	VAL	37	-7.368	-10.776
A	351	TYR	19	-4.931	-6.549
A	352	ALA	12	-5.305	-6.075
A	353	TRP	33	-8.730	-11.521
A	354	ASN	21	-12.216	-13.226
A	355	ARG	17	-19.233	-18.976
A	356	LYS	21	-22.428	-22.264
A	357	ARG	7	-22.636	-20.838
A	358	ILE	34	-25.953	-26.878
A	359	SER	11	-22.239	-20.946
A	360	ASN	0	-17.989	-15.920
A	361	CYS	20	-20.803	-20.710
A	362	VAL	12	-22.544	-21.332
A	363	ALA	31	-26.577	-27.085

A	364	ASP	14	-24.768	-23.529
A	365	TYR	30	-27.752	-28.011
A	366	SER	9	-22.299	-20.769
A	367	VAL	13	-21.671	-20.674
A	368	LEU	35	-25.130	-26.265
A	369	TYR	16	-23.311	-22.470
A	370	ASN	5	-19.127	-17.503
A	371	SER	18	-18.204	-18.181
A	372	ALA	0	-12.768	-11.300
A	373	SER	19	-12.957	-13.652
A	374	PHE	24	-17.152	-17.940
A	375	SER	17	-13.034	-13.490
A	376	THR	31	-16.126	-17.837
A	377	PHE	17	-23.430	-22.690
A	378	LYS	15	-22.490	-21.629
A	379	CYS	18	-25.250	-24.416
A	380	TYR	24	-21.319	-21.627
A	381	GLY	22	-21.177	-21.272
A	382	VAL	24	-23.109	-23.212
A	383	SER	5	-22.157	-20.184
A	384	PRO	15	-23.052	-22.126
A	385	THR	0	-21.723	-19.225
A	386	LYS	13	-22.628	-21.521
A	387	LEU	27	-25.804	-25.942
A	388	ASN	11	-23.729	-22.265
A	389	ASP	5	-20.792	-18.976
A	390	LEU	24	-23.565	-23.615
A	391	CYS	20	-24.740	-24.195
A	392	PHE	31	-25.282	-25.939
A	393	THR	11	-21.676	-20.448
A	394	ASN	6	-23.548	-21.530
A	395	VAL	31	-27.360	-27.778
A	396	TYR	13	-26.125	-24.615
A	397	ALA	28	-26.527	-26.697
A	398	ASP	27	-22.566	-23.076
A	399	SER	22	-19.218	-19.538
A	400	PHE	34	-11.938	-14.475
A	401	VAL	31	-10.183	-12.577
A	402	ILE	35	-7.473	-10.638
A	403	ARG	24	-4.897	-7.094
A	404	GLY	16	-6.089	-7.229
A	405	ASP	11	-3.358	-4.237
A	406	GLU	29	-4.184	-7.037
A	407	VAL	23	-8.843	-10.471
A	408	ARG	6	-8.871	-8.541
A	409	GLN	26	-7.140	-9.308
A	410	ILE	35	-11.892	-14.549
A	411	ALA	11	-12.958	-12.733
A	412	PRO	18	-9.600	-10.566
A	413	GLY	5	-5.473	-5.419

A	414	GLN	21	-4.403	-6.312	
A	415	THR	2	-2.416	-2.368	<=B
A	416	GLY	17	-3.240	-4.822	
A	417	LYS	18	-2.010	-3.849	
A	418	ILE	25	-5.280	-7.548	
A	419	ALA	17	-5.669	-6.972	
A	420	ASP	10	-3.088	-3.883	
A	421	TYR	22	-3.190	-5.353	
A	422	ASN	32	-5.565	-8.605	
A	423	TYR	31	-7.327	-10.050	
A	424	LYS	19	-7.146	-8.509	
A	425	LEU	32	-12.187	-14.465	
A	426	PRO	14	-9.693	-10.189	
A	427	ASP	0	-6.304	-5.579	
A	428	ASP	5	-10.601	-9.956	
A	429	PHE	27	-18.467	-19.448	
A	430	THR	14	-23.522	-22.427	
A	431	GLY	31	-27.736	-28.112	
A	432	CYS	27	-28.134	-28.004	
A	433	VAL	23	-24.812	-24.603	
A	434	ILE	31	-23.339	-24.220	
A	435	ALA	25	-15.866	-16.916	
A	436	TRP	20	-14.200	-14.867	
A	437	ASN	15	-7.134	-8.038	
A	438	SER	33	-6.696	-9.721	
A	439	ASN	19	-1.746	-3.730	
A	440	ASN	4	-1.705	-1.969	<=B
A	441	LEU	20	-3.461	-5.363	
A	442	ASP	34	-2.684	-6.285	
A	443	SER	23	0.380	-2.309	<=B
A	444	LYS	9	2.895	1.527	<=B
A	445	VAL	1	4.328	3.716	<=B
A	446	GLY	1	4.560	3.921	<=B
A	447	GLY	9	3.487	2.051	<=B
A	448	ASN	26	1.455	-1.703	<=B
A	449	TYR	5	0.963	0.278	<=B
A	450	ASN	18	0.549	-1.584	<=B
A	451	TYR	31	-2.881	-6.115	
A	452	ARG	18	-2.019	-3.857	
A	453	TYR	27	-2.984	-5.746	
A	454	ARG	30	-1.017	-4.350	
A	455	LEU	15	-1.879	-3.388	<=B
A	456	PHE	14	-1.971	-3.355	<=B
A	457	ARG	24	-0.858	-3.520	<=B
A	458	LYS	10	-0.257	-1.377	<=B
A	459	SER	5	0.427	-0.197	<=B
A	460	ASN	14	0.061	-1.556	<=B
A	461	LEU	26	-2.220	-4.954	
A	462	LYS	1	-1.757	-1.670	<=B
A	463	PRO	11	-6.556	-7.067	

A	464	PHE	18	-9.717	-10.670	
A	465	GLU	16	-4.234	-5.587	
A	466	ARG	13	-4.046	-5.075	
A	467	ASP	29	-2.323	-5.391	
A	468	ILE	2	-2.810	-2.717	<=B
A	469	SER	20	-1.616	-3.731	
A	470	THR	7	-2.606	-3.111	<=B
A	471	GLU	10	-2.937	-3.749	
A	472	ILE	16	-3.931	-5.319	
A	473	TYR	18	-3.517	-5.182	
A	474	GLN	8	-3.642	-4.143	
A	475	ALA	10	-4.058	-4.741	
A	476	GLY	10	-3.728	-4.450	
A	477	SER	0	-3.401	-3.010	<=B
A	478	THR	9	-4.221	-4.770	
A	479	PRO	1	-3.790	-3.469	<=B
A	480	CYS	18	-4.540	-6.088	
A	481	ASN	0	-3.935	-3.483	<=B
A	482	GLY	5	-4.009	-4.123	
A	483	VAL	0	-4.254	-3.765	
A	484	GLN	1	-4.489	-4.088	
A	485	GLY	18	-4.789	-6.308	
A	486	PHE	2	-4.955	-4.616	
A	487	ASN	5	-4.044	-4.154	
A	488	CYS	20	-5.199	-6.901	
A	489	TYR	11	-4.200	-4.982	
A	490	PHE	9	-4.019	-4.592	
A	491	PRO	21	-2.996	-5.066	
A	492	LEU	19	-1.723	-3.710	
A	493	GLN	13	-1.138	-2.503	<=B
A	494	SER	13	-0.372	-1.825	<=B
A	495	TYR	36	-0.520	-4.600	
A	496	GLY	4	1.981	1.293	<=B
A	497	PHE	32	0.718	-3.045	<=B
A	498	GLN	7	2.617	1.511	<=B
A	499	PRO	7	2.706	1.590	<=B
A	500	THR	3	3.644	2.880	<=B
A	501	ASN	27	3.595	0.077	<=B
A	502	GLY	1	2.380	1.991	<=B
A	503	VAL	7	-0.651	-1.381	<=B
A	504	GLY	5	-3.862	-3.993	
A	505	TYR	9	0.259	-0.806	<=B
A	506	GLN	17	-2.285	-3.977	
A	507	PRO	32	-4.574	-7.728	
A	508	TYR	26	-8.014	-10.082	
A	509	ARG	27	-13.458	-15.015	
A	510	VAL	37	-17.496	-19.739	
A	511	VAL	26	-23.789	-24.043	
A	512	VAL	30	-26.306	-26.731	
A	513	LEU	37	-29.509	-30.371	

A	514	SER	22	-27.122	-26.533	
A	515	PHE	38	-28.370	-29.477	
A	516	GLU	10	-24.019	-22.407	
A	517	LEU	16	-22.878	-22.087	
A	518	LEU	10	-19.040	-18.001	
A	519	HIS	6	-15.710	-14.594	
A	520	ALA	11	-15.975	-15.403	
A	521	PRO	9	-16.830	-15.930	
A	522	ALA	29	-20.964	-21.888	
A	523	THR	11	-21.150	-19.983	
A	524	VAL	26	-25.016	-25.129	
A	525	CYS	19	-23.633	-23.100	
A	526	GLY	20	-22.285	-22.023	
A	527	PRO	13	-18.636	-17.988	
A	528	LYS	13	-14.293	-14.144	
A	529	LYS	16	-15.254	-15.339	
A	530	SER	23	-13.334	-14.446	
A	531	THR	12	-11.103	-11.207	
A	532	ASN	3	-8.462	-7.834	
A	533	LEU	21	-9.254	-10.604	
A	534	VAL	16	-6.126	-7.261	
A	535	LYS	13	-8.023	-8.595	
A	536	ASN	3	-10.747	-9.856	
A	537	LYS	14	-11.863	-12.108	
A	538	CYS	19	-13.588	-14.210	
A	539	VAL	23	-12.078	-13.334	
A	540	ASN	4	-13.080	-12.036	
A	541	PHE	32	-12.735	-14.951	
A	542	ASN	18	-14.520	-14.921	
A	543	PHE	29	-13.991	-15.717	
A	544	ASN	20	-15.073	-15.639	
A	545	GLY	18	-16.689	-16.840	
A	546	LEU	20	-13.955	-14.650	
A	547	THR	9	-14.179	-13.583	
A	548	GLY	22	-13.054	-14.083	
A	549	THR	9	-13.328	-12.831	
A	550	GLY	21	-13.165	-14.066	
A	551	VAL	14	-12.724	-12.871	
A	552	LEU	27	-10.534	-12.427	
A	553	THR	15	-9.642	-10.258	
A	554	GLU	6	-6.138	-6.122	
A	555	SER	24	-5.347	-7.492	
A	556	ASN	0	-3.213	-2.844	<=B
A	557	LYS	22	-3.613	-5.727	
A	558	LYS	1	-0.987	-0.988	<=B
A	559	PHE	23	-1.711	-4.159	
A	560	LEU	1	-0.925	-0.934	<=B
A	561	PRO	0	-1.451	-1.284	<=B
A	562	PHE	0	-3.411	-3.019	<=B
A	563	GLN	13	-3.404	-4.508	

A	564	GLN	15	-8.362	-9.125	
A	565	PHE	16	-8.075	-8.986	
A	566	GLY	23	-5.617	-7.616	
A	567	ARG	6	-5.550	-5.602	
A	568	ASP	10	-4.309	-4.963	
A	569	ILE	0	-3.677	-3.254	<=B
A	570	ALA	3	-4.336	-4.182	
A	571	ASP	0	-4.250	-3.761	
A	572	THR	10	-6.270	-6.699	
A	573	THR	26	-7.639	-9.750	
A	574	ASP	11	-7.147	-7.590	
A	575	ALA	20	-7.611	-9.036	
A	576	VAL	28	-9.311	-11.460	
A	577	ARG	14	-8.132	-8.807	
A	578	ASP	21	-8.305	-9.765	
A	579	PRO	23	-9.872	-11.381	
A	580	GLN	15	-8.675	-9.402	
A	581	THR	11	-4.781	-5.497	
A	582	LEU	9	-4.085	-4.650	
A	583	GLU	13	-3.676	-4.748	
A	584	ILE	17	-5.134	-6.498	
A	585	LEU	33	-7.124	-10.100	
A	586	ASP	12	-7.957	-8.422	
A	587	ILE	25	-10.373	-12.055	
A	588	THR	17	-12.093	-12.657	
A	589	PRO	11	-13.408	-13.131	
A	590	CYS	25	-16.951	-17.877	
A	591	SER	18	-19.857	-19.643	
A	592	PHE	13	-21.489	-20.512	
A	593	GLY	23	-23.698	-23.617	
A	594	GLY	13	-24.322	-23.020	
A	595	VAL	30	-26.930	-27.283	
A	596	SER	24	-25.562	-25.382	
A	597	VAL	32	-27.809	-28.291	
A	598	ILE	33	-25.912	-26.728	
A	599	THR	28	-22.884	-23.472	
A	600	PRO	18	-16.340	-16.530	
A	601	GLY	7	-16.822	-15.692	
A	602	THR	17	-16.113	-16.215	
A	603	ASN	6	-12.950	-12.151	
A	604	THR	19	-10.899	-11.831	
A	605	SER	24	-15.042	-16.073	
A	606	ASN	11	-18.000	-17.195	
A	607	GLN	20	-20.208	-20.184	
A	608	VAL	33	-24.674	-25.632	
A	609	ALA	37	-26.501	-27.708	
A	610	VAL	31	-28.594	-28.871	
A	611	LEU	31	-27.882	-28.240	
A	612	TYR	26	-27.753	-27.551	
A	613	GLN	16	-24.922	-23.896	

A	614	GLY	11	-22.403	-21.091
A	615	VAL	28	-22.391	-23.036
A	616	ASN	5	-20.705	-18.899
A	617	CYS	18	-22.701	-22.160
A	618	THR	3	-18.772	-16.958
A	619	GLU	27	-20.551	-21.292
A	620	VAL	34	-23.970	-25.124
A	621	PRO	10	-18.874	-17.854
A	622	VAL	25	-19.387	-20.033
A	623	ALA	29	-19.929	-20.973
A	624	ILE	11	-16.819	-16.150
A	625	HIS	7	-13.847	-13.059
A	626	ALA	26	-15.040	-16.300
A	627	ASP	6	-11.610	-10.965
A	628	GLN	13	-16.034	-15.685
A	629	LEU	17	-20.050	-19.699
A	630	THR	26	-22.564	-22.959
A	631	PRO	17	-22.876	-22.201
A	632	THR	32	-23.749	-24.698
A	633	TRP	28	-25.330	-25.637
A	634	ARG	12	-20.139	-19.203
A	635	VAL	17	-19.916	-19.580
A	636	TYR	38	-22.901	-24.638
A	637	SER	16	-19.115	-18.757
A	638	THR	10	-15.040	-14.460
A	639	GLY	15	-17.036	-16.802
A	640	SER	2	-14.346	-12.926
A	641	ASN	21	-16.409	-16.937
A	642	VAL	20	-20.839	-20.743
A	643	PHE	28	-20.979	-21.786
A	644	GLN	7	-20.569	-19.008
A	645	THR	32	-21.147	-22.395
A	646	ARG	9	-19.256	-18.076
A	647	ALA	24	-20.955	-21.306
A	648	GLY	28	-23.359	-23.892
A	649	CYS	29	-24.220	-24.770
A	650	LEU	29	-26.759	-27.016
A	651	ILE	29	-25.611	-26.001
A	652	GLY	26	-23.249	-23.565
A	653	ALA	38	-20.657	-22.652
A	654	GLU	15	-15.724	-15.641
A	655	HIS	17	-15.315	-15.508
A	656	VAL	26	-12.584	-14.127
A	657	ASN	2	-9.355	-8.509
A	658	ASN	13	-8.027	-8.598
A	659	SER	10	-9.930	-9.938
A	660	TYR	20	-10.328	-11.440
A	661	GLU	3	-11.488	-10.511
A	662	CYS	14	-14.195	-14.172
A	663	ASP	19	-15.487	-15.891

A	664	ILE	29	-18.944	-20.100	
A	665	PRO	3	-18.276	-16.519	
A	666	ILE	41	-20.548	-22.900	
A	667	GLY	21	-19.077	-19.298	
A	668	ALA	12	-17.279	-16.672	
A	669	GLY	10	-16.074	-15.376	
A	670	ILE	30	-18.551	-19.868	
A	671	CYS	17	-18.872	-18.657	
A	672	ALA	37	-19.443	-21.462	
A	673	SER	17	-16.608	-16.653	
A	674	TYR	21	-13.494	-14.357	
A	675	GLN	21	-9.742	-11.037	
A	676	THR	10	-4.919	-5.504	
A	677	GLN	15	-5.705	-6.773	
A	678	THR	14	-4.543	-5.631	
A	679	ASN	6	-1.401	-1.930	<=B
A	680	SER	15	0.818	-1.001	<=B
A	681	ARG	2	2.957	2.387	<=B
A	682	ARG	1	2.552	2.144	<=B
A	683	ARG	0	2.714	2.402	<=B
A	684	ALA	5	2.305	1.465	<=B
A	685	ARG	13	2.358	0.592	<=B
A	686	SER	1	1.448	1.166	<=B
A	687	VAL	6	-1.624	-2.127	<=B
A	688	ALA	1	-2.867	-2.652	<=B
A	689	SER	11	-3.473	-4.339	
A	690	GLN	16	-6.584	-7.667	
A	691	SER	21	-11.305	-12.420	
A	692	ILE	36	-16.819	-19.025	
A	693	ILE	21	-15.798	-16.396	
A	694	ALA	29	-18.000	-19.265	
A	695	TYR	22	-15.862	-16.568	
A	696	THR	7	-14.876	-13.971	
A	697	MET	16	-13.819	-14.070	
A	698	SER	10	-10.101	-10.090	
A	699	LEU	4	-8.920	-8.354	
A	700	GLY	3	-7.367	-6.865	
A	701	ALA	2	-5.655	-5.235	
A	702	GLU	5	-4.546	-4.599	
A	703	ASN	6	-1.970	-2.434	<=B
A	704	SER	1	-1.370	-1.327	<=B
A	705	VAL	8	-2.519	-3.149	<=B
A	706	ALA	10	-3.533	-4.277	
A	707	TYR	3	-3.732	-3.648	<=B
A	708	SER	11	-5.197	-5.864	
A	709	ASN	5	-5.810	-5.717	
A	710	ASN	13	-6.760	-7.477	
A	711	SER	7	-5.816	-5.952	
A	712	ILE	25	-7.410	-9.433	
A	713	ALA	12	-2.682	-3.754	

A	714	ILE	26	-2.783	-5.453	
A	715	PRO	18	-3.300	-4.991	
A	716	THR	8	-2.373	-3.020	<=B
A	717	ASN	7	-3.453	-3.861	
A	718	PHE	36	-7.652	-10.912	
A	719	THR	13	-8.569	-9.079	
A	720	ILE	29	-12.456	-14.359	
A	721	SER	18	-17.774	-17.800	
A	722	VAL	31	-23.726	-24.563	
A	723	THR	18	-25.130	-24.310	
A	724	THR	31	-26.628	-27.130	
A	725	GLU	28	-26.615	-26.774	
A	726	ILE	22	-25.707	-25.280	
A	727	LEU	32	-26.366	-27.014	
A	728	PRO	24	-26.188	-25.937	
A	729	VAL	33	-26.251	-27.027	
A	730	SER	33	-24.998	-25.918	
A	731	MET	33	-22.220	-23.460	
A	732	THR	31	-24.010	-24.814	
A	733	LYS	21	-24.144	-23.782	
A	734	THR	35	-24.706	-25.890	
A	735	SER	15	-25.452	-24.250	
A	736	VAL	41	-28.417	-29.864	
A	737	ASP	17	-27.550	-26.337	
A	738	CYS	25	-28.795	-28.358	
A	739	THR	14	-28.008	-26.397	
A	740	MET	13	-28.241	-26.488	
A	741	TYR	33	-30.413	-30.710	
A	742	ILE	35	-29.214	-29.879	
A	743	CYS	22	-27.957	-27.272	
A	744	GLY	23	-26.526	-26.120	
A	745	ASP	6	-21.657	-19.857	
A	746	SER	29	-19.409	-20.512	
A	747	THR	3	-17.047	-15.431	
A	748	GLU	21	-17.561	-17.957	
A	749	CYS	29	-21.248	-22.139	
A	750	SER	9	-21.164	-19.765	
A	751	ASN	9	-17.049	-16.124	
A	752	LEU	28	-19.563	-20.533	
A	753	LEU	27	-22.284	-22.826	
A	754	LEU	7	-19.214	-17.809	
A	755	GLN	13	-16.355	-15.969	
A	756	TYR	27	-18.285	-19.287	
A	757	GLY	0	-16.639	-14.725	
A	758	SER	3	-16.020	-14.523	
A	759	PHE	26	-21.196	-21.748	
A	760	CYS	24	-24.322	-24.285	
A	761	THR	5	-19.952	-18.233	
A	762	GLN	13	-18.238	-17.636	
A	763	LEU	29	-22.857	-23.564	

A	764	ASN	15	-22.433	-21.578	
A	765	ARG	5	-17.811	-16.338	
A	766	ALA	22	-17.099	-17.663	
A	767	LEU	27	-21.791	-22.390	
A	768	THR	8	-18.876	-17.626	
A	769	GLY	16	-16.479	-16.424	
A	770	ILE	28	-19.025	-20.057	
A	771	ALA	19	-21.451	-21.169	
A	772	VAL	6	-16.926	-15.670	
A	773	GLU	19	-16.257	-16.573	
A	774	GLN	32	-18.998	-20.493	
A	775	ASP	17	-17.447	-17.395	
A	776	LYS	14	-15.404	-15.242	
A	777	ASN	31	-21.392	-22.497	
A	778	THR	27	-22.806	-23.288	
A	779	GLN	9	-20.464	-19.146	
A	780	GLU	21	-20.609	-20.654	
A	781	VAL	40	-25.518	-27.183	
A	782	PHE	33	-24.677	-25.634	
A	783	ALA	14	-19.880	-19.203	
A	784	GLN	35	-20.455	-22.127	
A	785	VAL	31	-17.303	-18.879	
A	786	LYS	3	-12.256	-11.192	
A	787	GLN	18	-12.286	-12.943	
A	788	ILE	11	-11.060	-11.053	
A	789	TYR	29	-13.079	-14.910	
A	790	LYS	5	-10.324	-9.712	
A	791	THR	31	-11.482	-13.727	
A	792	PRO	16	-4.749	-6.043	
A	793	PRO	0	-1.426	-1.262	<=B
A	794	ILE	3	-1.822	-1.958	<=B
A	795	LYS	13	-6.066	-6.863	
A	796	ASP	6	-6.355	-6.314	
A	797	PHE	27	-10.262	-12.187	
A	798	GLY	21	-9.304	-10.649	
A	799	GLY	16	-7.560	-8.531	
A	800	PHE	32	-13.660	-15.769	
A	801	ASN	17	-13.142	-13.585	
A	802	PHE	32	-16.730	-18.486	
A	803	SER	13	-10.953	-11.188	
A	804	GLN	24	-13.683	-14.869	
A	805	ILE	39	-20.281	-22.434	
A	806	LEU	21	-16.467	-16.988	
A	807	PRO	28	-11.994	-13.834	
A	808	ASP	14	-5.991	-6.912	
A	809	PRO	5	-1.437	-1.846	<=B
A	810	SER	4	0.938	0.370	<=B
A	811	LYS	20	-2.135	-4.190	
A	812	PRO	0	-1.491	-1.320	<=B
A	813	SER	21	-5.822	-7.568	

A	814	LYS	15	-6.903	-7.834
A	815	ARG	22	-13.552	-14.523
A	816	SER	32	-17.319	-19.008
A	817	PHE	14	-14.509	-14.450
A	818	ILE	35	-20.798	-22.431
A	819	GLU	33	-20.910	-22.300
A	820	ASP	15	-14.795	-14.819
A	821	LEU	26	-16.834	-17.888
A	822	LEU	35	-20.869	-22.494
A	823	PHE	21	-16.825	-17.305
A	824	ASN	14	-13.740	-13.770
A	825	LYS	29	-14.415	-16.093
A	826	VAL	38	-15.972	-18.505
A	827	THR	5	-18.305	-16.775
A	828	LEU	23	-21.690	-21.841
A	829	ALA	25	-22.309	-22.618
A	830	ASP	27	-20.916	-21.616
A	831	ALA	14	-20.083	-19.384
A	832	GLY	22	-17.284	-17.827
A	833	PHE	9	-13.289	-12.796
A	834	ILE	3	-13.904	-12.650
A	835	LYS	24	-13.436	-14.651
A	836	GLN	3	-9.802	-9.020
A	837	TYR	1	-11.374	-10.181
A	838	GLY	1	-8.374	-7.526
A	839	ASP	8	-10.940	-10.602
A	840	CYS	16	-15.800	-15.823
A	841	LEU	4	-12.357	-11.396
A	842	GLY	5	-8.015	-7.668
A	843	ASP	2	-8.820	-8.036
A	844	ILE	13	-12.784	-12.809
A	845	ALA	11	-15.291	-14.797
A	846	ALA	13	-15.434	-15.154
A	847	ARG	11	-17.378	-16.645
A	848	ASP	21	-18.239	-18.557
A	849	LEU	18	-21.329	-20.946
A	850	ILE	24	-22.445	-22.624
A	851	CYS	15	-20.815	-20.146
A	852	ALA	24	-24.452	-24.400
A	853	GLN	28	-26.370	-26.558
A	854	LYS	23	-26.134	-25.774
A	855	PHE	17	-26.259	-25.194
A	856	ASN	25	-29.037	-28.573
A	857	GLY	26	-28.875	-28.544
A	858	LEU	31	-29.498	-29.671
A	859	THR	18	-26.876	-25.855
A	860	VAL	29	-22.993	-23.684
A	861	LEU	19	-22.997	-22.537
A	862	PRO	11	-18.237	-17.404
A	863	PRO	28	-17.290	-18.522

A	864	LEU	18	-13.233	-13.781
A	865	LEU	29	-15.075	-16.677
A	866	THR	8	-12.811	-12.258
A	867	ASP	24	-15.793	-16.737
A	868	GLU	8	-11.883	-11.437
A	869	MET	14	-14.365	-14.323
A	870	ILE	31	-20.686	-21.872
A	871	ALA	23	-18.836	-19.315
A	872	GLN	11	-15.681	-15.143
A	873	TYR	27	-20.511	-21.257
A	874	THR	38	-23.379	-25.061
A	875	SER	23	-19.062	-19.515
A	876	ALA	22	-18.202	-18.639
A	877	LEU	36	-24.394	-25.729
A	878	LEU	32	-23.735	-24.686
A	879	ALA	25	-19.935	-20.518
A	880	GLY	35	-22.133	-23.612
A	881	THR	33	-24.029	-25.060
A	882	ILE	29	-20.133	-21.153
A	883	THR	20	-16.362	-16.780
A	884	SER	27	-17.052	-18.196
A	885	GLY	17	-20.501	-20.099
A	886	TRP	22	-21.536	-21.589
A	887	THR	15	-17.099	-16.857
A	888	PHE	31	-17.912	-19.417
A	889	GLY	26	-19.686	-20.412
A	890	ALA	13	-14.115	-13.987
A	891	GLY	4	-11.130	-10.310
A	892	ALA	1	-11.878	-10.627
A	893	ALA	22	-13.700	-14.655
A	894	LEU	12	-11.750	-11.779
A	895	GLN	10	-11.102	-10.975
A	896	ILE	19	-11.099	-12.008
A	897	PRO	11	-11.391	-11.346
A	898	PHE	26	-14.564	-15.879
A	899	ALA	17	-12.874	-13.348
A	900	MET	9	-11.241	-10.983
A	901	GLN	31	-13.963	-15.922
A	902	MET	28	-14.544	-16.092
A	903	ALA	14	-10.717	-11.095
A	904	TYR	18	-11.043	-11.843
A	905	ARG	38	-14.824	-17.490
A	906	PHE	27	-10.734	-12.605
A	907	ASN	10	-8.618	-8.777
A	908	GLY	30	-10.924	-13.118
A	909	ILE	32	-9.386	-11.987
A	910	GLY	21	-6.397	-8.076
A	911	VAL	37	-7.283	-10.700
A	912	THR	19	-3.428	-5.219
A	913	GLN	11	-4.909	-5.610

A	914	ASN	7	-0.936	-1.634	<=B
A	915	VAL	29	-2.910	-5.910	
A	916	LEU	26	-7.290	-9.441	
A	917	TYR	9	-2.451	-3.204	<=B
A	918	GLU	11	-1.936	-2.979	<=B
A	919	ASN	23	-2.480	-4.840	
A	920	GLN	19	-4.846	-6.474	
A	921	LYS	1	-4.299	-3.919	
A	922	LEU	14	-3.885	-5.048	
A	923	ILE	28	-8.663	-10.887	
A	924	ALA	20	-10.630	-11.708	
A	925	ASN	7	-7.439	-7.389	
A	926	GLN	23	-11.084	-12.454	
A	927	PHE	30	-14.868	-16.608	
A	928	ASN	12	-14.124	-13.880	
A	929	SER	11	-12.715	-12.517	
A	930	ALA	28	-17.310	-18.540	
A	931	ILE	25	-19.041	-19.727	
A	932	GLY	10	-15.614	-14.969	
A	933	LYS	14	-14.919	-14.813	
A	934	ILE	35	-18.982	-20.824	
A	935	GLN	15	-15.579	-15.513	
A	936	ASP	8	-11.788	-11.353	
A	937	SER	17	-13.802	-14.170	
A	938	LEU	31	-15.047	-16.881	
A	939	SER	8	-9.976	-9.749	
A	940	SER	6	-8.337	-8.068	
A	941	THR	10	-10.115	-10.102	
A	942	ALA	3	-10.508	-9.645	
A	943	SER	4	-14.622	-13.400	
A	944	ALA	27	-19.093	-20.002	
A	945	LEU	33	-20.129	-21.609	
A	946	GLY	7	-17.813	-16.569	
A	947	LYS	21	-19.044	-19.269	
A	948	LEU	32	-23.463	-24.444	
A	949	GLN	12	-18.746	-17.970	
A	950	ASN	14	-19.686	-19.032	
A	951	VAL	35	-21.259	-22.839	
A	952	VAL	21	-23.468	-23.184	
A	953	ASN	11	-21.413	-20.215	
A	954	GLN	23	-19.728	-20.105	
A	955	ASN	36	-24.223	-25.578	
A	956	ALA	17	-23.815	-23.031	
A	957	GLN	11	-23.043	-21.658	
A	958	ALA	29	-24.028	-24.600	
A	959	LEU	30	-26.296	-26.722	
A	960	ASN	15	-26.046	-24.776	
A	961	THR	22	-25.945	-25.491	
A	962	LEU	38	-29.230	-30.238	
A	963	VAL	19	-29.258	-28.078	

A	964	LYS	12	-26.495	-24.828
A	965	GLN	27	-25.339	-25.530
A	966	LEU	28	-27.802	-27.825
A	967	SER	11	-23.635	-22.182
A	968	SER	22	-21.137	-21.237
A	969	ASN	4	-16.901	-15.418
A	970	PHE	23	-15.835	-16.659
A	971	GLY	7	-10.999	-10.540
A	972	ALA	30	-13.724	-15.595
A	973	ILE	13	-10.350	-10.655
A	974	SER	12	-13.142	-13.010
A	975	SER	9	-20.045	-18.775
A	976	VAL	4	-20.892	-18.949
A	977	LEU	24	-21.823	-22.073
A	978	ASN	4	-17.990	-16.381
A	979	ASP	11	-12.144	-12.013
A	980	ILE	31	-14.978	-16.820
A	981	LEU	17	-13.658	-14.043
A	982	SER	7	-10.253	-9.879
A	983	ARG	12	-9.356	-9.660
A	984	LEU	20	-10.702	-11.771
A	985	ASP	1	-9.784	-8.774
A	986	LYS	2	-10.254	-9.305
A	987	VAL	0	-10.344	-9.155
A	988	GLU	10	-11.224	-11.083
A	989	ALA	20	-14.344	-14.995
A	990	GLU	7	-15.405	-14.439
A	991	VAL	6	-14.596	-13.608
A	992	GLN	22	-15.845	-16.553
A	993	ILE	31	-19.846	-21.128
A	994	ASP	10	-19.143	-18.092
A	995	ARG	18	-18.286	-18.253
A	996	LEU	35	-21.742	-23.267
A	997	ILE	23	-23.316	-23.279
A	998	THR	10	-20.780	-19.541
A	999	GLY	22	-20.870	-21.000
A	1000	ARG	34	-24.743	-25.807
A	1001	LEU	21	-25.479	-24.964
A	1002	GLN	9	-21.030	-19.646
A	1003	SER	32	-23.412	-24.400
A	1004	LEU	32	-25.786	-26.500
A	1005	GLN	10	-21.692	-20.348
A	1006	THR	19	-19.814	-19.721
A	1007	TYR	39	-22.784	-24.649
A	1008	VAL	25	-22.156	-22.483
A	1009	THR	7	-15.173	-14.233
A	1010	GLN	20	-14.702	-15.311
A	1011	GLN	38	-21.204	-23.135
A	1012	LEU	14	-16.029	-15.795
A	1013	ILE	8	-13.025	-12.447

A	1014	ARG	28	-17.194	-18.437
A	1015	ALA	22	-18.923	-19.276
A	1016	ALA	6	-15.569	-14.469
A	1017	GLU	18	-16.249	-16.450
A	1018	ILE	34	-20.217	-21.802
A	1019	ARG	13	-20.213	-19.383
A	1020	ALA	8	-16.961	-15.930
A	1021	SER	24	-21.882	-22.126
A	1022	ALA	27	-22.641	-23.142
A	1023	ASN	7	-18.908	-17.539
A	1024	LEU	21	-20.237	-20.325
A	1025	ALA	35	-25.354	-26.464
A	1026	ALA	19	-23.806	-23.253
A	1027	THR	13	-21.771	-20.762
A	1028	LYS	35	-26.095	-27.119
A	1029	MET	35	-29.222	-29.886
A	1030	SER	11	-23.152	-21.755
A	1031	GLU	16	-23.152	-22.329
A	1032	CYS	38	-28.354	-29.463
A	1033	VAL	33	-28.641	-29.142
A	1034	LEU	25	-26.051	-25.930
A	1035	GLY	15	-24.013	-22.977
A	1036	GLN	24	-22.685	-22.836
A	1037	SER	24	-21.702	-21.966
A	1038	LYS	9	-13.520	-13.000
A	1039	ARG	16	-12.971	-13.320
A	1040	VAL	2	-12.355	-11.164
A	1041	ASP	1	-15.684	-13.995
A	1042	PHE	20	-19.179	-19.273
A	1043	CYS	32	-26.056	-26.740
A	1044	GLY	27	-23.930	-24.283
A	1045	LYS	2	-19.067	-17.104
A	1046	GLY	25	-14.236	-15.473
A	1047	TYR	21	-12.729	-13.680
A	1048	HIS	27	-19.643	-20.489
A	1049	LEU	36	-20.208	-22.024
A	1050	MET	34	-26.745	-27.579
A	1051	SER	38	-28.814	-29.871
A	1052	PHE	35	-28.481	-29.231
A	1053	PRO	42	-28.442	-30.001
A	1054	GLN	36	-24.715	-26.013
A	1055	SER	29	-25.452	-25.860
A	1056	ALA	33	-24.299	-25.300
A	1057	PRO	25	-23.688	-23.839
A	1058	HIS	38	-26.060	-27.433
A	1059	GLY	32	-26.235	-26.898
A	1060	VAL	44	-27.765	-29.632
A	1061	VAL	35	-26.875	-27.810
A	1062	PHE	36	-30.449	-31.087
A	1063	LEU	36	-28.919	-29.733

A	1064	HIS	28	-28.781	-28.691	
A	1065	VAL	36	-25.514	-26.720	
A	1066	THR	21	-19.991	-20.107	
A	1067	TYR	32	-12.903	-15.099	
A	1068	VAL	17	-10.403	-11.161	
A	1069	PRO	18	-7.615	-8.809	
A	1070	ALA	11	-5.600	-6.221	
A	1071	GLN	3	-2.593	-2.640	<=B
A	1072	LYS	15	-2.442	-3.886	
A	1073	LYS	17	-2.575	-4.233	
A	1074	ASN	9	-2.520	-3.265	<=B
A	1075	PHE	30	-5.023	-7.895	
A	1076	THR	12	-6.205	-6.871	
A	1077	THR	25	-7.807	-9.784	
A	1078	ALA	27	-9.078	-11.139	
A	1079	PRO	13	-9.660	-10.044	
A	1080	ALA	20	-10.235	-11.358	
A	1081	ILE	30	-9.343	-11.719	
A	1082	CYS	13	-9.344	-9.764	
A	1083	HIS	22	-7.533	-9.197	
A	1084	ASP	13	-7.490	-8.124	
A	1085	GLY	0	-8.170	-7.230	
A	1086	LYS	13	-8.534	-9.047	
A	1087	ALA	15	-9.261	-9.921	
A	1088	HIS	29	-8.738	-11.068	
A	1089	PHE	13	-8.558	-9.069	
A	1090	PRO	20	-5.756	-7.394	
A	1091	ARG	11	-5.580	-6.203	
A	1092	GLU	16	-4.266	-5.616	
A	1093	GLY	31	-5.354	-8.303	
A	1094	VAL	22	-7.171	-8.876	
A	1095	PHE	33	-7.925	-10.808	
A	1096	VAL	24	-6.878	-8.847	
A	1097	SER	18	-5.873	-7.268	
A	1098	ASN	12	-3.226	-4.235	
A	1099	GLY	2	-4.108	-3.865	
A	1100	THR	0	-3.678	-3.255	<=B
A	1101	HIS	9	-2.729	-3.450	<=B
A	1102	TRP	26	-5.213	-7.603	
A	1103	PHE	19	-4.576	-6.235	
A	1104	VAL	24	-5.831	-7.921	
A	1105	THR	26	-5.254	-7.640	
A	1106	GLN	18	-3.463	-5.135	
A	1107	ARG	13	-5.393	-6.268	
A	1108	ASN	23	-4.315	-6.464	
A	1109	PHE	22	-3.960	-6.034	
A	1110	TYR	21	-2.984	-5.055	
A	1111	GLU	20	-1.170	-3.335	<=B
A	1112	PRO	20	-2.491	-4.505	
A	1113	GLN	23	-1.789	-4.228	

A	1114	ILE	7	-3.107	-3.555	<=B
A	1115	ILE	31	-4.952	-7.947	
A	1116	THR	10	-5.166	-5.722	
A	1117	THR	8	-4.673	-5.056	
A	1118	ASP	8	-3.082	-3.648	<=B
A	1119	ASN	25	-5.616	-7.845	
A	1120	THR	32	-6.356	-9.305	
A	1121	PHE	4	-7.108	-6.751	
A	1122	VAL	15	-7.804	-8.632	
A	1123	SER	8	-8.284	-8.252	
A	1124	GLY	10	-8.610	-8.770	
A	1125	ASN	3	-8.638	-7.990	
A	1126	CYS	12	-10.645	-10.801	
A	1127	ASP	0	-9.612	-8.506	
A	1128	VAL	8	-9.374	-9.216	
A	1129	VAL	23	-10.694	-12.109	
A	1130	ILE	2	-10.128	-9.194	
A	1131	GLY	11	-10.190	-10.283	
A	1132	ILE	23	-10.565	-11.995	
A	1133	VAL	21	-9.504	-10.826	
A	1134	ASN	2	-8.073	-7.374	
A	1135	ASN	33	-6.910	-9.910	
A	1136	THR	4	-6.307	-6.042	
A	1137	VAL	25	-6.839	-8.928	
A	1138	TYR	14	-3.944	-5.101	
A	1139	ASP	11	-3.136	-4.040	
A	1140	PRO	8	-1.019	-1.822	<=B
A	1141	LEU	3	-0.698	-0.962	<=B
A	1142	GLN	7	-0.275	-1.048	<=B
A	1143	PRO	6	0.811	0.028	<=B
A	1144	GLU	5	0.687	0.033	<=B
A	1145	LEU	5	0.972	0.285	<=B
A	1146	ASP	6	2.197	1.255	<=B
A	1147	SER	5	1.067	0.370	<=B
A	1148	PHE	6	1.136	0.315	<=B
A	1149	LYS	6	1.732	0.843	<=B
A	1150	GLU	5	2.624	1.748	<=B
A	1151	GLU	6	2.414	1.446	<=B
A	1152	LEU	7	2.170	1.115	<=B
A	1153	ASP	6	2.852	1.834	<=B
A	1154	LYS	5	2.857	1.954	<=B
A	1155	TYR	5	2.668	1.787	<=B
A	1156	PHE	6	3.001	1.966	<=B
A	1157	LYS	6	3.278	2.211	<=B
A	1158	ASN	6	3.173	2.118	<=B
A	1159	HIS	7	2.974	1.827	<=B
A	1160	THR	5	3.208	2.264	<=B
A	1161	SER	5	3.113	2.180	<=B
A	1162	PRO	4	3.212	2.383	<=B

Identified 117 B-Cell epitope residues out of 1149 total residues