

G	14	GLN	22	-14.140	-15.044
G	15	CYS	11	-16.174	-15.579
G	16	VAL	19	-14.709	-15.202
G	17	ASN	10	-14.416	-13.909
G	18	LEU	26	-11.974	-13.587
G	19	THR	3	-10.802	-9.905
G	20	THR	21	-8.834	-10.233
G	21	ARG	2	-5.696	-5.271
G	22	THR	21	-7.636	-9.172
G	23	GLN	1	-4.590	-4.177
G	24	LEU	21	-4.218	-6.148
G	25	PRO	4	-5.269	-5.123
G	26	PRO	16	-9.473	-10.223
G	27	ALA	14	-8.398	-9.043
G	28	TYR	9	-10.053	-9.932
G	29	THR	25	-12.366	-13.819
G	30	ASN	10	-12.252	-11.993
G	31	SER	34	-15.372	-17.514
G	32	PHE	14	-15.312	-15.161
G	33	THR	20	-16.147	-16.590
G	34	ARG	35	-17.180	-19.229
G	35	GLY	33	-19.774	-21.295
G	36	VAL	29	-18.977	-20.130
G	37	TYR	33	-16.305	-18.225
G	38	TYR	22	-13.788	-14.732
G	39	PRO	24	-13.631	-14.823
G	40	ASP	16	-9.908	-10.609
G	41	LYS	4	-8.161	-7.683
G	42	VAL	12	-10.443	-10.622
G	43	PHE	5	-10.830	-10.159
G	44	ARG	19	-14.199	-14.751
G	45	SER	7	-12.995	-12.306
G	46	SER	6	-13.325	-12.483
G	47	VAL	12	-16.548	-16.025
G	48	LEU	17	-17.446	-17.395
G	49	HIS	23	-16.626	-17.359
G	50	SER	18	-17.100	-17.204
G	51	THR	17	-15.691	-15.842
G	52	GLN	7	-14.999	-14.079
G	53	ASP	24	-13.605	-14.800
G	54	LEU	20	-15.634	-16.136
G	55	PHE	34	-19.672	-21.320
G	56	LEU	33	-19.461	-21.018
G	57	PRO	15	-19.253	-18.764
G	58	PHE	29	-19.615	-20.694
G	59	PHE	16	-17.421	-17.257
G	60	SER	27	-15.313	-16.657
G	61	ASN	6	-13.624	-12.747
G	62	VAL	30	-15.671	-17.319
G	63	THR	18	-13.360	-13.894

G	64	TRP	16	-15.248	-15.335	
G	65	PHE	22	-16.364	-17.012	
G	66	HIS	24	-15.852	-16.789	
G	67	ALA	35	-19.269	-21.078	
G	68	ILE	25	-15.693	-16.763	
G	69	HIS	22	-10.035	-11.411	
G	70	VAL	10	-7.197	-7.519	
G	71	SER	10	-4.544	-5.171	
G	72	GLY	2	-2.456	-2.404	<=B
G	73	THR	3	-1.458	-1.635	<=B
G	74	ASN	5	-1.836	-2.200	<=B
G	75	GLY	12	-3.986	-4.907	
G	76	THR	8	-4.310	-4.734	
G	77	LYS	23	-7.842	-9.585	
G	78	ARG	18	-9.631	-10.594	
G	79	PHE	22	-14.429	-15.299	
G	80	ASP	23	-14.838	-15.777	
G	81	ASN	36	-19.640	-21.521	
G	82	PRO	15	-18.181	-17.815	
G	83	VAL	19	-20.684	-20.490	
G	84	LEU	30	-19.476	-20.687	
G	85	PRO	5	-14.922	-13.781	
G	86	PHE	24	-18.639	-19.255	
G	87	ASN	16	-10.875	-11.464	
G	88	ASP	11	-12.638	-12.450	
G	89	GLY	26	-19.715	-20.438	
G	90	VAL	30	-23.448	-24.201	
G	91	TYR	34	-22.358	-23.697	
G	92	PHE	36	-23.683	-25.099	
G	93	ALA	35	-20.495	-22.163	
G	94	SER	31	-19.138	-20.502	
G	95	THR	24	-14.898	-15.945	
G	96	GLU	34	-14.206	-16.483	
G	97	LYS	15	-7.871	-8.691	
G	98	SER	10	-7.609	-7.884	
G	99	ASN	26	-14.498	-15.821	
G	100	ILE	26	-18.853	-19.675	
G	101	ILE	32	-24.619	-25.467	
G	102	ARG	32	-25.894	-26.596	
G	103	GLY	34	-29.564	-30.074	
G	104	TRP	31	-29.333	-29.525	
G	105	ILE	35	-30.233	-30.781	
G	106	PHE	31	-27.790	-28.159	
G	107	GLY	35	-23.794	-25.082	
G	108	THR	11	-16.745	-16.085	
G	109	THR	11	-15.317	-14.820	
G	110	LEU	22	-20.549	-20.716	
G	111	ASP	6	-16.789	-15.548	
G	112	SER	7	-14.139	-13.318	
G	113	LYS	5	-10.595	-9.951	

G	114	THR	19	-13.479	-14.114	
G	115	GLN	20	-17.503	-17.790	
G	116	SER	32	-22.978	-24.016	
G	117	LEU	27	-26.711	-26.744	
G	118	LEU	34	-28.079	-28.760	
G	119	ILE	30	-29.018	-29.131	
G	120	VAL	29	-26.988	-27.219	
G	121	ASN	22	-23.325	-23.172	
G	122	ASN	17	-19.639	-19.336	
G	123	ALA	22	-16.123	-16.799	
G	124	THR	10	-11.380	-11.221	
G	125	ASN	6	-13.166	-12.342	
G	126	VAL	22	-21.226	-21.315	
G	127	VAL	10	-21.583	-20.251	
G	128	ILE	19	-23.370	-22.868	
G	129	LYS	28	-22.826	-23.421	
G	130	VAL	20	-21.893	-21.675	
G	131	CYS	23	-21.530	-21.699	
G	132	GLU	6	-17.990	-16.611	
G	133	PHE	31	-20.442	-21.656	
G	134	GLN	10	-19.330	-18.257	
G	135	PHE	33	-22.761	-23.939	
G	136	CYS	21	-19.687	-19.838	
G	137	ASN	6	-16.432	-15.232	
G	138	ASP	18	-19.704	-19.508	
G	139	PRO	32	-24.867	-25.687	
G	140	PHE	29	-25.762	-26.135	
G	141	LEU	27	-23.488	-23.892	
G	142	GLY	23	-17.985	-18.561	
G	143	VAL	22	-12.509	-13.600	
G	144	TYR	12	-7.512	-8.028	
G	145	TYR	8	-2.376	-3.022	<=B
G	146	HIS	9	-1.102	-2.010	<=B
G	147	LYS	1	2.126	1.767	<=B
G	148	ASN	3	4.050	3.240	<=B
G	149	ASN	2	4.404	3.668	<=B
G	150	LYS	0	3.365	2.978	<=B
G	151	SER	9	0.046	-0.994	<=B
G	152	TRP	13	-5.133	-6.038	
G	153	MET	9	-8.628	-8.670	
G	154	GLU	22	-14.938	-15.750	
G	155	SER	19	-15.615	-16.004	
G	156	GLU	18	-20.109	-19.867	
G	157	PHE	5	-19.916	-18.201	
G	158	ARG	23	-19.310	-19.735	
G	159	VAL	35	-25.675	-26.748	
G	160	TYR	31	-22.415	-23.402	
G	161	SER	10	-18.830	-17.815	
G	162	SER	14	-17.481	-17.080	
G	163	ALA	19	-18.921	-18.930	

G	164	ASN	6	-14.383	-13.419	
G	165	ASN	14	-13.576	-13.625	
G	166	CYS	18	-15.742	-16.002	
G	167	THR	19	-14.898	-15.370	
G	168	PHE	22	-17.175	-17.730	
G	169	GLU	8	-18.381	-17.187	
G	170	TYR	22	-16.138	-16.812	
G	171	VAL	4	-15.794	-14.438	
G	172	SER	21	-14.878	-15.582	
G	173	GLN	6	-11.855	-11.182	
G	174	PRO	12	-16.700	-16.160	
G	175	PHE	34	-18.620	-20.389	
G	176	LEU	28	-19.564	-20.534	
G	177	MET	12	-12.570	-12.504	
G	178	ASP	15	-8.655	-9.384	
G	179	LEU	15	-4.187	-5.430	
G	180	GLU	8	-1.328	-2.096	<=B
G	181	GLY	3	1.556	1.032	<=B
G	182	LYS	17	1.820	-0.344	<=B
G	183	GLN	0	0.789	0.698	<=B
G	184	GLY	4	-1.366	-1.669	<=B
G	185	ASN	3	0.133	-0.227	<=B
G	186	PHE	17	-3.261	-4.841	
G	187	LYS	19	-6.196	-7.668	
G	188	ASN	17	-9.424	-10.295	
G	189	LEU	27	-13.353	-14.922	
G	190	ARG	24	-18.100	-18.779	
G	191	GLU	34	-19.932	-21.549	
G	192	PHE	27	-23.747	-24.121	
G	193	VAL	30	-23.536	-24.280	
G	194	PHE	35	-23.834	-25.118	
G	195	LYS	25	-21.959	-22.309	
G	196	ASN	22	-15.098	-15.892	
G	197	ILE	19	-11.757	-12.590	
G	198	ASP	5	-6.876	-6.660	
G	199	GLY	2	-10.277	-9.325	
G	200	TYR	10	-12.769	-12.450	
G	201	PHE	28	-15.736	-17.146	
G	202	LYS	19	-19.222	-19.197	
G	203	ILE	31	-22.341	-23.336	
G	204	TYR	29	-18.958	-20.113	
G	205	SER	19	-17.288	-17.485	
G	206	LYS	29	-14.542	-16.205	
G	207	HIS	15	-11.718	-12.095	
G	208	THR	29	-8.021	-10.433	
G	209	PRO	9	-4.292	-4.834	
G	210	ILE	24	-5.392	-7.532	
G	211	ASN	1	-2.891	-2.674	<=B
G	212	LEU	10	-5.003	-5.578	
G	213	VAL	1	-3.630	-3.327	<=B

G	214	ARG	18	-8.564	-9.649	
G	215	ASP	17	-10.088	-10.883	
G	216	LEU	35	-12.019	-14.661	
G	217	PRO	21	-9.810	-11.097	
G	218	GLN	2	-12.857	-11.609	
G	219	GLY	13	-12.796	-12.819	
G	220	PHE	20	-15.295	-15.836	
G	221	SER	30	-14.005	-15.844	
G	222	ALA	18	-14.983	-15.330	
G	223	LEU	32	-16.888	-18.626	
G	224	GLU	10	-13.821	-13.381	
G	225	PRO	17	-14.267	-14.582	
G	226	LEU	26	-14.091	-15.461	
G	227	VAL	17	-15.097	-15.316	
G	228	ASP	12	-13.663	-13.472	
G	229	LEU	29	-14.452	-16.125	
G	230	PRO	4	-11.704	-10.818	
G	231	ILE	28	-14.245	-15.826	
G	232	GLY	9	-11.233	-10.976	
G	233	ILE	27	-14.581	-16.009	
G	234	ASN	6	-12.479	-11.734	
G	235	ILE	37	-18.019	-20.202	
G	236	THR	5	-13.811	-12.798	
G	237	ARG	12	-20.709	-19.707	
G	238	PHE	32	-26.202	-26.868	
G	239	GLN	24	-26.598	-26.300	
G	240	THR	31	-28.185	-28.509	
G	241	LEU	36	-28.015	-28.933	
G	242	LEU	36	-24.407	-25.740	
G	243	ALA	21	-20.210	-20.301	
G	244	LEU	32	-15.907	-17.758	
G	245	HIS	17	-9.367	-10.245	
G	246	ARG	16	-6.171	-7.302	
G	247	SER	14	-3.936	-5.093	
G	248	TYR	3	-2.506	-2.563	<=B
G	249	LEU	0	-0.781	-0.691	<=B
G	250	THR	10	-1.031	-2.062	<=B
G	251	PRO	1	-0.287	-0.369	<=B
G	252	GLY	7	-1.652	-2.267	<=B
G	253	ASP	12	-3.348	-4.343	
G	254	SER	8	-2.766	-3.368	<=B
G	255	SER	12	-5.521	-6.266	
G	256	SER	11	-6.320	-6.858	
G	257	GLY	12	-6.466	-7.102	
G	258	TRP	23	-9.159	-10.750	
G	259	THR	23	-10.293	-11.754	
G	260	ALA	20	-10.894	-11.941	
G	261	GLY	15	-9.109	-9.787	
G	262	ALA	18	-10.068	-10.980	
G	263	ALA	28	-15.262	-16.727	

G	264	ALA	20	-16.234	-16.667
G	265	TYR	36	-19.916	-21.765
G	266	TYR	30	-19.655	-20.845
G	267	VAL	30	-20.844	-21.897
G	268	GLY	29	-19.493	-20.586
G	269	TYR	12	-18.783	-18.003
G	270	LEU	32	-18.426	-19.987
G	271	GLN	20	-14.595	-15.216
G	272	PRO	4	-14.103	-12.941
G	273	ARG	29	-15.513	-17.064
G	274	THR	15	-16.848	-16.636
G	275	PHE	27	-17.873	-18.923
G	276	LEU	25	-18.598	-19.334
G	277	LEU	29	-15.848	-17.361
G	278	LYS	16	-15.045	-15.155
G	279	TYR	18	-13.152	-13.709
G	280	ASN	10	-9.827	-9.847
G	281	GLU	1	-9.822	-8.808
G	282	ASN	3	-6.997	-6.537
G	283	GLY	7	-10.201	-9.833
G	284	THR	7	-10.965	-10.509
G	285	ILE	31	-14.390	-16.300
G	286	THR	9	-12.765	-12.332
G	287	ASP	12	-15.023	-14.675
G	288	ALA	34	-17.489	-19.387
G	289	VAL	24	-19.834	-20.313
G	290	ASP	23	-19.926	-20.280
G	291	CYS	24	-18.852	-19.444
G	292	ALA	14	-20.521	-19.771
G	293	LEU	34	-22.258	-23.609
G	294	ASP	26	-23.757	-24.015
G	295	PRO	28	-25.137	-25.466
G	296	LEU	27	-26.128	-26.228
G	297	SER	21	-23.106	-22.864
G	298	GLU	19	-22.711	-22.284
G	299	THR	29	-23.551	-24.177
G	300	LYS	31	-19.983	-21.250
G	301	CYS	22	-19.934	-20.172
G	302	THR	23	-19.690	-20.071
G	303	LEU	25	-19.166	-19.837
G	304	LYS	10	-19.510	-18.416
G	305	SER	8	-17.911	-16.771
G	306	PHE	17	-16.785	-16.810
G	307	THR	4	-16.599	-15.150
G	308	VAL	30	-20.724	-21.791
G	309	GLU	3	-18.149	-16.407
G	310	LYS	19	-19.577	-19.510
G	311	GLY	9	-20.885	-19.519
G	312	ILE	28	-23.347	-23.882
G	313	TYR	24	-22.853	-22.985

G	314	GLN	11	-21.895	-20.642
G	315	THR	28	-21.821	-22.532
G	316	SER	16	-22.495	-21.748
G	317	ASN	7	-20.234	-18.712
G	318	PHE	25	-19.897	-20.484
G	319	ARG	6	-17.950	-16.576
G	320	VAL	27	-18.780	-19.726
G	321	GLN	0	-14.934	-13.217
G	322	PRO	19	-10.711	-11.665
G	323	THR	12	-9.462	-9.754
G	324	GLU	10	-7.036	-7.376
G	325	SER	12	-8.599	-8.991
G	326	ILE	31	-8.895	-11.437
G	327	VAL	6	-10.993	-10.418
G	328	ARG	24	-9.512	-11.178
G	329	PHE	16	-11.151	-11.709
G	330	PRO	14	-8.565	-9.190
G	331	ASN	8	-7.651	-7.691
G	332	ILE	4	-9.020	-8.443
G	333	THR	14	-12.733	-12.879
G	334	ASN	14	-14.106	-14.093
G	335	LEU	12	-18.760	-17.983
G	336	CYS	33	-24.198	-25.210
G	337	PRO	16	-23.167	-22.343
G	338	PHE	25	-26.204	-26.066
G	339	GLY	9	-20.074	-18.801
G	340	GLU	12	-19.168	-18.343
G	341	VAL	31	-23.946	-24.757
G	342	PHE	26	-22.479	-22.884
G	343	ASN	9	-16.821	-15.921
G	344	ALA	25	-16.388	-17.378
G	345	THR	0	-9.748	-8.627
G	346	ARG	2	-9.967	-9.051
G	347	PHE	34	-12.711	-15.159
G	348	ALA	15	-9.768	-10.369
G	349	SER	24	-7.379	-9.290
G	350	VAL	36	-9.121	-12.213
G	351	TYR	18	-7.173	-8.418
G	352	ALA	13	-7.549	-8.176
G	353	TRP	32	-10.753	-13.196
G	354	ASN	19	-14.140	-14.699
G	355	ARG	19	-20.145	-20.013
G	356	LYS	23	-22.447	-22.510
G	357	ARG	4	-23.016	-20.829
G	358	ILE	32	-24.106	-25.013
G	359	SER	10	-21.693	-20.349
G	360	ASN	2	-17.942	-16.109
G	361	CYS	18	-20.681	-20.373
G	362	VAL	16	-22.854	-22.066
G	363	ALA	31	-25.862	-26.453

G	364	ASP	17	-22.872	-22.197
G	365	TYR	28	-25.592	-25.869
G	366	SER	7	-20.592	-19.029
G	367	VAL	11	-20.607	-19.503
G	368	LEU	29	-25.053	-25.507
G	369	TYR	10	-21.682	-20.339
G	370	ASN	6	-16.823	-15.578
G	371	SER	19	-18.826	-18.846
G	372	ALA	3	-14.376	-13.068
G	373	SER	9	-11.893	-11.560
G	374	PHE	21	-15.358	-16.007
G	375	SER	24	-12.501	-13.823
G	376	THR	25	-14.507	-15.714
G	377	PHE	16	-20.561	-20.037
G	378	LYS	10	-21.309	-20.009
G	379	CYS	15	-25.077	-23.918
G	380	TYR	19	-22.796	-22.359
G	381	GLY	25	-21.950	-22.300
G	382	VAL	10	-20.626	-19.404
G	383	SER	2	-20.756	-18.599
G	384	PRO	14	-22.697	-21.697
G	385	THR	0	-21.057	-18.635
G	386	LYS	7	-21.216	-19.581
G	387	LEU	26	-25.803	-25.825
G	388	ASN	8	-22.907	-21.193
G	389	ASP	5	-21.461	-19.568
G	390	LEU	16	-22.657	-21.891
G	391	CYS	21	-25.104	-24.632
G	392	PHE	30	-25.325	-25.863
G	393	THR	7	-21.546	-19.873
G	394	ASN	8	-23.274	-21.518
G	395	VAL	35	-28.377	-29.139
G	396	TYR	22	-26.445	-25.933
G	397	ALA	22	-27.649	-27.000
G	398	ASP	24	-24.140	-24.124
G	399	SER	25	-20.889	-21.361
G	400	PHE	33	-14.228	-16.387
G	401	VAL	27	-12.392	-14.072
G	402	ILE	34	-9.546	-12.358
G	403	ARG	24	-6.280	-8.318
G	404	GLY	21	-7.277	-8.855
G	405	ASP	10	-4.377	-5.024
G	406	GLU	26	-5.521	-7.876
G	407	VAL	29	-10.221	-12.381
G	408	ARG	4	-9.315	-8.704
G	409	GLN	24	-7.505	-9.402
G	410	ILE	36	-12.700	-15.379
G	411	ALA	11	-12.995	-12.766
G	412	PRO	18	-12.400	-13.044
G	413	GLY	7	-6.436	-6.501

G	414	GLN	13	-4.886	-5.819	
G	415	THR	3	-4.127	-3.997	
G	416	GLY	16	-4.871	-6.151	
G	417	LYS	19	-4.623	-6.277	
G	418	ILE	29	-8.427	-10.793	
G	419	ALA	19	-7.213	-8.569	
G	420	ASP	14	-5.271	-6.274	
G	421	TYR	17	-5.562	-6.877	
G	422	ASN	35	-7.259	-10.449	
G	423	TYR	34	-8.678	-11.590	
G	424	LYS	18	-9.161	-10.178	
G	425	LEU	32	-14.418	-16.440	
G	426	PRO	16	-10.386	-11.031	
G	427	ASP	3	-7.593	-7.065	
G	428	ASP	2	-10.606	-9.616	
G	429	PHE	25	-18.687	-19.413	
G	430	THR	17	-23.153	-22.446	
G	431	GLY	32	-26.940	-27.522	
G	432	CYS	26	-28.362	-28.090	
G	433	VAL	26	-25.461	-25.523	
G	434	ILE	27	-25.412	-25.595	
G	435	ALA	25	-17.431	-18.302	
G	436	TRP	15	-13.891	-14.018	
G	437	ASN	18	-8.096	-9.235	
G	438	SER	24	-7.393	-9.302	
G	439	ASN	17	-1.460	-3.247	<=B
G	440	ASN	2	-1.700	-1.735	<=B
G	441	LEU	16	-3.447	-4.891	
G	442	ASP	32	-4.036	-7.251	
G	443	SER	23	-0.728	-3.290	<=B
G	444	LYS	8	1.241	0.179	<=B
G	445	VAL	0	3.751	3.320	<=B
G	446	GLY	2	3.372	2.754	<=B
G	447	GLY	6	1.498	0.636	<=B
G	448	ASN	28	0.173	-3.067	<=B
G	449	TYR	5	-0.230	-0.778	<=B
G	450	ASN	18	-0.988	-2.944	<=B
G	451	TYR	33	-4.498	-7.776	
G	452	LEU	17	-5.345	-6.685	
G	453	TYR	28	-6.004	-8.533	
G	454	ARG	27	-3.794	-6.462	
G	455	LEU	13	-4.077	-5.103	
G	456	PHE	12	-4.103	-5.011	
G	457	ARG	23	-2.775	-5.101	
G	458	LYS	12	-1.748	-2.927	<=B
G	459	SER	5	-1.185	-1.623	<=B
G	460	ASN	12	-1.243	-2.480	<=B
G	461	LEU	33	-4.291	-7.592	
G	462	LYS	4	-4.345	-4.305	
G	463	PRO	13	-7.734	-8.339	

G	464	PHE	20	-12.796	-13.624	
G	465	GLU	8	-7.121	-7.222	
G	466	ARG	20	-7.002	-8.497	
G	467	ASP	28	-5.058	-7.697	
G	468	ILE	7	-4.719	-4.981	
G	469	SER	12	-3.956	-4.881	
G	470	THR	10	-4.934	-5.516	
G	471	GLU	8	-4.905	-5.261	
G	472	ILE	17	-5.659	-6.963	
G	473	TYR	16	-5.041	-6.301	
G	474	GLN	8	-5.095	-5.429	
G	475	ALA	11	-4.124	-4.915	
G	476	GLY	9	-3.641	-4.257	
G	477	SER	0	-4.288	-3.795	
G	478	THR	8	-4.284	-4.712	
G	479	PRO	1	-4.317	-3.935	
G	480	CYS	17	-5.399	-6.733	
G	481	ASN	2	-4.343	-4.073	
G	482	GLY	0	-5.245	-4.642	
G	483	VAL	1	-6.201	-5.603	
G	484	GLU	5	-5.856	-5.757	
G	485	GLY	13	-6.140	-6.929	
G	486	PHE	1	-5.547	-5.024	
G	487	ASN	9	-4.970	-5.433	
G	488	CYS	14	-6.340	-7.221	
G	489	TYR	10	-6.296	-6.722	
G	490	PHE	6	-6.559	-6.494	
G	491	PRO	24	-5.763	-7.860	
G	492	LEU	21	-4.159	-6.096	
G	493	GLN	13	-3.166	-4.297	
G	494	SER	10	-2.725	-3.562	<=B
G	495	TYR	36	-2.647	-6.483	
G	496	GLY	6	0.961	0.161	<=B
G	497	PHE	29	-0.401	-3.690	<=B
G	498	GLN	5	1.780	1.000	<=B
G	499	PRO	8	2.950	1.691	<=B
G	500	THR	8	3.914	2.544	<=B
G	501	ASN	27	2.930	-0.512	<=B
G	502	GLY	3	2.734	2.075	<=B
G	503	VAL	3	-0.525	-0.810	<=B
G	504	GLY	3	-1.413	-1.596	<=B
G	505	TYR	14	-1.448	-2.891	<=B
G	506	GLN	14	-3.521	-4.726	
G	507	PRO	31	-6.950	-9.716	
G	508	TYR	26	-10.902	-12.638	
G	509	ARG	20	-14.347	-14.997	
G	510	VAL	35	-17.205	-19.251	
G	511	VAL	23	-24.563	-24.383	
G	512	VAL	34	-26.989	-27.795	
G	513	LEU	32	-29.088	-29.423	

G	514	SER	24	-27.052	-26.701	
G	515	PHE	27	-27.158	-27.140	
G	516	GLU	16	-22.155	-21.447	
G	517	LEU	11	-18.674	-17.792	
G	518	LEU	14	-15.425	-15.261	
G	519	HIS	0	-11.672	-10.329	
G	520	ALA	16	-13.665	-13.934	
G	521	PRO	8	-15.392	-14.542	
G	522	ALA	14	-21.354	-20.509	
G	523	THR	14	-20.778	-19.998	
G	524	VAL	25	-24.331	-24.408	
G	525	CYS	13	-23.636	-22.413	
G	526	GLY	23	-23.316	-23.280	
G	527	PRO	10	-19.207	-18.148	
G	528	LYS	26	-17.139	-18.158	
G	529	LYS	12	-13.527	-13.351	
G	530	SER	20	-10.783	-11.843	
G	531	THR	14	-10.431	-10.842	
G	532	ASN	2	-8.366	-7.634	
G	533	LEU	23	-6.112	-8.054	
G	534	VAL	18	-6.617	-7.926	
G	535	LYS	12	-7.191	-7.744	
G	536	ASN	3	-9.373	-8.640	
G	537	LYS	12	-10.457	-10.635	
G	538	CYS	14	-13.537	-13.590	
G	539	VAL	22	-9.358	-10.812	
G	540	ASN	7	-7.903	-7.799	
G	541	PHE	31	-7.698	-10.377	
G	542	ASN	10	-9.938	-9.945	
G	543	PHE	28	-10.367	-12.395	
G	544	ASN	18	-9.530	-10.504	
G	545	GLY	4	-10.501	-9.754	
G	546	LEU	26	-8.247	-10.289	
G	547	THR	4	-8.935	-8.368	
G	548	GLY	27	-6.850	-9.167	
G	549	THR	12	-8.356	-8.775	
G	550	GLY	18	-11.464	-12.216	
G	551	VAL	15	-11.445	-11.854	
G	552	LEU	27	-9.096	-11.155	
G	553	THR	11	-8.171	-8.496	
G	554	GLU	1	-6.316	-5.705	
G	555	SER	20	-4.680	-6.442	
G	556	ASN	0	-3.230	-2.859	<=B
G	557	LYS	19	-3.241	-5.053	
G	558	LYS	0	-0.853	-0.755	<=B
G	559	PHE	22	-2.219	-4.493	
G	560	LEU	3	-0.875	-1.120	<=B
G	561	PRO	0	-0.782	-0.692	<=B
G	562	PHE	0	-0.769	-0.681	<=B
G	563	GLN	16	-1.969	-3.583	<=B

G	564	GLN	11	-1.992	-3.028	<=B
G	565	PHE	17	-4.421	-5.867	
G	566	GLY	23	-4.841	-6.930	
G	567	ARG	8	-5.302	-5.613	
G	568	ASP	11	-4.697	-5.422	
G	569	ILE	0	-3.760	-3.328	<=B
G	570	ALA	7	-5.109	-5.326	
G	571	ASP	0	-4.605	-4.076	
G	572	THR	10	-6.775	-7.146	
G	573	THR	25	-6.838	-8.927	
G	574	ASP	12	-6.591	-7.213	
G	575	ALA	17	-6.636	-7.828	
G	576	VAL	30	-5.752	-8.540	
G	577	ARG	15	-3.765	-5.057	
G	578	ASP	24	-4.916	-7.111	
G	579	PRO	21	-5.694	-7.454	
G	580	GLN	17	-5.692	-6.992	
G	581	THR	6	-2.744	-3.118	<=B
G	582	LEU	11	-2.593	-3.560	<=B
G	583	GLU	14	-2.913	-4.188	
G	584	ILE	16	-4.730	-6.026	
G	585	LEU	34	-6.481	-9.645	
G	586	ASP	11	-7.626	-8.014	
G	587	ILE	25	-9.769	-11.521	
G	588	THR	20	-11.993	-12.914	
G	589	PRO	14	-12.557	-12.723	
G	590	CYS	18	-15.789	-16.044	
G	591	SER	26	-20.051	-20.735	
G	592	PHE	6	-19.615	-18.050	
G	593	GLY	26	-21.765	-22.252	
G	594	GLY	13	-22.244	-21.181	
G	595	VAL	27	-27.049	-27.043	
G	596	SER	27	-25.242	-25.444	
G	597	VAL	29	-27.953	-28.074	
G	598	ILE	34	-25.950	-26.876	
G	599	THR	32	-24.299	-25.185	
G	600	PRO	21	-17.647	-18.032	
G	601	GLY	7	-17.838	-16.591	
G	602	THR	18	-16.866	-16.996	
G	603	ASN	6	-13.104	-12.287	
G	604	THR	19	-11.411	-12.284	
G	605	SER	29	-16.866	-18.261	
G	606	ASN	14	-19.200	-18.602	
G	607	GLN	28	-20.372	-21.250	
G	608	VAL	30	-24.336	-24.987	
G	609	ALA	35	-25.989	-27.025	
G	610	VAL	33	-28.193	-28.746	
G	611	LEU	31	-27.917	-28.271	
G	612	TYR	24	-26.467	-26.183	
G	613	GLN	17	-25.311	-24.355	

G	614	ASP	11	-21.097	-19.936
G	615	VAL	28	-22.420	-23.062
G	616	ASN	7	-20.851	-19.258
G	617	CYS	22	-21.589	-21.636
G	618	THR	9	-18.893	-17.756
G	619	GLU	28	-18.990	-20.026
G	620	VAL	35	-24.051	-25.310
G	621	PRO	27	-21.533	-22.161
G	622	VAL	4	-18.629	-16.947
G	623	ALA	10	-16.629	-15.867
G	624	ILE	3	-13.216	-12.041
G	625	HIS	13	-14.794	-14.588
G	626	ALA	2	-13.423	-12.109
G	627	ASP	21	-14.766	-15.483
G	628	GLN	8	-10.086	-9.846
G	629	LEU	4	-8.540	-8.018
G	630	THR	16	-12.472	-12.877
G	631	PRO	16	-10.882	-11.471
G	632	THR	15	-10.004	-10.579
G	633	TRP	6	-9.114	-8.756
G	634	ARG	12	-12.799	-12.707
G	635	VAL	18	-17.208	-17.299
G	636	TYR	27	-22.483	-23.003
G	637	SER	20	-21.863	-21.649
G	638	THR	27	-23.314	-23.737
G	639	GLY	18	-20.817	-20.493
G	640	SER	18	-18.502	-18.444
G	641	ASN	14	-18.119	-17.645
G	642	VAL	20	-21.907	-21.688
G	643	PHE	25	-20.678	-21.175
G	644	GLN	7	-21.151	-19.524
G	645	THR	34	-20.870	-22.380
G	646	ARG	12	-19.206	-18.377
G	647	ALA	26	-21.149	-21.707
G	648	GLY	29	-22.899	-23.601
G	649	CYS	23	-23.690	-23.611
G	650	LEU	31	-27.443	-27.852
G	651	ILE	31	-25.760	-26.362
G	652	GLY	30	-23.635	-24.367
G	653	ALA	38	-20.499	-22.512
G	654	GLU	12	-16.635	-16.102
G	655	HIS	13	-16.722	-16.294
G	656	VAL	27	-13.162	-14.754
G	657	ASN	1	-9.685	-8.686
G	658	ASN	14	-7.937	-8.634
G	659	SER	10	-9.461	-9.523
G	660	TYR	19	-10.503	-11.480
G	661	GLU	4	-11.261	-10.426
G	662	CYS	13	-13.509	-13.450
G	663	ASP	20	-15.150	-15.708

G	664	ILE	29	-18.471	-19.682	
G	665	PRO	1	-18.049	-16.088	
G	666	ILE	41	-19.824	-22.260	
G	667	GLY	22	-19.437	-19.732	
G	668	ALA	11	-16.794	-16.128	
G	669	GLY	10	-16.009	-15.318	
G	670	ILE	28	-19.210	-20.221	
G	671	CYS	15	-18.432	-18.038	
G	672	ALA	36	-19.545	-21.438	
G	673	SER	17	-15.996	-16.111	
G	674	TYR	20	-13.490	-14.238	
G	675	GLN	13	-9.758	-10.131	
G	676	THR	13	-8.069	-8.636	
G	677	GLN	22	-8.425	-9.986	
G	678	THR	7	-3.659	-4.043	
G	679	ASN	2	-0.945	-1.067	<=B
G	680	SER	13	1.646	-0.039	<=B
G	681	PRO	2	2.836	2.280	<=B
G	682	ARG	4	3.123	2.304	<=B
G	683	ARG	0	2.141	1.895	<=B
G	684	ALA	1	2.845	2.403	<=B
G	685	ARG	13	0.417	-1.126	<=B
G	686	SER	4	0.846	0.289	<=B
G	687	VAL	9	-2.881	-3.585	<=B
G	688	ALA	5	-5.297	-5.263	
G	689	SER	12	-5.466	-6.217	
G	690	GLN	19	-7.787	-9.076	
G	691	SER	22	-12.985	-14.022	
G	692	ILE	38	-17.980	-20.282	
G	693	ILE	21	-17.086	-17.536	
G	694	ALA	32	-18.921	-20.425	
G	695	TYR	20	-16.500	-16.902	
G	696	THR	7	-14.495	-13.633	
G	697	MET	17	-13.640	-14.026	
G	698	SER	10	-9.834	-9.853	
G	699	LEU	3	-8.627	-7.980	
G	700	GLY	3	-7.545	-7.022	
G	701	ALA	2	-5.470	-5.071	
G	702	GLU	5	-5.236	-5.209	
G	703	ASN	5	-2.696	-2.961	<=B
G	704	SER	2	-2.199	-2.177	<=B
G	705	VAL	11	-2.700	-3.654	<=B
G	706	ALA	9	-4.123	-4.684	
G	707	TYR	3	-3.931	-3.824	
G	708	SER	9	-5.195	-5.633	
G	709	ASN	6	-6.065	-6.057	
G	710	ASN	16	-6.775	-7.836	
G	711	SER	7	-6.050	-6.159	
G	712	ILE	27	-7.518	-9.758	
G	713	ALA	11	-3.396	-4.271	

G	714	ILE	26	-3.256	-5.871	
G	715	PRO	18	-3.791	-5.425	
G	716	THR	8	-2.835	-3.429	<=B
G	717	ASN	7	-3.699	-4.078	
G	718	PHE	34	-8.294	-11.250	
G	719	THR	13	-9.056	-9.509	
G	720	ILE	28	-13.465	-15.137	
G	721	SER	15	-18.646	-18.227	
G	722	VAL	30	-23.832	-24.541	
G	723	THR	18	-25.212	-24.382	
G	724	THR	31	-27.098	-27.547	
G	725	GLU	27	-26.691	-26.726	
G	726	ILE	25	-25.972	-25.860	
G	727	LEU	32	-26.253	-26.914	
G	728	PRO	24	-26.611	-26.311	
G	729	VAL	32	-27.224	-27.774	
G	730	SER	33	-25.200	-26.097	
G	731	MET	32	-23.317	-24.315	
G	732	THR	31	-24.854	-25.561	
G	733	LYS	19	-23.747	-23.201	
G	734	THR	39	-24.263	-25.957	
G	735	SER	17	-25.007	-24.086	
G	736	VAL	36	-27.783	-28.728	
G	737	ASP	13	-25.427	-23.998	
G	738	CYS	30	-28.048	-28.273	
G	739	THR	12	-26.905	-25.191	
G	740	MET	12	-26.652	-24.967	
G	741	TYR	33	-28.473	-28.994	
G	742	ILE	37	-28.189	-29.202	
G	743	CYS	23	-26.349	-25.964	
G	744	GLY	20	-25.227	-24.626	
G	745	ASP	3	-21.638	-19.494	
G	746	SER	21	-18.557	-18.838	
G	747	THR	0	-17.138	-15.167	
G	748	GLU	23	-17.893	-18.481	
G	749	CYS	30	-21.342	-22.337	
G	750	SER	7	-21.114	-19.491	
G	751	ASN	11	-17.179	-16.468	
G	752	LEU	27	-20.100	-20.894	
G	753	LEU	27	-22.322	-22.860	
G	754	LEU	7	-18.258	-16.963	
G	755	GLN	13	-16.372	-15.984	
G	756	TYR	27	-18.757	-19.705	
G	757	GLY	0	-16.339	-14.460	
G	758	SER	4	-17.504	-15.951	
G	759	PHE	22	-22.082	-22.072	
G	760	CYS	19	-23.936	-23.368	
G	761	THR	5	-20.347	-18.582	
G	762	GLN	10	-18.426	-17.457	
G	763	LEU	29	-22.626	-23.359	

G	764	ASN	12	-22.513	-21.304	
G	765	ARG	6	-16.601	-15.382	
G	766	ALA	22	-17.317	-17.855	
G	767	LEU	26	-21.739	-22.229	
G	768	THR	8	-19.505	-18.182	
G	769	GLY	15	-14.992	-14.993	
G	770	ILE	30	-18.846	-20.129	
G	771	ALA	22	-21.435	-21.500	
G	772	VAL	7	-16.859	-15.725	
G	773	GLU	19	-15.037	-15.493	
G	774	GLN	31	-19.244	-20.596	
G	775	ASP	16	-16.830	-16.734	
G	776	LYS	12	-15.823	-15.384	
G	777	ASN	31	-21.520	-22.610	
G	778	THR	28	-22.272	-22.930	
G	779	GLN	9	-19.390	-18.195	
G	780	GLU	20	-20.349	-20.309	
G	781	VAL	38	-25.982	-27.364	
G	782	PHE	33	-24.599	-25.565	
G	783	ALA	18	-20.586	-20.289	
G	784	GLN	31	-18.534	-19.967	
G	785	VAL	30	-17.174	-18.649	
G	786	LYS	10	-12.625	-12.323	
G	787	GLN	16	-11.448	-11.972	
G	788	ILE	12	-11.146	-11.244	
G	789	TYR	30	-12.548	-14.555	
G	790	LYS	13	-10.245	-10.562	
G	791	THR	27	-10.472	-12.373	
G	792	PRO	14	-5.383	-6.374	
G	793	PRO	0	-1.608	-1.423	<=B
G	794	ILE	3	-1.611	-1.771	<=B
G	795	LYS	17	-5.439	-6.769	
G	796	ASP	1	-6.321	-5.709	
G	797	PHE	27	-10.848	-12.706	
G	798	GLY	21	-8.154	-9.631	
G	799	GLY	14	-6.475	-7.341	
G	800	PHE	30	-12.574	-14.578	
G	801	ASN	16	-12.400	-12.814	
G	802	PHE	34	-15.318	-17.466	
G	803	SER	10	-9.257	-9.342	
G	804	GLN	23	-13.540	-14.628	
G	805	ILE	38	-20.000	-22.070	
G	806	LEU	21	-15.587	-16.210	
G	807	PRO	26	-12.923	-14.427	
G	808	ASP	16	-6.377	-7.484	
G	809	PRO	8	-1.977	-2.670	<=B
G	810	SER	4	1.133	0.542	<=B
G	811	LYS	21	-2.322	-4.470	
G	812	PRO	1	-1.679	-1.601	<=B
G	813	SER	19	-5.964	-7.463	

G	814	LYS	16	-6.622	-7.700
G	815	ARG	22	-13.462	-14.444
G	816	SER	35	-17.034	-19.100
G	817	PHE	15	-12.899	-13.141
G	818	ILE	35	-20.388	-22.068
G	819	GLU	33	-20.575	-22.004
G	820	ASP	15	-14.904	-14.915
G	821	LEU	26	-15.643	-16.834
G	822	LEU	34	-19.894	-21.516
G	823	PHE	18	-17.899	-17.911
G	824	ASN	15	-12.686	-12.952
G	825	LYS	31	-15.050	-16.884
G	826	VAL	33	-18.452	-20.125
G	827	THR	11	-17.809	-17.026
G	828	LEU	33	-22.335	-23.561
G	829	ALA	18	-19.076	-18.952
G	830	ASP	11	-17.348	-16.618
G	831	ALA	24	-18.203	-18.870
G	832	GLY	14	-16.355	-16.084
G	833	PHE	7	-16.663	-15.552
G	834	ILE	14	-16.862	-16.533
G	835	LYS	11	-12.164	-12.030
G	836	GLN	0	-10.112	-8.949
G	837	TYR	0	-8.540	-7.557
G	838	GLY	8	-7.464	-7.525
G	839	ASP	11	-8.362	-8.666
G	840	CYS	7	-9.473	-9.189
G	841	LEU	14	-12.009	-12.238
G	842	GLY	16	-11.797	-12.280
G	843	ASP	10	-13.032	-12.683
G	844	ILE	18	-13.914	-14.384
G	845	ALA	12	-12.954	-12.844
G	846	ALA	6	-13.624	-12.747
G	847	ARG	7	-15.833	-14.817
G	848	ASP	21	-17.734	-18.110
G	849	LEU	22	-22.091	-22.080
G	850	ILE	23	-22.629	-22.672
G	851	CYS	13	-20.735	-19.845
G	852	ALA	15	-23.003	-22.082
G	853	GLN	30	-26.918	-27.272
G	854	LYS	25	-26.105	-25.978
G	855	PHE	17	-25.360	-24.399
G	856	ASN	27	-27.812	-27.719
G	857	GLY	24	-27.690	-27.266
G	858	LEU	27	-28.380	-28.221
G	859	THR	18	-25.546	-24.678
G	860	VAL	27	-23.963	-24.312
G	861	LEU	20	-22.731	-22.417
G	862	PRO	10	-16.585	-15.828
G	863	PRO	25	-18.231	-19.009

G	864	LEU	18	-14.689	-15.070
G	865	LEU	29	-15.645	-17.181
G	866	THR	8	-13.806	-13.139
G	867	ASP	27	-16.549	-17.751
G	868	GLU	8	-11.624	-11.208
G	869	MET	13	-13.709	-13.627
G	870	ILE	32	-19.651	-21.071
G	871	ALA	25	-18.113	-18.905
G	872	GLN	12	-14.278	-14.016
G	873	TYR	28	-20.321	-21.204
G	874	THR	40	-23.070	-25.017
G	875	SER	24	-19.530	-20.044
G	876	ALA	20	-18.182	-18.391
G	877	LEU	36	-23.410	-24.858
G	878	LEU	34	-24.187	-25.316
G	879	ALA	26	-19.641	-20.372
G	880	GLY	32	-20.999	-22.264
G	881	THR	33	-23.525	-24.615
G	882	ILE	32	-19.038	-20.529
G	883	THR	20	-16.078	-16.529
G	884	SER	26	-16.749	-17.813
G	885	GLY	19	-19.415	-19.367
G	886	TRP	23	-22.015	-22.128
G	887	THR	14	-17.143	-16.781
G	888	PHE	30	-17.648	-19.068
G	889	GLY	29	-19.707	-20.776
G	890	ALA	11	-13.719	-13.406
G	891	GLY	3	-11.430	-10.461
G	892	ALA	2	-12.039	-10.884
G	893	ALA	23	-13.659	-14.733
G	894	LEU	11	-11.512	-11.453
G	895	GLN	7	-10.799	-10.362
G	896	ILE	19	-10.580	-11.548
G	897	PRO	8	-10.921	-10.585
G	898	PHE	24	-14.670	-15.743
G	899	ALA	17	-12.458	-12.981
G	900	MET	8	-11.250	-10.876
G	901	GLN	31	-13.602	-15.602
G	902	MET	24	-13.998	-15.148
G	903	ALA	14	-9.993	-10.454
G	904	TYR	18	-11.250	-12.026
G	905	ARG	37	-15.107	-17.625
G	906	PHE	27	-10.643	-12.524
G	907	ASN	11	-8.429	-8.724
G	908	GLY	29	-11.091	-13.151
G	909	ILE	32	-9.789	-12.343
G	910	GLY	20	-6.570	-8.115
G	911	VAL	37	-7.553	-10.939
G	912	THR	16	-4.490	-5.814
G	913	GLN	10	-4.669	-5.282

G	914	ASN	8	-0.938	-1.750	<=B
G	915	VAL	30	-2.798	-5.926	
G	916	LEU	25	-7.416	-9.438	
G	917	TYR	9	-2.524	-3.269	<=B
G	918	GLU	12	-1.964	-3.118	<=B
G	919	ASN	22	-2.935	-5.127	
G	920	GLN	17	-4.881	-6.275	
G	921	LYS	1	-4.829	-4.388	
G	922	LEU	13	-3.824	-4.879	
G	923	ILE	28	-8.911	-11.107	
G	924	ALA	16	-10.106	-10.784	
G	925	ASN	4	-8.218	-7.733	
G	926	GLN	20	-10.192	-11.320	
G	927	PHE	29	-14.679	-16.325	
G	928	ASN	13	-13.720	-13.638	
G	929	SER	8	-12.994	-12.419	
G	930	ALA	25	-17.281	-18.169	
G	931	ILE	22	-18.543	-18.941	
G	932	GLY	8	-14.976	-14.174	
G	933	LYS	15	-14.365	-14.438	
G	934	ILE	36	-19.292	-21.214	
G	935	GLN	17	-15.147	-15.360	
G	936	ASP	7	-11.650	-11.115	
G	937	SER	20	-12.990	-13.796	
G	938	LEU	31	-14.558	-16.449	
G	939	SER	8	-9.972	-9.746	
G	940	SER	4	-10.483	-9.737	
G	941	THR	17	-14.002	-14.347	
G	942	ALA	7	-13.124	-12.420	
G	943	SER	5	-16.267	-14.971	
G	944	ALA	25	-21.902	-22.258	
G	945	LEU	30	-20.887	-21.935	
G	946	GLY	9	-19.062	-17.905	
G	947	LYS	20	-20.248	-20.220	
G	948	LEU	31	-23.816	-24.642	
G	949	GLN	14	-21.729	-20.840	
G	950	ASP	14	-20.216	-19.501	
G	951	VAL	32	-21.841	-23.009	
G	952	VAL	25	-25.151	-25.134	
G	953	ASN	12	-22.988	-21.725	
G	954	GLN	20	-19.608	-19.653	
G	955	ASN	35	-24.231	-25.469	
G	956	ALA	18	-23.989	-23.300	
G	957	GLN	14	-22.323	-21.366	
G	958	ALA	26	-22.709	-23.087	
G	959	LEU	28	-25.420	-25.716	
G	960	ASN	11	-24.987	-23.379	
G	961	THR	16	-24.960	-23.929	
G	962	LEU	34	-27.677	-28.404	
G	963	VAL	20	-27.857	-26.953	

G	964	LYS	9	-24.851	-23.028
G	965	GLN	26	-23.647	-23.918
G	966	LEU	26	-25.636	-25.678
G	967	SER	7	-20.168	-18.654
G	968	SER	21	-17.954	-18.305
G	969	ASN	4	-14.680	-13.452
G	970	PHE	24	-16.497	-17.360
G	971	GLY	9	-12.184	-11.818
G	972	ALA	31	-14.402	-16.311
G	973	ILE	14	-11.570	-11.849
G	974	SER	13	-12.261	-12.346
G	975	SER	15	-17.570	-17.275
G	976	VAL	7	-18.008	-16.742
G	977	LEU	25	-20.768	-21.254
G	978	ASN	5	-16.978	-15.601
G	979	ASP	9	-12.487	-12.086
G	980	ILE	30	-14.136	-15.960
G	981	LEU	14	-13.250	-13.336
G	982	SER	6	-9.264	-8.889
G	983	ARG	15	-8.722	-9.444
G	984	LEU	18	-9.623	-10.586
G	985	ASP	1	-9.047	-8.122
G	986	LYS	8	-11.259	-10.884
G	987	VAL	0	-10.218	-9.043
G	988	GLU	11	-11.021	-11.018
G	989	ALA	22	-15.239	-16.016
G	990	GLU	7	-15.581	-14.594
G	991	VAL	7	-14.838	-13.937
G	992	GLN	21	-15.937	-16.519
G	993	ILE	31	-19.929	-21.202
G	994	ASP	6	-19.007	-17.511
G	995	ARG	16	-18.675	-18.367
G	996	LEU	32	-21.086	-22.341
G	997	ILE	28	-23.414	-23.941
G	998	THR	13	-20.607	-19.732
G	999	GLY	23	-20.422	-20.719
G	1000	ARG	34	-25.173	-26.188
G	1001	LEU	21	-25.638	-25.104
G	1002	GLN	12	-20.781	-19.771
G	1003	SER	32	-23.775	-24.721
G	1004	LEU	31	-25.961	-26.540
G	1005	GLN	11	-21.751	-20.515
G	1006	THR	18	-19.675	-19.482
G	1007	TYR	34	-23.008	-24.272
G	1008	VAL	24	-22.025	-22.252
G	1009	THR	8	-14.971	-14.170
G	1010	GLN	20	-15.776	-16.262
G	1011	GLN	36	-20.872	-22.612
G	1012	LEU	14	-15.577	-15.395
G	1013	ILE	8	-13.086	-12.501

G	1014	ARG	28	-17.104	-18.357
G	1015	ALA	22	-19.402	-19.701
G	1016	ALA	6	-14.193	-13.251
G	1017	GLU	16	-15.823	-15.843
G	1018	ILE	36	-21.310	-22.999
G	1019	ARG	13	-19.224	-18.508
G	1020	ALA	7	-16.442	-15.356
G	1021	SER	23	-21.582	-21.745
G	1022	ALA	26	-22.523	-22.923
G	1023	ASN	5	-18.665	-17.093
G	1024	LEU	21	-20.398	-20.467
G	1025	ALA	39	-26.060	-27.548
G	1026	ALA	17	-23.791	-23.010
G	1027	THR	16	-21.908	-21.228
G	1028	LYS	35	-26.140	-27.159
G	1029	MET	33	-28.937	-29.404
G	1030	SER	14	-22.387	-21.422
G	1031	GLU	17	-22.638	-21.989
G	1032	CYS	37	-27.263	-28.382
G	1033	VAL	38	-28.371	-29.478
G	1034	LEU	27	-25.389	-25.574
G	1035	GLY	18	-23.919	-23.238
G	1036	GLN	24	-22.417	-22.599
G	1037	SER	29	-21.275	-22.164
G	1038	LYS	4	-14.547	-13.334
G	1039	ARG	17	-12.471	-12.992
G	1040	VAL	2	-12.513	-11.304
G	1041	ASP	1	-15.764	-14.066
G	1042	PHE	20	-19.869	-19.884
G	1043	CYS	34	-24.995	-26.031
G	1044	GLY	27	-21.124	-21.800
G	1045	LYS	7	-16.899	-15.760
G	1046	GLY	26	-14.219	-15.574
G	1047	TYR	20	-13.263	-14.037
G	1048	HIS	27	-20.073	-20.870
G	1049	LEU	32	-20.644	-21.950
G	1050	MET	32	-26.658	-27.272
G	1051	SER	39	-29.000	-30.150
G	1052	PHE	32	-28.316	-28.740
G	1053	PRO	42	-28.766	-30.288
G	1054	GLN	33	-24.402	-25.391
G	1055	SER	34	-25.174	-26.189
G	1056	ALA	34	-24.929	-25.972
G	1057	PRO	24	-24.547	-24.484
G	1058	HIS	35	-27.607	-28.458
G	1059	GLY	30	-27.140	-27.469
G	1060	VAL	41	-27.912	-29.418
G	1061	VAL	35	-26.797	-27.740
G	1062	PHE	37	-30.639	-31.371
G	1063	LEU	34	-29.758	-30.246

G	1064	HIS	27	-28.469	-28.300	
G	1065	VAL	32	-25.623	-26.357	
G	1066	THR	24	-20.343	-20.764	
G	1067	TYR	34	-13.056	-15.464	
G	1068	VAL	17	-11.027	-11.714	
G	1069	PRO	19	-7.749	-9.043	
G	1070	ALA	11	-5.674	-6.286	
G	1071	GLN	4	-3.097	-3.201	<=B
G	1072	GLU	13	-3.089	-4.229	
G	1073	LYS	17	-2.831	-4.460	
G	1074	ASN	8	-2.897	-3.484	<=B
G	1075	PHE	29	-5.111	-7.858	
G	1076	THR	12	-6.538	-7.166	
G	1077	THR	25	-8.135	-10.075	
G	1078	ALA	27	-9.566	-11.571	
G	1079	PRO	13	-9.822	-10.187	
G	1080	ALA	18	-10.265	-11.154	
G	1081	ILE	29	-9.480	-11.725	
G	1082	CYS	13	-9.428	-9.839	
G	1083	HIS	20	-7.687	-9.103	
G	1084	ASP	10	-7.479	-7.769	
G	1085	GLY	0	-8.439	-7.469	
G	1086	LYS	14	-8.650	-9.265	
G	1087	ALA	19	-9.320	-10.433	
G	1088	HIS	28	-8.725	-10.942	
G	1089	PHE	12	-8.772	-9.144	
G	1090	PRO	23	-5.976	-7.934	
G	1091	ARG	12	-5.591	-6.328	
G	1092	GLU	12	-4.513	-5.374	
G	1093	GLY	31	-5.674	-8.587	
G	1094	VAL	22	-7.898	-9.520	
G	1095	PHE	32	-8.112	-10.859	
G	1096	VAL	24	-7.180	-9.114	
G	1097	SER	17	-5.921	-7.195	
G	1098	ASN	11	-3.735	-4.571	
G	1099	GLY	2	-4.146	-3.899	
G	1100	THR	0	-3.798	-3.361	<=B
G	1101	HIS	9	-3.217	-3.882	
G	1102	TRP	28	-5.724	-8.286	
G	1103	PHE	21	-5.188	-7.006	
G	1104	VAL	25	-6.262	-8.417	
G	1105	THR	26	-5.864	-8.179	
G	1106	GLN	17	-3.839	-5.353	
G	1107	ARG	12	-5.387	-6.148	
G	1108	ASN	23	-4.682	-6.788	
G	1109	PHE	22	-3.913	-5.993	
G	1110	TYR	21	-3.574	-5.578	
G	1111	GLU	20	-1.621	-3.734	
G	1112	PRO	19	-2.602	-4.487	
G	1113	GLN	22	-1.850	-4.167	

G	1114	ILE	6	-3.265	-3.580	<=B
G	1115	ILE	32	-4.909	-8.025	
G	1116	THR	9	-5.243	-5.675	
G	1117	THR	9	-4.683	-5.179	
G	1118	ASP	6	-3.548	-3.830	
G	1119	ASN	29	-5.890	-8.548	
G	1120	THR	36	-6.640	-10.016	
G	1121	PHE	4	-7.159	-6.796	
G	1122	VAL	10	-7.776	-8.032	
G	1123	SER	12	-8.093	-8.542	
G	1124	GLY	12	-8.307	-8.732	
G	1125	ASN	3	-9.004	-8.313	
G	1126	CYS	12	-10.601	-10.762	
G	1127	ASP	1	-9.383	-8.419	
G	1128	VAL	8	-9.684	-9.490	
G	1129	VAL	25	-10.713	-12.356	
G	1130	ILE	1	-10.145	-9.093	
G	1131	GLY	14	-10.294	-10.720	
G	1132	ILE	25	-10.521	-12.186	
G	1133	VAL	21	-9.459	-10.786	
G	1134	ASN	0	-7.977	-7.060	
G	1135	ASN	30	-7.058	-9.697	
G	1136	THR	4	-6.453	-6.171	
G	1137	VAL	29	-6.736	-9.297	
G	1138	TYR	11	-4.156	-4.943	
G	1139	ASP	10	-3.059	-3.857	
G	1140	PRO	8	-0.898	-1.715	<=B
G	1141	LEU	4	-0.587	-0.979	<=B
G	1142	GLN	8	-0.179	-1.078	<=B
G	1143	PRO	6	0.579	-0.178	<=B
G	1144	GLU	6	0.248	-0.470	<=B
G	1145	LEU	5	-0.262	-0.807	<=B
G	1146	ASP	4	0.359	-0.143	<=B
G	1147	SER	3	0.262	-0.113	<=B