





ATOM 43	CB	CB	. TRP TRP TRP A A 6 6	. 76.417	81.360	8.957	1.00
5.32	1	. .					
ATOM 44	CG	CG	. TRP TRP TRP A A 6 6	. 77.264	81.354	7.651	1.00
6.28	1	. .					
ATOM 45	CD1	CD1	. TRP TRP TRP A A 6 6	. 77.664	82.437	6.940	1.00
10.03	1	. .					
ATOM 46	NE1	NE1	. TRP TRP TRP A A 6 6	. 78.437	82.069	5.896	1.00
7.70	1	. .					
ATOM 47	CE2	CE2	. TRP TRP TRP A A 6 6	. 78.473	80.705	5.833	1.00
10.26	1	. .					
ATOM 48	CD2	CD2	. TRP TRP TRP A A 6 6	. 77.782	80.222	6.956	1.00
6.70	1	. .					
ATOM 49	CE3	CE3	. TRP TRP TRP A A 6 6	. 77.717	78.856	7.167	1.00
8.75	1	. .					
ATOM 50	CZ3	CZ3	. TRP TRP TRP A A 6 6	. 78.331	78.003	6.252	1.00
9.15	1	. .					
ATOM 51	CH2	CH2	. TRP TRP TRP A A 6 6	. 79.036	78.489	5.159	1.00
9.31	1	. .					
ATOM 52	CZ2	CZ2	. TRP TRP TRP A A 6 6	. 79.144	79.842	4.930	1.00
8.84	1	. .					
ATOM 53	C	C	. TRP TRP TRP A A 6 6	. 78.376	81.985	10.353	1.00
2.06	1	. .					
ATOM 54	O	O	. TRP TRP TRP A A 6 6	. 78.053	83.144	10.629	1.00
3.15	1	. .					
ATOM 55	N	N	. ALA ALA ALA A A 7 7	. 79.624	81.595	10.186	1.00
3.39	1	. .					
ATOM 56	CA	CA	. ALA ALA ALA A A 7 7	. 80.815	82.423	10.350	1.00
2.42	1	. .					
ATOM 57	CB	CB	. ALA ALA ALA A A 7 7	. 81.847	81.693	11.265	1.00
3.98	1	. .					
ATOM 58	C	C	. ALA ALA ALA A A 7 7	. 81.385	82.804	8.983	1.00
2.40	1	. .					
ATOM 59	O	O	. ALA ALA ALA A A 7 7	. 81.195	82.101	7.962	1.00
2.58	1	. .					
ATOM 60	N	N	. ARG ARG ARG A A 8 8	. 82.034	83.971	8.954	1.00
2.17	1	. .					
ATOM 61	CA	CA	. ARG ARG ARG A A 8 8	. 82.683	84.426	7.756	1.00
2.08	1	. .					
ATOM 62	CB	CB	. ARG ARG ARG A A 8 8	. 81.723	85.325	6.983	1.00
2.00	1	. .					
ATOM 63	CG	CG	. ARG ARG ARG A A 8 8	. 81.493	86.724	7.637	1.00
3.79	1	. .					
ATOM 64	CD	CD	. ARG ARG ARG A A 8 8	. 80.531	87.693	6.878	1.00
2.44	1	. .					
ATOM 65	NE	NE	. ARG ARG ARG A A 8 8	. 79.240	87.016	6.662	1.00
2.46	1	. .					
ATOM 66	CZ	CZ	. ARG ARG ARG A A 8 8	. 78.269	86.976	7.538	1.00
2.30	1	. .					
ATOM 67	NH1	NH1	. ARG ARG ARG A A 8 8	. 78.413	87.611	8.707	1.00
4.11	1	. .					
ATOM 68	NH2	NH2	. ARG ARG ARG A A 8 8	. 77.170	86.257	7.286	1.00
3.81	1	. .					
ATOM 69	C	C	. ARG ARG ARG A A 8 8	. 83.957	85.173	8.110	1.00
2.56	1	. .					

ATOM 70	O	O	. ARG ARG ARG A A 8 8	. 84.163 85.570 9.260 1.00
2.16	1	. . .		
ATOM 71	N	N	. GLU GLU GLU A A 9 9	. 84.754 85.446 7.109 1.00
2.59	1	. . .		
ATOM 72	CA	CA	. GLU GLU GLU A A 9 9	. 85.896 86.322 7.181 1.00
2.67	1	. . .		
ATOM 73	CB	CB	. GLU GLU GLU A A 9 9	. 86.832 85.935 6.076 1.00
5.88	1	. . .		
ATOM 74	CG	CG	. GLU GLU GLU A A 9 9	. 88.227 85.720 6.412 1.00
8.82	1	. . .		
ATOM 75	CD	CD	. GLU GLU GLU A A 9 9	. 89.080 85.325 5.210 1.00
8.86	1	. . .		
ATOM 76	OE1	OE1	. GLU GLU GLU A A 9 9	. 90.179 84.782 5.535 1.00
2.74	1	. . .		
ATOM 77	OE2	OE2	. GLU GLU GLU A A 9 9	. 88.638 85.589 4.015 1.00
10.47	1	. . .		
ATOM 78	C	C	. GLU GLU GLU A A 9 9	. 85.425 87.776 6.963 1.00
2.33	1	. . .		
ATOM 79	O	O	. GLU GLU GLU A A 9 9	. 84.656 88.034 6.008 1.00
4.01	1	. . .		
ATOM 80	N	N	. ILE ILE ILE A A 10 10	. 85.794 88.704 7.840 1.00
2.36	1	. . .		
ATOM 81	CA	CA	. ILE ILE ILE A A 10 10	. 85.620 90.163 7.600 1.00
2.30	1	. . .		
ATOM 82	CB	CB	. ILE ILE ILE A A 10 10	. 84.659 90.839 8.511 1.00
2.22	1	. . .		
ATOM 83	CG1	CG1	. ILE ILE ILE A A 10 10	. 85.134 90.769 9.965 1.00
2.00	1	. . .		
ATOM 84	CD1	CD1	. ILE ILE ILE A A 10 10	. 84.236 91.662 10.853 1.00
3.56	1	. . .		
ATOM 85	CG2	CG2	. ILE ILE ILE A A 10 10	. 83.213 90.329 8.368 1.00
2.45	1	. . .		
ATOM 86	C	C	. ILE ILE ILE A A 10 10	. 87.013 90.779 7.751 1.00
2.03	1	. . .		
ATOM 87	O	O	. ILE ILE ILE A A 10 10	. 87.975 90.109 8.120 1.00
2.80	1	. . .		
ATOM 88	N	N	. LEU LEU LEU A A 11 11	. 87.129 92.089 7.485 1.00
2.42	1	. . .		
ATOM 89	CA	CA	. LEU LEU LEU A A 11 11	. 88.455 92.739 7.689 1.00
2.00	1	. . .		
ATOM 90	CB	CB	. LEU LEU LEU A A 11 11	. 88.909 93.601 6.482 1.00
2.75	1	. . .		
ATOM 91	CG	CG	. LEU LEU LEU A A 11 11	. 89.100 92.838 5.170 1.00
2.37	1	. . .		
ATOM 92	CD1	CD1	. LEU LEU LEU A A 11 11	. 89.740 93.848 4.189 1.00
2.20	1	. . .		
ATOM 93	CD2	CD2	. LEU LEU LEU A A 11 11	. 89.989 91.554 5.357 1.00
2.39	1	. . .		
ATOM 94	C	C	. LEU LEU LEU A A 11 11	. 88.466 93.599 8.973 1.00
2.35	1	. . .		
ATOM 95	O	O	. LEU LEU LEU A A 11 11	. 87.495 94.305 9.190 1.00
2.01	1	. . .		
ATOM 96	N	N	. ASP ASP ASP A A 12 12	. 89.570 93.550 9.719 1.00
2.00	1	. . .		



ATOM 97	CA	CA	. ASP ASP ASP A A 12 12 .	89.660	94.324	10.941	1.00
2.23	1	. .					
ATOM 98	CB	CB	. ASP ASP ASP A A 12 12 .	90.539	93.554	11.968	1.00
2.00	1	. .					
ATOM 99	CG	CG	. ASP ASP ASP A A 12 12 .	92.021	93.641	11.717	1.00
4.92	1	. .					
ATOM 100	OD1	OD1	. ASP ASP ASP A A 12 12 .	92.513	94.354	10.769	1.00
2.00	1	. .					
ATOM 101	OD2	OD2	. ASP ASP ASP A A 12 12 .	92.768	92.960	12.507	1.00
2.65	1	. .					
ATOM 102	C	C	. ASP ASP ASP A A 12 12 .	90.216	95.731	10.623	1.00
2.20	1	. .					
ATOM 103	O	O	. ASP ASP ASP A A 12 12 .	90.406	96.074	9.414	1.00
2.04	1	. .					
ATOM 104	N	N	. SER SER SER A A 13 13 .	90.417	96.564	11.635	1.00
2.38	1	. .					
ATOM 105	CA	CA	. SER SER SER A A 13 13 .	90.767	97.947	11.380	1.00
2.00	1	. .					
ATOM 106	CB	CB	. SER SER SER A A 13 13 .	90.676	98.719	12.718	1.00
2.35	1	. .					
ATOM 107	OG	OG	. SER SER SER A A 13 13 .	91.588	98.145	13.673	1.00
2.00	1	. .					
ATOM 108	C	C	. SER SER SER A A 13 13 .	92.134	98.183	10.787	1.00
2.11	1	. .					
ATOM 109	O	O	. SER SER SER A A 13 13 .	92.431	99.299	10.446	1.00
2.76	1	. .					
ATOM 110	N	N	. ARG ARG ARG A A 14 14 .	93.000	97.170	10.702	1.00
2.00	1	. .					
ATOM 111	CA	CA	. ARG ARG ARG A A 14 14 .	94.249	97.277	10.021	1.00
2.57	1	. .					
ATOM 112	CB	CB	. ARG ARG ARG A A 14 14 .	95.347	96.489	10.746	1.00
3.59	1	. .					
ATOM 113	CG	CG	. ARG ARG ARG A A 14 14 .	96.187	97.407	11.624	1.00
4.71	1	. .					
ATOM 114	CD	CD	. ARG ARG ARG A A 14 14 .	97.320	96.698	12.362	1.00
6.68	1	. .					
ATOM 115	NE	NE	. ARG ARG ARG A A 14 14 .	96.892	95.613	13.234	1.00
10.34	1	. .					
ATOM 116	CZ	CZ	. ARG ARG ARG A A 14 14 .	97.106	95.568	14.538	1.00
6.35	1	. .					
ATOM 117	NH1	NH1	. ARG ARG ARG A A 14 14 .	97.742	96.595	15.180	1.00
4.01	1	. .					
ATOM 118	NH2	NH2	. ARG ARG ARG A A 14 14 .	96.660	94.522	15.211	1.00
9.50	1	. .					
ATOM 119	C	C	. ARG ARG ARG A A 14 14 .	94.143	96.603	8.630	1.00
2.11	1	. .					
ATOM 120	O	O	. ARG ARG ARG A A 14 14 .	95.167	96.518	7.959	1.00
2.90	1	. .					
ATOM 121	N	N	. GLY GLY GLY A A 15 15 .	92.984	96.110	8.201	1.00
2.09	1	. .					
ATOM 122	CA	CA	. GLY GLY GLY A A 15 15 .	92.849	95.450	6.908	1.00
2.24	1	. .					
ATOM 123	C	C	. GLY GLY GLY A A 15 15 .	93.227	94.004	6.889	1.00
2.97	1	. .					







ATOM 205	N	N	. ALA ALA ALA A A 26 26 .	65.121	82.013	17.496	1.00
10.68	1	. .					
ATOM 206	CA	CA	. ALA ALA ALA A A 26 26 .	63.776	82.404	17.137	1.00
12.12	1	. .					
ATOM 207	CB	CB	. ALA ALA ALA A A 26 26 .	62.755	81.646	17.978	1.00
11.95	1	. .					
ATOM 208	C	C	. ALA ALA ALA A A 26 26 .	63.614	83.913	17.291	1.00
12.84	1	. .					
ATOM 209	O	O	. ALA ALA ALA A A 26 26 .	62.681	84.447	16.737	1.00
14.67	1	. .					
ATOM 210	N	N	. LYS LYS LYS A A 27 27 .	64.502	84.589	18.032	1.00
14.04	1	. .					
ATOM 211	CA	CA	. LYS LYS LYS A A 27 27 .	64.500	86.056	18.133	1.00
15.02	1	. .					
ATOM 212	CB	CB	. LYS LYS LYS A A 27 27 .	65.230	86.506	19.400	1.00
13.60	1	. .					
ATOM 213	CG	CG	. LYS LYS LYS A A 27 27 .	64.614	86.015	20.705	1.00
18.33	1	. .					
ATOM 214	CD	CD	. LYS LYS LYS A A 27 27 .	63.475	86.894	21.096	1.00
22.41	1	. .					
ATOM 215	CE	CE	. LYS LYS LYS A A 27 27 .	62.819	86.462	22.363	1.00
22.76	1	. .					
ATOM 216	NZ	NZ	. LYS LYS LYS A A 27 27 .	61.472	87.053	22.306	1.00
21.55	1	. .					
ATOM 217	C	C	. LYS LYS LYS A A 27 27 .	65.133	86.811	16.932	1.00
15.31	1	. .					
ATOM 218	O	O	. LYS LYS LYS A A 27 27 .	64.944	88.032	16.744	1.00
16.86	1	. .					
ATOM 219	N	N	. GLY GLY GLY A A 28 28 .	65.906	86.110	16.119	1.00
15.00	1	. .					
ATOM 220	CA	CA	. GLY GLY GLY A A 28 28 .	66.501	86.792	15.001	1.00
14.10	1	. .					
ATOM 221	C	C	. GLY GLY GLY A A 28 28 .	67.968	86.484	14.939	1.00
11.99	1	. .					
ATOM 222	O	O	. GLY GLY GLY A A 28 28 .	68.425	85.428	15.445	1.00
12.76	1	. .					
ATOM 223	N	N	. LEU LEU LEU A A 29 29 .	68.718	87.455	14.403	1.00
9.99	1	. .					
ATOM 224	CA	CA	. LEU LEU LEU A A 29 29 .	70.114	87.318	14.015	1.00
9.43	1	. .					
ATOM 225	CB	CB	. LEU LEU LEU A A 29 29 .	70.341	87.908	12.609	1.00
11.15	1	. .					
ATOM 226	CG	CG	. LEU LEU LEU A A 29 29 .	71.678	87.508	11.937	1.00
14.35	1	. .					
ATOM 227	CD1	CD1	. LEU LEU LEU A A 29 29 .	71.730	87.759	10.413	1.00
16.33	1	. .					
ATOM 228	CD2	CD2	. LEU LEU LEU A A 29 29 .	72.845	88.233	12.570	1.00
15.10	1	. .					
ATOM 229	C	C	. LEU LEU LEU A A 29 29 .	70.970	88.103	14.984	1.00
7.11	1	. .					
ATOM 230	O	O	. LEU LEU LEU A A 29 29 .	70.667	89.288	15.229	1.00
9.38	1	. .					
ATOM 231	N	N	. PHE PHE PHE A A 30 30 .	72.009	87.461	15.537	1.00
4.56	1	. .					









ATOM 313	CD1	CD1	. ILE ILE ILE A A 42 42 .	106.672	83.709	26.333	1.00
10.15	1 . .						
ATOM 314	CG2	CG2	. ILE ILE ILE A A 42 42 .	105.933	85.113	23.734	1.00
5.48	1 . .						
ATOM 315	C	C	. ILE ILE ILE A A 42 42 .	102.488	83.669	24.917	1.00
3.19	1 . .						
ATOM 316	O	O	. ILE ILE ILE A A 42 42 .	102.237	82.549	24.412	1.00
4.44	1 . .						
ATOM 317	N	N	. TYR TYR TYR A A 43 43 .	101.883	84.061	26.036	1.00
4.73	1 . .						
ATOM 318	CA	CA	. TYR TYR TYR A A 43 43 .	100.908	83.186	26.708	1.00
3.11	1 . .						
ATOM 319	CB	CB	. TYR TYR TYR A A 43 43 .	101.073	83.332	28.260	1.00
5.07	1 . .						
ATOM 320	CG	CG	. TYR TYR TYR A A 43 43 .	102.459	82.993	28.713	1.00
6.49	1 . .						
ATOM 321	CD1	CD1	. TYR TYR TYR A A 43 43 .	103.355	83.966	29.121	1.00
9.73	1 . .						
ATOM 322	CE1	CE1	. TYR TYR TYR A A 43 43 .	104.641	83.625	29.514	1.00
9.08	1 . .						
ATOM 323	CZ	CZ	. TYR TYR TYR A A 43 43 .	105.035	82.278	29.493	1.00
11.93	1 . .						
ATOM 324	OH	OH	. TYR TYR TYR A A 43 43 .	106.297	81.869	29.910	1.00
10.68	1 . .						
ATOM 325	CE2	CE2	. TYR TYR TYR A A 43 43 .	104.133	81.300	29.086	1.00
10.86	1 . .						
ATOM 326	CD2	CD2	. TYR TYR TYR A A 43 43 .	102.888	81.662	28.691	1.00
6.35	1 . .						
ATOM 327	C	C	. TYR TYR TYR A A 43 43 .	99.460	83.349	26.318	1.00
3.02	1 . .						
ATOM 328	O	O	. TYR TYR TYR A A 43 43 .	98.620	82.662	26.894	1.00
4.67	1 . .						
ATOM 329	N	N	. GLU GLU GLU A A 44 44 .	99.154	84.200	25.325	1.00
3.86	1 . .						
ATOM 330	CA	CA	. GLU GLU GLU A A 44 44 .	97.763	84.314	24.877	1.00
3.02	1 . .						
ATOM 331	CB	CB	. GLU GLU GLU A A 44 44 .	97.611	85.447	23.825	1.00
3.07	1 . .						
ATOM 332	CG	CG	. GLU GLU GLU A A 44 44 .	98.048	86.801	24.424	1.00
3.59	1 . .						
ATOM 333	CD	CD	. GLU GLU GLU A A 44 44 .	97.667	87.983	23.563	1.00
4.32	1 . .						
ATOM 334	OE1	OE1	. GLU GLU GLU A A 44 44 .	96.806	87.827	22.657	1.00
2.79	1 . .						
ATOM 335	OE2	OE2	. GLU GLU GLU A A 44 44 .	98.152	89.081	23.835	1.00
2.57	1 . .						
ATOM 336	C	C	. GLU GLU GLU A A 44 44 .	97.265	83.026	24.199	1.00
2.46	1 . .						
ATOM 337	O	O	. GLU GLU GLU A A 44 44 .	98.041	82.257	23.646	1.00
3.60	1 . .						
ATOM 338	N	N	. ALA ALA ALA A A 45 45 .	95.964	82.781	24.324	1.00
3.17	1 . .						
ATOM 339	CA	CA	. ALA ALA ALA A A 45 45 .	95.300	81.662	23.625	1.00
2.01	1 . .						



ATOM 367	O	O	. LEU LEU LEU A A 48 48 .	93.328	81.827	12.768	1.00
2.85	1	. .					
ATOM 368	N	N	. ARG ARG ARG A A 49 49 .	95.500	81.284	12.349	1.00
2.84	1	. .					
ATOM 369	CA	CA	. ARG ARG ARG A A 49 49 .	95.595	81.866	10.985	1.00
4.27	1	. .					
ATOM 370	CB	CB	. ARG ARG ARG A A 49 49 .	96.718	82.935	10.915	1.00
4.64	1	. .					
ATOM 371	CG	CG	. ARG ARG ARG A A 49 49 .	96.498	84.126	11.905	1.00
7.49	1	. .					
ATOM 372	CD	CD	. ARG ARG ARG A A 49 49 .	96.077	85.340	11.234	1.00
10.51	1	. .					
ATOM 373	NE	NE	. ARG ARG ARG A A 49 49 .	95.876	86.417	12.185	1.00
6.19	1	. .					
ATOM 374	CZ	CZ	. ARG ARG ARG A A 49 49 .	94.964	87.334	11.926	1.00
5.24	1	. .					
ATOM 375	NH1	NH1	. ARG ARG ARG A A 49 49 .	94.280	87.269	10.806	1.00
5.54	1	. .					
ATOM 376	NH2	NH2	. ARG ARG ARG A A 49 49 .	94.710	88.302	12.747	1.00
5.51	1	. .					
ATOM 377	C	C	. ARG ARG ARG A A 49 49 .	95.837	80.742	9.968	1.00
3.92	1	. .					
ATOM 378	O	O	. ARG ARG ARG A A 49 49 .	96.402	79.720	10.345	1.00
5.43	1	. .					
ATOM 379	N	N	. ASP ASP ASP A A 50 50 .	95.498	80.967	8.694	1.00
3.36	1	. .					
ATOM 380	CA	CA	. ASP ASP ASP A A 50 50 .	95.598	79.917	7.715	1.00
4.52	1	. .					
ATOM 381	CB	CB	. ASP ASP ASP A A 50 50 .	94.773	80.197	6.478	1.00
2.59	1	. .					
ATOM 382	CG	CG	. ASP ASP ASP A A 50 50 .	93.310	80.386	6.793	1.00
2.44	1	. .					
ATOM 383	OD1	OD1	. ASP ASP ASP A A 50 50 .	92.879	79.921	7.869	1.00
2.29	1	. .					
ATOM 384	OD2	OD2	. ASP ASP ASP A A 50 50 .	92.606	81.070	6.023	1.00
4.13	1	. .					
ATOM 385	C	C	. ASP ASP ASP A A 50 50 .	97.014	79.615	7.313	1.00
5.30	1	. .					
ATOM 386	O	O	. ASP ASP ASP A A 50 50 .	97.254	78.460	6.984	1.00
5.56	1	. .					
ATOM 387	N	N	. GLY GLY GLY A A 51 51 .	97.882	80.645	7.233	1.00
7.86	1	. .					
ATOM 388	CA	CA	. GLY GLY GLY A A 51 51 .	99.246	80.494	6.727	1.00
7.92	1	. .					
ATOM 389	C	C	. GLY GLY GLY A A 51 51 .	99.391	80.256	5.210	1.00
9.04	1	. .					
ATOM 390	O	O	. GLY GLY GLY A A 51 51 .	100.422	79.743	4.710	1.00
12.69	1	. .					
ATOM 391	N	N	. ASP ASP ASP A A 52 52 .	98.355	80.579	4.452	1.00
8.48	1	. .					
ATOM 392	CA	CA	. ASP ASP ASP A A 52 52 .	98.451	80.498	2.995	1.00
10.38	1	. .					
ATOM 393	CB	CB	. ASP ASP ASP A A 52 52 .	97.048	80.253	2.408	1.00
10.33	1	. .					

ATOM 394	CG	CG	. ASP ASP ASP A A 52 52 .	97.040	80.252	0.890	1.00
12.20	1	. .					
ATOM 395	OD1	OD1	. ASP ASP ASP A A 52 52 .	95.997	79.927	0.343	1.00
13.71	1	. .					
ATOM 396	OD2	OD2	. ASP ASP ASP A A 52 52 .	98.049	80.570	0.253	1.00
16.84	1	. .					
ATOM 397	C	C	. ASP ASP ASP A A 52 52 .	99.065	81.802	2.471	1.00
13.15	1	. .					
ATOM 398	O	O	. ASP ASP ASP A A 52 52 .	98.413	82.841	2.432	1.00
10.86	1	. .					
ATOM 399	N	N	. LYS LYS LYS A A 53 53 .	100.345	81.744	2.106	1.00
14.79	1	. .					
ATOM 400	CA	CA	. LYS LYS LYS A A 53 53 .	101.063	82.891	1.576	1.00
19.54	1	. .					
ATOM 401	CB	CB	. LYS LYS LYS A A 53 53 .	102.551	82.536	1.441	1.00
20.32	1	. .					
ATOM 402	CG	CG	. LYS LYS LYS A A 53 53 .	103.200	82.055	2.756	1.00
22.71	1	. .					
ATOM 403	CD	CD	. LYS LYS LYS A A 53 53 .	103.286	83.190	3.771	1.00
27.89	1	. .					
ATOM 404	CE	CE	. LYS LYS LYS A A 53 53 .	104.534	84.012	3.532	1.00
31.24	1	. .					
ATOM 405	NZ	NZ	. LYS LYS LYS A A 53 53 .	105.763	83.310	4.038	1.00
31.61	1	. .					
ATOM 406	C	C	. LYS LYS LYS A A 53 53 .	100.487	83.484	0.279	1.00
19.52	1	. .					
ATOM 407	O	O	. LYS LYS LYS A A 53 53 .	100.842	84.600	-0.111	1.00
21.53	1	. .					
ATOM 408	N	N	. GLN GLN GLN A A 54 54 .	99.599	82.773	-0.405	1.00
20.01	1	. .					
ATOM 409	CA	CA	. GLN GLN GLN A A 54 54 .	98.971	83.357	-1.604	1.00
20.60	1	. .					
ATOM 410	CB	CB	. GLN GLN GLN A A 54 54 .	98.932	82.358	-2.741	1.00
21.18	1	. .					
ATOM 411	CG	CG	. GLN GLN GLN A A 54 54 .	100.337	82.027	-3.260	1.00
25.65	1	. .					
ATOM 412	CD	CD	. GLN GLN GLN A A 54 54 .	101.063	83.281	-3.813	1.00
29.89	1	. .					
ATOM 413	OE1	OE1	. GLN GLN GLN A A 54 54 .	100.687	83.822	-4.865	1.00
31.98	1	. .					
ATOM 414	NE2	NE2	. GLN GLN GLN A A 54 54 .	102.095	83.746	-3.091	1.00
29.06	1	. .					
ATOM 415	C	C	. GLN GLN GLN A A 54 54 .	97.612	83.997	-1.327	1.00
19.37	1	. .					
ATOM 416	O	O	. GLN GLN GLN A A 54 54 .	96.787	84.228	-2.239	1.00
20.57	1	. .					
ATOM 417	N	N	. ARG ARG ARG A A 55 55 .	97.410	84.346	-0.054	1.00
16.88	1	. .					
ATOM 418	CA	CA	. ARG ARG ARG A A 55 55 .	96.138	84.887	0.373	1.00
13.18	1	. .					
ATOM 419	CB	CB	. ARG ARG ARG A A 55 55 .	95.195	83.717	0.591	1.00
13.74	1	. .					
ATOM 420	CG	CG	. ARG ARG ARG A A 55 55 .	93.820	84.143	0.765	1.00
11.15	1	. .					



ATOM 448	N	N	. GLY GLY GLY A A 58 58 .	99.293	85.227	4.254	1.00
10.18	1	. .					
ATOM 449	CA	CA	. GLY GLY GLY A A 58 58 .	99.227	84.211	5.334	1.00
8.78	1	. .					
ATOM 450	C	C	. GLY GLY GLY A A 58 58 .	98.220	84.421	6.440	1.00
6.65	1	. .					
ATOM 451	O	O	. GLY GLY GLY A A 58 58 .	98.110	83.577	7.370	1.00
8.67	1	. .					
ATOM 452	N	N	. LYS LYS LYS A A 59 59 .	97.475	85.533	6.367	1.00
4.43	1	. .					
ATOM 453	CA	CA	. LYS LYS LYS A A 59 59 .	96.634	85.984	7.494	1.00
4.55	1	. .					
ATOM 454	CB	CB	. LYS LYS LYS A A 59 59 .	96.798	87.506	7.689	1.00
4.64	1	. .					
ATOM 455	CG	CG	. LYS LYS LYS A A 59 59 .	98.198	87.787	8.075	1.00
12.05	1	. .					
ATOM 456	CD	CD	. LYS LYS LYS A A 59 59 .	98.397	89.092	8.870	1.00
15.40	1	. .					
ATOM 457	CE	CE	. LYS LYS LYS A A 59 59 .	99.891	89.338	9.252	1.00
15.50	1	. .					
ATOM 458	NZ	NZ	. LYS LYS LYS A A 59 59 .	100.126	90.763	9.730	1.00
18.45	1	. .					
ATOM 459	C	C	. LYS LYS LYS A A 59 59 .	95.184	85.598	7.423	1.00
2.48	1	. .					
ATOM 460	O	O	. LYS LYS LYS A A 59 59 .	94.358	86.088	8.210	1.00
2.00	1	. .					
ATOM 461	N	N	. GLY GLY GLY A A 60 60 .	94.788	84.745	6.472	1.00
2.41	1	. .					
ATOM 462	CA	CA	. GLY GLY GLY A A 60 60 .	93.387	84.380	6.372	1.00
2.37	1	. .					
ATOM 463	C	C	. GLY GLY GLY A A 60 60 .	92.897	83.650	7.623	1.00
2.00	1	. .					
ATOM 464	O	O	. GLY GLY GLY A A 60 60 .	93.687	83.092	8.391	1.00
2.27	1	. .					
ATOM 465	N	N	. VAL VAL VAL A A 61 61 .	91.584	83.594	7.802	1.00
2.70	1	. .					
ATOM 466	CA	CA	. VAL VAL VAL A A 61 61 .	91.040	82.862	8.932	1.00
2.86	1	. .					
ATOM 467	CB	CB	. VAL VAL VAL A A 61 61 .	90.568	83.774	10.114	1.00
3.32	1	. .					
ATOM 468	CG1	CG1	. VAL VAL VAL A A 61 61 .	91.731	84.549	10.687	1.00
4.15	1	. .					
ATOM 469	CG2	CG2	. VAL VAL VAL A A 61 61 .	89.503	84.749	9.611	1.00
2.41	1	. .					
ATOM 470	C	C	. VAL VAL VAL A A 61 61 .	89.938	81.901	8.468	1.00
2.63	1	. .					
ATOM 471	O	O	. VAL VAL VAL A A 61 61 .	88.993	81.582	9.197	1.00
2.31	1	. .					
ATOM 472	N	N	. LEU LEU LEU A A 62 62 .	90.155	81.360	7.275	1.00
3.11	1	. .					
ATOM 473	CA	CA	. LEU LEU LEU A A 62 62 .	89.244	80.349	6.713	1.00
2.00	1	. .					
ATOM 474	CB	CB	. LEU LEU LEU A A 62 62 .	89.704	79.975	5.273	1.00
2.69	1	. .					



ATOM 502	CA	CA	. ASP ASP ASP A A 66 66 .	85.355	76.223	8.877	1.00
2.16	1 . .						
ATOM 503	CB	CB	. ASP ASP ASP A A 66 66 .	86.365	75.504	8.017	1.00
4.82	1 . .						
ATOM 504	CG	CG	. ASP ASP ASP A A 66 66 .	85.989	74.056	7.814	1.00
8.28	1 . .						
ATOM 505	OD1	OD1	. ASP ASP ASP A A 66 66 .	84.817	73.803	7.464	1.00
14.71	1 . .						
ATOM 506	OD2	OD2	. ASP ASP ASP A A 66 66 .	86.847	73.157	8.053	1.00
22.56	1 . .						
ATOM 507	C	C	. ASP ASP ASP A A 66 66 .	85.115	75.469	10.234	1.00
2.73	1 . .						
ATOM 508	O	O	. ASP ASP ASP A A 66 66 .	84.173	74.680	10.353	1.00
2.86	1 . .						
ATOM 509	N	N	. HIS HIS HIS A A 67 67 .	86.039	75.611	11.193	1.00
3.53	1 . .						
ATOM 510	CA	CA	. HIS HIS HIS A A 67 67 .	85.804	74.977	12.486	1.00
2.15	1 . .						
ATOM 511	CB	CB	. HIS HIS HIS A A 67 67 .	86.975	75.281	13.477	1.00
3.44	1 . .						
ATOM 512	CG	CG	. HIS HIS HIS A A 67 67 .	88.269	74.592	13.129	1.00
4.23	1 . .						
ATOM 513	ND1	ND1	. HIS HIS HIS A A 67 67 .	88.368	73.215	12.917	1.00
8.29	1 . .						
ATOM 514	CE1	CE1	. HIS HIS HIS A A 67 67 .	89.637	72.895	12.705	1.00
7.33	1 . .						
ATOM 515	NE2	NE2	. HIS HIS HIS A A 67 67 .	90.358	73.998	12.743	1.00
6.18	1 . .						
ATOM 516	CD2	CD2	. HIS HIS HIS A A 67 67 .	89.537	75.052	13.094	1.00
6.42	1 . .						
ATOM 517	C	C	. HIS HIS HIS A A 67 67 .	84.425	75.354	13.049	1.00
2.38	1 . .						
ATOM 518	O	O	. HIS HIS HIS A A 67 67 .	83.652	74.506	13.592	1.00
2.63	1 . .						
ATOM 519	N	N	. ILE ILE ILE A A 68 68 .	84.129	76.654	13.004	1.00
2.01	1 . .						
ATOM 520	CA	CA	. ILE ILE ILE A A 68 68 .	82.880	77.100	13.548	1.00
2.26	1 . .						
ATOM 521	CB	CB	. ILE ILE ILE A A 68 68 .	82.739	78.649	13.421	1.00
2.39	1 . .						
ATOM 522	CG1	CG1	. ILE ILE ILE A A 68 68 .	83.716	79.273	14.385	1.00
2.00	1 . .						
ATOM 523	CD1	CD1	. ILE ILE ILE A A 68 68 .	83.980	80.747	14.077	1.00
2.96	1 . .						
ATOM 524	CG2	CG2	. ILE ILE ILE A A 68 68 .	81.310	79.070	13.692	1.00
3.44	1 . .						
ATOM 525	C	C	. ILE ILE ILE A A 68 68 .	81.722	76.504	12.706	1.00
2.14	1 . .						
ATOM 526	O	O	. ILE ILE ILE A A 68 68 .	80.723	75.954	13.257	1.00
3.11	1 . .						
ATOM 527	N	N	. ASN ASN ASN A A 69 69 .	81.795	76.695	11.380	1.00
2.66	1 . .						
ATOM 528	CA	CA	. ASN ASN ASN A A 69 69 .	80.631	76.295	10.555	1.00
2.72	1 . .						







ATOM 583	CB	CB	. ILE ILE ILE A A 77 77	. 72.366	73.024	16.412	1.00
8.24	1	. .					
ATOM 584	CG1	CG1	. ILE ILE ILE A A 77 77	. 72.714	74.370	15.837	1.00
8.03	1	. .					
ATOM 585	CD1	CD1	. ILE ILE ILE A A 77 77	. 72.832	74.424	14.328	1.00
9.92	1	. .					
ATOM 586	CG2	CG2	. ILE ILE ILE A A 77 77	. 70.944	72.552	16.070	1.00
10.11	1	. .					
ATOM 587	C	C	. ILE ILE ILE A A 77 77	. 72.167	71.705	18.632	1.00
7.98	1	. .					
ATOM 588	O	O	. ILE ILE ILE A A 77 77	. 71.175	71.637	19.371	1.00
8.74	1	. .					
ATOM 589	N	N	. SER SER SER A A 78 78	. 73.023	70.689	18.512	1.00
7.92	1	. .					
ATOM 590	CA	CA	. SER SER SER A A 78 78	. 72.717	69.388	19.090	1.00
8.68	1	. .					
ATOM 591	CB	CB	. SER SER SER A A 78 78	. 73.886	68.412	18.874	1.00
7.83	1	. .					
ATOM 592	OG	OG	. SER SER SER A A 78 78	. 73.986	67.989	17.510	1.00
13.16	1	. .					
ATOM 593	C	C	. SER SER SER A A 78 78	. 72.418	69.498	20.578	1.00
8.67	1	. .					
ATOM 594	O	O	. SER SER SER A A 78 78	. 71.584	68.823	21.056	1.00
10.07	1	. .					
ATOM 595	N	N	. SER SER SER A A 79 79	. 73.152	70.326	21.314	1.00
7.55	1	. .					
ATOM 596	CA	CA	. SER SER SER A A 79 79	. 73.028	70.428	22.750	1.00
9.65	1	. .					
ATOM 597	CB	CB	. SER SER SER A A 79 79	. 74.025	71.467	23.199	1.00
10.12	1	. .					
ATOM 598	OG	OG	. SER SER SER A A 79 79	. 73.486	72.783	23.177	1.00
9.04	1	. .					
ATOM 599	C	C	. SER SER SER A A 79 79	. 71.641	70.832	23.222	1.00
9.46	1	. .					
ATOM 600	O	O	. SER SER SER A A 79 79	. 71.213	70.458	24.289	1.00
11.93	1	. .					
ATOM 601	N	N	. GLY GLY GLY A A 80 80	. 70.920	71.536	22.351	1.00
10.85	1	. .					
ATOM 602	CA	CA	. GLY GLY GLY A A 80 80	. 69.586	72.056	22.656	1.00
9.50	1	. .					
ATOM 603	C	C	. GLY GLY GLY A A 80 80	. 69.535	73.101	23.745	1.00
9.89	1	. .					
ATOM 604	O	O	. GLY GLY GLY A A 80 80	. 68.450	73.531	24.127	1.00
11.10	1	. .					
ATOM 605	N	N	. LEU LEU LEU A A 81 81	. 70.686	73.479	24.281	1.00
9.78	1	. .					
ATOM 606	CA	CA	. LEU LEU LEU A A 81 81	. 70.744	74.514	25.255	1.00
9.28	1	. .					
ATOM 607	CB	CB	. LEU LEU LEU A A 81 81	. 72.176	74.665	25.762	1.00
8.90	1	. .					
ATOM 608	CG	CG	. LEU LEU LEU A A 81 81	. 72.744	73.396	26.377	1.00
8.87	1	. .					
ATOM 609	CD1	CD1	. LEU LEU LEU A A 81 81	. 74.237	73.551	26.481	1.00
6.07	1	. .					

ATOM 610	CD2	CD2	. LEU LEU LEU A A	81	81	. 72.045	73.196	27.653	1.00
10.22	1	. .							
ATOM 611	C	C	. LEU LEU LEU A A	81	81	. 70.234	75.890	24.785	1.00
9.98	1	. .							
ATOM 612	O	O	. LEU LEU LEU A A	81	81	. 70.465	76.332	23.606	1.00
8.58	1	. .							
ATOM 613	N	N	. SER SER SER A A	82	82	. 69.550	76.573	25.700	1.00
8.70	1	. .							
ATOM 614	CA	CA	. SER SER SER A A	82	82	. 69.158	77.972	25.487	1.00
7.43	1	. .							
ATOM 615	CB	CB	. SER SER SER A A	82	82	. 68.217	78.490	26.582	1.00
9.63	1	. .							
ATOM 616	OG	OG	. SER SER SER A A	82	82	. 67.911	79.876	26.351	1.00
10.38	1	. .							
ATOM 617	C	C	. SER SER SER A A	82	82	. 70.407	78.855	25.405	1.00
6.80	1	. .							
ATOM 618	O	O	. SER SER SER A A	82	82	. 71.373	78.619	26.110	1.00
5.79	1	. .							
ATOM 619	N	N	. VAL VAL VAL A A	83	83	. 70.402	79.842	24.500	1.00
5.99	1	. .							
ATOM 620	CA	CA	. VAL VAL VAL A A	83	83	. 71.526	80.819	24.421	1.00
6.11	1	. .							
ATOM 621	CB	CB	. VAL VAL VAL A A	83	83	. 71.368	81.803	23.216	1.00
4.21	1	. .							
ATOM 622	CG1	CG1	. VAL VAL VAL A A	83	83	. 71.601	81.096	21.907	1.00
4.31	1	. .							
ATOM 623	CG2	CG2	. VAL VAL VAL A A	83	83	. 70.077	82.455	23.237	1.00
5.61	1	. .							
ATOM 624	C	C	. VAL VAL VAL A A	83	83	. 71.741	81.584	25.727	1.00
5.61	1	. .							
ATOM 625	O	O	. VAL VAL VAL A A	83	83	. 72.773	82.259	25.858	1.00
6.11	1	. .							
ATOM 626	N	N	. VAL VAL VAL A A	84	84	. 70.754	81.589	26.644	1.00
6.66	1	. .							
ATOM 627	CA	CA	. VAL VAL VAL A A	84	84	. 70.984	82.210	27.947	1.00
5.87	1	. .							
ATOM 628	CB	CB	. VAL VAL VAL A A	84	84	. 69.716	82.394	28.809	1.00
6.69	1	. .							
ATOM 629	CG1	CG1	. VAL VAL VAL A A	84	84	. 68.588	83.070	28.110	1.00
9.33	1	. .							
ATOM 630	CG2	CG2	. VAL VAL VAL A A	84	84	. 69.301	81.007	29.406	1.00
7.36	1	. .							
ATOM 631	C	C	. VAL VAL VAL A A	84	84	. 72.010	81.451	28.787	1.00
6.46	1	. .							
ATOM 632	O	O	. VAL VAL VAL A A	84	84	. 72.579	81.982	29.718	1.00
7.48	1	. .							
ATOM 633	N	N	. GLU GLU GLU A A	85	85	. 72.235	80.191	28.438	1.00
7.93	1	. .							
ATOM 634	CA	CA	. GLU GLU GLU A A	85	85	. 73.215	79.338	29.127	1.00
6.99	1	. .							
ATOM 635	CB	CB	. GLU GLU GLU A A	85	85	. 72.817	77.867	29.047	1.00
7.58	1	. .							
ATOM 636	CG	CG	. GLU GLU GLU A A	85	85	. 71.514	77.528	29.680	1.00
11.26	1	. .							

ATOM 637	CD	CD	. GLU GLU GLU A A 85 85 .	71.399	77.842	31.181	1.00
12.99	1 . .						
ATOM 638	OE1	OE1	. GLU GLU GLU A A 85 85 .	72.425	77.844	31.915	1.00
15.20	1 . .						
ATOM 639	OE2	OE2	. GLU GLU GLU A A 85 85 .	70.240	78.067	31.623	1.00
15.37	1 . .						
ATOM 640	C	C	. GLU GLU GLU A A 85 85 .	74.658	79.513	28.663	1.00
4.94	1 . .						
ATOM 641	O	O	. GLU GLU GLU A A 85 85 .	75.306	78.564	28.226	1.00
6.06	1 . .						
ATOM 642	N	N	. GLN GLN GLN A A 86 86 .	75.175	80.721	28.855	1.00
4.85	1 . .						
ATOM 643	CA	CA	. GLN GLN GLN A A 86 86 .	76.526	81.118	28.441	1.00
5.44	1 . .						
ATOM 644	CB	CB	. GLN GLN GLN A A 86 86 .	76.910	82.522	28.956	1.00
6.29	1 . .						
ATOM 645	CG	CG	. GLN GLN GLN A A 86 86 .	78.259	83.014	28.431	1.00
4.31	1 . .						
ATOM 646	CD	CD	. GLN GLN GLN A A 86 86 .	78.158	83.451	26.931	1.00
3.38	1 . .						
ATOM 647	OE1	OE1	. GLN GLN GLN A A 86 86 .	77.172	83.980	26.569	1.00
4.06	1 . .						
ATOM 648	NE2	NE2	. GLN GLN GLN A A 86 86 .	79.112	83.105	26.070	1.00
2.85	1 . .						
ATOM 649	C	C	. GLN GLN GLN A A 86 86 .	77.611	80.145	28.908	1.00
3.57	1 . .						
ATOM 650	O	O	. GLN GLN GLN A A 86 86 .	78.400	79.673	28.102	1.00
3.11	1 . .						
ATOM 651	N	N	. GLU GLU GLU A A 87 87 .	77.617	79.835	30.232	1.00
4.94	1 . .						
ATOM 652	CA	CA	. GLU GLU GLU A A 87 87 .	78.627	78.970	30.732	1.00
5.00	1 . .						
ATOM 653	CB	CB	. GLU GLU GLU A A 87 87 .	78.551	78.888	32.264	1.00
6.83	1 . .						
ATOM 654	CG	CG	. GLU GLU GLU A A 87 87 .	79.766	78.198	32.885	1.00
10.15	1 . .						
ATOM 655	CD	CD	. GLU GLU GLU A A 87 87 .	79.780	78.381	34.404	1.00
15.46	1 . .						
ATOM 656	OE1	OE1	. GLU GLU GLU A A 87 87 .	78.845	79.045	34.886	1.00
17.93	1 . .						
ATOM 657	OE2	OE2	. GLU GLU GLU A A 87 87 .	80.654	77.824	35.103	1.00
18.42	1 . .						
ATOM 658	C	C	. GLU GLU GLU A A 87 87 .	78.562	77.532	30.139	1.00
5.58	1 . .						
ATOM 659	O	O	. GLU GLU GLU A A 87 87 .	79.632	76.924	29.838	1.00
7.09	1 . .						
ATOM 660	N	N	. LYS LYS LYS A A 88 88 .	77.348	76.954	30.054	1.00
7.09	1 . .						
ATOM 661	CA	CA	. LYS LYS LYS A A 88 88 .	77.264	75.582	29.528	1.00
6.70	1 . .						
ATOM 662	CB	CB	. LYS LYS LYS A A 88 88 .	75.844	74.973	29.679	1.00
8.39	1 . .						
ATOM 663	CG	CG	. LYS LYS LYS A A 88 88 .	75.527	74.618	31.114	1.00
9.20	1 . .						

ATOM 664	CD	CD	. LYS LYS LYS A A 88 88	. 74.096	74.227	31.325	1.00
10.91	1	. .					
ATOM 665	CE	CE	. LYS LYS LYS A A 88 88	. 73.870	74.127	32.880	1.00
10.82	1	. .					
ATOM 666	NZ	NZ	. LYS LYS LYS A A 88 88	. 72.734	74.968	33.338	1.00
19.33	1	. .					
ATOM 667	C	C	. LYS LYS LYS A A 88 88	. 77.787	75.523	28.084	1.00
6.15	1	. .					
ATOM 668	O	O	. LYS LYS LYS A A 88 88	. 78.555	74.591	27.730	1.00
4.70	1	. .					
ATOM 669	N	N	. LEU LEU LEU A A 89 89	. 77.373	76.498	27.269	1.00
4.64	1	. .					
ATOM 670	CA	CA	. LEU LEU LEU A A 89 89	. 77.752	76.574	25.883	1.00
3.24	1	. .					
ATOM 671	CB	CB	. LEU LEU LEU A A 89 89	. 76.952	77.617	25.088	1.00
3.28	1	. .					
ATOM 672	CG	CG	. LEU LEU LEU A A 89 89	. 75.493	77.182	24.949	1.00
3.18	1	. .					
ATOM 673	CD1	CD1	. LEU LEU LEU A A 89 89	. 74.526	78.385	24.558	1.00
3.58	1	. .					
ATOM 674	CD2	CD2	. LEU LEU LEU A A 89 89	. 75.461	76.103	23.853	1.00
3.35	1	. .					
ATOM 675	C	C	. LEU LEU LEU A A 89 89	. 79.251	76.814	25.685	1.00
3.23	1	. .					
ATOM 676	O	O	. LEU LEU LEU A A 89 89	. 79.889	76.141	24.871	1.00
4.48	1	. .					
ATOM 677	N	N	. ASP ASP ASP A A 90 90	. 79.820	77.717	26.461	1.00
3.45	1	. .					
ATOM 678	CA	CA	. ASP ASP ASP A A 90 90	. 81.234	77.865	26.401	1.00
3.89	1	. .					
ATOM 679	CB	CB	. ASP ASP ASP A A 90 90	. 81.712	79.023	27.302	1.00
3.90	1	. .					
ATOM 680	CG	CG	. ASP ASP ASP A A 90 90	. 81.426	80.426	26.670	1.00
6.52	1	. .					
ATOM 681	OD1	OD1	. ASP ASP ASP A A 90 90	. 81.314	80.549	25.445	1.00
5.17	1	. .					
ATOM 682	OD2	OD2	. ASP ASP ASP A A 90 90	. 81.357	81.405	27.392	1.00
6.58	1	. .					
ATOM 683	C	C	. ASP ASP ASP A A 90 90	. 81.926	76.604	26.823	1.00
4.63	1	. .					
ATOM 684	O	O	. ASP ASP ASP A A 90 90	. 82.952	76.300	26.273	1.00
3.86	1	. .					
ATOM 685	N	N	. ASN ASN ASN A A 91 91	. 81.449	75.982	27.885	1.00
4.50	1	. .					
ATOM 686	CA	CA	. ASN ASN ASN A A 91 91	. 82.196	74.792	28.324	1.00
5.03	1	. .					
ATOM 687	CB	CB	. ASN ASN ASN A A 91 91	. 81.700	74.258	29.710	1.00
5.42	1	. .					
ATOM 688	CG	CG	. ASN ASN ASN A A 91 91	. 82.103	75.134	30.852	1.00
9.99	1	. .					
ATOM 689	OD1	OD1	. ASN ASN ASN A A 91 91	. 83.102	75.864	30.794	1.00
12.06	1	. .					
ATOM 690	ND2	ND2	. ASN ASN ASN A A 91 91	. 81.346	75.029	31.931	1.00
14.92	1	. .					

ATOM 691	C	C	. ASN ASN ASN A A 91 91 .	82.143	73.683	27.263	1.00
4.57	1	. .					
ATOM 692	O	O	. ASN ASN ASN A A 91 91 .	83.132	72.945	27.065	1.00
6.39	1	. .					
ATOM 693	N	N	. LEU LEU LEU A A 92 92 .	81.017	73.525	26.582	1.00
4.77	1	. .					
ATOM 694	CA	CA	. LEU LEU LEU A A 92 92 .	80.907	72.595	25.447	1.00
5.39	1	. .					
ATOM 695	CB	CB	. LEU LEU LEU A A 92 92 .	79.483	72.667	24.839	1.00
8.93	1	. .					
ATOM 696	CG	CG	. LEU LEU LEU A A 92 92 .	78.549	71.521	24.449	1.00
12.21	1	. .					
ATOM 697	CD1	CD1	. LEU LEU LEU A A 92 92 .	78.709	70.296	25.369	1.00
15.00	1	. .					
ATOM 698	CD2	CD2	. LEU LEU LEU A A 92 92 .	77.113	71.954	24.441	1.00
10.34	1	. .					
ATOM 699	C	C	. LEU LEU LEU A A 92 92 .	81.947	72.861	24.410	1.00
5.97	1	. .					
ATOM 700	O	O	. LEU LEU LEU A A 92 92 .	82.607	71.943	23.909	1.00
5.45	1	. .					
ATOM 701	N	N	. MET MET MET A A 93 93 .	82.167	74.140	24.080	1.00
5.48	1	. .					
ATOM 702	CA	CA	. MET MET MET A A 93 93 .	83.291	74.400	23.134	1.00
2.51	1	. .					
ATOM 703	CB	CB	. MET MET MET A A 93 93 .	83.259	75.868	22.633	1.00
5.17	1	. .					
ATOM 704	CG	CG	. MET MET MET A A 93 93 .	81.925	76.226	22.001	1.00
5.63	1	. .					
ATOM 705	SD	SD	. MET MET MET A A 93 93 .	81.864	77.840	21.092	1.00
3.29	1	. .					
ATOM 706	CE	CE	. MET MET MET A A 93 93 .	81.558	78.975	22.441	1.00
6.60	1	. .					
ATOM 707	C	C	. MET MET MET A A 93 93 .	84.646	74.159	23.743	1.00
3.87	1	. .					
ATOM 708	O	O	. MET MET MET A A 93 93 .	85.534	73.698	23.041	1.00
3.01	1	. .					
ATOM 709	N	N	. LEU LEU LEU A A 94 94 .	84.857	74.482	24.995	1.00
3.93	1	. .					
ATOM 710	CA	CA	. LEU LEU LEU A A 94 94 .	86.202	74.324	25.520	1.00
3.75	1	. .					
ATOM 711	CB	CB	. LEU LEU LEU A A 94 94 .	86.255	74.837	26.972	1.00
3.87	1	. .					
ATOM 712	CG	CG	. LEU LEU LEU A A 94 94 .	86.107	76.305	27.203	1.00
9.81	1	. .					
ATOM 713	CD1	CD1	. LEU LEU LEU A A 94 94 .	86.510	76.560	28.606	1.00
11.89	1	. .					
ATOM 714	CD2	CD2	. LEU LEU LEU A A 94 94 .	86.993	77.001	26.337	1.00
10.87	1	. .					
ATOM 715	C	C	. LEU LEU LEU A A 94 94 .	86.549	72.852	25.548	1.00
3.58	1	. .					
ATOM 716	O	O	. LEU LEU LEU A A 94 94 .	87.682	72.459	25.287	1.00
3.99	1	. .					
ATOM 717	N	N	. GLU GLU GLU A A 95 95 .	85.574	72.036	25.893	1.00
3.28	1	. .					

ATOM 718	CA	CA	. GLU GLU GLU A A 95 95 . 85.799 70.591 25.952 1.00
4.95	1 . .		
ATOM 719	CB	CB	. GLU GLU GLU A A 95 95 . 84.667 69.895 26.713 1.00
5.22	1 . .		
ATOM 720	CG	CG	. GLU GLU GLU A A 95 95 . 84.759 70.260 28.235 1.00
11.05	1 . .		
ATOM 721	CD	CD	. GLU GLU GLU A A 95 95 . 86.203 70.180 28.793 1.00
21.54	1 . .		
ATOM 722	OE1	OE1	. GLU GLU GLU A A 95 95 . 86.771 69.067 28.909 1.00
24.72	1 . .		
ATOM 723	OE2	OE2	. GLU GLU GLU A A 95 95 . 86.780 71.245 29.116 1.00
26.52	1 . .		
ATOM 724	C	C	. GLU GLU GLU A A 95 95 . 85.991 70.015 24.560 1.00
5.28	1 . .		
ATOM 725	O	O	. GLU GLU GLU A A 95 95 . 86.858 69.175 24.387 1.00
5.77	1 . .		
ATOM 726	N	N	. LEU LEU LEU A A 96 96 . 85.254 70.528 23.578 1.00
4.30	1 . .		
ATOM 727	CA	CA	. LEU LEU LEU A A 96 96 . 85.323 69.991 22.194 1.00
4.48	1 . .		
ATOM 728	CB	CB	. LEU LEU LEU A A 96 96 . 84.125 70.466 21.374 1.00
4.09	1 . .		
ATOM 729	CG	CG	. LEU LEU LEU A A 96 96 . 83.951 69.892 19.958 1.00
4.35	1 . .		
ATOM 730	CD1	CD1	. LEU LEU LEU A A 96 96 . 83.776 68.332 20.187 1.00
5.46	1 . .		
ATOM 731	CD2	CD2	. LEU LEU LEU A A 96 96 . 82.715 70.487 19.292 1.00
7.14	1 . .		
ATOM 732	C	C	. LEU LEU LEU A A 96 96 . 86.626 70.323 21.518 1.00
3.76	1 . .		
ATOM 733	O	O	. LEU LEU LEU A A 96 96 . 87.201 69.514 20.758 1.00
4.57	1 . .		
ATOM 734	N	N	. ASP ASP ASP A A 97 97 . 87.190 71.499 21.823 1.00
3.36	1 . .		
ATOM 735	CA	CA	. ASP ASP ASP A A 97 97 . 88.498 71.805 21.405 1.00
3.37	1 . .		
ATOM 736	CB	CB	. ASP ASP ASP A A 97 97 . 88.766 73.305 21.657 1.00
2.98	1 . .		
ATOM 737	CG	CG	. ASP ASP ASP A A 97 97 . 90.249 73.658 21.492 1.00
3.74	1 . .		
ATOM 738	OD1	OD1	. ASP ASP ASP A A 97 97 . 90.663 74.145 20.428 1.00
4.39	1 . .		
ATOM 739	OD2	OD2	. ASP ASP ASP A A 97 97 . 91.039 73.474 22.436 1.00
6.19	1 . .		
ATOM 740	C	C	. ASP ASP ASP A A 97 97 . 89.491 70.928 22.215 1.00
5.22	1 . .		
ATOM 741	O	O	. ASP ASP ASP A A 97 97 . 90.347 70.311 21.660 1.00
3.91	1 . .		
ATOM 742	N	N	. GLY GLY GLY A A 98 98 . 89.368 70.920 23.538 1.00
5.13	1 . .		
ATOM 743	CA	CA	. GLY GLY GLY A A 98 98 . 90.105 69.951 24.345 1.00
6.30	1 . .		
ATOM 744	C	C	. GLY GLY GLY A A 98 98 . 91.557 70.239 24.563 1.00
6.68	1 . .		













ATOM 880	N	N	. CYS CYS CYS A A 118 118 .	76.300	85.218	23.578	1.00
3.33	1	. .					
ATOM 881	CA	CA	. CYS CYS CYS A A 118 118 .	76.025	86.135	24.661	1.00
3.03	1	. .					
ATOM 882	CB	CB	. CYS CYS CYS A A 118 118 .	77.312	86.759	25.175	1.00
4.61	1	. .					
ATOM 883	SG	SG	. CYS CYS CYS A A 118 118 .	77.122	87.685	26.740	1.00
3.44	1	. .					
ATOM 884	C	C	. CYS CYS CYS A A 118 118 .	74.994	87.197	24.215	1.00
2.77	1	. .					
ATOM 885	O	O	. CYS CYS CYS A A 118 118 .	74.059	87.513	24.938	1.00
3.16	1	. .					
ATOM 886	N	N	. LYS LYS LYS A A 119 119 .	75.148	87.764	23.002	1.00
2.00	1	. .					
ATOM 887	CA	CA	. LYS LYS LYS A A 119 119 .	74.176	88.699	22.445	1.00
2.25	1	. .					
ATOM 888	CB	CB	. LYS LYS LYS A A 119 119 .	74.703	89.241	21.126	1.00
3.10	1	. .					
ATOM 889	CG	CG	. LYS LYS LYS A A 119 119 .	75.988	90.003	21.303	1.00
2.89	1	. .					
ATOM 890	CD	CD	. LYS LYS LYS A A 119 119 .	76.615	90.414	19.934	1.00
8.07	1	. .					
ATOM 891	CE	CE	. LYS LYS LYS A A 119 119 .	77.872	91.215	20.110	1.00
7.65	1	. .					
ATOM 892	NZ	NZ	. LYS LYS LYS A A 119 119 .	78.307	92.021	18.855	1.00
6.05	1	. .					
ATOM 893	C	C	. LYS LYS LYS A A 119 119 .	72.814	88.084	22.235	1.00
3.22	1	. .					
ATOM 894	O	O	. LYS LYS LYS A A 119 119 .	71.751	88.692	22.519	1.00
4.06	1	. .					
ATOM 895	N	N	. ALA ALA ALA A A 120 120 .	72.823	86.834	21.769	1.00
2.55	1	. .					
ATOM 896	CA	CA	. ALA ALA ALA A A 120 120 .	71.566	86.143	21.569	1.00
4.53	1	. .					
ATOM 897	CB	CB	. ALA ALA ALA A A 120 120 .	71.824	84.796	20.763	1.00
3.99	1	. .					
ATOM 898	C	C	. ALA ALA ALA A A 120 120 .	70.900	85.904	22.925	1.00
5.08	1	. .					
ATOM 899	O	O	. ALA ALA ALA A A 120 120 .	69.676	85.993	23.034	1.00
5.28	1	. .					
ATOM 900	N	N	. GLY GLY GLY A A 121 121 .	71.717	85.661	23.953	1.00
3.77	1	. .					
ATOM 901	CA	CA	. GLY GLY GLY A A 121 121 .	71.238	85.333	25.283	1.00
5.68	1	. .					
ATOM 902	C	C	. GLY GLY GLY A A 121 121 .	70.565	86.532	25.887	1.00
5.80	1	. .					
ATOM 903	O	O	. GLY GLY GLY A A 121 121 .	69.472	86.468	26.528	1.00
4.80	1	. .					
ATOM 904	N	N	. ALA ALA ALA A A 122 122 .	71.215	87.667	25.753	1.00
6.57	1	. .					
ATOM 905	CA	CA	. ALA ALA ALA A A 122 122 .	70.609	88.904	26.218	1.00
5.79	1	. .					
ATOM 906	CB	CB	. ALA ALA ALA A A 122 122 .	71.592	90.089	25.961	1.00
3.87	1	. .					

ATOM 907	C	C	. ALA ALA ALA A A	122 122	. 69.233	89.145	25.515	1.00
4.15	1	. .						
ATOM 908	O	O	. ALA ALA ALA A A	122 122	. 68.239	89.518	26.192	1.00
6.24	1	. .						
ATOM 909	N	N	. ALA ALA ALA A A	123 123	. 69.119	88.907	24.196	1.00
4.78	1	. .						
ATOM 910	CA	CA	. ALA ALA ALA A A	123 123	. 67.803	89.041	23.575	1.00
7.02	1	. .						
ATOM 911	CB	CB	. ALA ALA ALA A A	123 123	. 67.908	88.817	22.075	1.00
7.26	1	. .						
ATOM 912	C	C	. ALA ALA ALA A A	123 123	. 66.820	88.054	24.168	1.00
7.76	1	. .						
ATOM 913	O	O	. ALA ALA ALA A A	123 123	. 65.645	88.362	24.284	1.00
8.42	1	. .						
ATOM 914	N	N	. GLU GLU GLU A A	124 124	. 67.279	86.848	24.534	1.00
8.76	1	. .						
ATOM 915	CA	CA	. GLU GLU GLU A A	124 124	. 66.320	85.801	24.900	1.00
9.48	1	. .						
ATOM 916	CB	CB	. GLU GLU GLU A A	124 124	. 66.982	84.423	24.996	1.00
10.34	1	. .						
ATOM 917	CG	CG	. GLU GLU GLU A A	124 124	. 65.946	83.261	24.985	1.00
14.49	1	. .						
ATOM 918	CD	CD	. GLU GLU GLU A A	124 124	. 65.205	83.209	23.678	1.00
18.74	1	. .						
ATOM 919	OE1	OE1	. GLU GLU GLU A A	124 124	. 65.855	83.153	22.591	1.00
17.25	1	. .						
ATOM 920	OE2	OE2	. GLU GLU GLU A A	124 124	. 63.959	83.230	23.723	1.00
24.85	1	. .						
ATOM 921	C	C	. GLU GLU GLU A A	124 124	. 65.728	86.234	26.258	1.00
9.66	1	. .						
ATOM 922	O	O	. GLU GLU GLU A A	124 124	. 64.509	86.080	26.524	1.00
10.23	1	. .						
ATOM 923	N	N	. ARG ARG ARG A A	125 125	. 66.575	86.820	27.087	1.00
8.96	1	. .						
ATOM 924	CA	CA	. ARG ARG ARG A A	125 125	. 66.160	87.412	28.370	1.00
9.51	1	. .						
ATOM 925	CB	CB	. ARG ARG ARG A A	125 125	. 67.383	87.784	29.231	1.00
8.54	1	. .						
ATOM 926	CG	CG	. ARG ARG ARG A A	125 125	. 68.389	86.674	29.657	1.00
10.84	1	. .						
ATOM 927	CD	CD	. ARG ARG ARG A A	125 125	. 67.753	85.977	30.774	1.00
6.81	1	. .						
ATOM 928	NE	NE	. ARG ARG ARG A A	125 125	. 68.618	85.060	31.499	1.00
10.76	1	. .						
ATOM 929	CZ	CZ	. ARG ARG ARG A A	125 125	. 68.250	83.824	31.809	1.00
8.68	1	. .						
ATOM 930	NH1	NH1	. ARG ARG ARG A A	125 125	. 69.089	83.028	32.504	1.00
13.61	1	. .						
ATOM 931	NH2	NH2	. ARG ARG ARG A A	125 125	. 67.056	83.372	31.394	1.00
9.76	1	. .						
ATOM 932	C	C	. ARG ARG ARG A A	125 125	. 65.358	88.715	28.239	1.00
9.08	1	. .						
ATOM 933	O	O	. ARG ARG ARG A A	125 125	. 64.856	89.272	29.269	1.00
11.32	1	. .						

ATOM 934	N	N	. GLU GLU GLU A A 126 126 .	65.327	89.272	27.025	1.00
10.07	1	. .					
ATOM 935	CA	CA	. GLU GLU GLU A A 126 126 .	64.680	90.595	26.785	1.00
12.02	1	. .					
ATOM 936	CB	CB	. GLU GLU GLU A A 126 126 .	63.232	90.521	27.210	1.00
12.33	1	. .					
ATOM 937	CG	CG	. GLU GLU GLU A A 126 126 .	62.290	91.270	26.382	1.00
17.78	1	. .					
ATOM 938	CD	CD	. GLU GLU GLU A A 126 126 .	61.345	90.325	25.684	1.00
24.51	1	. .					
ATOM 939	OE1	OE1	. GLU GLU GLU A A 126 126 .	60.110	90.521	25.770	1.00
26.85	1	. .					
ATOM 940	OE2	OE2	. GLU GLU GLU A A 126 126 .	61.846	89.365	25.073	1.00
28.26	1	. .					
ATOM 941	C	C	. GLU GLU GLU A A 126 126 .	65.387	91.687	27.621	1.00
10.90	1	. .					
ATOM 942	O	O	. GLU GLU GLU A A 126 126 .	64.728	92.534	28.258	1.00
13.71	1	. .					
ATOM 943	N	N	. LEU LEU LEU A A 127 127 .	66.721	91.626	27.634	1.00
9.15	1	. .					
ATOM 944	CA	CA	. LEU LEU LEU A A 127 127 .	67.505	92.557	28.430	1.00
7.63	1	. .					
ATOM 945	CB	CB	. LEU LEU LEU A A 127 127 .	68.255	91.835	29.538	1.00
7.42	1	. .					
ATOM 946	CG	CG	. LEU LEU LEU A A 127 127 .	67.486	91.153	30.676	1.00
11.77	1	. .					
ATOM 947	CD1	CD1	. LEU LEU LEU A A 127 127 .	68.454	90.370	31.527	1.00
9.13	1	. .					
ATOM 948	CD2	CD2	. LEU LEU LEU A A 127 127 .	66.715	92.207	31.497	1.00
12.60	1	. .					
ATOM 949	C	C	. LEU LEU LEU A A 127 127 .	68.521	93.190	27.536	1.00
7.17	1	. .					
ATOM 950	O	O	. LEU LEU LEU A A 127 127 .	68.964	92.569	26.590	1.00
10.42	1	. .					
ATOM 951	N	N	. PRO PRO PRO A A 128 128 .	68.944	94.413	27.847	1.00
6.85	1	. .					
ATOM 952	CA	CA	. PRO PRO PRO A A 128 128 .	70.134	94.932	27.136	1.00
6.30	1	. .					
ATOM 953	CB	CB	. PRO PRO PRO A A 128 128 .	70.372	96.278	27.785	1.00
6.27	1	. .					
ATOM 954	CG	CG	. PRO PRO PRO A A 128 128 .	69.250	96.573	28.655	1.00
6.12	1	. .					
ATOM 955	CD	CD	. PRO PRO PRO A A 128 128 .	68.424	95.332	28.866	1.00
5.70	1	. .					
ATOM 956	C	C	. PRO PRO PRO A A 128 128 .	71.341	94.089	27.453	1.00
6.17	1	. .					
ATOM 957	O	O	. PRO PRO PRO A A 128 128 .	71.472	93.535	28.573	1.00
5.45	1	. .					
ATOM 958	N	N	. LEU LEU LEU A A 129 129 .	72.301	94.093	26.553	1.00
4.09	1	. .					
ATOM 959	CA	CA	. LEU LEU LEU A A 129 129 .	73.498	93.204	26.715	1.00
4.30	1	. .					
ATOM 960	CB	CB	. LEU LEU LEU A A 129 129 .	74.406	93.346	25.496	1.00
5.27	1	. .					



ATOM 961	CG	CG	. LEU LEU LEU A A 129 129 .	75.732	92.593	25.499	1.00
2.65	1	. .					
ATOM 962	CD1	CD1	. LEU LEU LEU A A 129 129 .	75.540	91.043	25.689	1.00
3.68	1	. .					
ATOM 963	CD2	CD2	. LEU LEU LEU A A 129 129 .	76.486	92.953	24.194	1.00
3.86	1	. .					
ATOM 964	C	C	. LEU LEU LEU A A 129 129 .	74.299	93.457	28.019	1.00
4.82	1	. .					
ATOM 965	O	O	. LEU LEU LEU A A 129 129 .	74.706	92.542	28.761	1.00
4.45	1	. .					
ATOM 966	N	N	. TYR TYR TYR A A 130 130 .	74.427	94.740	28.339	1.00
4.75	1	. .					
ATOM 967	CA	CA	. TYR TYR TYR A A 130 130 .	75.135	95.073	29.571	1.00
3.69	1	. .					
ATOM 968	CB	CB	. TYR TYR TYR A A 130 130 .	75.353	96.608	29.779	1.00
2.74	1	. .					
ATOM 969	CG	CG	. TYR TYR TYR A A 130 130 .	74.086	97.440	29.881	1.00
3.08	1	. .					
ATOM 970	CD1	CD1	. TYR TYR TYR A A 130 130 .	73.418	97.579	31.087	1.00
3.82	1	. .					
ATOM 971	CE1	CE1	. TYR TYR TYR A A 130 130 .	72.295	98.332	31.183	1.00
5.32	1	. .					
ATOM 972	CZ	CZ	. TYR TYR TYR A A 130 130 .	71.795	98.956	30.077	1.00
7.87	1	. .					
ATOM 973	OH	OH	. TYR TYR TYR A A 130 130 .	70.651	99.622	30.250	1.00
10.13	1	. .					
ATOM 974	CE2	CE2	. TYR TYR TYR A A 130 130 .	72.410	98.833	28.846	1.00
5.37	1	. .					
ATOM 975	CD2	CD2	. TYR TYR TYR A A 130 130 .	73.539	98.019	28.760	1.00
4.22	1	. .					
ATOM 976	C	C	. TYR TYR TYR A A 130 130 .	74.426	94.496	30.778	1.00
3.72	1	. .					
ATOM 977	O	O	. TYR TYR TYR A A 130 130 .	75.057	94.082	31.737	1.00
5.01	1	. .					
ATOM 978	N	N	. ARG ARG ARG A A 131 131 .	73.119	94.418	30.752	1.00
6.95	1	. .					
ATOM 979	CA	CA	. ARG ARG ARG A A 131 131 .	72.373	93.880	31.910	1.00
5.95	1	. .					
ATOM 980	CB	CB	. ARG ARG ARG A A 131 131 .	70.919	94.280	31.763	1.00
7.32	1	. .					
ATOM 981	CG	CG	. ARG ARG ARG A A 131 131 .	70.623	95.513	32.542	1.00
14.23	1	. .					
ATOM 982	CD	CD	. ARG ARG ARG A A 131 131 .	70.379	95.180	33.977	1.00
21.03	1	. .					
ATOM 983	NE	NE	. ARG ARG ARG A A 131 131 .	70.239	96.395	34.745	1.00
24.22	1	. .					
ATOM 984	CZ	CZ	. ARG ARG ARG A A 131 131 .	70.715	96.564	35.970	1.00
24.52	1	. .					
ATOM 985	NH1	NH1	. ARG ARG ARG A A 131 131 .	71.392	95.596	36.583	1.00
20.74	1	. .					
ATOM 986	NH2	NH2	. ARG ARG ARG A A 131 131 .	70.535	97.728	36.571	1.00
25.59	1	. .					
ATOM 987	C	C	. ARG ARG ARG A A 131 131 .	72.490	92.346	31.990	1.00
6.60	1	. .					

ATOM 988	O	O	. ARG ARG ARG A A 131 131 .	72.605	91.746	33.072	1.00
6.95	1	. .					
ATOM 989	N	N	. HIS HIS HIS A A 132 132 .	72.429	91.712	30.816	1.00
5.60	1	. .					
ATOM 990	CA	CA	. HIS HIS HIS A A 132 132 .	72.613	90.261	30.750	1.00
4.87	1	. .					
ATOM 991	CB	CB	. HIS HIS HIS A A 132 132 .	72.401	89.787	29.305	1.00
4.91	1	. .					
ATOM 992	CG	CG	. HIS HIS HIS A A 132 132 .	72.647	88.326	29.073	1.00
6.95	1	. .					
ATOM 993	ND1	ND1	. HIS HIS HIS A A 132 132 .	72.070	87.350	29.857	1.00
7.63	1	. .					
ATOM 994	CE1	CE1	. HIS HIS HIS A A 132 132 .	72.444	86.157	29.427	1.00
7.80	1	. .					
ATOM 995	NE2	NE2	. HIS HIS HIS A A 132 132 .	73.274	86.317	28.410	1.00
6.60	1	. .					
ATOM 996	CD2	CD2	. HIS HIS HIS A A 132 132 .	73.435	87.670	28.181	1.00
4.55	1	. .					
ATOM 997	C	C	. HIS HIS HIS A A 132 132 .	73.990	89.856	31.288	1.00
3.19	1	. .					
ATOM 998	O	O	. HIS HIS HIS A A 132 132 .	74.116	88.944	32.099	1.00
4.90	1	. .					
ATOM 999	N	N	. ILE ILE ILE A A 133 133 .	75.027	90.572	30.839	1.00
3.85	1	. .					
ATOM 1000	CA	CA	. ILE ILE ILE A A 133 133 .	76.344	90.391	31.351	1.00
2.89	1	. .					
ATOM 1001	CB	CB	. ILE ILE ILE A A 133 133 .	77.377	91.302	30.633	1.00
3.80	1	. .					
ATOM 1002	CG1	CG1	. ILE ILE ILE A A 133 133 .	77.523	90.750	29.232	1.00
3.21	1	. .					
ATOM 1003	CD1	CD1	. ILE ILE ILE A A 133 133 .	78.290	91.606	28.315	1.00
3.08	1	. .					
ATOM 1004	CG2	CG2	. ILE ILE ILE A A 133 133 .	78.755	91.305	31.371	1.00
2.80	1	. .					
ATOM 1005	C	C	. ILE ILE ILE A A 133 133 .	76.431	90.551	32.871	1.00
3.51	1	. .					
ATOM 1006	O	O	. ILE ILE ILE A A 133 133 .	77.090	89.668	33.536	1.00
3.52	1	. .					
ATOM 1007	N	N	. ALA ALA ALA A A 134 134 .	75.791	91.638	33.358	1.00
5.13	1	. .					
ATOM 1008	CA	CA	. ALA ALA ALA A A 134 134 .	75.689	91.879	34.780	1.00
5.45	1	. .					
ATOM 1009	CB	CB	. ALA ALA ALA A A 134 134 .	74.768	93.015	35.019	1.00
6.41	1	. .					
ATOM 1010	C	C	. ALA ALA ALA A A 134 134 .	75.203	90.629	35.487	1.00
5.59	1	. .					
ATOM 1011	O	O	. ALA ALA ALA A A 134 134 .	75.821	90.199	36.472	1.00
5.88	1	. .					
ATOM 1012	N	N	. GLN GLN GLN A A 135 135 .	74.103	90.042	34.976	1.00
6.16	1	. .					
ATOM 1013	CA	CA	. GLN GLN GLN A A 135 135 .	73.550	88.812	35.625	1.00
7.03	1	. .					
ATOM 1014	CB	CB	. GLN GLN GLN A A 135 135 .	72.177	88.497	35.015	1.00
7.98	1	. .					

ATOM 1015	CG	CG	. GLN GLN GLN A A 135 135 .	71.065	89.604	35.395	1.00
7.98	1 . .						
ATOM 1016	CD	CD	. GLN GLN GLN A A 135 135 .	69.643	89.323	34.849	1.00
14.73	1 . .						
ATOM 1017	OE1	OE1	. GLN GLN GLN A A 135 135 .	68.684	90.021	35.230	1.00
20.23	1 . .						
ATOM 1018	NE2	NE2	. GLN GLN GLN A A 135 135 .	69.485	88.276	34.006	1.00
14.01	1 . .						
ATOM 1019	C	C	. GLN GLN GLN A A 135 135 .	74.536	87.623	35.570	1.00
8.18	1 . .						
ATOM 1020	O	O	. GLN GLN GLN A A 135 135 .	74.702	86.874	36.555	1.00
9.63	1 . .						
ATOM 1021	N	N	. LEU LEU LEU A A 136 136 .	75.189	87.437	34.430	1.00
7.94	1 . .						
ATOM 1022	CA	CA	. LEU LEU LEU A A 136 136 .	76.194	86.372	34.310	1.00
6.09	1 . .						
ATOM 1023	CB	CB	. LEU LEU LEU A A 136 136 .	76.834	86.392	32.903	1.00
5.75	1 . .						
ATOM 1024	CG	CG	. LEU LEU LEU A A 136 136 .	75.879	85.925	31.781	1.00
5.77	1 . .						
ATOM 1025	CD1	CD1	. LEU LEU LEU A A 136 136 .	76.584	85.967	30.416	1.00
4.29	1 . .						
ATOM 1026	CD2	CD2	. LEU LEU LEU A A 136 136 .	75.229	84.512	32.005	1.00
7.60	1 . .						
ATOM 1027	C	C	. LEU LEU LEU A A 136 136 .	77.310	86.504	35.352	1.00
7.50	1 . .						
ATOM 1028	O	O	. LEU LEU LEU A A 136 136 .	77.816	85.537	35.872	1.00
8.81	1 . .						
ATOM 1029	N	N	. ALA ALA ALA A A 137 137 .	77.653	87.748	35.663	1.00
7.76	1 . .						
ATOM 1030	CA	CA	. ALA ALA ALA A A 137 137 .	78.759	88.028	36.544	1.00
8.90	1 . .						
ATOM 1031	CB	CB	. ALA ALA ALA A A 137 137 .	79.566	89.247	36.008	1.00
6.50	1 . .						
ATOM 1032	C	C	. ALA ALA ALA A A 137 137 .	78.329	88.202	37.990	1.00
9.97	1 . .						
ATOM 1033	O	O	. ALA ALA ALA A A 137 137 .	79.174	88.294	38.871	1.00
12.06	1 . .						
ATOM 1034	N	N	. GLY GLY GLY A A 138 138 .	77.014	88.138	38.214	1.00
10.95	1 . .						
ATOM 1035	CA	CA	. GLY GLY GLY A A 138 138 .	76.415	88.412	39.530	1.00
13.16	1 . .						
ATOM 1036	C	C	. GLY GLY GLY A A 138 138 .	76.439	89.840	40.059	1.00
13.85	1 . .						
ATOM 1037	O	O	. GLY GLY GLY A A 138 138 .	76.453	90.061	41.279	1.00
12.59	1 . .						
ATOM 1038	N	N	. ASN ASN ASN A A 139 139 .	76.397	90.831	39.152	1.00
14.52	1 . .						
ATOM 1039	CA	CA	. ASN ASN ASN A A 139 139 .	76.288	92.235	39.563	1.00
14.78	1 . .						
ATOM 1040	CB	CB	. ASN ASN ASN A A 139 139 .	77.293	93.095	38.779	1.00
15.58	1 . .						
ATOM 1041	CG	CG	. ASN ASN ASN A A 139 139 .	78.711	92.534	38.829	1.00
15.71	1 . .						

ATOM 1042	OD1	OD1	. ASN ASN ASN A A 139 139 .	79.138	91.937	39.841	1.00
17.19	1 . .						
ATOM 1043	ND2	ND2	. ASN ASN ASN A A 139 139 .	79.442	92.692	37.719	1.00
7.60	1 . .						
ATOM 1044	C	C	. ASN ASN ASN A A 139 139 .	74.859	92.793	39.434	1.00
15.99	1 . .						
ATOM 1045	O	O	. ASN ASN ASN A A 139 139 .	74.031	92.252	38.700	1.00
15.74	1 . .						
ATOM 1046	N	N	. SER SER SER A A 140 140 .	74.554	93.866	40.168	1.00
17.28	1 . .						
ATOM 1047	CA	CA	. SER SER SER A A 140 140 .	73.257	94.576	40.042	1.00
18.96	1 . .						
ATOM 1048	CB	CB	. SER SER SER A A 140 140 .	72.377	94.335	41.266	1.00
19.12	1 . .						
ATOM 1049	OG	OG	. SER SER SER A A 140 140 .	73.030	93.513	42.222	1.00
24.58	1 . .						
ATOM 1050	C	C	. SER SER SER A A 140 140 .	73.376	96.076	39.800	1.00
19.00	1 . .						
ATOM 1051	O	O	. SER SER SER A A 140 140 .	72.524	96.671	39.130	1.00
19.80	1 . .						
ATOM 1052	N	N	. ASP ASP ASP A A 141 141 .	74.468	96.670	40.271	1.00
18.26	1 . .						
ATOM 1053	CA	CA	. ASP ASP ASP A A 141 141 .	74.576	98.111	40.359	1.00
18.90	1 . .						
ATOM 1054	CB	CB	. ASP ASP ASP A A 141 141 .	74.861	98.585	41.801	1.00
19.38	1 . .						
ATOM 1055	CG	CG	. ASP ASP ASP A A 141 141 .	73.767	98.166	42.770	1.00
23.00	1 . .						
ATOM 1056	OD1	OD1	. ASP ASP ASP A A 141 141 .	74.043	98.010	43.989	1.00
27.80	1 . .						
ATOM 1057	OD2	OD2	. ASP ASP ASP A A 141 141 .	72.618	97.970	42.314	1.00
27.47	1 . .						
ATOM 1058	C	C	. ASP ASP ASP A A 141 141 .	75.654	98.513	39.371	1.00
16.98	1 . .						
ATOM 1059	O	O	. ASP ASP ASP A A 141 141 .	76.839	98.439	39.645	1.00
19.33	1 . .						
ATOM 1060	N	N	. LEU LEU LEU A A 142 142 .	75.225	98.921	38.190	1.00
13.73	1 . .						
ATOM 1061	CA	CA	. LEU LEU LEU A A 142 142 .	76.165	99.076	37.098	1.00
10.26	1 . .						
ATOM 1062	CB	CB	. LEU LEU LEU A A 142 142 .	75.371	99.003	35.828	1.00
9.33	1 . .						
ATOM 1063	CG	CG	. LEU LEU LEU A A 142 142 .	74.384	97.855	35.789	1.00
11.33	1 . .						
ATOM 1064	CD1	CD1	. LEU LEU LEU A A 142 142 .	73.286	98.075	34.739	1.00
15.83	1 . .						
ATOM 1065	CD2	CD2	. LEU LEU LEU A A 142 142 .	75.125	96.569	35.474	1.00
11.68	1 . .						
ATOM 1066	C	C	. LEU LEU LEU A A 142 142 .	76.887	100.411	37.172	1.00
7.71	1 . .						
ATOM 1067	O	O	. LEU LEU LEU A A 142 142 .	76.393	101.385	37.732	1.00
8.93	1 . .						
ATOM 1068	N	N	. ILE ILE ILE A A 143 143 .	78.063	100.493	36.599	1.00
5.91	1 . .						

ATOM 1069	CA	CA	. ILE ILE ILE A A	143 143	. 78.702	101.771	36.582	1.00
6.33	1 . .							
ATOM 1070	CB	CB	. ILE ILE ILE A A	143 143	. 79.768	101.989	37.657	1.00
10.14	1 . .							
ATOM 1071	CG1	CG1	. ILE ILE ILE A A	143 143	. 80.998	101.187	37.331	1.00
10.33	1 . .							
ATOM 1072	CD1	CD1	. ILE ILE ILE A A	143 143	. 82.155	102.049	37.168	1.00
12.67	1 . .							
ATOM 1073	CG2	CG2	. ILE ILE ILE A A	143 143	. 79.236	101.908	39.143	1.00
10.92	1 . .							
ATOM 1074	C	C	. ILE ILE ILE A A	143 143	. 79.361	102.084	35.227	1.00
4.03	1 . .							
ATOM 1075	O	O	. ILE ILE ILE A A	143 143	. 79.822	101.174	34.501	1.00
4.27	1 . .							
ATOM 1076	N	N	. LEU LEU LEU A A	144 144	. 79.422	103.355	34.951	1.00
3.35	1 . .							
ATOM 1077	CA	CA	. LEU LEU LEU A A	144 144	. 80.071	103.830	33.697	1.00
2.24	1 . .							
ATOM 1078	CB	CB	. LEU LEU LEU A A	144 144	. 79.424	105.097	33.149	1.00
2.69	1 . .							
ATOM 1079	CG	CG	. LEU LEU LEU A A	144 144	. 78.251	105.030	32.194	1.00
3.78	1 . .							
ATOM 1080	CD1	CD1	. LEU LEU LEU A A	144 144	. 78.498	104.288	30.877	1.00
4.95	1 . .							
ATOM 1081	CD2	CD2	. LEU LEU LEU A A	144 144	. 77.133	104.202	32.894	1.00
7.05	1 . .							
ATOM 1082	C	C	. LEU LEU LEU A A	144 144	. 81.541	104.044	33.971	1.00
2.41	1 . .							
ATOM 1083	O	O	. LEU LEU LEU A A	144 144	. 81.922	104.658	34.961	1.00
5.16	1 . .							
ATOM 1084	N	N	. PRO PRO PRO A A	145 145	. 82.405	103.451	33.155	1.00
2.16	1 . .							
ATOM 1085	CA	CA	. PRO PRO PRO A A	145 145	. 83.833	103.547	33.423	1.00
2.09	1 . .							
ATOM 1086	CB	CB	. PRO PRO PRO A A	145 145	. 84.417	102.487	32.446	1.00
2.05	1 . .							
ATOM 1087	CG	CG	. PRO PRO PRO A A	145 145	. 83.515	102.604	31.257	1.00
2.50	1 . .							
ATOM 1088	CD	CD	. PRO PRO PRO A A	145 145	. 82.099	102.779	31.864	1.00
2.31	1 . .							
ATOM 1089	C	C	. PRO PRO PRO A A	145 145	. 84.474	104.873	33.086	1.00
2.14	1 . .							
ATOM 1090	O	O	. PRO PRO PRO A A	145 145	. 83.965	105.602	32.219	1.00
2.36	1 . .							
ATOM 1091	N	N	. VAL VAL VAL A A	146 146	. 85.626	105.156	33.655	1.00
2.51	1 . .							
ATOM 1092	CA	CA	. VAL VAL VAL A A	146 146	. 86.447	106.193	33.057	1.00
2.53	1 . .							
ATOM 1093	CB	CB	. VAL VAL VAL A A	146 146	. 87.535	106.636	34.041	1.00
2.86	1 . .							
ATOM 1094	CG1	CG1	. VAL VAL VAL A A	146 146	. 88.490	107.643	33.431	1.00
2.94	1 . .							
ATOM 1095	CG2	CG2	. VAL VAL VAL A A	146 146	. 86.897	107.133	35.406	1.00
2.92	1 . .							

















ATOM 1285	CB	CB	. VAL VAL VAL A A	172 172	. 89.789	110.702	37.193	1.00
4.22	1 . .							
ATOM 1286	CG1	CG1	. VAL VAL VAL A A	172 172	. 90.559	109.468	36.719	1.00
2.40	1 . .							
ATOM 1287	CG2	CG2	. VAL VAL VAL A A	172 172	. 90.824	111.849	37.332	1.00
4.10	1 . .							
ATOM 1288	C	C	. VAL VAL VAL A A	172 172	. 87.792	112.105	36.757	1.00
2.18	1 . .							
ATOM 1289	O	O	. VAL VAL VAL A A	172 172	. 86.827	111.801	37.529	1.00
3.66	1 . .							
ATOM 1290	N	N	. GLY GLY GLY A A	173 173	. 88.060	113.362	36.409	1.00
2.42	1 . .							
ATOM 1291	CA	CA	. GLY GLY GLY A A	173 173	. 87.267	114.512	36.969	1.00
2.78	1 . .							
ATOM 1292	C	C	. GLY GLY GLY A A	173 173	. 86.031	114.935	36.188	1.00
2.64	1 . .							
ATOM 1293	O	O	. GLY GLY GLY A A	173 173	. 85.354	115.921	36.456	1.00
4.63	1 . .							
ATOM 1294	N	N	. ALA ALA ALA A A	174 174	. 85.736	114.184	35.156	1.00
3.58	1 . .							
ATOM 1295	CA	CA	. ALA ALA ALA A A	174 174	. 84.534	114.412	34.347	1.00
2.80	1 . .							
ATOM 1296	CB	CB	. ALA ALA ALA A A	174 174	. 84.567	113.487	33.109	1.00
4.08	1 . .							
ATOM 1297	C	C	. ALA ALA ALA A A	174 174	. 83.256	114.233	35.126	1.00
2.92	1 . .							
ATOM 1298	O	O	. ALA ALA ALA A A	174 174	. 83.189	113.527	36.126	1.00
4.02	1 . .							
ATOM 1299	N	N	. GLU GLU GLU A A	175 175	. 82.205	114.899	34.719	1.00
4.50	1 . .							
ATOM 1300	CA	CA	. GLU GLU GLU A A	175 175	. 80.910	114.772	35.428	1.00
6.75	1 . .							
ATOM 1301	CB	CB	. GLU GLU GLU A A	175 175	. 80.024	115.982	35.098	1.00
8.52	1 . .							
ATOM 1302	CG	CG	. GLU GLU GLU A A	175 175	. 80.346	117.187	35.954	1.00
17.96	1 . .							
ATOM 1303	CD	CD	. GLU GLU GLU A A	175 175	. 79.942	116.925	37.385	1.00
27.15	1 . .							
ATOM 1304	OE1	OE1	. GLU GLU GLU A A	175 175	. 80.849	116.555	38.174	1.00
32.88	1 . .							
ATOM 1305	OE2	OE2	. GLU GLU GLU A A	175 175	. 78.718	117.003	37.696	1.00
29.69	1 . .							
ATOM 1306	C	C	. GLU GLU GLU A A	175 175	. 80.108	113.476	35.107	1.00
6.99	1 . .							
ATOM 1307	O	O	. GLU GLU GLU A A	175 175	. 79.214	113.058	35.840	1.00
7.74	1 . .							
ATOM 1308	N	N	. SER SER SER A A	176 176	. 80.435	112.849	33.983	1.00
6.03	1 . .							
ATOM 1309	CA	CA	. SER SER SER A A	176 176	. 79.558	111.751	33.430	1.00
3.53	1 . .							
ATOM 1310	CB	CB	. SER SER SER A A	176 176	. 78.255	112.222	32.768	1.00
5.03	1 . .							
ATOM 1311	OG	OG	. SER SER SER A A	176 176	. 78.463	113.097	31.683	1.00
4.70	1 . .							

ATOM 1312	C	C	. SER SER SER A A	176 176	. 80.386	111.094	32.337	1.00
2.86	1	. . .						
ATOM 1313	O	O	. SER SER SER A A	176 176	. 81.478	111.580	32.001	1.00
2.54	1	. . .						
ATOM 1314	N	N	. PHE PHE PHE A A	177 177	. 79.879	110.035	31.736	1.00
2.00	1	. . .						
ATOM 1315	CA	CA	. PHE PHE PHE A A	177 177	. 80.617	109.431	30.630	1.00
2.71	1	. . .						
ATOM 1316	CB	CB	. PHE PHE PHE A A	177 177	. 80.102	107.974	30.308	1.00
3.41	1	. . .						
ATOM 1317	CG	CG	. PHE PHE PHE A A	177 177	. 80.994	107.283	29.368	1.00
2.57	1	. . .						
ATOM 1318	CD1	CD1	. PHE PHE PHE A A	177 177	. 82.181	106.666	29.816	1.00
5.40	1	. . .						
ATOM 1319	CE1	CE1	. PHE PHE PHE A A	177 177	. 83.126	106.169	28.889	1.00
2.68	1	. . .						
ATOM 1320	CZ	CZ	. PHE PHE PHE A A	177 177	. 82.925	106.346	27.590	1.00
3.16	1	. . .						
ATOM 1321	CE2	CE2	. PHE PHE PHE A A	177 177	. 81.769	106.919	27.127	1.00
2.34	1	. . .						
ATOM 1322	CD2	CD2	. PHE PHE PHE A A	177 177	. 80.817	107.406	27.967	1.00
2.10	1	. . .						
ATOM 1323	C	C	. PHE PHE PHE A A	177 177	. 80.591	110.364	29.396	1.00
2.12	1	. . .						
ATOM 1324	O	O	. PHE PHE PHE A A	177 177	. 81.624	110.534	28.739	1.00
3.04	1	. . .						
ATOM 1325	N	N	. ARG ARG ARG A A	178 178	. 79.438	110.944	29.083	1.00
2.25	1	. . .						
ATOM 1326	CA	CA	. ARG ARG ARG A A	178 178	. 79.268	111.856	27.975	1.00
2.59	1	. . .						
ATOM 1327	CB	CB	. ARG ARG ARG A A	178 178	. 77.804	112.360	27.954	1.00
2.14	1	. . .						
ATOM 1328	CG	CG	. ARG ARG ARG A A	178 178	. 77.504	113.305	26.830	1.00
9.06	1	. . .						
ATOM 1329	CD	CD	. ARG ARG ARG A A	178 178	. 76.074	113.744	27.027	1.00
16.42	1	. . .						
ATOM 1330	NE	NE	. ARG ARG ARG A A	178 178	. 75.522	114.269	25.788	1.00
23.93	1	. . .						
ATOM 1331	CZ	CZ	. ARG ARG ARG A A	178 178	. 75.533	115.553	25.471	1.00
23.19	1	. . .						
ATOM 1332	NH1	NH1	. ARG ARG ARG A A	178 178	. 74.998	115.952	24.320	1.00
22.79	1	. . .						
ATOM 1333	NH2	NH2	. ARG ARG ARG A A	178 178	. 76.096	116.429	26.306	1.00
21.71	1	. . .						
ATOM 1334	C	C	. ARG ARG ARG A A	178 178	. 80.254	113.012	28.180	1.00
2.83	1	. . .						
ATOM 1335	O	O	. ARG ARG ARG A A	178 178	. 80.855	113.487	27.227	1.00
2.55	1	. . .						
ATOM 1336	N	N	. ASP ASP ASP A A	179 179	. 80.400	113.513	29.408	1.00
2.90	1	. . .						
ATOM 1337	CA	CA	. ASP ASP ASP A A	179 179	. 81.351	114.541	29.697	1.00
2.49	1	. . .						
ATOM 1338	CB	CB	. ASP ASP ASP A A	179 179	. 81.103	115.105	31.098	1.00
3.72	1	. . .						











ATOM 1447	N	N	. GLY GLY GLY A A 193 193 .	97.329	120.218	17.683	1.00
2.80	1	. . .					
ATOM 1448	CA	CA	. GLY GLY GLY A A 193 193 .	97.932	121.509	17.397	1.00
3.52	1	. . .					
ATOM 1449	C	C	. GLY GLY GLY A A 193 193 .	99.230	121.727	18.178	1.00
3.93	1	. . .					
ATOM 1450	O	O	. GLY GLY GLY A A 193 193 .	100.169	122.334	17.649	1.00
7.31	1	. . .					
ATOM 1451	N	N	. VAL VAL VAL A A 194 194 .	99.350	121.208	19.401	1.00
3.75	1	. . .					
ATOM 1452	CA	CA	. VAL VAL VAL A A 194 194 .	100.635	121.227	20.059	1.00
6.03	1	. . .					
ATOM 1453	CB	CB	. VAL VAL VAL A A 194 194 .	100.507	120.645	21.490	1.00
4.73	1	. . .					
ATOM 1454	CG1	CG1	. VAL VAL VAL A A 194 194 .	101.847	120.630	22.223	1.00
9.29	1	. . .					
ATOM 1455	CG2	CG2	. VAL VAL VAL A A 194 194 .	99.495	121.440	22.280	1.00
5.73	1	. . .					
ATOM 1456	C	C	. VAL VAL VAL A A 194 194 .	101.720	120.479	19.235	1.00
4.64	1	. . .					
ATOM 1457	O	O	. VAL VAL VAL A A 194 194 .	102.909	120.930	19.124	1.00
7.75	1	. . .					
ATOM 1458	N	N	. ILE ILE ILE A A 195 195 .	101.335	119.314	18.702	1.00
4.84	1	. . .					
ATOM 1459	CA	CA	. ILE ILE ILE A A 195 195 .	102.258	118.539	17.876	1.00
4.75	1	. . .					
ATOM 1460	CB	CB	. ILE ILE ILE A A 195 195 .	101.694	117.102	17.617	1.00
4.90	1	. . .					
ATOM 1461	CG1	CG1	. ILE ILE ILE A A 195 195 .	101.803	116.336	18.904	1.00
3.82	1	. . .					
ATOM 1462	CD1	CD1	. ILE ILE ILE A A 195 195 .	101.081	114.985	18.820	1.00
7.12	1	. . .					
ATOM 1463	CG2	CG2	. ILE ILE ILE A A 195 195 .	102.512	116.377	16.510	1.00
5.58	1	. . .					
ATOM 1464	C	C	. ILE ILE ILE A A 195 195 .	102.584	119.235	16.558	1.00
3.95	1	. . .					
ATOM 1465	O	O	. ILE ILE ILE A A 195 195 .	103.752	119.314	16.120	1.00
4.99	1	. . .					
ATOM 1466	N	N	. LYS LYS LYS A A 196 196 .	101.539	119.746	15.927	1.00
5.27	1	. . .					
ATOM 1467	CA	CA	. LYS LYS LYS A A 196 196 .	101.688	120.431	14.636	1.00
7.27	1	. . .					
ATOM 1468	CB	CB	. LYS LYS LYS A A 196 196 .	100.368	120.938	14.048	1.00
7.60	1	. . .					
ATOM 1469	CG	CG	. LYS LYS LYS A A 196 196 .	100.480	121.543	12.635	1.00
12.35	1	. . .					
ATOM 1470	CD	CD	. LYS LYS LYS A A 196 196 .	99.584	122.756	12.445	1.00
19.14	1	. . .					
ATOM 1471	CE	CE	. LYS LYS LYS A A 196 196 .	99.435	123.093	10.975	1.00
23.41	1	. . .					
ATOM 1472	NZ	NZ	. LYS LYS LYS A A 196 196 .	99.459	124.582	10.687	1.00
28.88	1	. . .					
ATOM 1473	C	C	. LYS LYS LYS A A 196 196 .	102.639	121.643	14.802	1.00
7.92	1	. . .					

ATOM 1474	O	O	. LYS LYS LYS A A 196 196 .	103.556	121.811	13.990	1.00
7.77	1 . .						
ATOM 1475	N	N	. ASP ASP ASP A A 197 197 .	102.435	122.437	15.856	1.00
9.71	1 . .						
ATOM 1476	CA	CA	. ASP ASP ASP A A 197 197 .	103.289	123.628	16.147	1.00
9.64	1 . .						
ATOM 1477	CB	CB	. ASP ASP ASP A A 197 197 .	102.781	124.329	17.401	1.00
11.43	1 . .						
ATOM 1478	CG	CG	. ASP ASP ASP A A 197 197 .	101.532	125.143	17.162	1.00
14.55	1 . .						
ATOM 1479	OD1	OD1	. ASP ASP ASP A A 197 197 .	101.022	125.696	18.137	1.00
16.98	1 . .						
ATOM 1480	OD2	OD2	. ASP ASP ASP A A 197 197 .	101.031	125.228	16.010	1.00
17.52	1 . .						
ATOM 1481	C	C	. ASP ASP ASP A A 197 197 .	104.757	123.229	16.373	1.00
9.00	1 . .						
ATOM 1482	O	O	. ASP ASP ASP A A 197 197 .	105.682	123.931	15.926	1.00
9.99	1 . .						
ATOM 1483	N	N	. LYS LYS LYS A A 198 198 .	104.994	122.140	17.110	1.00
8.01	1 . .						
ATOM 1484	CA	CA	. LYS LYS LYS A A 198 198 .	106.379	121.777	17.490	1.00
6.10	1 . .						
ATOM 1485	CB	CB	. LYS LYS LYS A A 198 198 .	106.372	121.027	18.846	1.00
5.16	1 . .						
ATOM 1486	CG	CG	. LYS LYS LYS A A 198 198 .	107.715	120.936	19.549	1.00
7.14	1 . .						
ATOM 1487	CD	CD	. LYS LYS LYS A A 198 198 .	107.543	120.467	21.032	1.00
10.19	1 . .						
ATOM 1488	CE	CE	. LYS LYS LYS A A 198 198 .	108.844	120.562	21.860	1.00
9.50	1 . .						
ATOM 1489	NZ	NZ	. LYS LYS LYS A A 198 198 .	108.719	119.797	23.144	1.00
8.62	1 . .						
ATOM 1490	C	C	. LYS LYS LYS A A 198 198 .	107.116	120.944	16.463	1.00
6.42	1 . .						
ATOM 1491	O	O	. LYS LYS LYS A A 198 198 .	108.346	121.092	16.311	1.00
7.54	1 . .						
ATOM 1492	N	N	. TYR TYR TYR A A 199 199 .	106.418	120.022	15.780	1.00
6.25	1 . .						
ATOM 1493	CA	CA	. TYR TYR TYR A A 199 199 .	107.049	118.997	14.967	1.00
7.78	1 . .						
ATOM 1494	CB	CB	. TYR TYR TYR A A 199 199 .	106.840	117.568	15.548	1.00
6.53	1 . .						
ATOM 1495	CG	CG	. TYR TYR TYR A A 199 199 .	107.608	117.347	16.808	1.00
5.54	1 . .						
ATOM 1496	CD1	CD1	. TYR TYR TYR A A 199 199 .	106.972	117.242	18.033	1.00
6.05	1 . .						
ATOM 1497	CE1	CE1	. TYR TYR TYR A A 199 199 .	107.713	117.081	19.196	1.00
6.17	1 . .						
ATOM 1498	CZ	CZ	. TYR TYR TYR A A 199 199 .	109.088	117.041	19.160	1.00
5.76	1 . .						
ATOM 1499	OH	OH	. TYR TYR TYR A A 199 199 .	109.798	116.943	20.323	1.00
10.41	1 . .						
ATOM 1500	CE2	CE2	. TYR TYR TYR A A 199 199 .	109.749	117.218	17.966	1.00
8.41	1 . .						

ATOM 1501	CD2	CD2	. TYR TYR TYR A A 199 199 .	109.007	117.369	16.808	1.00
8.29	1 . .						
ATOM 1502	C	C	. TYR TYR TYR A A 199 199 .	106.635	119.048	13.510	1.00
7.88	1 . .						
ATOM 1503	O	O	. TYR TYR TYR A A 199 199 .	107.221	118.319	12.703	1.00
8.46	1 . .						
ATOM 1504	N	N	. GLY GLY GLY A A 200 200 .	105.650	119.883	13.158	1.00
9.28	1 . .						
ATOM 1505	CA	CA	. GLY GLY GLY A A 200 200 .	105.137	119.879	11.789	1.00
8.15	1 . .						
ATOM 1506	C	C	. GLY GLY GLY A A 200 200 .	103.847	119.092	11.586	1.00
9.83	1 . .						
ATOM 1507	O	O	. GLY GLY GLY A A 200 200 .	103.528	118.195	12.392	1.00
7.03	1 . .						
ATOM 1508	N	N	. LYS LYS LYS A A 201 201 .	103.087	119.500	10.551	1.00
9.94	1 . .						
ATOM 1509	CA	CA	. LYS LYS LYS A A 201 201 .	101.819	118.824	10.163	1.00
12.24	1 . .						
ATOM 1510	CB	CB	. LYS LYS LYS A A 201 201 .	101.167	119.546	8.958	1.00
14.32	1 . .						
ATOM 1511	CG	CG	. LYS LYS LYS A A 201 201 .	101.755	119.086	7.577	1.00
19.83	1 . .						
ATOM 1512	CD	CD	. LYS LYS LYS A A 201 201 .	101.916	120.193	6.539	1.00
25.62	1 . .						
ATOM 1513	CE	CE	. LYS LYS LYS A A 201 201 .	103.303	120.151	5.877	1.00
28.38	1 . .						
ATOM 1514	NZ	NZ	. LYS LYS LYS A A 201 201 .	103.837	121.521	5.645	1.00
28.48	1 . .						
ATOM 1515	C	C	. LYS LYS LYS A A 201 201 .	102.038	117.329	9.889	1.00
12.01	1 . .						
ATOM 1516	O	O	. LYS LYS LYS A A 201 201 .	101.169	116.513	10.181	1.00
13.43	1 . .						
ATOM 1517	N	N	. ASP ASP ASP A A 202 202 .	103.242	116.960	9.449	1.00
10.24	1 . .						
ATOM 1518	CA	CA	. ASP ASP ASP A A 202 202 .	103.565	115.581	9.080	1.00
11.45	1 . .						
ATOM 1519	CB	CB	. ASP ASP ASP A A 202 202 .	104.869	115.594	8.282	1.00
13.78	1 . .						
ATOM 1520	CG	CG	. ASP ASP ASP A A 202 202 .	105.748	116.757	8.685	1.00
19.03	1 . .						
ATOM 1521	OD1	OD1	. ASP ASP ASP A A 202 202 .	105.655	117.854	8.076	1.00
24.23	1 . .						
ATOM 1522	OD2	OD2	. ASP ASP ASP A A 202 202 .	106.471	116.601	9.672	1.00
25.04	1 . .						
ATOM 1523	C	C	. ASP ASP ASP A A 202 202 .	103.678	114.648	10.270	1.00
10.05	1 . .						
ATOM 1524	O	O	. ASP ASP ASP A A 202 202 .	103.658	113.384	10.089	1.00
8.87	1 . .						
ATOM 1525	N	N	. ALA ALA ALA A A 203 203 .	103.728	115.249	11.475	1.00
7.70	1 . .						
ATOM 1526	CA	CA	. ALA ALA ALA A A 203 203 .	103.831	114.483	12.706	1.00
6.97	1 . .						
ATOM 1527	CB	CB	. ALA ALA ALA A A 203 203 .	104.642	115.283	13.715	1.00
7.96	1 . .						









ATOM 1609	ND2	ND2	. ASN ASN ASN A A 215 215 .	107.956	113.934	13.432	1.00
14.38	1 . .						
ATOM 1610	C	C	. ASN ASN ASN A A 215 215 .	109.437	111.622	16.023	1.00
8.95	1 . .						
ATOM 1611	O	O	. ASN ASN ASN A A 215 215 .	110.435	112.292	15.823	1.00
11.30	1 . .						
ATOM 1612	N	N	. ILE ILE ILE A A 216 216 .	109.118	111.174	17.226	1.00
7.39	1 . .						
ATOM 1613	CA	CA	. ILE ILE ILE A A 216 216 .	109.917	111.363	18.456	1.00
6.88	1 . .						
ATOM 1614	CB	CB	. ILE ILE ILE A A 216 216 .	109.136	112.114	19.530	1.00
6.80	1 . .						
ATOM 1615	CG1	CG1	. ILE ILE ILE A A 216 216 .	107.877	111.310	19.954	1.00
5.15	1 . .						
ATOM 1616	CD1	CD1	. ILE ILE ILE A A 216 216 .	107.149	111.883	21.175	1.00
5.52	1 . .						
ATOM 1617	CG2	CG2	. ILE ILE ILE A A 216 216 .	108.812	113.469	18.993	1.00
9.04	1 . .						
ATOM 1618	C	C	. ILE ILE ILE A A 216 216 .	110.446	110.042	18.986	1.00
7.32	1 . .						
ATOM 1619	O	O	. ILE ILE ILE A A 216 216 .	109.910	108.943	18.622	1.00
8.70	1 . .						
ATOM 1620	N	N	. LEU LEU LEU A A 217 217 .	111.548	110.125	19.745	1.00
7.89	1 . .						
ATOM 1621	CA	CA	. LEU LEU LEU A A 217 217 .	112.120	108.945	20.382	1.00
7.46	1 . .						
ATOM 1622	CB	CB	. LEU LEU LEU A A 217 217 .	113.640	108.845	20.185	1.00
5.62	1 . .						
ATOM 1623	CG	CG	. LEU LEU LEU A A 217 217 .	114.497	107.917	21.037	1.00
10.19	1 . .						
ATOM 1624	CD1	CD1	. LEU LEU LEU A A 217 217 .	114.233	106.403	20.715	1.00
9.42	1 . .						
ATOM 1625	CD2	CD2	. LEU LEU LEU A A 217 217 .	115.962	108.286	20.784	1.00
10.47	1 . .						
ATOM 1626	C	C	. LEU LEU LEU A A 217 217 .	111.829	108.878	21.863	1.00
8.53	1 . .						
ATOM 1627	O	O	. LEU LEU LEU A A 217 217 .	111.635	107.780	22.414	1.00
7.07	1 . .						
ATOM 1628	N	N	. GLU GLU GLU A A 218 218 .	111.859	110.041	22.538	1.00
7.92	1 . .						
ATOM 1629	CA	CA	. GLU GLU GLU A A 218 218 .	111.857	110.030	24.027	1.00
8.03	1 . .						
ATOM 1630	CB	CB	. GLU GLU GLU A A 218 218 .	112.593	111.269	24.627	1.00
8.72	1 . .						
ATOM 1631	CG	CG	. GLU GLU GLU A A 218 218 .	114.050	111.351	24.172	1.00
13.09	1 . .						
ATOM 1632	CD	CD	. GLU GLU GLU A A 218 218 .	115.045	111.079	25.270	1.00
24.46	1 . .						
ATOM 1633	OE1	OE1	. GLU GLU GLU A A 218 218 .	116.012	111.877	25.379	1.00
29.81	1 . .						
ATOM 1634	OE2	OE2	. GLU GLU GLU A A 218 218 .	114.877	110.075	26.021	1.00
28.54	1 . .						
ATOM 1635	C	C	. GLU GLU GLU A A 218 218 .	110.463	109.895	24.574	1.00
8.33	1 . .						

ATOM 1636	O	O	. GLU GLU GLU A A 218 218 .	109.556	110.679	24.206	1.00
10.28	1 . .						
ATOM 1637	N	N	. ASN ASN ASN A A 219 219 .	110.287	108.913	25.455	1.00
7.89	1 . .						
ATOM 1638	CA	CA	. ASN ASN ASN A A 219 219 .	109.009	108.677	26.017	1.00
7.74	1 . .						
ATOM 1639	CB	CB	. ASN ASN ASN A A 219 219 .	109.036	107.370	26.772	1.00
8.50	1 . .						
ATOM 1640	CG	CG	. ASN ASN ASN A A 219 219 .	109.356	106.244	25.875	1.00
7.23	1 . .						
ATOM 1641	OD1	OD1	. ASN ASN ASN A A 219 219 .	110.469	105.749	25.884	1.00
11.67	1 . .						
ATOM 1642	ND2	ND2	. ASN ASN ASN A A 219 219 .	108.432	105.883	25.015	1.00
4.68	1 . .						
ATOM 1643	C	C	. ASN ASN ASN A A 219 219 .	108.608	109.867	26.886	1.00
7.67	1 . .						
ATOM 1644	O	O	. ASN ASN ASN A A 219 219 .	107.439	110.240	26.970	1.00
8.30	1 . .						
ATOM 1645	N	N	. SER SER SER A A 220 220 .	109.580	110.486	27.555	1.00
6.89	1 . .						
ATOM 1646	CA	CA	. SER SER SER A A 220 220 .	109.251	111.656	28.363	1.00
8.60	1 . .						
ATOM 1647	CB	CB	. SER SER SER A A 220 220 .	110.502	112.122	29.104	1.00
9.44	1 . .						
ATOM 1648	OG	OG	. SER SER SER A A 220 220 .	111.557	112.371	28.193	1.00
11.28	1 . .						
ATOM 1649	C	C	. SER SER SER A A 220 220 .	108.648	112.812	27.508	1.00
7.09	1 . .						
ATOM 1650	O	O	. SER SER SER A A 220 220 .	107.852	113.611	28.036	1.00
8.86	1 . .						
ATOM 1651	N	N	. GLU GLU GLU A A 221 221 .	109.066	112.936	26.259	1.00
9.26	1 . .						
ATOM 1652	CA	CA	. GLU GLU GLU A A 221 221 .	108.552	113.940	25.362	1.00
7.54	1 . .						
ATOM 1653	CB	CB	. GLU GLU GLU A A 221 221 .	109.439	114.039	24.116	1.00
7.76	1 . .						
ATOM 1654	CG	CG	. GLU GLU GLU A A 221 221 .	108.900	114.948	22.975	1.00
7.90	1 . .						
ATOM 1655	CD	CD	. GLU GLU GLU A A 221 221 .	108.837	116.452	23.359	1.00
11.96	1 . .						
ATOM 1656	OE1	OE1	. GLU GLU GLU A A 221 221 .	109.375	116.819	24.408	1.00
10.95	1 . .						
ATOM 1657	OE2	OE2	. GLU GLU GLU A A 221 221 .	108.233	117.263	22.599	1.00
12.31	1 . .						
ATOM 1658	C	C	. GLU GLU GLU A A 221 221 .	107.112	113.635	25.006	1.00
6.75	1 . .						
ATOM 1659	O	O	. GLU GLU GLU A A 221 221 .	106.269	114.539	24.879	1.00
8.94	1 . .						
ATOM 1660	N	N	. ALA ALA ALA A A 222 222 .	106.796	112.361	24.836	1.00
6.30	1 . .						
ATOM 1661	CA	CA	. ALA ALA ALA A A 222 222 .	105.356	112.034	24.615	1.00
3.58	1 . .						
ATOM 1662	CB	CB	. ALA ALA ALA A A 222 222 .	105.182	110.555	24.369	1.00
4.24	1 . .						

ATOM 1663	C	C	. ALA ALA ALA A A 222 222	. 104.541 112.498 25.819	1.00
3.73	1 . .				
ATOM 1664	O	O	. ALA ALA ALA A A 222 222	. 103.490 113.089 25.657	1.00
4.17	1 . .				
ATOM 1665	N	N	. LEU LEU LEU A A 223 223	. 105.013 112.183 27.035	1.00
4.55	1 . .				
ATOM 1666	CA	CA	. LEU LEU LEU A A 223 223	. 104.308 112.611 28.252	1.00
4.90	1 . .				
ATOM 1667	CB	CB	. LEU LEU LEU A A 223 223	. 105.030 112.160 29.498	1.00
4.35	1 . .				
ATOM 1668	CG	CG	. LEU LEU LEU A A 223 223	. 104.899 110.667 29.702	1.00
4.86	1 . .				
ATOM 1669	CD1	CD1	. LEU LEU LEU A A 223 223	. 106.023 110.077 30.736	1.00
6.46	1 . .				
ATOM 1670	CD2	CD2	. LEU LEU LEU A A 223 223	. 103.447 110.347 30.084	1.00
4.70	1 . .				
ATOM 1671	C	C	. LEU LEU LEU A A 223 223	. 104.237 114.140 28.325	1.00
4.21	1 . .				
ATOM 1672	O	O	. LEU LEU LEU A A 223 223	. 103.226 114.673 28.710	1.00
6.63	1 . .				
ATOM 1673	N	N	. GLU GLU GLU A A 224 224	. 105.274 114.819 27.877	1.00
5.94	1 . .				
ATOM 1674	CA	CA	. GLU GLU GLU A A 224 224	. 105.320 116.281 27.996	1.00
5.86	1 . .				
ATOM 1675	CB	CB	. GLU GLU GLU A A 224 224	. 106.737 116.788 27.625	1.00
7.82	1 . .				
ATOM 1676	CG	CG	. GLU GLU GLU A A 224 224	. 106.819 118.298 27.551	1.00
11.24	1 . .				
ATOM 1677	CD	CD	. GLU GLU GLU A A 224 224	. 106.980 118.985 28.877	1.00
14.15	1 . .				
ATOM 1678	OE1	OE1	. GLU GLU GLU A A 224 224	. 106.905 120.225 28.869	1.00
16.28	1 . .				
ATOM 1679	OE2	OE2	. GLU GLU GLU A A 224 224	. 107.230 118.347 29.929	1.00
16.08	1 . .				
ATOM 1680	C	C	. GLU GLU GLU A A 224 224	. 104.283 116.837 27.041	1.00
4.89	1 . .				
ATOM 1681	O	O	. GLU GLU GLU A A 224 224	. 103.593 117.811 27.333	1.00
6.77	1 . .				
ATOM 1682	N	N	. LEU LEU LEU A A 225 225	. 104.204 116.233 25.865	1.00
4.92	1 . .				
ATOM 1683	CA	CA	. LEU LEU LEU A A 225 225	. 103.201 116.690 24.900	1.00
5.01	1 . .				
ATOM 1684	CB	CB	. LEU LEU LEU A A 225 225	. 103.360 115.961 23.545	1.00
6.83	1 . .				
ATOM 1685	CG	CG	. LEU LEU LEU A A 225 225	. 104.613 116.278 22.695	1.00
7.19	1 . .				
ATOM 1686	CD1	CD1	. LEU LEU LEU A A 225 225	. 104.871 115.255 21.610	1.00
6.07	1 . .				
ATOM 1687	CD2	CD2	. LEU LEU LEU A A 225 225	. 104.508 117.733 22.147	1.00
7.62	1 . .				
ATOM 1688	C	C	. LEU LEU LEU A A 225 225	. 101.795 116.490 25.434	1.00
5.68	1 . .				
ATOM 1689	O	O	. LEU LEU LEU A A 225 225	. 100.919 117.381 25.313	1.00
5.77	1 . .				

ATOM 1690	N	N	. VAL VAL VAL A A 226 226 .	101.561	115.327	26.060	1.00
6.72	1 . .						
ATOM 1691	CA	CA	. VAL VAL VAL A A 226 226 .	100.205	115.098	26.549	1.00
6.08	1 . .						
ATOM 1692	CB	CB	. VAL VAL VAL A A 226 226 .	100.009	113.663	26.948	1.00
6.14	1 . .						
ATOM 1693	CG1	CG1	. VAL VAL VAL A A 226 226 .	98.689	113.572	27.703	1.00
4.43	1 . .						
ATOM 1694	CG2	CG2	. VAL VAL VAL A A 226 226 .	100.013	112.771	25.668	1.00
6.54	1 . .						
ATOM 1695	C	C	. VAL VAL VAL A A 226 226 .	99.832	116.060	27.723	1.00
7.50	1 . .						
ATOM 1696	O	O	. VAL VAL VAL A A 226 226 .	98.721	116.583	27.794	1.00
8.39	1 . .						
ATOM 1697	N	N	. LYS LYS LYS A A 227 227 .	100.786	116.287	28.616	1.00
7.71	1 . .						
ATOM 1698	CA	CA	. LYS LYS LYS A A 227 227 .	100.565	117.177	29.753	1.00
8.73	1 . .						
ATOM 1699	CB	CB	. LYS LYS LYS A A 227 227 .	101.795	117.081	30.668	1.00
8.08	1 . .						
ATOM 1700	CG	CG	. LYS LYS LYS A A 227 227 .	101.938	118.142	31.740	1.00
13.50	1 . .						
ATOM 1701	CD	CD	. LYS LYS LYS A A 227 227 .	103.231	117.931	32.532	1.00
18.80	1 . .						
ATOM 1702	CE	CE	. LYS LYS LYS A A 227 227 .	103.386	118.876	33.736	1.00
22.67	1 . .						
ATOM 1703	NZ	NZ	. LYS LYS LYS A A 227 227 .	103.803	118.102	34.967	1.00
21.01	1 . .						
ATOM 1704	C	C	. LYS LYS LYS A A 227 227 .	100.297	118.609	29.236	1.00
8.44	1 . .						
ATOM 1705	O	O	. LYS LYS LYS A A 227 227 .	99.374	119.263	29.718	1.00
6.04	1 . .						
ATOM 1706	N	N	. GLU GLU GLU A A 228 228 .	101.053	119.072	28.250	1.00
9.11	1 . .						
ATOM 1707	CA	CA	. GLU GLU GLU A A 228 228 .	100.801	120.408	27.651	1.00
9.00	1 . .						
ATOM 1708	CB	CB	. GLU GLU GLU A A 228 228 .	101.876	120.680	26.573	1.00
10.09	1 . .						
ATOM 1709	CG	CG	. GLU GLU GLU A A 228 228 .	101.807	121.939	25.771	1.00
16.38	1 . .						
ATOM 1710	CD	CD	. GLU GLU GLU A A 228 228 .	102.014	123.241	26.552	1.00
23.03	1 . .						
ATOM 1711	OE1	OE1	. GLU GLU GLU A A 228 228 .	101.893	124.286	25.888	1.00
25.99	1 . .						
ATOM 1712	OE2	OE2	. GLU GLU GLU A A 228 228 .	102.253	123.252	27.789	1.00
27.05	1 . .						
ATOM 1713	C	C	. GLU GLU GLU A A 228 228 .	99.369	120.494	27.084	1.00
8.22	1 . .						
ATOM 1714	O	O	. GLU GLU GLU A A 228 228 .	98.653	121.489	27.291	1.00
8.46	1 . .						
ATOM 1715	N	N	. ALA ALA ALA A A 229 229 .	98.932	119.415	26.403	1.00
6.13	1 . .						
ATOM 1716	CA	CA	. ALA ALA ALA A A 229 229 .	97.650	119.478	25.754	1.00
5.35	1 . .						

ATOM 1717	CB	CB	. ALA ALA ALA A A	229 229	. 97.494	118.303	24.788	1.00
5.19	1 . .							
ATOM 1718	C	C	. ALA ALA ALA A A	229 229	. 96.510	119.529	26.791	1.00
5.21	1 . .							
ATOM 1719	O	O	. ALA ALA ALA A A	229 229	. 95.455	120.222	26.598	1.00
7.15	1 . .							
ATOM 1720	N	N	. ILE ILE ILE A A	230 230	. 96.743	118.814	27.885	1.00
5.36	1 . .							
ATOM 1721	CA	CA	. ILE ILE ILE A A	230 230	. 95.823	118.795	28.983	1.00
6.82	1 . .							
ATOM 1722	CB	CB	. ILE ILE ILE A A	230 230	. 96.197	117.759	30.073	1.00
5.65	1 . .							
ATOM 1723	CG1	CG1	. ILE ILE ILE A A	230 230	. 95.982	116.325	29.538	1.00
4.60	1 . .							
ATOM 1724	CD1	CD1	. ILE ILE ILE A A	230 230	. 96.466	115.224	30.535	1.00
7.12	1 . .							
ATOM 1725	CG2	CG2	. ILE ILE ILE A A	230 230	. 95.218	117.897	31.363	1.00
8.51	1 . .							
ATOM 1726	C	C	. ILE ILE ILE A A	230 230	. 95.709	120.203	29.591	1.00
6.76	1 . .							
ATOM 1727	O	O	. ILE ILE ILE A A	230 230	. 94.608	120.767	29.749	1.00
9.48	1 . .							
ATOM 1728	N	N	. ASP ASP ASP A A	231 231	. 96.870	120.795	29.880	1.00
8.20	1 . .							
ATOM 1729	CA	CA	. ASP ASP ASP A A	231 231	. 96.816	122.110	30.493	1.00
8.84	1 . .							
ATOM 1730	CB	CB	. ASP ASP ASP A A	231 231	. 98.219	122.477	31.002	1.00
11.19	1 . .							
ATOM 1731	CG	CG	. ASP ASP ASP A A	231 231	. 98.774	121.474	32.070	1.00
15.11	1 . .							
ATOM 1732	OD1	OD1	. ASP ASP ASP A A	231 231	. 99.954	121.624	32.470	1.00
22.55	1 . .							
ATOM 1733	OD2	OD2	. ASP ASP ASP A A	231 231	. 98.058	120.560	32.532	1.00
22.12	1 . .							
ATOM 1734	C	C	. ASP ASP ASP A A	231 231	. 96.281	123.150	29.474	1.00
9.31	1 . .							
ATOM 1735	O	O	. ASP ASP ASP A A	231 231	. 95.483	124.050	29.862	1.00
8.17	1 . .							
ATOM 1736	N	N	. LYS LYS LYS A A	232 232	. 96.676	123.035	28.195	1.00
8.56	1 . .							
ATOM 1737	CA	CA	. LYS LYS LYS A A	232 232	. 96.186	124.036	27.203	1.00
9.12	1 . .							
ATOM 1738	CB	CB	. LYS LYS LYS A A	232 232	. 96.942	123.989	25.876	1.00
10.36	1 . .							
ATOM 1739	CG	CG	. LYS LYS LYS A A	232 232	. 96.672	125.238	25.039	1.00
16.79	1 . .							
ATOM 1740	CD	CD	. LYS LYS LYS A A	232 232	. 97.458	125.280	23.729	1.00
24.39	1 . .							
ATOM 1741	CE	CE	. LYS LYS LYS A A	232 232	. 96.527	125.048	22.540	1.00
25.88	1 . .							
ATOM 1742	NZ	NZ	. LYS LYS LYS A A	232 232	. 97.055	125.674	21.290	1.00
28.95	1 . .							
ATOM 1743	C	C	. LYS LYS LYS A A	232 232	. 94.661	123.944	26.995	1.00
10.05	1 . .							

ATOM 1744	O	O	. LYS LYS LYS A A	232 232	. 93.982	124.927	26.637	1.00
10.71	1 . .							
ATOM 1745	N	N	. ALA ALA ALA A A	233 233	. 94.109	122.734	27.205	1.00
8.42	1 . .							
ATOM 1746	CA	CA	. ALA ALA ALA A A	233 233	. 92.650	122.567	27.054	1.00
8.04	1 . .							
ATOM 1747	CB	CB	. ALA ALA ALA A A	233 233	. 92.216	121.077	26.569	1.00
6.46	1 . .							
ATOM 1748	C	C	. ALA ALA ALA A A	233 233	. 91.906	122.950	28.307	1.00
7.74	1 . .							
ATOM 1749	O	O	. ALA ALA ALA A A	233 233	. 90.689	122.951	28.329	1.00
8.33	1 . .							
ATOM 1750	N	N	. GLY GLY GLY A A	234 234	. 92.678	123.281	29.329	1.00
7.32	1 . .							
ATOM 1751	CA	CA	. GLY GLY GLY A A	234 234	. 92.199	123.792	30.631	1.00
8.06	1 . .							
ATOM 1752	C	C	. GLY GLY GLY A A	234 234	. 91.651	122.726	31.558	1.00
8.57	1 . .							
ATOM 1753	O	O	. GLY GLY GLY A A	234 234	. 90.748	123.007	32.354	1.00
9.90	1 . .							
ATOM 1754	N	N	. TYR TYR TYR A A	235 235	. 92.183	121.520	31.486	1.00
6.67	1 . .							
ATOM 1755	CA	CA	. TYR TYR TYR A A	235 235	. 91.656	120.412	32.269	1.00
6.97	1 . .							
ATOM 1756	CB	CB	. TYR TYR TYR A A	235 235	. 91.073	119.347	31.331	1.00
6.76	1 . .							
ATOM 1757	CG	CG	. TYR TYR TYR A A	235 235	. 89.827	119.786	30.618	1.00
5.20	1 . .							
ATOM 1758	CD1	CD1	. TYR TYR TYR A A	235 235	. 89.775	119.742	29.197	1.00
4.03	1 . .							
ATOM 1759	CE1	CE1	. TYR TYR TYR A A	235 235	. 88.638	120.167	28.502	1.00
3.37	1 . .							
ATOM 1760	CZ	CZ	. TYR TYR TYR A A	235 235	. 87.529	120.610	29.238	1.00
6.85	1 . .							
ATOM 1761	OH	OH	. TYR TYR TYR A A	235 235	. 86.410	120.977	28.591	1.00
8.48	1 . .							
ATOM 1762	CE2	CE2	. TYR TYR TYR A A	235 235	. 87.535	120.668	30.629	1.00
6.97	1 . .							
ATOM 1763	CD2	CD2	. TYR TYR TYR A A	235 235	. 88.682	120.208	31.318	1.00
5.56	1 . .							
ATOM 1764	C	C	. TYR TYR TYR A A	235 235	. 92.685	119.767	33.178	1.00
6.38	1 . .							
ATOM 1765	O	O	. TYR TYR TYR A A	235 235	. 92.551	118.600	33.512	1.00
5.61	1 . .							
ATOM 1766	N	N	. THR THR THR A A	236 236	. 93.706	120.520	33.555	1.00
5.93	1 . .							
ATOM 1767	CA	CA	. THR THR THR A A	236 236	. 94.702	120.012	34.465	1.00
9.17	1 . .							
ATOM 1768	CB	CB	. THR THR THR A A	236 236	. 95.699	121.129	34.802	1.00
10.60	1 . .							
ATOM 1769	OG1	OG1	. THR THR THR A A	236 236	. 96.387	121.503	33.579	1.00
13.85	1 . .							
ATOM 1770	CG2	CG2	. THR THR THR A A	236 236	. 96.705	120.681	35.834	1.00
9.69	1 . .							

ATOM 1771	C	C	. THR THR THR A A 236 236 .	94.151	119.334	35.723	1.00
11.64	1	. . .					
ATOM 1772	O	O	. THR THR THR A A 236 236 .	94.724	118.334	36.193	1.00
11.51	1	. . .					
ATOM 1773	N	N	. GLU GLU GLU A A 237 237 .	93.075	119.878	36.306	1.00
12.80	1	. . .					
ATOM 1774	CA	CA	. GLU GLU GLU A A 237 237 .	92.634	119.305	37.560	1.00
14.68	1	. . .					
ATOM 1775	CB	CB	. GLU GLU GLU A A 237 237 .	92.017	120.342	38.508	1.00
16.30	1	. . .					
ATOM 1776	CG	CG	. GLU GLU GLU A A 237 237 .	92.652	121.758	38.462	1.00
22.07	1	. . .					
ATOM 1777	CD	CD	. GLU GLU GLU A A 237 237 .	94.010	121.873	39.174	1.00
26.16	1	. . .					
ATOM 1778	OE1	OE1	. GLU GLU GLU A A 237 237 .	95.009	121.246	38.728	1.00
25.21	1	. . .					
ATOM 1779	OE2	OE2	. GLU GLU GLU A A 237 237 .	94.079	122.633	40.175	1.00
30.82	1	. . .					
ATOM 1780	C	C	. GLU GLU GLU A A 237 237 .	91.679	118.157	37.308	1.00
13.64	1	. . .					
ATOM 1781	O	O	. GLU GLU GLU A A 237 237 .	91.061	117.667	38.220	1.00
14.88	1	. . .					
ATOM 1782	N	N	. LYS LYS LYS A A 238 238 .	91.607	117.646	36.083	1.00
8.82	1	. . .					
ATOM 1783	CA	CA	. LYS LYS LYS A A 238 238 .	90.508	116.721	35.826	1.00
8.15	1	. . .					
ATOM 1784	CB	CB	. LYS LYS LYS A A 238 238 .	89.409	117.477	35.147	1.00
9.17	1	. . .					
ATOM 1785	CG	CG	. LYS LYS LYS A A 238 238 .	88.650	118.426	36.066	1.00
10.33	1	. . .					
ATOM 1786	CD	CD	. LYS LYS LYS A A 238 238 .	87.345	118.860	35.380	1.00
12.23	1	. . .					
ATOM 1787	CE	CE	. LYS LYS LYS A A 238 238 .	86.552	119.918	36.174	1.00
17.03	1	. . .					
ATOM 1788	NZ	NZ	. LYS LYS LYS A A 238 238 .	87.359	121.136	36.446	1.00
21.59	1	. . .					
ATOM 1789	C	C	. LYS LYS LYS A A 238 238 .	90.863	115.524	34.952	1.00
5.05	1	. . .					
ATOM 1790	O	O	. LYS LYS LYS A A 238 238 .	90.062	114.607	34.836	1.00
6.29	1	. . .					
ATOM 1791	N	N	. ILE ILE ILE A A 239 239 .	92.035	115.551	34.357	1.00
4.50	1	. . .					
ATOM 1792	CA	CA	. ILE ILE ILE A A 239 239 .	92.498	114.495	33.463	1.00
3.40	1	. . .					
ATOM 1793	CB	CB	. ILE ILE ILE A A 239 239 .	92.541	115.048	32.024	1.00
2.74	1	. . .					
ATOM 1794	CG1	CG1	. ILE ILE ILE A A 239 239 .	91.168	115.515	31.609	1.00
2.60	1	. . .					
ATOM 1795	CD1	CD1	. ILE ILE ILE A A 239 239 .	91.105	116.034	30.232	1.00
5.85	1	. . .					
ATOM 1796	CG2	CG2	. ILE ILE ILE A A 239 239 .	93.086	113.958	31.024	1.00
5.52	1	. . .					
ATOM 1797	C	C	. ILE ILE ILE A A 239 239 .	93.886	114.125	33.895	1.00
3.66	1	. . .					

ATOM 1798	O	O	. ILE ILE ILE A A	239 239	. 94.739	114.983	34.100	1.00
5.49	1 . .							
ATOM 1799	N	N	. VAL VAL VAL A A	240 240	. 94.118	112.837	34.025	1.00
2.87	1 . .							
ATOM 1800	CA	CA	. VAL VAL VAL A A	240 240	. 95.440	112.277	34.434	1.00
3.48	1 . .							
ATOM 1801	CB	CB	. VAL VAL VAL A A	240 240	. 95.352	111.563	35.790	1.00
3.36	1 . .							
ATOM 1802	CG1	CG1	. VAL VAL VAL A A	240 240	. 95.069	112.575	36.865	1.00
8.88	1 . .							
ATOM 1803	CG2	CG2	. VAL VAL VAL A A	240 240	. 94.255	110.387	35.773	1.00
5.01	1 . .							
ATOM 1804	C	C	. VAL VAL VAL A A	240 240	. 95.926	111.360	33.341	1.00
2.89	1 . .							
ATOM 1805	O	O	. VAL VAL VAL A A	240 240	. 95.184	111.143	32.365	1.00
4.54	1 . .							
ATOM 1806	N	N	. ILE ILE ILE A A	241 241	. 97.084	110.741	33.543	1.00
2.90	1 . .							
ATOM 1807	CA	CA	. ILE ILE ILE A A	241 241	. 97.751	110.026	32.481	1.00
2.92	1 . .							
ATOM 1808	CB	CB	. ILE ILE ILE A A	241 241	. 99.105	110.668	32.040	1.00
3.58	1 . .							
ATOM 1809	CG1	CG1	. ILE ILE ILE A A	241 241	. 98.896	112.104	31.505	1.00
2.94	1 . .							
ATOM 1810	CD1	CD1	. ILE ILE ILE A A	241 241	. 100.227	112.904	31.264	1.00
4.15	1 . .							
ATOM 1811	CG2	CG2	. ILE ILE ILE A A	241 241	. 99.845	109.794	31.025	1.00
4.27	1 . .							
ATOM 1812	C	C	. ILE ILE ILE A A	241 241	. 97.984	108.539	32.804	1.00
3.91	1 . .							
ATOM 1813	O	O	. ILE ILE ILE A A	241 241	. 98.268	108.169	33.929	1.00
5.10	1 . .							
ATOM 1814	N	N	. GLY GLY GLY A A	242 242	. 97.788	107.701	31.777	1.00
4.27	1 . .							
ATOM 1815	CA	CA	. GLY GLY GLY A A	242 242	. 98.111	106.292	31.949	1.00
3.03	1 . .							
ATOM 1816	C	C	. GLY GLY GLY A A	242 242	. 99.044	105.874	30.794	1.00
3.39	1 . .							
ATOM 1817	O	O	. GLY GLY GLY A A	242 242	. 99.038	106.555	29.800	1.00
4.60	1 . .							
ATOM 1818	N	N	. MET MET MET A A	243 243	. 99.836	104.787	30.979	1.00
3.73	1 . .							
ATOM 1819	CA	CA	. MET MET MET A A	243 243	. 100.768	104.270	29.992	1.00
3.88	1 . .							
ATOM 1820	CB	CB	. MET MET MET A A	243 243	. 102.246	104.479	30.440	1.00
4.78	1 . .							
ATOM 1821	CG	CG	. MET MET MET A A	243 243	. 102.558	105.920	30.797	1.00
6.23	1 . .							
ATOM 1822	SD	SD	. MET MET MET A A	243 243	. 104.189	106.299	31.383	1.00
8.39	1 . .							
ATOM 1823	CE	CE	. MET MET MET A A	243 243	. 105.245	105.656	30.096	1.00
13.21	1 . .							
ATOM 1824	C	C	. MET MET MET A A	243 243	. 100.570	102.794	29.793	1.00
4.51	1 . .							







ATOM 1879	CB	CB	. TYR TYR TYR A A	251 251	. 112.079 91.951	26.715	1.00
8.69	1 . .						
ATOM 1880	CG	CG	. TYR TYR TYR A A	251 251	. 112.837 91.135	27.738	1.00
9.57	1 . .						
ATOM 1881	CD1	CD1	. TYR TYR TYR A A	251 251	. 113.509 91.754	28.850	1.00
11.60	1 . .						
ATOM 1882	CE1	CE1	. TYR TYR TYR A A	251 251	. 114.199 90.987	29.769	1.00
12.94	1 . .						
ATOM 1883	CZ	CZ	. TYR TYR TYR A A	251 251	. 114.116 89.588	29.675	1.00
16.21	1 . .						
ATOM 1884	OH	OH	. TYR TYR TYR A A	251 251	. 114.738 88.781	30.567	1.00
20.78	1 . .						
ATOM 1885	CE2	CE2	. TYR TYR TYR A A	251 251	. 113.458 88.954	28.643	1.00
14.52	1 . .						
ATOM 1886	CD2	CD2	. TYR TYR TYR A A	251 251	. 112.788 89.711	27.683	1.00
12.06	1 . .						
ATOM 1887	C	C	. TYR TYR TYR A A	251 251	. 113.921 92.166	25.017	1.00
11.97	1 . .						
ATOM 1888	O	O	. TYR TYR TYR A A	251 251	. 113.534 91.439	24.062	1.00
10.12	1 . .						
ATOM 1889	N	N	. ARG ARG ARG A A	252 252	. 115.202 92.394	25.334	1.00
13.46	1 . .						
ATOM 1890	CA	CA	. ARG ARG ARG A A	252 252	. 116.316 91.886	24.526	1.00
18.02	1 . .						
ATOM 1891	CB	CB	. ARG ARG ARG A A	252 252	. 116.899 92.982	23.613	1.00
18.00	1 . .						
ATOM 1892	CG	CG	. ARG ARG ARG A A	252 252	. 115.919 93.706	22.681	1.00
16.38	1 . .						
ATOM 1893	CD	CD	. ARG ARG ARG A A	252 252	. 115.462 92.794	21.557	1.00
14.08	1 . .						
ATOM 1894	NE	NE	. ARG ARG ARG A A	252 252	. 114.580 93.491	20.625	1.00
14.90	1 . .						
ATOM 1895	CZ	CZ	. ARG ARG ARG A A	252 252	. 113.250 93.428	20.686	1.00
13.25	1 . .						
ATOM 1896	NH1	NH1	. ARG ARG ARG A A	252 252	. 112.668 92.623	21.577	1.00
11.64	1 . .						
ATOM 1897	NH2	NH2	. ARG ARG ARG A A	252 252	. 112.506 94.111	19.797	1.00
14.30	1 . .						
ATOM 1898	C	C	. ARG ARG ARG A A	252 252	. 117.425 91.323	25.412	1.00
21.16	1 . .						
ATOM 1899	O	O	. ARG ARG ARG A A	252 252	. 118.013 92.045	26.230	1.00
21.34	1 . .						
ATOM 1900	N	N	. ASP ASP ASP A A	253 253	. 117.698 90.034	25.226	1.00
24.11	1 . .						
ATOM 1901	CA	CA	. ASP ASP ASP A A	253 253	. 118.780 89.332	25.923	1.00
25.89	1 . .						
ATOM 1902	CB	CB	. ASP ASP ASP A A	253 253	. 120.119 89.428	25.128	1.00
27.45	1 . .						
ATOM 1903	CG	CG	. ASP ASP ASP A A	253 253	. 120.952 90.682	25.438	1.00
30.04	1 . .						
ATOM 1904	OD1	OD1	. ASP ASP ASP A A	253 253	. 120.407 91.792	25.552	1.00
33.77	1 . .						
ATOM 1905	OD2	OD2	. ASP ASP ASP A A	253 253	. 122.194 90.550	25.534	1.00
32.68	1 . .						

ATOM 1906	C	C	. ASP ASP ASP A A 253 253 .	118.886	89.769	27.388	1.00
25.06	1	. . .					
ATOM 1907	O	O	. ASP ASP ASP A A 253 253 .	119.964	90.158	27.866	1.00
26.73	1	. . .					
ATOM 1908	N	N	. GLY GLY GLY A A 254 254 .	117.752	89.712	28.090	1.00
23.50	1	. . .					
ATOM 1909	CA	CA	. GLY GLY GLY A A 254 254 .	117.706	90.079	29.508	1.00
19.84	1	. . .					
ATOM 1910	C	C	. GLY GLY GLY A A 254 254 .	117.701	91.576	29.816	1.00
18.03	1	. . .					
ATOM 1911	O	O	. GLY GLY GLY A A 254 254 .	117.553	91.934	30.980	1.00
17.98	1	. . .					
ATOM 1912	N	N	. LYS LYS LYS A A 255 255 .	117.872	92.429	28.801	1.00
15.18	1	. . .					
ATOM 1913	CA	CA	. LYS LYS LYS A A 255 255 .	117.770	93.918	28.939	1.00
14.54	1	. . .					
ATOM 1914	CB	CB	. LYS LYS LYS A A 255 255 .	119.083	94.590	28.499	1.00
14.34	1	. . .					
ATOM 1915	CG	CG	. LYS LYS LYS A A 255 255 .	120.337	93.968	29.136	1.00
16.68	1	. . .					
ATOM 1916	CD	CD	. LYS LYS LYS A A 255 255 .	121.580	94.741	28.712	1.00
22.50	1	. . .					
ATOM 1917	CE	CE	. LYS LYS LYS A A 255 255 .	121.684	96.064	29.474	1.00
24.98	1	. . .					
ATOM 1918	NZ	NZ	. LYS LYS LYS A A 255 255 .	123.106	96.357	29.693	1.00
26.59	1	. . .					
ATOM 1919	C	C	. LYS LYS LYS A A 255 255 .	116.611	94.520	28.140	1.00
13.37	1	. . .					
ATOM 1920	O	O	. LYS LYS LYS A A 255 255 .	115.798	93.806	27.556	1.00
13.43	1	. . .					
ATOM 1921	N	N	. TYR TYR TYR A A 256 256 .	116.544	95.843	28.063	1.00
12.34	1	. . .					
ATOM 1922	CA	CA	. TYR TYR TYR A A 256 256 .	115.420	96.492	27.396	1.00
10.80	1	. . .					
ATOM 1923	CB	CB	. TYR TYR TYR A A 256 256 .	114.461	97.099	28.455	1.00
9.86	1	. . .					
ATOM 1924	CG	CG	. TYR TYR TYR A A 256 256 .	113.768	96.076	29.331	1.00
7.16	1	. . .					
ATOM 1925	CD1	CD1	. TYR TYR TYR A A 256 256 .	112.527	95.540	28.947	1.00
5.19	1	. . .					
ATOM 1926	CE1	CE1	. TYR TYR TYR A A 256 256 .	111.890	94.655	29.700	1.00
9.98	1	. . .					
ATOM 1927	CZ	CZ	. TYR TYR TYR A A 256 256 .	112.445	94.235	30.902	1.00
6.62	1	. . .					
ATOM 1928	OH	OH	. TYR TYR TYR A A 256 256 .	111.771	93.286	31.625	1.00
6.76	1	. . .					
ATOM 1929	CE2	CE2	. TYR TYR TYR A A 256 256 .	113.663	94.756	31.345	1.00
6.71	1	. . .					
ATOM 1930	CD2	CD2	. TYR TYR TYR A A 256 256 .	114.323	95.639	30.551	1.00
10.15	1	. . .					
ATOM 1931	C	C	. TYR TYR TYR A A 256 256 .	115.925	97.587	26.419	1.00
10.87	1	. . .					
ATOM 1932	O	O	. TYR TYR TYR A A 256 256 .	116.806	98.403	26.740	1.00
10.37	1	. . .					

ATOM 1933	N	N	. ASP ASP ASP A A 257 257 . 115.339 97.568 25.216 1.00
10.58	1 . .		
ATOM 1934	CA	CA	. ASP ASP ASP A A 257 257 . 115.719 98.423 24.109 1.00
10.88	1 . .		
ATOM 1935	CB	CB	. ASP ASP ASP A A 257 257 . 115.930 97.554 22.861 1.00
11.26	1 . .		
ATOM 1936	CG	CG	. ASP ASP ASP A A 257 257 . 116.488 98.337 21.703 1.00
12.29	1 . .		
ATOM 1937	OD1	OD1	. ASP ASP ASP A A 257 257 . 116.831 99.530 21.912 1.00
16.34	1 . .		
ATOM 1938	OD2	OD2	. ASP ASP ASP A A 257 257 . 116.555 97.782 20.581 1.00
12.76	1 . .		
ATOM 1939	C	C	. ASP ASP ASP A A 257 257 . 114.680 99.523 23.794 1.00
10.37	1 . .		
ATOM 1940	O	O	. ASP ASP ASP A A 257 257 . 113.783 99.341 22.962 1.00
10.35	1 . .		
ATOM 1941	N	N	. LEU LEU LEU A A 258 258 . 114.903 100.720 24.365 1.00
11.06	1 . .		
ATOM 1942	CA	CA	. LEU LEU LEU A A 258 258 . 114.035 101.890 24.092 1.00
10.17	1 . .		
ATOM 1943	CB	CB	. LEU LEU LEU A A 258 258 . 114.026 102.930 25.221 1.00
8.93	1 . .		
ATOM 1944	CG	CG	. LEU LEU LEU A A 258 258 . 113.614 102.389 26.591 1.00
10.90	1 . .		
ATOM 1945	CD1	CD1	. LEU LEU LEU A A 258 258 . 113.804 103.514 27.623 1.00
8.42	1 . .		
ATOM 1946	CD2	CD2	. LEU LEU LEU A A 258 258 . 112.179 101.957 26.456 1.00
13.20	1 . .		
ATOM 1947	C	C	. LEU LEU LEU A A 258 258 . 114.234 102.550 22.756 1.00
9.78	1 . .		
ATOM 1948	O	O	. LEU LEU LEU A A 258 258 . 113.636 103.611 22.481 1.00
9.03	1 . .		
ATOM 1949	N	N	. ASP ASP ASP A A 259 259 . 115.013 101.917 21.873 1.00
8.48	1 . .		
ATOM 1950	CA	CA	. ASP ASP ASP A A 259 259 . 115.077 102.367 20.513 1.00
9.91	1 . .		
ATOM 1951	CB	CB	. ASP ASP ASP A A 259 259 . 116.288 103.306 20.336 1.00
9.84	1 . .		
ATOM 1952	CG	CG	. ASP ASP ASP A A 259 259 . 116.253 104.092 19.016 1.00
13.36	1 . .		
ATOM 1953	OD1	OD1	. ASP ASP ASP A A 259 259 . 115.260 104.010 18.239 1.00
14.73	1 . .		
ATOM 1954	OD2	OD2	. ASP ASP ASP A A 259 259 . 117.248 104.833 18.761 1.00
16.74	1 . .		
ATOM 1955	C	C	. ASP ASP ASP A A 259 259 . 115.013 101.162 19.548 1.00
9.03	1 . .		
ATOM 1956	O	O	. ASP ASP ASP A A 259 259 . 115.708 101.090 18.507 1.00
9.00	1 . .		
ATOM 1957	N	N	. PHE PHE PHE A A 260 260 . 114.122 100.239 19.916 1.00
9.34	1 . .		
ATOM 1958	CA	CA	. PHE PHE PHE A A 260 260 . 113.950 98.946 19.231 1.00
8.33	1 . .		
ATOM 1959	CB	CB	. PHE PHE PHE A A 260 260 . 113.115 97.968 20.063 1.00
8.48	1 . .		

ATOM 1960	CG	CG	. PHE PHE PHE A A 260 260 .	111.633	98.108	19.871	1.00
6.90	1 . .						
ATOM 1961	CD1	CD1	. PHE PHE PHE A A 260 260 .	110.906	99.044	20.592	1.00
6.77	1 . .						
ATOM 1962	CE1	CE1	. PHE PHE PHE A A 260 260 .	109.526	99.144	20.444	1.00
10.21	1 . .						
ATOM 1963	CZ	CZ	. PHE PHE PHE A A 260 260 .	108.850	98.328	19.522	1.00
6.68	1 . .						
ATOM 1964	CE2	CE2	. PHE PHE PHE A A 260 260 .	109.544	97.428	18.815	1.00
9.48	1 . .						
ATOM 1965	CD2	CD2	. PHE PHE PHE A A 260 260 .	110.944	97.315	18.977	1.00
4.98	1 . .						
ATOM 1966	C	C	. PHE PHE PHE A A 260 260 .	113.520	98.952	17.757	1.00
9.91	1 . .						
ATOM 1967	O	O	. PHE PHE PHE A A 260 260 .	113.801	97.997	17.043	1.00
11.17	1 . .						
ATOM 1968	N	N	. LYS LYS LYS A A 261 261 .	112.936	100.037	17.281	1.00
11.34	1 . .						
ATOM 1969	CA	CA	. LYS LYS LYS A A 261 261 .	112.620	100.162	15.854	1.00
11.37	1 . .						
ATOM 1970	CB	CB	. LYS LYS LYS A A 261 261 .	111.360	100.971	15.638	1.00
10.82	1 . .						
ATOM 1971	CG	CG	. LYS LYS LYS A A 261 261 .	110.124	100.189	16.204	1.00
7.53	1 . .						
ATOM 1972	CD	CD	. LYS LYS LYS A A 261 261 .	108.882	101.052	16.227	1.00
4.81	1 . .						
ATOM 1973	CE	CE	. LYS LYS LYS A A 261 261 .	108.817	101.987	17.486	1.00
3.77	1 . .						
ATOM 1974	NZ	NZ	. LYS LYS LYS A A 261 261 .	107.517	102.790	17.567	1.00
7.25	1 . .						
ATOM 1975	C	C	. LYS LYS LYS A A 261 261 .	113.767	100.729	15.046	1.00
12.21	1 . .						
ATOM 1976	O	O	. LYS LYS LYS A A 261 261 .	113.607	101.010	13.859	1.00
13.91	1 . .						
ATOM 1977	N	N	. SER SER SER A A 262 262 .	114.905	100.945	15.698	1.00
12.46	1 . .						
ATOM 1978	CA	CA	. SER SER SER A A 262 262 .	116.084	101.388	14.996	1.00
14.15	1 . .						
ATOM 1979	CB	CB	. SER SER SER A A 262 262 .	116.791	102.478	15.785	1.00
13.43	1 . .						
ATOM 1980	OG	OG	. SER SER SER A A 262 262 .	116.026	103.652	15.752	1.00
16.25	1 . .						
ATOM 1981	C	C	. SER SER SER A A 262 262 .	117.025	100.185	14.798	1.00
14.45	1 . .						
ATOM 1982	O	O	. SER SER SER A A 262 262 .	116.995	99.263	15.578	1.00
12.46	1 . .						
ATOM 1983	N	N	. PRO PRO PRO A A 263 263 .	117.873	100.208	13.744	1.00
16.78	1 . .						
ATOM 1984	CA	CA	. PRO PRO PRO A A 263 263 .	118.721	99.026	13.488	1.00
17.96	1 . .						
ATOM 1985	CB	CB	. PRO PRO PRO A A 263 263 .	119.812	99.572	12.563	1.00
17.46	1 . .						
ATOM 1986	CG	CG	. PRO PRO PRO A A 263 263 .	119.369	100.906	12.113	1.00
18.58	1 . .						

ATOM 1987	CD	CD	. PRO PRO PRO A A 263 263 . 118.180 101.341 12.855 1.00
17.60	1 . . .		
ATOM 1988	C	C	. PRO PRO PRO A A 263 263 . 119.361 98.529 14.781 1.00
19.50	1 . . .		
ATOM 1989	O	O	. PRO PRO PRO A A 263 263 . 119.791 99.333 15.588 1.00
19.46	1 . . .		
ATOM 1990	N	N	. THR THR THR A A 264 264 . 119.451 97.219 14.972 1.00
20.90	1 . . .		
ATOM 1991	CA	CA	. THR THR THR A A 264 264 . 119.906 96.687 16.262 1.00
22.84	1 . . .		
ATOM 1992	CB	CB	. THR THR THR A A 264 264 . 119.947 95.154 16.317 1.00
22.61	1 . . .		
ATOM 1993	OG1	OG1	. THR THR THR A A 264 264 . 118.675 94.617 15.888 1.00
26.14	1 . . .		
ATOM 1994	CG2	CG2	. THR THR THR A A 264 264 . 120.225 94.693 17.743 1.00
21.89	1 . . .		
ATOM 1995	C	C	. THR THR THR A A 264 264 . 121.259 97.238 16.685 1.00
22.71	1 . . .		
ATOM 1996	O	O	. THR THR THR A A 264 264 . 122.184 97.356 15.885 1.00
24.47	1 . . .		
ATOM 1997	N	N	. ASP ASP ASP A A 265 265 . 121.332 97.633 17.946 1.00
22.85	1 . . .		
ATOM 1998	CA	CA	. ASP ASP ASP A A 265 265 . 122.560 98.177 18.548 1.00
22.91	1 . . .		
ATOM 1999	CB	CB	. ASP ASP ASP A A 265 265 . 122.864 99.623 18.097 1.00
23.27	1 . . .		
ATOM 2000	CG	CG	. ASP ASP ASP A A 265 265 . 124.099 100.219 18.781 1.00
23.81	1 . . .		
ATOM 2001	OD1	OD1	. ASP ASP ASP A A 265 265 . 124.646 99.608 19.738 1.00
24.01	1 . . .		
ATOM 2002	OD2	OD2	. ASP ASP ASP A A 265 265 . 124.533 101.306 18.358 1.00
24.37	1 . . .		
ATOM 2003	C	C	. ASP ASP ASP A A 265 265 . 122.526 98.019 20.085 1.00
22.24	1 . . .		
ATOM 2004	O	O	. ASP ASP ASP A A 265 265 . 122.105 98.925 20.821 1.00
22.10	1 . . .		
ATOM 2005	N	N	. PRO PRO PRO A A 266 266 . 123.016 96.860 20.574 1.00
21.69	1 . . .		
ATOM 2006	CA	CA	. PRO PRO PRO A A 266 266 . 122.925 96.470 21.977 1.00
21.36	1 . . .		
ATOM 2007	CB	CB	. PRO PRO PRO A A 266 266 . 123.556 95.061 22.019 1.00
21.18	1 . . .		
ATOM 2008	CG	CG	. PRO PRO PRO A A 266 266 . 123.912 94.745 20.622 1.00
22.06	1 . . .		
ATOM 2009	CD	CD	. PRO PRO PRO A A 266 266 . 123.905 95.982 19.812 1.00
21.94	1 . . .		
ATOM 2010	C	C	. PRO PRO PRO A A 266 266 . 123.622 97.410 22.928 1.00
20.81	1 . . .		
ATOM 2011	O	O	. PRO PRO PRO A A 266 266 . 123.280 97.444 24.119 1.00
20.91	1 . . .		
ATOM 2012	N	N	. SER SER SER A A 267 267 . 124.574 98.189 22.423 1.00
21.59	1 . . .		
ATOM 2013	CA	CA	. SER SER SER A A 267 267 . 125.217 99.197 23.280 1.00
21.75	1 . . .		

ATOM 2014	CB	CB	. SER SER SER A A 267 267 .	126.317	99.988	22.548	1.00
22.47	1 . .						
ATOM 2015	OG	OG	. SER SER SER A A 267 267 .	125.836	101.187	21.978	1.00
24.67	1 . .						
ATOM 2016	C	C	. SER SER SER A A 267 267 .	124.182	100.144	23.940	1.00
21.26	1 . .						
ATOM 2017	O	O	. SER SER SER A A 267 267 .	124.418	100.671	25.015	1.00
22.09	1 . .						
ATOM 2018	N	N	. ARG ARG ARG A A 268 268 .	123.027	100.334	23.298	1.00
19.85	1 . .						
ATOM 2019	CA	CA	. ARG ARG ARG A A 268 268 .	122.036	101.259	23.814	1.00
17.39	1 . .						
ATOM 2020	CB	CB	. ARG ARG ARG A A 268 268 .	121.315	101.961	22.663	1.00
16.13	1 . .						
ATOM 2021	CG	CG	. ARG ARG ARG A A 268 268 .	120.161	101.152	22.126	1.00
16.69	1 . .						
ATOM 2022	CD	CD	. ARG ARG ARG A A 268 268 .	119.890	101.494	20.679	1.00
15.33	1 . .						
ATOM 2023	NE	NE	. ARG ARG ARG A A 268 268 .	119.010	100.480	20.103	1.00
14.44	1 . .						
ATOM 2024	CZ	CZ	. ARG ARG ARG A A 268 268 .	118.913	100.217	18.808	1.00
12.85	1 . .						
ATOM 2025	NH1	NH1	. ARG ARG ARG A A 268 268 .	118.104	99.236	18.373	1.00
14.18	1 . .						
ATOM 2026	NH2	NH2	. ARG ARG ARG A A 268 268 .	119.605	100.951	17.945	1.00
18.62	1 . .						
ATOM 2027	C	C	. ARG ARG ARG A A 268 268 .	121.037	100.613	24.770	1.00
17.04	1 . .						
ATOM 2028	O	O	. ARG ARG ARG A A 268 268 .	120.153	101.287	25.335	1.00
15.92	1 . .						
ATOM 2029	N	N	. TYR TYR TYR A A 269 269 .	121.174	99.309	24.989	1.00
16.52	1 . .						
ATOM 2030	CA	CA	. TYR TYR TYR A A 269 269 .	120.250	98.608	25.909	1.00
16.19	1 . .						
ATOM 2031	CB	CB	. TYR TYR TYR A A 269 269 .	120.416	97.104	25.808	1.00
16.25	1 . .						
ATOM 2032	CG	CG	. TYR TYR TYR A A 269 269 .	120.112	96.470	24.464	1.00
15.71	1 . .						
ATOM 2033	CD1	CD1	. TYR TYR TYR A A 269 269 .	119.615	97.201	23.366	1.00
14.36	1 . .						
ATOM 2034	CE1	CE1	. TYR TYR TYR A A 269 269 .	119.383	96.578	22.148	1.00
14.48	1 . .						
ATOM 2035	CZ	CZ	. TYR TYR TYR A A 269 269 .	119.561	95.206	22.024	1.00
16.62	1 . .						
ATOM 2036	OH	OH	. TYR TYR TYR A A 269 269 .	119.284	94.571	20.813	1.00
19.26	1 . .						
ATOM 2037	CE2	CE2	. TYR TYR TYR A A 269 269 .	120.045	94.469	23.095	1.00
16.27	1 . .						
ATOM 2038	CD2	CD2	. TYR TYR TYR A A 269 269 .	120.309	95.110	24.306	1.00
18.07	1 . .						
ATOM 2039	C	C	. TYR TYR TYR A A 269 269 .	120.406	99.034	27.370	1.00
14.40	1 . .						
ATOM 2040	O	O	. TYR TYR TYR A A 269 269 .	121.492	99.368	27.806	1.00
15.00	1 . .						



ATOM 2041	N	N	. ILE ILE ILE A A 270 270 . 119.318 99.011 28.117 1.00
13.00	1 . .		
ATOM 2042	CA	CA	. ILE ILE ILE A A 270 270 . 119.350 99.359 29.538 1.00
10.47	1 . .		
ATOM 2043	CB	CB	. ILE ILE ILE A A 270 270 . 118.555 100.710 29.881 1.00
11.26	1 . .		
ATOM 2044	CG1	CG1	. ILE ILE ILE A A 270 270 . 117.053 100.537 29.689 1.00
11.38	1 . .		
ATOM 2045	CD1	CD1	. ILE ILE ILE A A 270 270 . 116.148 101.684 30.254 1.00
12.89	1 . .		
ATOM 2046	CG2	CG2	. ILE ILE ILE A A 270 270 . 119.174 101.934 29.152 1.00
11.47	1 . .		
ATOM 2047	C	C	. ILE ILE ILE A A 270 270 . 118.815 98.212 30.396 1.00
10.68	1 . .		
ATOM 2048	O	O	. ILE ILE ILE A A 270 270 . 118.120 97.318 29.881 1.00
11.15	1 . .		
ATOM 2049	N	N	. THR THR THR A A 271 271 . 119.052 98.251 31.702 1.00
9.79	1 . .		
ATOM 2050	CA	CA	. THR THR THR A A 271 271 . 118.607 97.187 32.580 1.00
10.30	1 . .		
ATOM 2051	CB	CB	. THR THR THR A A 271 271 . 119.539 97.109 33.815 1.00
11.46	1 . .		
ATOM 2052	OG1	OG1	. THR THR THR A A 271 271 . 119.456 98.312 34.627 1.00
10.27	1 . .		
ATOM 2053	CG2	CG2	. THR THR THR A A 271 271 . 120.979 96.976 33.349 1.00
13.56	1 . .		
ATOM 2054	C	C	. THR THR THR A A 271 271 . 117.180 97.403 33.084 1.00
9.88	1 . .		
ATOM 2055	O	O	. THR THR THR A A 271 271 . 116.660 98.521 32.979 1.00
8.74	1 . .		
ATOM 2056	N	N	. GLY GLY GLY A A 272 272 . 116.595 96.346 33.685 1.00
9.36	1 . .		
ATOM 2057	CA	CA	. GLY GLY GLY A A 272 272 . 115.336 96.437 34.402 1.00
9.38	1 . .		
ATOM 2058	C	C	. GLY GLY GLY A A 272 272 . 115.387 97.572 35.421 1.00
11.57	1 . .		
ATOM 2059	O	O	. GLY GLY GLY A A 272 272 . 114.424 98.359 35.546 1.00
11.51	1 . .		
ATOM 2060	N	N	. ASP ASP ASP A A 273 273 . 116.486 97.679 36.171 1.00
11.01	1 . .		
ATOM 2061	CA	CA	. ASP ASP ASP A A 273 273 . 116.541 98.667 37.241 1.00
11.31	1 . .		
ATOM 2062	CB	CB	. ASP ASP ASP A A 273 273 . 117.817 98.566 38.104 1.00
11.61	1 . .		
ATOM 2063	CG	CG	. ASP ASP ASP A A 273 273 . 117.722 97.497 39.197 1.00
14.12	1 . .		
ATOM 2064	OD1	OD1	. ASP ASP ASP A A 273 273 . 116.654 96.902 39.389 1.00
21.06	1 . .		
ATOM 2065	OD2	OD2	. ASP ASP ASP A A 273 273 . 118.734 97.279 39.890 1.00
16.97	1 . .		
ATOM 2066	C	C	. ASP ASP ASP A A 273 273 . 116.519 100.091 36.616 1.00
10.14	1 . .		
ATOM 2067	O	O	. ASP ASP ASP A A 273 273 . 115.834 101.024 37.102 1.00
9.51	1 . .		

ATOM 2068	N	N	. GLN GLN GLN A A 274 274 .	117.343	100.263	35.573	1.00
10.53	1 . .						
ATOM 2069	CA	CA	. GLN GLN GLN A A 274 274 .	117.337	101.522	34.836	1.00
10.03	1 . .						
ATOM 2070	CB	CB	. GLN GLN GLN A A 274 274 .	118.391	101.513	33.721	1.00
11.04	1 . .						
ATOM 2071	CG	CG	. GLN GLN GLN A A 274 274 .	119.777	101.651	34.306	1.00
11.30	1 . .						
ATOM 2072	CD	CD	. GLN GLN GLN A A 274 274 .	120.858	101.428	33.308	1.00
12.58	1 . .						
ATOM 2073	OE1	OE1	. GLN GLN GLN A A 274 274 .	120.719	100.591	32.413	1.00
11.68	1 . .						
ATOM 2074	NE2	NE2	. GLN GLN GLN A A 274 274 .	121.985	102.170	33.457	1.00
10.86	1 . .						
ATOM 2075	C	C	. GLN GLN GLN A A 274 274 .	115.949	101.911	34.314	1.00
10.02	1 . .						
ATOM 2076	O	O	. GLN GLN GLN A A 274 274 .	115.564	103.072	34.399	1.00
9.80	1 . .						
ATOM 2077	N	N	. LEU LEU LEU A A 275 275 .	115.195	100.918	33.851	1.00
8.65	1 . .						
ATOM 2078	CA	CA	. LEU LEU LEU A A 275 275 .	113.856	101.170	33.314	1.00
9.25	1 . .						
ATOM 2079	CB	CB	. LEU LEU LEU A A 275 275 .	113.350	99.921	32.538	1.00
9.49	1 . .						
ATOM 2080	CG	CG	. LEU LEU LEU A A 275 275 .	111.994	99.948	31.800	1.00
9.59	1 . .						
ATOM 2081	CD1	CD1	. LEU LEU LEU A A 275 275 .	111.894	101.119	30.766	1.00
12.29	1 . .						
ATOM 2082	CD2	CD2	. LEU LEU LEU A A 275 275 .	111.745	98.658	31.114	1.00
7.99	1 . .						
ATOM 2083	C	C	. LEU LEU LEU A A 275 275 .	112.954	101.548	34.459	1.00
9.49	1 . .						
ATOM 2084	O	O	. LEU LEU LEU A A 275 275 .	112.178	102.513	34.356	1.00
8.84	1 . .						
ATOM 2085	N	N	. GLY GLY GLY A A 276 276 .	113.070	100.857	35.582	1.00
9.40	1 . .						
ATOM 2086	CA	CA	. GLY GLY GLY A A 276 276 .	112.214	101.216	36.721	1.00
7.31	1 . .						
ATOM 2087	C	C	. GLY GLY GLY A A 276 276 .	112.425	102.651	37.257	1.00
9.84	1 . .						
ATOM 2088	O	O	. GLY GLY GLY A A 276 276 .	111.444	103.385	37.605	1.00
9.42	1 . .						
ATOM 2089	N	N	. ALA ALA ALA A A 277 277 .	113.707	103.045	37.277	1.00
10.21	1 . .						
ATOM 2090	CA	CA	. ALA ALA ALA A A 277 277 .	114.097	104.393	37.690	1.00
10.25	1 . .						
ATOM 2091	CB	CB	. ALA ALA ALA A A 277 277 .	115.621	104.627	37.612	1.00
10.66	1 . .						
ATOM 2092	C	C	. ALA ALA ALA A A 277 277 .	113.419	105.359	36.751	1.00
10.98	1 . .						
ATOM 2093	O	O	. ALA ALA ALA A A 277 277 .	112.970	106.435	37.214	1.00
10.51	1 . .						
ATOM 2094	N	N	. LEU LEU LEU A A 278 278 .	113.375	105.009	35.453	1.00
8.88	1 . .						

ATOM 2095	CA	CA	. LEU LEU LEU A A 278 278 .	112.685	105.924	34.492	1.00
8.98	1 . .						
ATOM 2096	CB	CB	. LEU LEU LEU A A 278 278 .	112.866	105.480	33.019	1.00
7.89	1 . .						
ATOM 2097	CG	CG	. LEU LEU LEU A A 278 278 .	112.456	106.360	31.851	1.00
9.34	1 . .						
ATOM 2098	CD1	CD1	. LEU LEU LEU A A 278 278 .	112.969	107.771	32.084	1.00
8.78	1 . .						
ATOM 2099	CD2	CD2	. LEU LEU LEU A A 278 278 .	113.062	105.784	30.603	1.00
9.65	1 . .						
ATOM 2100	C	C	. LEU LEU LEU A A 278 278 .	111.228	106.104	34.842	1.00
8.87	1 . .						
ATOM 2101	O	O	. LEU LEU LEU A A 278 278 .	110.706	107.262	34.784	1.00
8.55	1 . .						
ATOM 2102	N	N	. TYR TYR TYR A A 279 279 .	110.556	104.997	35.166	1.00
7.39	1 . .						
ATOM 2103	CA	CA	. TYR TYR TYR A A 279 279 .	109.179	105.081	35.568	1.00
6.90	1 . .						
ATOM 2104	CB	CB	. TYR TYR TYR A A 279 279 .	108.485	103.706	35.791	1.00
6.65	1 . .						
ATOM 2105	CG	CG	. TYR TYR TYR A A 279 279 .	108.577	102.777	34.646	1.00
6.45	1 . .						
ATOM 2106	CD1	CD1	. TYR TYR TYR A A 279 279 .	108.430	103.256	33.316	1.00
5.89	1 . .						
ATOM 2107	CE1	CE1	. TYR TYR TYR A A 279 279 .	108.522	102.340	32.225	1.00
8.09	1 . .						
ATOM 2108	CZ	CZ	. TYR TYR TYR A A 279 279 .	108.739	100.955	32.541	1.00
5.12	1 . .						
ATOM 2109	OH	OH	. TYR TYR TYR A A 279 279 .	108.812	100.072	31.502	1.00
8.31	1 . .						
ATOM 2110	CE2	CE2	. TYR TYR TYR A A 279 279 .	108.917	100.517	33.846	1.00
5.22	1 . .						
ATOM 2111	CD2	CD2	. TYR TYR TYR A A 279 279 .	108.806	101.414	34.896	1.00
7.14	1 . .						
ATOM 2112	C	C	. TYR TYR TYR A A 279 279 .	109.039	106.020	36.805	1.00
8.19	1 . .						
ATOM 2113	O	O	. TYR TYR TYR A A 279 279 .	108.188	106.931	36.763	1.00
8.91	1 . .						
ATOM 2114	N	N	. GLN GLN GLN A A 280 280 .	109.877	105.825	37.836	1.00
9.03	1 . .						
ATOM 2115	CA	CA	. GLN GLN GLN A A 280 280 .	109.866	106.715	38.998	1.00
9.58	1 . .						
ATOM 2116	CB	CB	. GLN GLN GLN A A 280 280 .	110.973	106.311	39.973	1.00
10.87	1 . .						
ATOM 2117	CG	CG	. GLN GLN GLN A A 280 280 .	110.740	104.950	40.646	1.00
13.65	1 . .						
ATOM 2118	CD	CD	. GLN GLN GLN A A 280 280 .	109.523	104.903	41.583	1.00
13.74	1 . .						
ATOM 2119	OE1	OE1	. GLN GLN GLN A A 280 280 .	108.829	105.909	41.790	1.00
12.90	1 . .						
ATOM 2120	NE2	NE2	. GLN GLN GLN A A 280 280 .	109.276	103.739	42.173	1.00
15.02	1 . .						
ATOM 2121	C	C	. GLN GLN GLN A A 280 280 .	109.905	108.209	38.572	1.00
9.93	1 . .						

ATOM 2122	O	O	. GLN GLN GLN A A 280 280 .	109.066	109.011	39.005	1.00
7.63	1 . . .						
ATOM 2123	N	N	. ASP ASP ASP A A 281 281 .	110.826	108.559	37.682	1.00
10.42	1 . . .						
ATOM 2124	CA	CA	. ASP ASP ASP A A 281 281 .	110.892	109.903	37.107	1.00
10.48	1 . . .						
ATOM 2125	CB	CB	. ASP ASP ASP A A 281 281 .	112.094	110.063	36.155	1.00
11.28	1 . . .						
ATOM 2126	CG	CG	. ASP ASP ASP A A 281 281 .	113.435	110.045	36.876	1.00
14.53	1 . . .						
ATOM 2127	OD1	OD1	. ASP ASP ASP A A 281 281 .	113.466	109.838	38.086	1.00
21.14	1 . . .						
ATOM 2128	OD2	OD2	. ASP ASP ASP A A 281 281 .	114.485	110.244	36.210	1.00
19.93	1 . . .						
ATOM 2129	C	C	. ASP ASP ASP A A 281 281 .	109.550	110.302	36.458	1.00
10.52	1 . . .						
ATOM 2130	O	O	. ASP ASP ASP A A 281 281 .	109.004	111.359	36.764	1.00
8.98	1 . . .						
ATOM 2131	N	N	. PHE PHE PHE A A 282 282 .	108.939	109.412	35.667	1.00
9.48	1 . . .						
ATOM 2132	CA	CA	. PHE PHE PHE A A 282 282 .	107.670	109.771	35.051	1.00
8.95	1 . . .						
ATOM 2133	CB	CB	. PHE PHE PHE A A 282 282 .	107.224	108.664	34.109	1.00
9.27	1 . . .						
ATOM 2134	CG	CG	. PHE PHE PHE A A 282 282 .	108.146	108.430	32.934	1.00
7.84	1 . . .						
ATOM 2135	CD1	CD1	. PHE PHE PHE A A 282 282 .	107.943	107.328	32.093	1.00
9.41	1 . . .						
ATOM 2136	CE1	CE1	. PHE PHE PHE A A 282 282 .	108.754	107.123	30.974	1.00
10.81	1 . . .						
ATOM 2137	CZ	CZ	. PHE PHE PHE A A 282 282 .	109.758	108.004	30.660	1.00
11.13	1 . . .						
ATOM 2138	CE2	CE2	. PHE PHE PHE A A 282 282 .	109.985	109.106	31.506	1.00
11.85	1 . . .						
ATOM 2139	CD2	CD2	. PHE PHE PHE A A 282 282 .	109.163	109.306	32.611	1.00
9.01	1 . . .						
ATOM 2140	C	C	. PHE PHE PHE A A 282 282 .	106.552	110.038	36.069	1.00
9.00	1 . . .						
ATOM 2141	O	O	. PHE PHE PHE A A 282 282 .	105.715	110.941	35.884	1.00
10.71	1 . . .						
ATOM 2142	N	N	. VAL VAL VAL A A 283 283 .	106.506	109.231	37.117	1.00
8.41	1 . . .						
ATOM 2143	CA	CA	. VAL VAL VAL A A 283 283 .	105.531	109.355	38.182	1.00
9.75	1 . . .						
ATOM 2144	CB	CB	. VAL VAL VAL A A 283 283 .	105.605	108.108	39.079	1.00
10.51	1 . . .						
ATOM 2145	CG1	CG1	. VAL VAL VAL A A 283 283 .	104.702	108.211	40.256	1.00
10.91	1 . . .						
ATOM 2146	CG2	CG2	. VAL VAL VAL A A 283 283 .	105.230	106.871	38.208	1.00
11.20	1 . . .						
ATOM 2147	C	C	. VAL VAL VAL A A 283 283 .	105.716	110.639	38.987	1.00
10.77	1 . . .						
ATOM 2148	O	O	. VAL VAL VAL A A 283 283 .	104.747	111.234	39.431	1.00
10.00	1 . . .						

ATOM 2149	N	N	. ARG ARG ARG A A 284 284 .	106.954	111.086	39.117	1.00
11.62	1 . .						
ATOM 2150	CA	CA	. ARG ARG ARG A A 284 284 .	107.154	112.295	39.894	1.00
13.28	1 . .						
ATOM 2151	CB	CB	. ARG ARG ARG A A 284 284 .	108.443	112.320	40.721	1.00
14.24	1 . .						
ATOM 2152	CG	CG	. ARG ARG ARG A A 284 284 .	109.697	112.350	39.983	1.00
17.26	1 . .						
ATOM 2153	CD	CD	. ARG ARG ARG A A 284 284 .	110.629	113.471	40.484	1.00
18.40	1 . .						
ATOM 2154	NE	NE	. ARG ARG ARG A A 284 284 .	111.443	113.811	39.337	1.00
17.91	1 . .						
ATOM 2155	CZ	CZ	. ARG ARG ARG A A 284 284 .	112.609	113.251	39.062	1.00
20.49	1 . .						
ATOM 2156	NH1	NH1	. ARG ARG ARG A A 284 284 .	113.152	112.366	39.908	1.00
23.69	1 . .						
ATOM 2157	NH2	NH2	. ARG ARG ARG A A 284 284 .	113.232	113.573	37.943	1.00
19.26	1 . .						
ATOM 2158	C	C	. ARG ARG ARG A A 284 284 .	106.988	113.498	39.028	1.00
12.27	1 . .						
ATOM 2159	O	O	. ARG ARG ARG A A 284 284 .	106.538	114.516	39.504	1.00
12.11	1 . .						
ATOM 2160	N	N	. ASP ASP ASP A A 285 285 .	107.270	113.372	37.729	1.00
10.92	1 . .						
ATOM 2161	CA	CA	. ASP ASP ASP A A 285 285 .	107.279	114.547	36.883	1.00
10.16	1 . .						
ATOM 2162	CB	CB	. ASP ASP ASP A A 285 285 .	108.451	114.472	35.906	1.00
9.92	1 . .						
ATOM 2163	CG	CG	. ASP ASP ASP A A 285 285 .	109.809	114.545	36.587	1.00
13.62	1 . .						
ATOM 2164	OD1	OD1	. ASP ASP ASP A A 285 285 .	109.866	114.985	37.755	1.00
14.64	1 . .						
ATOM 2165	OD2	OD2	. ASP ASP ASP A A 285 285 .	110.835	114.155	35.941	1.00
16.03	1 . .						
ATOM 2166	C	C	. ASP ASP ASP A A 285 285 .	105.986	114.769	36.111	1.00
9.27	1 . .						
ATOM 2167	O	O	. ASP ASP ASP A A 285 285 .	105.778	115.859	35.535	1.00
11.45	1 . .						
ATOM 2168	N	N	. TYR TYR TYR A A 286 286 .	105.125	113.752	36.053	1.00
8.39	1 . .						
ATOM 2169	CA	CA	. TYR TYR TYR A A 286 286 .	103.881	113.858	35.261	1.00
7.25	1 . .						
ATOM 2170	CB	CB	. TYR TYR TYR A A 286 286 .	104.006	113.154	33.916	1.00
6.81	1 . .						
ATOM 2171	CG	CG	. TYR TYR TYR A A 286 286 .	105.066	113.793	33.040	1.00
7.54	1 . .						
ATOM 2172	CD1	CD1	. TYR TYR TYR A A 286 286 .	104.768	114.904	32.307	1.00
13.57	1 . .						
ATOM 2173	CE1	CE1	. TYR TYR TYR A A 286 286 .	105.720	115.531	31.499	1.00
15.68	1 . .						
ATOM 2174	CZ	CZ	. TYR TYR TYR A A 286 286 .	106.995	115.017	31.414	1.00
16.71	1 . .						
ATOM 2175	OH	OH	. TYR TYR TYR A A 286 286 .	107.928	115.648	30.605	1.00
20.03	1 . .						









ATOM 2257	O	O	. ASP ASP ASP A A	296 296	. 107.681 90.546	32.148	1.00
8.27	1 . .						
ATOM 2258	N	N	. GLN GLN GLN A A	297 297	. 106.926 89.991	30.072	1.00
6.57	1 . .						
ATOM 2259	CA	CA	. GLN GLN GLN A A	297 297	. 105.927 89.033	30.542	1.00
7.40	1 . .						
ATOM 2260	CB	CB	. GLN GLN GLN A A	297 297	. 105.210 88.365	29.323	1.00
5.31	1 . .						
ATOM 2261	CG	CG	. GLN GLN GLN A A	297 297	. 106.129 87.589	28.448	1.00
4.50	1 . .						
ATOM 2262	CD	CD	. GLN GLN GLN A A	297 297	. 105.751 87.686	26.963	1.00
2.20	1 . .						
ATOM 2263	OE1	OE1	. GLN GLN GLN A A	297 297	. 104.570 87.720	26.580	1.00
7.47	1 . .						
ATOM 2264	NE2	NE2	. GLN GLN GLN A A	297 297	. 106.774 87.812	26.122	1.00
6.09	1 . .						
ATOM 2265	C	C	. GLN GLN GLN A A	297 297	. 106.451 87.937	31.472	1.00
7.15	1 . .						
ATOM 2266	O	O	. GLN GLN GLN A A	297 297	. 105.639 87.323	32.209	1.00
10.65	1 . .						
ATOM 2267	N	N	. ASP ASP ASP A A	298 298	. 107.751 87.654	31.404	1.00
10.06	1 . .						
ATOM 2268	CA	CA	. ASP ASP ASP A A	298 298	. 108.366 86.617	32.284	1.00
11.23	1 . .						
ATOM 2269	CB	CB	. ASP ASP ASP A A	298 298	. 109.191 85.558	31.472	1.00
13.23	1 . .						
ATOM 2270	CG	CG	. ASP ASP ASP A A	298 298	. 108.348 84.624	30.642	1.00
14.77	1 . .						
ATOM 2271	OD1	OD1	. ASP ASP ASP A A	298 298	. 107.377 84.011	31.115	1.00
17.63	1 . .						
ATOM 2272	OD2	OD2	. ASP ASP ASP A A	298 298	. 108.712 84.509	29.462	1.00
21.67	1 . .						
ATOM 2273	C	C	. ASP ASP ASP A A	298 298	. 109.308 87.248	33.315	1.00
11.89	1 . .						
ATOM 2274	O	O	. ASP ASP ASP A A	298 298	. 110.015 86.497	34.022	1.00
9.29	1 . .						
ATOM 2275	N	N	. ASP ASP ASP A A	299 299	. 109.336 88.587	33.400	1.00
11.35	1 . .						
ATOM 2276	CA	CA	. ASP ASP ASP A A	299 299	. 110.334 89.264	34.253	1.00
12.40	1 . .						
ATOM 2277	CB	CB	. ASP ASP ASP A A	299 299	. 110.935 90.537	33.585	1.00
11.70	1 . .						
ATOM 2278	CG	CG	. ASP ASP ASP A A	299 299	. 112.115 91.157	34.387	1.00
13.59	1 . .						
ATOM 2279	OD1	OD1	. ASP ASP ASP A A	299 299	. 112.539 90.577	35.434	1.00
15.78	1 . .						
ATOM 2280	OD2	OD2	. ASP ASP ASP A A	299 299	. 112.649 92.233	33.906	1.00
10.22	1 . .						
ATOM 2281	C	C	. ASP ASP ASP A A	299 299	. 109.661 89.525	35.619	1.00
12.23	1 . .						
ATOM 2282	O	O	. ASP ASP ASP A A	299 299	. 109.549 90.679	36.077	1.00
12.89	1 . .						
ATOM 2283	N	N	. TRP TRP TRP A A	300 300	. 109.251 88.449	36.293	1.00
12.77	1 . .						



ATOM 2311	CD1	CD1	. TRP TRP TRP	A A 303 303	. 106.776 91.938	35.427	1.00
10.25	1 . .						
ATOM 2312	NE1	NE1	. TRP TRP TRP	A A 303 303	. 106.129 92.113	34.221	1.00
9.48	1 . .						
ATOM 2313	CE2	CE2	. TRP TRP TRP	A A 303 303	. 104.987 92.827	34.434	1.00
6.18	1 . .						
ATOM 2314	CD2	CD2	. TRP TRP TRP	A A 303 303	. 104.926 93.118	35.817	1.00
8.91	1 . .						
ATOM 2315	CE3	CE3	. TRP TRP TRP	A A 303 303	. 103.798 93.785	36.334	1.00
7.63	1 . .						
ATOM 2316	CZ3	CZ3	. TRP TRP TRP	A A 303 303	. 102.815 94.196	35.421	1.00
9.23	1 . .						
ATOM 2317	CH2	CH2	. TRP TRP TRP	A A 303 303	. 102.914 93.885	34.044	1.00
4.77	1 . .						
ATOM 2318	CZ2	CZ2	. TRP TRP TRP	A A 303 303	. 104.006 93.235	33.534	1.00
6.20	1 . .						
ATOM 2319	C	C	. TRP TRP TRP	A A 303 303	. 107.124 93.740	39.836	1.00
11.91	1 . .						
ATOM 2320	O	O	. TRP TRP TRP	A A 303 303	. 106.640 94.770	40.317	1.00
11.42	1 . .						
ATOM 2321	N	N	. SER SER SER	A A 304 304	. 107.454 92.683	40.588	1.00
12.51	1 . .						
ATOM 2322	CA	CA	. SER SER SER	A A 304 304	. 107.184 92.655	42.021	1.00
13.25	1 . .						
ATOM 2323	CB	CB	. SER SER SER	A A 304 304	. 107.569 91.283	42.606	1.00
14.72	1 . .						
ATOM 2324	OG	OG	. SER SER SER	A A 304 304	. 106.706 90.290	42.116	1.00
16.10	1 . .						
ATOM 2325	C	C	. SER SER SER	A A 304 304	. 107.956 93.762	42.769	1.00
13.81	1 . .						
ATOM 2326	O	O	. SER SER SER	A A 304 304	. 107.377 94.447	43.593	1.00
15.04	1 . .						
ATOM 2327	N	N	. LYS LYS LYS	A A 305 305	. 109.225 93.953	42.433	1.00
14.69	1 . .						
ATOM 2328	CA	CA	. LYS LYS LYS	A A 305 305	. 110.041 95.038	42.992	1.00
15.49	1 . .						
ATOM 2329	CB	CB	. LYS LYS LYS	A A 305 305	. 111.442 95.057	42.370	1.00
14.97	1 . .						
ATOM 2330	CG	CG	. LYS LYS LYS	A A 305 305	. 112.457 96.124	42.896	1.00
16.09	1 . .						
ATOM 2331	CD	CD	. LYS LYS LYS	A A 305 305	. 113.835 95.862	42.288	1.00
18.99	1 . .						
ATOM 2332	CE	CE	. LYS LYS LYS	A A 305 305	. 114.947 96.560	43.052	1.00
21.64	1 . .						
ATOM 2333	NZ	NZ	. LYS LYS LYS	A A 305 305	. 116.253 96.210	42.421	1.00
20.80	1 . .						
ATOM 2334	C	C	. LYS LYS LYS	A A 305 305	. 109.368 96.386	42.738	1.00
15.39	1 . .						
ATOM 2335	O	O	. LYS LYS LYS	A A 305 305	. 109.073 97.138	43.684	1.00
17.30	1 . .						
ATOM 2336	N	N	. PHE PHE PHE	A A 306 306	. 109.139 96.678	41.460	1.00
14.05	1 . .						
ATOM 2337	CA	CA	. PHE PHE PHE	A A 306 306	. 108.545 97.928	41.052	1.00
12.77	1 . .						



ATOM 2365	C	C	. ASN ASN ASN A A 309 309 .	107.048	101.878	44.792	1.00
14.24	1	. . .					
ATOM 2366	O	O	. ASN ASN ASN A A 309 309 .	107.603	102.986	44.608	1.00
17.09	1	. . .					
ATOM 2367	N	N	. VAL VAL VAL A A 310 310 .	105.813	101.632	44.418	1.00
13.13	1	. . .					
ATOM 2368	CA	CA	. VAL VAL VAL A A 310 310 .	104.998	102.757	43.903	1.00
11.51	1	. . .					
ATOM 2369	CB	CB	. VAL VAL VAL A A 310 310 .	104.762	102.691	42.374	1.00
11.55	1	. . .					
ATOM 2370	CG1	CG1	. VAL VAL VAL A A 310 310 .	106.066	102.819	41.579	1.00
13.62	1	. . .					
ATOM 2371	CG2	CG2	. VAL VAL VAL A A 310 310 .	103.959	101.444	41.977	1.00
9.57	1	. . .					
ATOM 2372	C	C	. VAL VAL VAL A A 310 310 .	103.632	102.690	44.508	1.00
11.60	1	. . .					
ATOM 2373	O	O	. VAL VAL VAL A A 310 310 .	103.181	101.612	44.970	1.00
14.17	1	. . .					
ATOM 2374	N	N	. GLY GLY GLY A A 311 311 .	102.937	103.827	44.457	1.00
11.68	1	. . .					
ATOM 2375	CA	CA	. GLY GLY GLY A A 311 311 .	101.567	103.905	44.936	1.00
10.58	1	. . .					
ATOM 2376	C	C	. GLY GLY GLY A A 311 311 .	100.537	103.927	43.829	1.00
9.55	1	. . .					
ATOM 2377	O	O	. GLY GLY GLY A A 311 311 .	99.345	104.089	44.114	1.00
10.58	1	. . .					
ATOM 2378	N	N	. ILE ILE ILE A A 312 312 .	100.973	103.796	42.591	1.00
7.88	1	. . .					
ATOM 2379	CA	CA	. ILE ILE ILE A A 312 312 .	100.010	103.855	41.471	1.00
7.02	1	. . .					
ATOM 2380	CB	CB	. ILE ILE ILE A A 312 312 .	100.639	104.586	40.291	1.00
7.86	1	. . .					
ATOM 2381	CG1	CG1	. ILE ILE ILE A A 312 312 .	101.923	103.898	39.847	1.00
8.09	1	. . .					
ATOM 2382	CD1	CD1	. ILE ILE ILE A A 312 312 .	102.132	104.067	38.339	1.00
10.12	1	. . .					
ATOM 2383	CG2	CG2	. ILE ILE ILE A A 312 312 .	101.009	106.040	40.730	1.00
6.53	1	. . .					
ATOM 2384	C	C	. ILE ILE ILE A A 312 312 .	99.431	102.512	41.034	1.00
6.62	1	. . .					
ATOM 2385	O	O	. ILE ILE ILE A A 312 312 .	99.827	101.512	41.598	1.00
6.57	1	. . .					
ATOM 2386	N	N	. GLN GLN GLN A A 313 313 .	98.572	102.535	39.997	1.00
5.00	1	. . .					
ATOM 2387	CA	CA	. GLN GLN GLN A A 313 313 .	98.007	101.342	39.360	1.00
5.13	1	. . .					
ATOM 2388	CB	CB	. GLN GLN GLN A A 313 313 .	96.785	101.746	38.539	1.00
4.17	1	. . .					
ATOM 2389	CG	CG	. GLN GLN GLN A A 313 313 .	96.267	100.547	37.794	1.00
3.84	1	. . .					
ATOM 2390	CD	CD	. GLN GLN GLN A A 313 313 .	94.881	100.663	37.392	1.00
2.83	1	. . .					
ATOM 2391	OE1	OE1	. GLN GLN GLN A A 313 313 .	93.977	100.215	38.103	1.00
4.84	1	. . .					









ATOM 2473 O	O	. PRO PRO PRO A A 324 324 .	94.847	82.419	37.592	1.00
11.00 1 . .						
ATOM 2474 N	N	. LYS LYS LYS A A 325 325 .	95.284	81.144	35.749	1.00
11.11 1 . .						
ATOM 2475 CA	CA	. LYS LYS LYS A A 325 325 .	96.547	80.508	36.204	1.00
12.16 1 . .						
ATOM 2476 CB	CB	. LYS LYS LYS A A 325 325 .	97.013	79.435	35.183	1.00
13.67 1 . .						
ATOM 2477 CG	CG	. LYS LYS LYS A A 325 325 .	98.454	78.899	35.362	1.00
17.85 1 . .						
ATOM 2478 CD	CD	. LYS LYS LYS A A 325 325 .	99.573	79.679	34.587	1.00
23.76 1 . .						
ATOM 2479 CE	CE	. LYS LYS LYS A A 325 325 .	100.967	79.500	35.202	1.00
25.19 1 . .						
ATOM 2480 NZ	NZ	. LYS LYS LYS A A 325 325 .	101.515	80.680	35.993	1.00
26.77 1 . .						
ATOM 2481 C	C	. LYS LYS LYS A A 325 325 .	97.668	81.556	36.395	1.00
10.22 1 . .						
ATOM 2482 O	O	. LYS LYS LYS A A 325 325 .	98.381	81.584	37.386	1.00
10.43 1 . .						
ATOM 2483 N	N	. ARG ARG ARG A A 326 326 .	97.793	82.454	35.418	1.00
8.30 1 . .						
ATOM 2484 CA	CA	. ARG ARG ARG A A 326 326 .	98.836	83.500	35.480	1.00
6.39 1 . .						
ATOM 2485 CB	CB	. ARG ARG ARG A A 326 326 .	99.030	84.186	34.078	1.00
7.99 1 . .						
ATOM 2486 CG	CG	. ARG ARG ARG A A 326 326 .	99.692	83.333	32.881	1.00
11.06 1 . .						
ATOM 2487 CD	CD	. ARG ARG ARG A A 326 326 .	100.810	84.185	32.141	1.00
16.34 1 . .						
ATOM 2488 NE	NE	. ARG ARG ARG A A 326 326 .	102.093	83.710	32.594	1.00
21.14 1 . .						
ATOM 2489 CZ	CZ	. ARG ARG ARG A A 326 326 .	103.259	84.324	32.571	1.00
22.47 1 . .						
ATOM 2490 NH1	NH1	. ARG ARG ARG A A 326 326 .	103.414	85.542	32.106	1.00
22.99 1 . .						
ATOM 2491 NH2	NH2	. ARG ARG ARG A A 326 326 .	104.304	83.661	33.036	1.00
26.22 1 . .						
ATOM 2492 C	C	. ARG ARG ARG A A 326 326 .	98.412	84.604	36.516	1.00
7.26 1 . .						
ATOM 2493 O	O	. ARG ARG ARG A A 326 326 .	99.234	85.142	37.225	1.00
6.70 1 . .						
ATOM 2494 N	N	. ILE ILE ILE A A 327 327 .	97.110	84.884	36.605	1.00
4.79 1 . .						
ATOM 2495 CA	CA	. ILE ILE ILE A A 327 327 .	96.610	85.911	37.529	1.00
7.05 1 . .						
ATOM 2496 CB	CB	. ILE ILE ILE A A 327 327 .	95.118	86.066	37.315	1.00
6.17 1 . .						
ATOM 2497 CG1	CG1	. ILE ILE ILE A A 327 327 .	94.901	86.687	35.931	1.00
3.28 1 . .						
ATOM 2498 CD1	CD1	. ILE ILE ILE A A 327 327 .	93.284	86.642	35.551	1.00
6.34 1 . .						
ATOM 2499 CG2	CG2	. ILE ILE ILE A A 327 327 .	94.375	86.896	38.379	1.00
6.76 1 . .						

ATOM 2500	C	C	. ILE ILE ILE A A 327 327 . 96.912 85.428 38.945 1.00
6.59	1 . . .		
ATOM 2501	O	O	. ILE ILE ILE A A 327 327 . 97.478 86.194 39.768 1.00
8.53	1 . . .		
ATOM 2502	N	N	. GLU GLU GLU A A 328 328 . 96.471 84.206 39.260 1.00
9.31	1 . . .		
ATOM 2503	CA	CA	. GLU GLU GLU A A 328 328 . 96.873 83.620 40.556 1.00
9.99	1 . . .		
ATOM 2504	CB	CB	. GLU GLU GLU A A 328 328 . 96.493 82.137 40.727 1.00
9.67	1 . . .		
ATOM 2505	CG	CG	. GLU GLU GLU A A 328 328 . 95.048 81.785 40.650 1.00
14.18	1 . . .		
ATOM 2506	CD	CD	. GLU GLU GLU A A 328 328 . 94.230 82.012 41.916 1.00
20.08	1 . . .		
ATOM 2507	OE1	OE1	. GLU GLU GLU A A 328 328 . 93.161 81.342 42.017 1.00
24.39	1 . . .		
ATOM 2508	OE2	OE2	. GLU GLU GLU A A 328 328 . 94.622 82.831 42.791 1.00
22.41	1 . . .		
ATOM 2509	C	C	. GLU GLU GLU A A 328 328 . 98.357 83.778 40.874 1.00
8.89	1 . . .		
ATOM 2510	O	O	. GLU GLU GLU A A 328 328 . 98.669 84.121 42.010 1.00
9.36	1 . . .		
ATOM 2511	N	N	. ARG ARG ARG A A 329 329 . 99.276 83.543 39.922 1.00
9.17	1 . . .		
ATOM 2512	CA	CA	. ARG ARG ARG A A 329 329 . 100.696 83.672 40.239 1.00
11.16	1 . . .		
ATOM 2513	CB	CB	. ARG ARG ARG A A 329 329 . 101.544 83.092 39.136 1.00
11.00	1 . . .		
ATOM 2514	CG	CG	. ARG ARG ARG A A 329 329 . 103.069 83.115 39.358 1.00
13.38	1 . . .		
ATOM 2515	CD	CD	. ARG ARG ARG A A 329 329 . 103.777 82.631 38.092 1.00
14.51	1 . . .		
ATOM 2516	NE	NE	. ARG ARG ARG A A 329 329 . 105.231 82.740 38.169 1.00
19.22	1 . . .		
ATOM 2517	CZ	CZ	. ARG ARG ARG A A 329 329 . 106.059 82.295 37.231 1.00
18.76	1 . . .		
ATOM 2518	NH1	NH1	. ARG ARG ARG A A 329 329 . 105.581 81.738 36.135 1.00
20.92	1 . . .		
ATOM 2519	NH2	NH2	. ARG ARG ARG A A 329 329 . 107.359 82.407 37.382 1.00
22.14	1 . . .		
ATOM 2520	C	C	. ARG ARG ARG A A 329 329 . 100.981 85.161 40.502 1.00
12.41	1 . . .		
ATOM 2521	O	O	. ARG ARG ARG A A 329 329 . 101.715 85.520 41.469 1.00
14.09	1 . . .		
ATOM 2522	N	N	. ALA ALA ALA A A 330 330 . 100.327 86.035 39.717 1.00
11.07	1 . . .		
ATOM 2523	CA	CA	. ALA ALA ALA A A 330 330 . 100.544 87.450 39.866 1.00
11.25	1 . . .		
ATOM 2524	CB	CB	. ALA ALA ALA A A 330 330 . 99.858 88.262 38.686 1.00
9.66	1 . . .		
ATOM 2525	C	C	. ALA ALA ALA A A 330 330 . 100.100 87.970 41.224 1.00
11.59	1 . . .		
ATOM 2526	O	O	. ALA ALA ALA A A 330 330 . 100.738 88.858 41.799 1.00
10.66	1 . . .		

ATOM 2527	N	N	. VAL VAL VAL A A 331 331 . 98.977 87.451 41.688 1.00
12.89	1 . .		
ATOM 2528	CA	CA	. VAL VAL VAL A A 331 331 . 98.448 87.782 43.019 1.00
13.92	1 . .		
ATOM 2529	CB	CB	. VAL VAL VAL A A 331 331 . 97.056 87.101 43.325 1.00
13.97	1 . .		
ATOM 2530	CG1	CG1	. VAL VAL VAL A A 331 331 . 96.722 87.218 44.838 1.00
14.94	1 . .		
ATOM 2531	CG2	CG2	. VAL VAL VAL A A 331 331 . 95.907 87.708 42.513 1.00
10.68	1 . .		
ATOM 2532	C	C	. VAL VAL VAL A A 331 331 . 99.415 87.366 44.121 1.00
16.39	1 . .		
ATOM 2533	O	O	. VAL VAL VAL A A 331 331 . 99.687 88.159 45.006 1.00
16.32	1 . .		
ATOM 2534	N	N	. GLU GLU GLU A A 332 332 . 99.928 86.139 44.045 1.00
17.75	1 . .		
ATOM 2535	CA	CA	. GLU GLU GLU A A 332 332 . 100.755 85.565 45.134 1.00
19.65	1 . .		
ATOM 2536	CB	CB	. GLU GLU GLU A A 332 332 . 101.003 84.047 44.944 1.00
20.51	1 . .		
ATOM 2537	CG	CG	. GLU GLU GLU A A 332 332 . 101.944 83.341 45.975 1.00
24.60	1 . .		
ATOM 2538	CD	CD	. GLU GLU GLU A A 332 332 . 101.415 83.307 47.436 1.00
29.50	1 . .		
ATOM 2539	OE1	OE1	. GLU GLU GLU A A 332 332 . 102.263 83.183 48.362 1.00
32.56	1 . .		
ATOM 2540	OE2	OE2	. GLU GLU GLU A A 332 332 . 100.174 83.374 47.670 1.00
28.92	1 . .		
ATOM 2541	C	C	. GLU GLU GLU A A 332 332 . 102.058 86.321 45.203 1.00
19.38	1 . .		
ATOM 2542	O	O	. GLU GLU GLU A A 332 332 . 102.606 86.548 46.297 1.00
19.52	1 . .		
ATOM 2543	N	N	. GLU GLU GLU A A 333 333 . 102.570 86.670 44.028 1.00
17.57	1 . .		
ATOM 2544	CA	CA	. GLU GLU GLU A A 333 333 . 103.832 87.362 43.923 1.00
15.79	1 . .		
ATOM 2545	CB	CB	. GLU GLU GLU A A 333 333 . 104.558 86.888 42.675 1.00
17.34	1 . .		
ATOM 2546	CG	CG	. GLU GLU GLU A A 333 333 . 104.803 85.371 42.740 1.00
19.48	1 . .		
ATOM 2547	CD	CD	. GLU GLU GLU A A 333 333 . 105.773 84.855 41.703 1.00
24.46	1 . .		
ATOM 2548	OE1	OE1	. GLU GLU GLU A A 333 333 . 105.379 84.003 40.870 1.00
26.15	1 . .		
ATOM 2549	OE2	OE2	. GLU GLU GLU A A 333 333 . 106.935 85.281 41.745 1.00
29.30	1 . .		
ATOM 2550	C	C	. GLU GLU GLU A A 333 333 . 103.702 88.908 43.982 1.00
14.26	1 . .		
ATOM 2551	O	O	. GLU GLU GLU A A 333 333 . 104.679 89.628 43.800 1.00
12.11	1 . .		
ATOM 2552	N	N	. LYS LYS LYS A A 334 334 . 102.496 89.396 44.251 1.00
11.75	1 . .		
ATOM 2553	CA	CA	. LYS LYS LYS A A 334 334 . 102.246 90.829 44.319 1.00
13.16	1 . .		

ATOM 2554	CB	CB	. LYS LYS LYS A A 334 334 .	102.907	91.422	45.567	1.00
12.81	1 . .						
ATOM 2555	CG	CG	. LYS LYS LYS A A 334 334 .	102.229	91.086	46.874	1.00
17.99	1 . .						
ATOM 2556	CD	CD	. LYS LYS LYS A A 334 334 .	100.767	91.119	46.650	1.00
22.01	1 . .						
ATOM 2557	CE	CE	. LYS LYS LYS A A 334 334 .	100.000	91.805	47.727	1.00
27.11	1 . .						
ATOM 2558	NZ	NZ	. LYS LYS LYS A A 334 334 .	98.575	91.834	47.331	1.00
26.27	1 . .						
ATOM 2559	C	C	. LYS LYS LYS A A 334 334 .	102.822	91.523	43.086	1.00
12.11	1 . .						
ATOM 2560	O	O	. LYS LYS LYS A A 334 334 .	103.543	92.537	43.199	1.00
13.42	1 . .						
ATOM 2561	N	N	. ALA ALA ALA A A 335 335 .	102.583	90.952	41.908	1.00
10.46	1 . .						
ATOM 2562	CA	CA	. ALA ALA ALA A A 335 335 .	103.310	91.462	40.748	1.00
9.84	1 . .						
ATOM 2563	CB	CB	. ALA ALA ALA A A 335 335 .	103.357	90.363	39.639	1.00
10.87	1 . .						
ATOM 2564	C	C	. ALA ALA ALA A A 335 335 .	102.719	92.770	40.170	1.00
8.14	1 . .						
ATOM 2565	O	O	. ALA ALA ALA A A 335 335 .	103.390	93.578	39.571	1.00
8.05	1 . .						
ATOM 2566	N	N	. CYS CYS CYS A A 336 336 .	101.413	92.865	40.259	1.00
7.26	1 . .						
ATOM 2567	CA	CA	. CYS CYS CYS A A 336 336 .	100.679	94.041	39.753	1.00
7.20	1 . .						
ATOM 2568	CB	CB	. CYS CYS CYS A A 336 336 .	100.292	93.841	38.312	1.00
7.31	1 . .						
ATOM 2569	SG	SG	. CYS CYS CYS A A 336 336 .	99.424	92.289	37.927	1.00
6.54	1 . .						
ATOM 2570	C	C	. CYS CYS CYS A A 336 336 .	99.396	94.166	40.573	1.00
6.64	1 . .						
ATOM 2571	O	O	. CYS CYS CYS A A 336 336 .	99.112	93.352	41.491	1.00
8.86	1 . .						
ATOM 2572	N	N	. ASN ASN ASN A A 337 337 .	98.617	95.209	40.300	1.00
5.91	1 . .						
ATOM 2573	CA	CA	. ASN ASN ASN A A 337 337 .	97.396	95.400	41.120	1.00
5.33	1 . .						
ATOM 2574	CB	CB	. ASN ASN ASN A A 337 337 .	97.680	96.452	42.238	1.00
6.30	1 . .						
ATOM 2575	CG	CG	. ASN ASN ASN A A 337 337 .	98.132	97.827	41.649	1.00
6.86	1 . .						
ATOM 2576	OD1	OD1	. ASN ASN ASN A A 337 337 .	99.015	98.553	42.209	1.00
10.44	1 . .						
ATOM 2577	ND2	ND2	. ASN ASN ASN A A 337 337 .	97.536	98.194	40.527	1.00
5.25	1 . .						
ATOM 2578	C	C	. ASN ASN ASN A A 337 337 .	96.175	95.727	40.277	1.00
4.29	1 . .						
ATOM 2579	O	O	. ASN ASN ASN A A 337 337 .	95.112	96.151	40.824	1.00
4.99	1 . .						
ATOM 2580	N	N	. CYS CYS CYS A A 338 338 .	96.328	95.422	38.970	1.00
3.43	1 . .						











ATOM 2689	N	N	. ILE ILE ILE	A A	353 353	. 84.926	86.526	32.167	1.00
3.80	1	. .							
ATOM 2690	CA	CA	. ILE ILE ILE	A A	353 353	. 84.117	86.919	33.348	1.00
4.34	1	. .							
ATOM 2691	CB	CB	. ILE ILE ILE	A A	353 353	. 82.659	86.526	33.201	1.00
3.48	1	. .							
ATOM 2692	CG1	CG1	. ILE ILE ILE	A A	353 353	. 82.007	87.332	32.023	1.00
3.34	1	. .							
ATOM 2693	CD1	CD1	. ILE ILE ILE	A A	353 353	. 80.561	87.121	31.860	1.00
6.87	1	. .							
ATOM 2694	CG2	CG2	. ILE ILE ILE	A A	353 353	. 81.882	86.835	34.540	1.00
4.70	1	. .							
ATOM 2695	C	C	. ILE ILE ILE	A A	353 353	. 84.770	86.306	34.622	1.00
4.45	1	. .							
ATOM 2696	O	O	. ILE ILE ILE	A A	353 353	. 84.934	87.025	35.653	1.00
6.13	1	. .							
ATOM 2697	N	N	. GLN GLN GLN	A A	354 354	. 85.186	85.047	34.550	1.00
5.35	1	. .							
ATOM 2698	CA	CA	. GLN GLN GLN	A A	354 354	. 85.903	84.415	35.693	1.00
4.81	1	. .							
ATOM 2699	CB	CB	. GLN GLN GLN	A A	354 354	. 86.170	82.938	35.416	1.00
5.60	1	. .							
ATOM 2700	CG	CG	. GLN GLN GLN	A A	354 354	. 84.958	82.049	35.581	1.00
12.07	1	. .							
ATOM 2701	CD	CD	. GLN GLN GLN	A A	354 354	. 85.082	80.674	34.884	1.00
14.00	1	. .							
ATOM 2702	OE1	OE1	. GLN GLN GLN	A A	354 354	. 84.113	79.910	34.859	1.00
18.83	1	. .							
ATOM 2703	NE2	NE2	. GLN GLN GLN	A A	354 354	. 86.256	80.367	34.319	1.00
16.29	1	. .							
ATOM 2704	C	C	. GLN GLN GLN	A A	354 354	. 87.219	85.137	35.985	1.00
4.54	1	. .							
ATOM 2705	O	O	. GLN GLN GLN	A A	354 354	. 87.535	85.301	37.135	1.00
4.46	1	. .							
ATOM 2706	N	N	. ALA ALA ALA	A A	355 355	. 87.957	85.611	34.955	1.00
3.75	1	. .							
ATOM 2707	CA	CA	. ALA ALA ALA	A A	355 355	. 89.233	86.272	35.176	1.00
4.40	1	. .							
ATOM 2708	CB	CB	. ALA ALA ALA	A A	355 355	. 89.951	86.532	33.897	1.00
4.70	1	. .							
ATOM 2709	C	C	. ALA ALA ALA	A A	355 355	. 89.015	87.585	35.931	1.00
2.54	1	. .							
ATOM 2710	O	O	. ALA ALA ALA	A A	355 355	. 89.781	87.922	36.850	1.00
3.62	1	. .							
ATOM 2711	N	N	. CYS CYS CYS	A A	356 356	. 88.032	88.349	35.442	1.00
3.47	1	. .							
ATOM 2712	CA	CA	. CYS CYS CYS	A A	356 356	. 87.639	89.596	36.021	1.00
3.12	1	. .							
ATOM 2713	CB	CB	. CYS CYS CYS	A A	356 356	. 86.448	90.175	35.243	1.00
2.66	1	. .							
ATOM 2714	SG	SG	. CYS CYS CYS	A A	356 356	. 85.808	91.765	35.953	1.00
4.12	1	. .							
ATOM 2715	C	C	. CYS CYS CYS	A A	356 356	. 87.332	89.404	37.511	1.00
3.15	1	. .							

ATOM 2716 O	O	. CYS CYS CYS A A 356 356 .	87.927	90.116	38.375	1.00
4.49 1 . .						
ATOM 2717 N	N	. LYS LYS LYS A A 357 357 .	86.433	88.429	37.793	1.00
5.25 1 . .						
ATOM 2718 CA	CA	. LYS LYS LYS A A 357 357 .	85.951	88.224	39.159	1.00
6.84 1 . .						
ATOM 2719 CB	CB	. LYS LYS LYS A A 357 357 .	84.810	87.223	39.229	1.00
6.29 1 . .						
ATOM 2720 CG	CG	. LYS LYS LYS A A 357 357 .	83.496	87.834	38.695	1.00
12.95 1 . .						
ATOM 2721 CD	CD	. LYS LYS LYS A A 357 357 .	82.325	86.877	38.681	1.00
16.98 1 . .						
ATOM 2722 CE	CE	. LYS LYS LYS A A 357 357 .	81.971	86.510	40.097	1.00
20.09 1 . .						
ATOM 2723 NZ	NZ	. LYS LYS LYS A A 357 357 .	80.568	86.110	40.155	1.00
24.36 1 . .						
ATOM 2724 C	C	. LYS LYS LYS A A 357 357 .	87.052	87.804	40.064	1.00
5.09 1 . .						
ATOM 2725 O	O	. LYS LYS LYS A A 357 357 .	87.063	88.253	41.228	1.00
6.98 1 . .						
ATOM 2726 N	N	. LEU LEU LEU A A 358 358 .	87.990	87.004	39.539	1.00
5.69 1 . .						
ATOM 2727 CA	CA	. LEU LEU LEU A A 358 358 .	89.189	86.585	40.277	1.00
5.62 1 . .						
ATOM 2728 CB	CB	. LEU LEU LEU A A 358 358 .	90.044	85.623	39.446	1.00
7.76 1 . .						
ATOM 2729 CG	CG	. LEU LEU LEU A A 358 358 .	91.259	85.015	40.107	1.00
7.67 1 . .						
ATOM 2730 CD1	CD1	. LEU LEU LEU A A 358 358 .	90.941	84.319	41.448	1.00
9.68 1 . .						
ATOM 2731 CD2	CD2	. LEU LEU LEU A A 358 358 .	92.046	84.053	39.132	1.00
7.04 1 . .						
ATOM 2732 C	C	. LEU LEU LEU A A 358 358 .	89.992	87.803	40.672	1.00
4.88 1 . .						
ATOM 2733 O	O	. LEU LEU LEU A A 358 358 .	90.419	87.972	41.838	1.00
6.22 1 . .						
ATOM 2734 N	N	. ALA ALA ALA A A 359 359 .	90.183	88.723	39.734	1.00
4.67 1 . .						
ATOM 2735 CA	CA	. ALA ALA ALA A A 359 359 .	91.018	89.883	40.014	1.00
5.92 1 . .						
ATOM 2736 CB	CB	. ALA ALA ALA A A 359 359 .	91.199	90.713	38.705	1.00
5.90 1 . .						
ATOM 2737 C	C	. ALA ALA ALA A A 359 359 .	90.313	90.723	41.098	1.00
6.39 1 . .						
ATOM 2738 O	O	. ALA ALA ALA A A 359 359 .	90.932	91.127	42.122	1.00
7.90 1 . .						
ATOM 2739 N	N	. GLN GLN GLN A A 360 360 .	88.998	90.891	40.920	1.00
5.19 1 . .						
ATOM 2740 CA	CA	. GLN GLN GLN A A 360 360 .	88.233	91.835	41.782	1.00
7.00 1 . .						
ATOM 2741 CB	CB	. GLN GLN GLN A A 360 360 .	86.832	92.155	41.273	1.00
6.81 1 . .						
ATOM 2742 CG	CG	. GLN GLN GLN A A 360 360 .	86.829	92.932	39.944	1.00
5.10 1 . .						

ATOM 2743	CD	CD	. GLN GLN GLN A A 360 360 .	85.444	93.088	39.377	1.00
5.88	1 . .						
ATOM 2744	OE1	OE1	. GLN GLN GLN A A 360 360 .	85.105	94.174	38.776	1.00
9.12	1 . .						
ATOM 2745	NE2	NE2	. GLN GLN GLN A A 360 360 .	84.675	91.986	39.389	1.00
5.26	1 . .						
ATOM 2746	C	C	. GLN GLN GLN A A 360 360 .	88.139	91.261	43.197	1.00
8.96	1 . .						
ATOM 2747	O	O	. GLN GLN GLN A A 360 360 .	88.228	92.024	44.157	1.00
9.56	1 . .						
ATOM 2748	N	N	. GLU GLU GLU A A 361 361 .	88.056	89.944	43.299	1.00
8.55	1 . .						
ATOM 2749	CA	CA	. GLU GLU GLU A A 361 361 .	88.047	89.279	44.602	1.00
10.48	1 . .						
ATOM 2750	CB	CB	. GLU GLU GLU A A 361 361 .	87.754	87.785	44.386	1.00
11.12	1 . .						
ATOM 2751	CG	CG	. GLU GLU GLU A A 361 361 .	86.295	87.420	44.154	1.00
16.04	1 . .						
ATOM 2752	CD	CD	. GLU GLU GLU A A 361 361 .	86.072	85.995	43.614	1.00
21.76	1 . .						
ATOM 2753	OE1	OE1	. GLU GLU GLU A A 361 361 .	87.039	85.183	43.559	1.00
22.26	1 . .						
ATOM 2754	OE2	OE2	. GLU GLU GLU A A 361 361 .	84.914	85.678	43.234	1.00
25.39	1 . .						
ATOM 2755	C	C	. GLU GLU GLU A A 361 361 .	89.420	89.446	45.322	1.00
10.44	1 . .						
ATOM 2756	O	O	. GLU GLU GLU A A 361 361 .	89.505	89.364	46.564	1.00
12.54	1 . .						
ATOM 2757	N	N	. ASN ASN ASN A A 362 362 .	90.484	89.657	44.571	1.00
9.06	1 . .						
ATOM 2758	CA	CA	. ASN ASN ASN A A 362 362 .	91.805	89.876	45.126	1.00
9.16	1 . .						
ATOM 2759	CB	CB	. ASN ASN ASN A A 362 362 .	92.885	89.046	44.396	1.00
9.39	1 . .						
ATOM 2760	CG	CG	. ASN ASN ASN A A 362 362 .	92.804	87.578	44.795	1.00
11.54	1 . .						
ATOM 2761	OD1	OD1	. ASN ASN ASN A A 362 362 .	93.340	87.203	45.829	1.00
12.94	1 . .						
ATOM 2762	ND2	ND2	. ASN ASN ASN A A 362 362 .	92.059	86.755	44.012	1.00
12.06	1 . .						
ATOM 2763	C	C	. ASN ASN ASN A A 362 362 .	92.174	91.368	45.332	1.00
8.27	1 . .						
ATOM 2764	O	O	. ASN ASN ASN A A 362 362 .	93.319	91.687	45.588	1.00
10.62	1 . .						
ATOM 2765	N	N	. GLY GLY GLY A A 363 363 .	91.175	92.254	45.256	1.00
7.49	1 . .						
ATOM 2766	CA	CA	. GLY GLY GLY A A 363 363 .	91.373	93.678	45.461	1.00
7.89	1 . .						
ATOM 2767	C	C	. GLY GLY GLY A A 363 363 .	92.031	94.391	44.298	1.00
8.66	1 . .						
ATOM 2768	O	O	. GLY GLY GLY A A 363 363 .	92.450	95.541	44.409	1.00
9.25	1 . .						
ATOM 2769	N	N	. TRP TRP TRP A A 364 364 .	92.153	93.714	43.152	1.00
5.93	1 . .						

























ATOM 3067	C	C	. LEU LEU LEU A A 403 403 .	83.221	104.575	18.649	1.00
2.08	1	. . .					
ATOM 3068	O	O	. LEU LEU LEU A A 403 403 .	82.283	104.885	19.416	1.00
2.17	1	. . .					
ATOM 3069	N	N	. ALA ALA ALA A A 404 404 .	83.189	103.456	17.925	1.00
2.00	1	. . .					
ATOM 3070	CA	CA	. ALA ALA ALA A A 404 404 .	81.987	102.626	18.063	1.00
2.01	1	. . .					
ATOM 3071	CB	CB	. ALA ALA ALA A A 404 404 .	82.026	101.417	17.115	1.00
2.24	1	. . .					
ATOM 3072	C	C	. ALA ALA ALA A A 404 404 .	81.727	102.190	19.516	1.00
2.10	1	. . .					
ATOM 3073	O	O	. ALA ALA ALA A A 404 404 .	80.584	102.229	19.985	1.00
2.12	1	. . .					
ATOM 3074	N	N	. LYS LYS LYS A A 405 405 .	82.808	101.893	20.210	1.00
2.09	1	. . .					
ATOM 3075	CA	CA	. LYS LYS LYS A A 405 405 .	82.644	101.537	21.647	1.00
2.11	1	. . .					
ATOM 3076	CB	CB	. LYS LYS LYS A A 405 405 .	83.928	100.935	22.177	1.00
2.19	1	. . .					
ATOM 3077	CG	CG	. LYS LYS LYS A A 405 405 .	84.202	99.488	21.764	1.00
2.65	1	. . .					
ATOM 3078	CD	CD	. LYS LYS LYS A A 405 405 .	84.588	99.345	20.282	1.00
3.21	1	. . .					
ATOM 3079	CE	CE	. LYS LYS LYS A A 405 405 .	85.333	98.024	20.072	1.00
3.99	1	. . .					
ATOM 3080	NZ	NZ	. LYS LYS LYS A A 405 405 .	85.478	97.742	18.559	1.00
2.37	1	. . .					
ATOM 3081	C	C	. LYS LYS LYS A A 405 405 .	82.262	102.761	22.497	1.00
2.00	1	. . .					
ATOM 3082	O	O	. LYS LYS LYS A A 405 405 .	81.408	102.694	23.375	1.00
2.00	1	. . .					
ATOM 3083	N	N	. TYR TYR TYR A A 406 406 .	82.996	103.871	22.281	1.00
2.13	1	. . .					
ATOM 3084	CA	CA	. TYR TYR TYR A A 406 406 .	82.741	105.053	23.090	1.00
2.08	1	. . .					
ATOM 3085	CB	CB	. TYR TYR TYR A A 406 406 .	83.788	106.140	22.813	1.00
2.74	1	. . .					
ATOM 3086	CG	CG	. TYR TYR TYR A A 406 406 .	85.145	105.812	23.277	1.00
2.00	1	. . .					
ATOM 3087	CD1	CD1	. TYR TYR TYR A A 406 406 .	85.427	105.416	24.601	1.00
2.12	1	. . .					
ATOM 3088	CE1	CE1	. TYR TYR TYR A A 406 406 .	86.728	105.115	25.004	1.00
2.00	1	. . .					
ATOM 3089	CZ	CZ	. TYR TYR TYR A A 406 406 .	87.783	105.189	24.111	1.00
2.54	1	. . .					
ATOM 3090	OH	OH	. TYR TYR TYR A A 406 406 .	89.070	104.890	24.528	1.00
2.30	1	. . .					
ATOM 3091	CE2	CE2	. TYR TYR TYR A A 406 406 .	87.527	105.614	22.783	1.00
2.40	1	. . .					
ATOM 3092	CD2	CD2	. TYR TYR TYR A A 406 406 .	86.256	105.901	22.372	1.00
2.28	1	. . .					
ATOM 3093	C	C	. TYR TYR TYR A A 406 406 .	81.275	105.558	22.883	1.00
2.00	1	. . .					







ATOM 3148	CA	CA	. GLU GLU GLU A A	413 413	. 74.614	105.927	29.973	1.00
2.50	1 . .							
ATOM 3149	CB	CB	. GLU GLU GLU A A	413 413	. 75.759	106.948	29.999	1.00
2.24	1 . .							
ATOM 3150	CG	CG	. GLU GLU GLU A A	413 413	. 75.642	108.021	31.140	1.00
3.89	1 . .							
ATOM 3151	CD	CD	. GLU GLU GLU A A	413 413	. 76.763	108.886	31.160	1.00
4.27	1 . .							
ATOM 3152	OE1	OE1	. GLU GLU GLU A A	413 413	. 76.907	109.623	30.151	1.00
5.19	1 . .							
ATOM 3153	OE2	OE2	. GLU GLU GLU A A	413 413	. 77.545	108.809	32.135	1.00
8.43	1 . .							
ATOM 3154	C	C	. GLU GLU GLU A A	413 413	. 73.229	106.582	29.840	1.00
3.26	1 . .							
ATOM 3155	O	O	. GLU GLU GLU A A	413 413	. 72.460	106.741	30.853	1.00
5.58	1 . .							
ATOM 3156	N	N	. GLU GLU GLU A A	414 414	. 72.840	106.910	28.604	1.00
3.85	1 . .							
ATOM 3157	CA	CA	. GLU GLU GLU A A	414 414	. 71.536	107.437	28.303	1.00
6.92	1 . .							
ATOM 3158	CB	CB	. GLU GLU GLU A A	414 414	. 71.408	107.690	26.787	1.00
6.69	1 . .							
ATOM 3159	CG	CG	. GLU GLU GLU A A	414 414	. 70.214	108.417	26.329	1.00
11.57	1 . .							
ATOM 3160	CD	CD	. GLU GLU GLU A A	414 414	. 70.356	108.662	24.844	1.00
15.06	1 . .							
ATOM 3161	OE1	OE1	. GLU GLU GLU A A	414 414	. 71.331	109.320	24.433	1.00
15.67	1 . .							
ATOM 3162	OE2	OE2	. GLU GLU GLU A A	414 414	. 69.517	108.134	24.125	1.00
18.52	1 . .							
ATOM 3163	C	C	. GLU GLU GLU A A	414 414	. 70.447	106.491	28.736	1.00
7.87	1 . .							
ATOM 3164	O	O	. GLU GLU GLU A A	414 414	. 69.465	106.908	29.322	1.00
10.95	1 . .							
ATOM 3165	N	N	. GLU GLU GLU A A	415 415	. 70.674	105.207	28.531	1.00
7.61	1 . .							
ATOM 3166	CA	CA	. GLU GLU GLU A A	415 415	. 69.642	104.193	28.808	1.00
8.94	1 . .							
ATOM 3167	CB	CB	. GLU GLU GLU A A	415 415	. 70.031	102.862	28.164	1.00
10.67	1 . .							
ATOM 3168	CG	CG	. GLU GLU GLU A A	415 415	. 69.143	101.635	28.487	1.00
15.51	1 . .							
ATOM 3169	CD	CD	. GLU GLU GLU A A	415 415	. 67.785	101.753	27.908	1.00
22.84	1 . .							
ATOM 3170	OE1	OE1	. GLU GLU GLU A A	415 415	. 66.804	101.782	28.694	1.00
27.04	1 . .							
ATOM 3171	OE2	OE2	. GLU GLU GLU A A	415 415	. 67.672	101.809	26.667	1.00
25.26	1 . .							
ATOM 3172	C	C	. GLU GLU GLU A A	415 415	. 69.443	103.991	30.302	1.00
8.36	1 . .							
ATOM 3173	O	O	. GLU GLU GLU A A	415 415	. 68.331	103.664	30.742	1.00
11.57	1 . .							
ATOM 3174	N	N	. LEU LEU LEU A A	416 416	. 70.552	104.094	31.050	1.00
8.89	1 . .							

ATOM 3175	CA	CA	. LEU LEU LEU A A	416 416	. 70.508	103.946	32.524	1.00
10.59	1 . .							
ATOM 3176	CB	CB	. LEU LEU LEU A A	416 416	. 71.890	103.537	33.099	1.00
8.64	1 . .							
ATOM 3177	CG	CG	. LEU LEU LEU A A	416 416	. 72.460	102.159	32.786	1.00
8.63	1 . .							
ATOM 3178	CD1	CD1	. LEU LEU LEU A A	416 416	. 73.948	102.123	33.184	1.00
12.93	1 . .							
ATOM 3179	CD2	CD2	. LEU LEU LEU A A	416 416	. 71.633	101.079	33.490	1.00
13.93	1 . .							
ATOM 3180	C	C	. LEU LEU LEU A A	416 416	. 69.881	105.190	33.238	1.00
13.74	1 . .							
ATOM 3181	O	O	. LEU LEU LEU A A	416 416	. 69.295	105.107	34.347	1.00
14.44	1 . .							
ATOM 3182	N	N	. GLY GLY GLY A A	417 417	. 70.040	106.366	32.631	1.00
16.35	1 . .							
ATOM 3183	CA	CA	. GLY GLY GLY A A	417 417	. 69.500	107.618	33.191	1.00
21.79	1 . .							
ATOM 3184	C	C	. GLY GLY GLY A A	417 417	. 70.032	107.929	34.567	1.00
24.73	1 . .							
ATOM 3185	O	O	. GLY GLY GLY A A	417 417	. 71.203	107.736	34.804	1.00
26.22	1 . .							
ATOM 3186	N	N	. ASP ASP ASP A A	418 418	. 69.167	108.353	35.499	1.00
27.81	1 . .							
ATOM 3187	CA	CA	. ASP ASP ASP A A	418 418	. 69.557	108.537	36.921	1.00
30.05	1 . .							
ATOM 3188	CB	CB	. ASP ASP ASP A A	418 418	. 68.393	109.083	37.749	1.00
30.74	1 . .							
ATOM 3189	CG	CG	. ASP ASP ASP A A	418 418	. 68.592	110.526	38.155	1.00
33.96	1 . .							
ATOM 3190	OD1	OD1	. ASP ASP ASP A A	418 418	. 68.504	110.814	39.371	1.00
35.20	1 . .							
ATOM 3191	OD2	OD2	. ASP ASP ASP A A	418 418	. 68.832	111.371	37.260	1.00
37.68	1 . .							
ATOM 3192	C	C	. ASP ASP ASP A A	418 418	. 70.116	107.320	37.649	1.00
29.95	1 . .							
ATOM 3193	O	O	. ASP ASP ASP A A	418 418	. 70.574	107.431	38.788	1.00
31.62	1 . .							
ATOM 3194	N	N	. GLU GLU GLU A A	419 419	. 70.061	106.157	37.020	1.00
29.76	1 . .							
ATOM 3195	CA	CA	. GLU GLU GLU A A	419 419	. 70.689	104.972	37.574	1.00
29.19	1 . .							
ATOM 3196	CB	CB	. GLU GLU GLU A A	419 419	. 69.972	103.734	37.083	1.00
29.84	1 . .							
ATOM 3197	CG	CG	. GLU GLU GLU A A	419 419	. 70.380	102.452	37.747	1.00
33.97	1 . .							
ATOM 3198	CD	CD	. GLU GLU GLU A A	419 419	. 69.426	101.354	37.389	1.00
39.74	1 . .							
ATOM 3199	OE1	OE1	. GLU GLU GLU A A	419 419	. 69.875	100.332	36.790	1.00
41.63	1 . .							
ATOM 3200	OE2	OE2	. GLU GLU GLU A A	419 419	. 68.216	101.535	37.679	1.00
40.35	1 . .							
ATOM 3201	C	C	. GLU GLU GLU A A	419 419	. 72.151	104.936	37.115	1.00
27.12	1 . .							

ATOM 3202 O	O	. GLU GLU GLU A A 419 419 . 72.929 104.122 37.573 1.00
25.91 1 . .		
ATOM 3203 N	N	. ALA ALA ALA A A 420 420 . 72.512 105.809 36.175 1.00
24.85 1 . .		
ATOM 3204 CA	CA	. ALA ALA ALA A A 420 420 . 73.904 105.886 35.750 1.00
22.56 1 . .		
ATOM 3205 CB	CB	. ALA ALA ALA A A 420 420 . 74.035 106.646 34.401 1.00
22.43 1 . .		
ATOM 3206 C	C	. ALA ALA ALA A A 420 420 . 74.789 106.505 36.847 1.00
21.04 1 . .		
ATOM 3207 O	O	. ALA ALA ALA A A 420 420 . 74.476 107.570 37.384 1.00
22.65 1 . .		
ATOM 3208 N	N	. ARG ARG ARG A A 421 421 . 75.845 105.805 37.249 1.00
18.85 1 . .		
ATOM 3209 CA	CA	. ARG ARG ARG A A 421 421 . 76.893 106.425 38.124 1.00
13.40 1 . .		
ATOM 3210 CB	CB	. ARG ARG ARG A A 421 421 . 77.000 105.775 39.519 1.00
15.38 1 . .		
ATOM 3211 CG	CG	. ARG ARG ARG A A 421 421 . 75.811 105.914 40.476 1.00
16.13 1 . .		
ATOM 3212 CD	CD	. ARG ARG ARG A A 421 421 . 75.895 107.177 41.278 1.00
23.03 1 . .		
ATOM 3213 NE	NE	. ARG ARG ARG A A 421 421 . 74.585 107.745 41.637 1.00
28.44 1 . .		
ATOM 3214 CZ	CZ	. ARG ARG ARG A A 421 421 . 73.410 107.114 41.570 1.00
30.26 1 . .		
ATOM 3215 NH1	NH1	. ARG ARG ARG A A 421 421 . 73.338 105.847 41.176 1.00
31.24 1 . .		
ATOM 3216 NH2	NH2	. ARG ARG ARG A A 421 421 . 72.295 107.758 41.906 1.00
31.74 1 . .		
ATOM 3217 C	C	. ARG ARG ARG A A 421 421 . 78.227 106.232 37.374 1.00
9.64 1 . .		
ATOM 3218 O	O	. ARG ARG ARG A A 421 421 . 78.539 105.131 36.903 1.00
10.54 1 . .		
ATOM 3219 N	N	. PHE PHE PHE A A 422 422 . 79.012 107.290 37.308 1.00
5.39 1 . .		
ATOM 3220 CA	CA	. PHE PHE PHE A A 422 422 . 80.309 107.310 36.702 1.00
4.09 1 . .		
ATOM 3221 CB	CB	. PHE PHE PHE A A 422 422 . 80.454 108.720 36.069 1.00
2.44 1 . .		
ATOM 3222 CG	CG	. PHE PHE PHE A A 422 422 . 81.709 108.970 35.364 1.00
3.40 1 . .		
ATOM 3223 CD1	CD1	. PHE PHE PHE A A 422 422 . 82.054 108.235 34.225 1.00
2.75 1 . .		
ATOM 3224 CE1	CE1	. PHE PHE PHE A A 422 422 . 83.245 108.515 33.562 1.00
2.77 1 . .		
ATOM 3225 CZ	CZ	. PHE PHE PHE A A 422 422 . 84.102 109.450 34.084 1.00
4.18 1 . .		
ATOM 3226 CE2	CE2	. PHE PHE PHE A A 422 422 . 83.751 110.188 35.210 1.00
2.21 1 . .		
ATOM 3227 CD2	CD2	. PHE PHE PHE A A 422 422 . 82.556 109.976 35.790 1.00
2.49 1 . .		
ATOM 3228 C	C	. PHE PHE PHE A A 422 422 . 81.364 107.009 37.741 1.00
3.43 1 . .		





ATOM 3283	OD1	OD1	. ASN ASN ASN A A 429 429 . 88.911 103.431 44.014 1.00
19.66	1 . .		
ATOM 3284	ND2	ND2	. ASN ASN ASN A A 429 429 . 87.855 102.862 45.894 1.00
18.20	1 . .		
ATOM 3285	C	C	. ASN ASN ASN A A 429 429 . 86.128 101.168 42.938 1.00
11.00	1 . .		
ATOM 3286	O	O	. ASN ASN ASN A A 429 429 . 85.691 101.765 43.905 1.00
10.67	1 . .		
ATOM 3287	N	N	. PRO PRO PRO A A 430 430 . 85.353 100.974 41.832 1.00
9.46	1 . .		
ATOM 3288	CA	CA	. PRO PRO PRO A A 430 430 . 84.043 101.600 41.821 1.00
11.29	1 . .		
ATOM 3289	CB	CB	. PRO PRO PRO A A 430 430 . 83.602 101.490 40.356 1.00
11.86	1 . .		
ATOM 3290	CG	CG	. PRO PRO PRO A A 430 430 . 84.368 100.438 39.779 1.00
11.14	1 . .		
ATOM 3291	CD	CD	. PRO PRO PRO A A 430 430 . 85.651 100.299 40.544 1.00
10.34	1 . .		
ATOM 3292	C	C	. PRO PRO PRO A A 430 430 . 82.943 101.014 42.693 1.00
12.30	1 . .		
ATOM 3293	O	O	. PRO PRO PRO A A 430 430 . 81.853 101.607 42.745 1.00
10.64	1 . .		
ATOM 3294	N	N	. SER SER SER A A 431 431 . 83.202 99.890 43.353 1.00
13.49	1 . .		
ATOM 3295	CA	CA	. SER SER SER A A 431 431 . 82.121 99.265 44.164 1.00
15.48	1 . .		
ATOM 3296	CB	CB	. SER SER SER A A 431 431 . 82.571 97.927 44.737 1.00
16.02	1 . .		
ATOM 3297	OG	OG	. SER SER SER A A 431 431 . 83.762 98.116 45.498 1.00
17.76	1 . .		
ATOM 3298	C	C	. SER SER SER A A 431 431 . 81.662 100.207 45.296 1.00
16.11	1 . .		
ATOM 3299	O	O	. SER SER SER A A 431 431 . 80.552 100.066 45.862 1.00
17.98	1 . .		
ATOM 3300	N	N	. VAL VAL VAL A A 432 432 . 82.508 101.177 45.628 1.00
16.00	1 . .		
ATOM 3301	CA	CA	. VAL VAL VAL A A 432 432 . 82.234 102.094 46.749 1.00
15.30	1 . .		
ATOM 3302	CB	CB	. VAL VAL VAL A A 432 432 . 83.523 102.748 47.319 1.00
15.62	1 . .		
ATOM 3303	CG1	CG1	. VAL VAL VAL A A 432 432 . 84.549 101.644 47.546 1.00
16.06	1 . .		
ATOM 3304	CG2	CG2	. VAL VAL VAL A A 432 432 . 84.037 103.896 46.433 1.00
12.78	1 . .		
ATOM 3305	C	C	. VAL VAL VAL A A 432 432 . 81.169 103.131 46.517 1.00
15.73	1 . .		
ATOM 3306	O	O	. VAL VAL VAL A A 432 432 . 80.743 103.801 47.467 1.00
14.71	1 . .		
ATOM 3307	N	N	. LEU LEU LEU A A 433 433 . 80.755 103.286 45.254 1.00
15.21	1 . .		
ATOM 3308	CA	CA	. LEU LEU LEU A A 433 433 . 79.732 104.253 44.894 1.00
16.14	1 . .		
ATOM 3309	CB	CB	. LEU LEU LEU A A 433 433 . 79.980 104.824 43.476 1.00
15.54	1 . .		

ATOM 3310	CG	CG	. LEU LEU LEU A A	433 433	. 81.338	105.446	43.136	1.00
14.40	1	. .						
ATOM 3311	CD1	CD1	. LEU LEU LEU A A	433 433	. 81.455	105.794	41.660	1.00
12.70	1	. .						
ATOM 3312	CD2	CD2	. LEU LEU LEU A A	433 433	. 81.630	106.694	43.964	1.00
13.86	1	. .						
ATOM 3313	C	C	. LEU LEU LEU A A	433 433	. 78.317	103.626	44.967	1.00
16.15	1	. .						
ATOM 3314	O	O	. LEU LEU LEU A A	433 433	. 78.110	102.441	44.625	1.00
18.55	1	. .						
ATOM 3315	MG+2	MG+2	. MG2 MG2 MG2 A .	600 600	. 99.107	96.133	26.467	1.00
2.34	1	. .						
ATOM 3316	MG+2	MG+2	. MG2 MG2 MG2 A .	601 601	. 99.993	93.975	23.430	1.00
2.63	1	. .						
ATOM 3317	O4P	O4P	. 2PG 2PG 2PG A .	602 602	. 96.108	94.576	20.903	1.00
2.90	1	. .						
ATOM 3318	P	P	. 2PG 2PG 2PG A .	602 602	. 97.574	94.869	21.211	1.00
2.00	1	. .						
ATOM 3319	O2P	O2P	. 2PG 2PG 2PG A .	602 602	. 98.459	95.051	19.981	1.00
2.68	1	. .						
ATOM 3320	O3P	O3P	. 2PG 2PG 2PG A .	602 602	. 98.317	93.935	22.163	1.00
2.09	1	. .						
ATOM 3321	O1P	O1P	. 2PG 2PG 2PG A .	602 602	. 97.654	96.288	22.020	1.00
2.71	1	. .						
ATOM 3322	C2	C2	. 2PG 2PG 2PG A .	602 602	. 96.987	96.177	23.300	1.00
5.74	1	. .						
ATOM 3323	C1	C1	. 2PG 2PG 2PG A .	602 602	. 97.917	96.121	24.498	1.00
6.43	1	. .						
ATOM 3324	O2	O2	. 2PG 2PG 2PG A .	602 602	. 97.404	96.494	25.597	1.00
4.60	1	. .						
ATOM 3325	O1	O1	. 2PG 2PG 2PG A .	602 602	. 99.168	95.717	24.415	1.00
3.55	1	. .						
ATOM 3326	C3	C3	. 2PG 2PG 2PG A .	602 602	. 95.748	97.119	23.355	1.00
8.89	1	. .						
ATOM 3327	O3	O3	. 2PG 2PG 2PG A .	602 602	. 96.071	98.441	22.983	1.00
7.87	1	. .						
ATOM 3328	O	O	. HOH HOH HOH A .	603 603	. 101.096	95.783	26.894	1.00
2.43	1	. .						
ATOM 3329	O	O	. HOH HOH HOH A .	604 604	. 101.659	94.131	24.582	1.00
2.86	1	. .						
ATOM 3330	O	O	. HOH HOH HOH A .	605 605	. 98.911	92.643	24.763	1.00
2.74	1	. .						
ATOM 3331	O3	O3	. TRS TRS TRS A .	606 606	. 107.389	90.915	20.068	1.00
24.51	1	. .						
ATOM 3332	C3	C3	. TRS TRS TRS A .	606 606	. 107.341	89.503	20.105	1.00
23.78	1	. .						
ATOM 3333	C	C	. TRS TRS TRS A .	606 606	. 106.306	89.068	21.124	1.00
22.20	1	. .						
ATOM 3334	N	N	. TRS TRS TRS A .	606 606	. 105.013	89.734	20.760	1.00
21.89	1	. .						
ATOM 3335	C2	C2	. TRS TRS TRS A .	606 606	. 106.280	87.517	21.119	1.00
23.17	1	. .						
ATOM 3336	O2	O2	. TRS TRS TRS A .	606 606	. 105.327	86.975	20.245	1.00
21.89	1	. .						





ATOM 3364	CB	CB	. LYS LYS LYS B B 4 4	. 59.824	107.071	19.764	1.00
9.35	1 . .						
ATOM 3365	CG	CG	. LYS LYS LYS B B 4 4	. 60.491	108.035	20.738	1.00
13.83	1 . .						
ATOM 3366	CD	CD	. LYS LYS LYS B B 4 4	. 60.979	107.317	22.003	1.00
17.98	1 . .						
ATOM 3367	CE	CE	. LYS LYS LYS B B 4 4	. 61.583	108.252	23.031	1.00
22.35	1 . .						
ATOM 3368	NZ	NZ	. LYS LYS LYS B B 4 4	. 63.092	108.281	23.004	1.00
27.13	1 . .						
ATOM 3369	C	C	. LYS LYS LYS B B 4 4	. 60.522	108.109	17.703	1.00
10.70	1 . .						
ATOM 3370	O	O	. LYS LYS LYS B B 4 4	. 61.025	107.195	17.074	1.00
11.15	1 . .						
ATOM 3371	N	N	. ILE ILE ILE B B 5 5	. 60.986	109.373	17.743	1.00
8.95	1 . .						
ATOM 3372	CA	CA	. ILE ILE ILE B B 5 5	. 62.281	109.724	17.160	1.00
7.67	1 . .						
ATOM 3373	CB	CB	. ILE ILE ILE B B 5 5	. 62.164	110.655	16.005	1.00
8.38	1 . .						
ATOM 3374	CG1	CG1	. ILE ILE ILE B B 5 5	. 61.605	109.883	14.804	1.00
6.03	1 . .						
ATOM 3375	CD1	CD1	. ILE ILE ILE B B 5 5	. 61.044	110.742	13.702	1.00
9.92	1 . .						
ATOM 3376	CG2	CG2	. ILE ILE ILE B B 5 5	. 63.527	111.136	15.681	1.00
8.10	1 . .						
ATOM 3377	C	C	. ILE ILE ILE B B 5 5	. 63.141	110.347	18.236	1.00
8.20	1 . .						
ATOM 3378	O	O	. ILE ILE ILE B B 5 5	. 62.685	111.184	19.001	1.00
11.44	1 . .						
ATOM 3379	N	N	. TRP TRP TRP B B 6 6	. 64.392	109.918	18.332	1.00
6.96	1 . .						
ATOM 3380	CA	CA	. TRP TRP TRP B B 6 6	. 65.233	110.479	19.374	1.00
5.98	1 . .						
ATOM 3381	CB	CB	. TRP TRP TRP B B 6 6	. 65.180	109.665	20.673	1.00
6.62	1 . .						
ATOM 3382	CG	CG	. TRP TRP TRP B B 6 6	. 66.136	110.204	21.676	1.00
8.31	1 . .						
ATOM 3383	CD1	CD1	. TRP TRP TRP B B 6 6	. 67.372	109.719	21.987	1.00
12.52	1 . .						
ATOM 3384	NE1	NE1	. TRP TRP TRP B B 6 6	. 67.966	110.539	22.914	1.00
11.91	1 . .						
ATOM 3385	CE2	CE2	. TRP TRP TRP B B 6 6	. 67.126	111.587	23.202	1.00
12.97	1 . .						
ATOM 3386	CD2	CD2	. TRP TRP TRP B B 6 6	. 65.956	111.399	22.453	1.00
12.36	1 . .						
ATOM 3387	CE3	CE3	. TRP TRP TRP B B 6 6	. 64.925	112.351	22.555	1.00
14.10	1 . .						
ATOM 3388	CZ3	CZ3	. TRP TRP TRP B B 6 6	. 65.072	113.439	23.408	1.00
15.70	1 . .						
ATOM 3389	CH2	CH2	. TRP TRP TRP B B 6 6	. 66.246	113.600	24.188	1.00
16.22	1 . .						
ATOM 3390	CZ2	CZ2	. TRP TRP TRP B B 6 6	. 67.286	112.682	24.104	1.00
16.36	1 . .						

ATOM 3391	C	C	. TRP TRP TRP B B 6 6	. 66.661	110.609	18.846	1.00
6.77	1	. . .					
ATOM 3392	O	O	. TRP TRP TRP B B 6 6	. 67.302	109.584	18.426	1.00
7.90	1	. . .					
ATOM 3393	N	N	. ALA ALA ALA B B 7 7	. 67.110	111.850	18.745	1.00
6.02	1	. . .					
ATOM 3394	CA	CA	. ALA ALA ALA B B 7 7	. 68.459	112.097	18.291	1.00
4.78	1	. . .					
ATOM 3395	CB	CB	. ALA ALA ALA B B 7 7	. 68.505	113.315	17.355	1.00
5.11	1	. . .					
ATOM 3396	C	C	. ALA ALA ALA B B 7 7	. 69.423	112.333	19.437	1.00
4.54	1	. . .					
ATOM 3397	O	O	. ALA ALA ALA B B 7 7	. 69.028	112.937	20.434	1.00
5.20	1	. . .					
ATOM 3398	N	N	. ARG ARG ARG B B 8 8	. 70.714	112.092	19.183	1.00
5.12	1	. . .					
ATOM 3399	CA	CA	. ARG ARG ARG B B 8 8	. 71.774	112.453	20.078	1.00
3.43	1	. . .					
ATOM 3400	CB	CB	. ARG ARG ARG B B 8 8	. 72.087	111.234	21.018	1.00
3.01	1	. . .					
ATOM 3401	CG	CG	. ARG ARG ARG B B 8 8	. 72.663	110.031	20.215	1.00
4.95	1	. . .					
ATOM 3402	CD	CD	. ARG ARG ARG B B 8 8	. 73.042	108.824	21.132	1.00
4.63	1	. . .					
ATOM 3403	NE	NE	. ARG ARG ARG B B 8 8	. 71.840	108.256	21.761	1.00
7.41	1	. . .					
ATOM 3404	CZ	CZ	. ARG ARG ARG B B 8 8	. 71.022	107.422	21.114	1.00
6.91	1	. . .					
ATOM 3405	NH1	NH1	. ARG ARG ARG B B 8 8	. 71.350	107.013	19.898	1.00
6.45	1	. . .					
ATOM 3406	NH2	NH2	. ARG ARG ARG B B 8 8	. 69.899	106.972	21.672	1.00
11.73	1	. . .					
ATOM 3407	C	C	. ARG ARG ARG B B 8 8	. 73.039	112.810	19.298	1.00
2.59	1	. . .					
ATOM 3408	O	O	. ARG ARG ARG B B 8 8	. 73.155	112.519	18.080	1.00
3.92	1	. . .					
ATOM 3409	N	N	. GLU GLU GLU B B 9 9	. 74.036	113.294	20.022	1.00
3.18	1	. . .					
ATOM 3410	CA	CA	. GLU GLU GLU B B 9 9	. 75.400	113.630	19.586	1.00
3.54	1	. . .					
ATOM 3411	CB	CB	. GLU GLU GLU B B 9 9	. 75.807	114.918	20.335	1.00
7.36	1	. . .					
ATOM 3412	CG	CG	. GLU GLU GLU B B 9 9	. 77.065	115.593	19.918	1.00
9.18	1	. . .					
ATOM 3413	CD	CD	. GLU GLU GLU B B 9 9	. 77.281	116.804	20.848	1.00
10.84	1	. . .					
ATOM 3414	OE1	OE1	. GLU GLU GLU B B 9 9	. 77.288	117.935	20.346	1.00
7.20	1	. . .					
ATOM 3415	OE2	OE2	. GLU GLU GLU B B 9 9	. 77.353	116.633	22.085	1.00
10.38	1	. . .					
ATOM 3416	C	C	. GLU GLU GLU B B 9 9	. 76.313	112.396	19.835	1.00
5.03	1	. . .					
ATOM 3417	O	O	. GLU GLU GLU B B 9 9	. 76.409	111.855	20.981	1.00
5.74	1	. . .					









ATOM 3526	CB	CB	. TYR TYR TYR B B 24 24 .	60.724	103.490	18.122	1.00
11.26	1 . .						
ATOM 3527	CG	CG	. TYR TYR TYR B B 24 24 .	61.890	103.593	19.054	1.00
14.28	1 . .						
ATOM 3528	CD1	CD1	. TYR TYR TYR B B 24 24 .	62.523	104.820	19.272	1.00
13.57	1 . .						
ATOM 3529	CE1	CE1	. TYR TYR TYR B B 24 24 .	63.583	104.926	20.158	1.00
17.11	1 . .						
ATOM 3530	CZ	CZ	. TYR TYR TYR B B 24 24 .	64.001	103.810	20.839	1.00
17.78	1 . .						
ATOM 3531	OH	OH	. TYR TYR TYR B B 24 24 .	65.051	103.935	21.693	1.00
19.09	1 . .						
ATOM 3532	CE2	CE2	. TYR TYR TYR B B 24 24 .	63.411	102.586	20.629	1.00
17.44	1 . .						
ATOM 3533	CD2	CD2	. TYR TYR TYR B B 24 24 .	62.346	102.479	19.736	1.00
17.09	1 . .						
ATOM 3534	C	C	. TYR TYR TYR B B 24 24 .	59.824	103.226	15.845	1.00
11.72	1 . .						
ATOM 3535	O	O	. TYR TYR TYR B B 24 24 .	59.024	104.179	15.639	1.00
11.77	1 . .						
ATOM 3536	N	N	. THR THR THR B B 25 25 .	59.621	102.003	15.390	1.00
13.15	1 . .						
ATOM 3537	CA	CA	. THR THR THR B B 25 25 .	58.315	101.634	14.879	1.00
13.60	1 . .						
ATOM 3538	CB	CB	. THR THR THR B B 25 25 .	58.335	101.304	13.416	1.00
14.65	1 . .						
ATOM 3539	OG1	OG1	. THR THR THR B B 25 25 .	59.103	100.115	13.259	1.00
9.62	1 . .						
ATOM 3540	CG2	CG2	. THR THR THR B B 25 25 .	58.884	102.485	12.529	1.00
13.98	1 . .						
ATOM 3541	C	C	. THR THR THR B B 25 25 .	57.863	100.399	15.634	1.00
14.56	1 . .						
ATOM 3542	O	O	. THR THR THR B B 25 25 .	58.563	99.913	16.516	1.00
13.60	1 . .						
ATOM 3543	N	N	. ALA ALA ALA B B 26 26 .	56.713	99.873	15.243	1.00
15.07	1 . .						
ATOM 3544	CA	CA	. ALA ALA ALA B B 26 26 .	56.233	98.613	15.769	1.00
17.18	1 . .						
ATOM 3545	CB	CB	. ALA ALA ALA B B 26 26 .	54.854	98.271	15.217	1.00
17.17	1 . .						
ATOM 3546	C	C	. ALA ALA ALA B B 26 26 .	57.232	97.486	15.501	1.00
18.47	1 . .						
ATOM 3547	O	O	. ALA ALA ALA B B 26 26 .	57.296	96.531	16.269	1.00
18.49	1 . .						
ATOM 3548	N	N	. LYS LYS LYS B B 27 27 .	58.062	97.646	14.471	1.00
19.06	1 . .						
ATOM 3549	CA	CA	. LYS LYS LYS B B 27 27 .	59.073	96.649	14.087	1.00
19.42	1 . .						
ATOM 3550	CB	CB	. LYS LYS LYS B B 27 27 .	59.393	96.740	12.606	1.00
20.57	1 . .						
ATOM 3551	CG	CG	. LYS LYS LYS B B 27 27 .	58.246	96.457	11.678	1.00
21.72	1 . .						
ATOM 3552	CD	CD	. LYS LYS LYS B B 27 27 .	58.183	94.971	11.376	1.00
24.03	1 . .						







ATOM 3607	O	O	. VAL VAL VAL B B 34 34 .	77.666	111.932	10.439	1.00
3.45	1 . .						
ATOM 3608	N	N	. PRO PRO PRO B B 35 35 .	77.588	111.568	8.246	1.00
2.00	1 . .						
ATOM 3609	CA	CA	. PRO PRO PRO B B 35 35 .	79.027	111.799	8.092	1.00
2.23	1 . .						
ATOM 3610	CB	CB	. PRO PRO PRO B B 35 35 .	79.361	111.057	6.800	1.00
3.44	1 . .						
ATOM 3611	CG	CG	. PRO PRO PRO B B 35 35 .	78.124	111.199	5.993	1.00
2.11	1 . .						
ATOM 3612	CD	CD	. PRO PRO PRO B B 35 35 .	76.912	111.260	6.975	1.00
2.43	1 . .						
ATOM 3613	C	C	. PRO PRO PRO B B 35 35 .	79.315	113.332	7.943	1.00
2.15	1 . .						
ATOM 3614	O	O	. PRO PRO PRO B B 35 35 .	78.379	114.136	7.897	1.00
3.59	1 . .						
ATOM 3615	N	N	. SER SER SER B B 36 36 .	80.582	113.732	7.856	1.00
2.94	1 . .						
ATOM 3616	CA	CA	. SER SER SER B B 36 36 .	80.946	115.127	7.740	1.00
2.55	1 . .						
ATOM 3617	CB	CB	. SER SER SER B B 36 36 .	81.176	115.733	9.139	1.00
3.21	1 . .						
ATOM 3618	OG	OG	. SER SER SER B B 36 36 .	81.615	117.029	9.027	1.00
5.51	1 . .						
ATOM 3619	C	C	. SER SER SER B B 36 36 .	82.208	115.242	6.934	1.00
2.96	1 . .						
ATOM 3620	O	O	. SER SER SER B B 36 36 .	83.225	114.562	7.246	1.00
3.76	1 . .						
ATOM 3621	N	N	. GLY GLY GLY B B 37 37 .	82.202	116.122	5.922	1.00
2.83	1 . .						
ATOM 3622	CA	CA	. GLY GLY GLY B B 37 37 .	83.383	116.355	5.082	1.00
3.19	1 . .						
ATOM 3623	C	C	. GLY GLY GLY B B 37 37 .	84.352	117.365	5.639	1.00
2.02	1 . .						
ATOM 3624	O	O	. GLY GLY GLY B B 37 37 .	83.986	118.121	6.581	1.00
3.71	1 . .						
ATOM 3625	N	N	. ALA ALA ALA B B 38 38 .	85.602	117.321	5.106	1.00
2.63	1 . .						
ATOM 3626	CA	CA	. ALA ALA ALA B B 38 38 .	86.613	118.302	5.328	1.00
2.28	1 . .						
ATOM 3627	CB	CB	. ALA ALA ALA B B 38 38 .	87.891	117.729	5.750	1.00
2.34	1 . .						
ATOM 3628	C	C	. ALA ALA ALA B B 38 38 .	86.789	119.201	4.109	1.00
3.28	1 . .						
ATOM 3629	O	O	. ALA ALA ALA B B 38 38 .	86.653	120.462	4.194	1.00
5.89	1 . .						
ATOM 3630	N	N	. SER SER SER B B 39 39 .	87.028	118.565	2.970	1.00
3.16	1 . .						
ATOM 3631	CA	CA	. SER SER SER B B 39 39 .	87.084	119.379	1.787	1.00
2.51	1 . .						
ATOM 3632	CB	CB	. SER SER SER B B 39 39 .	87.973	118.782	0.726	1.00
3.28	1 . .						
ATOM 3633	OG	OG	. SER SER SER B B 39 39 .	87.571	117.459	0.410	1.00
3.78	1 . .						



ATOM 3661	CZ	CZ	. TYR TYR TYR B B 43 43 .	78.593	127.702	-6.508	1.00
5.23	1 . .						
ATOM 3662	OH	OH	. TYR TYR TYR B B 43 43 .	79.017	128.822	-7.183	1.00
6.51	1 . .						
ATOM 3663	CE2	CE2	. TYR TYR TYR B B 43 43 .	77.507	127.812	-5.623	1.00
4.91	1 . .						
ATOM 3664	CD2	CD2	. TYR TYR TYR B B 43 43 .	77.043	126.713	-4.909	1.00
4.59	1 . .						
ATOM 3665	C	C	. TYR TYR TYR B B 43 43 .	76.710	123.355	-1.957	1.00
2.51	1 . .						
ATOM 3666	O	O	. TYR TYR TYR B B 43 43 .	75.519	123.082	-2.211	1.00
3.45	1 . .						
ATOM 3667	N	N	. GLU GLU GLU B B 44 44 .	77.409	122.717	-1.021	1.00
3.84	1 . .						
ATOM 3668	CA	CA	. GLU GLU GLU B B 44 44 .	76.799	121.614	-0.214	1.00
3.13	1 . .						
ATOM 3669	CB	CB	. GLU GLU GLU B B 44 44 .	77.864	120.931	0.672	1.00
3.43	1 . .						
ATOM 3670	CG	CG	. GLU GLU GLU B B 44 44 .	78.876	120.169	-0.162	1.00
3.75	1 . .						
ATOM 3671	CD	CD	. GLU GLU GLU B B 44 44 .	79.819	119.265	0.630	1.00
3.83	1 . .						
ATOM 3672	OE1	OE1	. GLU GLU GLU B B 44 44 .	79.498	118.881	1.789	1.00
2.64	1 . .						
ATOM 3673	OE2	OE2	. GLU GLU GLU B B 44 44 .	80.924	118.902	0.116	1.00
5.31	1 . .						
ATOM 3674	C	C	. GLU GLU GLU B B 44 44 .	75.716	122.154	0.681	1.00
2.45	1 . .						
ATOM 3675	O	O	. GLU GLU GLU B B 44 44 .	75.808	123.325	1.112	1.00
3.84	1 . .						
ATOM 3676	N	N	. ALA ALA ALA B B 45 45 .	74.677	121.395	0.931	1.00
3.91	1 . .						
ATOM 3677	CA	CA	. ALA ALA ALA B B 45 45 .	73.723	121.814	1.893	1.00
3.33	1 . .						
ATOM 3678	CB	CB	. ALA ALA ALA B B 45 45 .	72.707	120.734	2.040	1.00
4.05	1 . .						
ATOM 3679	C	C	. ALA ALA ALA B B 45 45 .	74.334	122.067	3.259	1.00
4.19	1 . .						
ATOM 3680	O	O	. ALA ALA ALA B B 45 45 .	75.407	121.559	3.549	1.00
4.87	1 . .						
ATOM 3681	N	N	. LEU LEU LEU B B 46 46 .	73.653	122.869	4.090	1.00
4.51	1 . .						
ATOM 3682	CA	CA	. LEU LEU LEU B B 46 46 .	74.361	123.330	5.265	1.00
3.42	1 . .						
ATOM 3683	CB	CB	. LEU LEU LEU B B 46 46 .	73.652	124.554	5.871	1.00
6.54	1 . .						
ATOM 3684	CG	CG	. LEU LEU LEU B B 46 46 .	74.229	125.005	7.236	1.00
10.94	1 . .						
ATOM 3685	CD1	CD1	. LEU LEU LEU B B 46 46 .	75.650	125.479	6.955	1.00
14.81	1 . .						
ATOM 3686	CD2	CD2	. LEU LEU LEU B B 46 46 .	73.401	126.062	7.924	1.00
16.98	1 . .						
ATOM 3687	C	C	. LEU LEU LEU B B 46 46 .	74.496	122.301	6.320	1.00
3.64	1 . .						

ATOM 3688	O	O	. LEU LEU LEU B B 46 46 .	73.507	121.775	6.742	1.00
6.21	1 . .						
ATOM 3689	N	N	. GLU GLU GLU B B 47 47 .	75.702	122.204	6.853	1.00
4.41	1 . .						
ATOM 3690	CA	CA	. GLU GLU GLU B B 47 47 .	75.956	121.328	8.019	1.00
4.33	1 . .						
ATOM 3691	CB	CB	. GLU GLU GLU B B 47 47 .	77.365	120.776	7.858	1.00
3.29	1 . .						
ATOM 3692	CG	CG	. GLU GLU GLU B B 47 47 .	77.926	120.103	9.111	1.00
3.55	1 . .						
ATOM 3693	CD	CD	. GLU GLU GLU B B 47 47 .	79.348	119.562	8.918	1.00
3.18	1 . .						
ATOM 3694	OE1	OE1	. GLU GLU GLU B B 47 47 .	79.430	118.405	8.369	1.00
8.70	1 . .						
ATOM 3695	OE2	OE2	. GLU GLU GLU B B 47 47 .	80.360	120.153	9.335	1.00
6.85	1 . .						
ATOM 3696	C	C	. GLU GLU GLU B B 47 47 .	75.862	122.254	9.198	1.00
6.17	1 . .						
ATOM 3697	O	O	. GLU GLU GLU B B 47 47 .	76.703	123.094	9.323	1.00
7.10	1 . .						
ATOM 3698	N	N	. LEU LEU LEU B B 48 48 .	74.880	122.059	10.090	1.00
4.44	1 . .						
ATOM 3699	CA	CA	. LEU LEU LEU B B 48 48 .	74.639	123.034	11.187	1.00
3.34	1 . .						
ATOM 3700	CB	CB	. LEU LEU LEU B B 48 48 .	73.163	123.049	11.620	1.00
4.39	1 . .						
ATOM 3701	CG	CG	. LEU LEU LEU B B 48 48 .	72.853	123.991	12.793	1.00
4.52	1 . .						
ATOM 3702	CD1	CD1	. LEU LEU LEU B B 48 48 .	73.221	125.446	12.329	1.00
4.84	1 . .						
ATOM 3703	CD2	CD2	. LEU LEU LEU B B 48 48 .	71.393	123.936	13.121	1.00
6.73	1 . .						
ATOM 3704	C	C	. LEU LEU LEU B B 48 48 .	75.516	122.636	12.384	1.00
3.47	1 . .						
ATOM 3705	O	O	. LEU LEU LEU B B 48 48 .	75.341	121.515	12.892	1.00
3.37	1 . .						
ATOM 3706	N	N	. ARG ARG ARG B B 49 49 .	76.463	123.515	12.748	1.00
5.47	1 . .						
ATOM 3707	CA	CA	. ARG ARG ARG B B 49 49 .	77.296	123.364	13.910	1.00
7.14	1 . .						
ATOM 3708	CB	CB	. ARG ARG ARG B B 49 49 .	78.769	123.575	13.551	1.00
8.77	1 . .						
ATOM 3709	CG	CG	. ARG ARG ARG B B 49 49 .	79.344	122.552	12.566	1.00
11.83	1 . .						
ATOM 3710	CD	CD	. ARG ARG ARG B B 49 49 .	79.850	121.322	13.250	1.00
9.86	1 . .						
ATOM 3711	NE	NE	. ARG ARG ARG B B 49 49 .	80.361	120.304	12.335	1.00
9.96	1 . .						
ATOM 3712	CZ	CZ	. ARG ARG ARG B B 49 49 .	80.594	119.031	12.668	1.00
6.77	1 . .						
ATOM 3713	NH1	NH1	. ARG ARG ARG B B 49 49 .	80.467	118.623	13.932	1.00
5.76	1 . .						
ATOM 3714	NH2	NH2	. ARG ARG ARG B B 49 49 .	80.985	118.158	11.763	1.00
6.45	1 . .						

ATOM 3715	C	C	. ARG ARG ARG B B 49 49 .	76.887	124.430	14.930	1.00
6.51	1 . .						
ATOM 3716	O	O	. ARG ARG ARG B B 49 49 .	76.342	125.513	14.573	1.00
7.91	1 . .						
ATOM 3717	N	N	. ASP ASP ASP B B 50 50 .	77.176	124.155	16.197	1.00
4.93	1 . .						
ATOM 3718	CA	CA	. ASP ASP ASP B B 50 50 .	76.749	125.082	17.262	1.00
6.95	1 . .						
ATOM 3719	CB	CB	. ASP ASP ASP B B 50 50 .	76.836	124.362	18.595	1.00
5.11	1 . .						
ATOM 3720	CG	CG	. ASP ASP ASP B B 50 50 .	75.896	123.183	18.718	1.00
6.14	1 . .						
ATOM 3721	OD1	OD1	. ASP ASP ASP B B 50 50 .	74.906	122.963	17.924	1.00
4.35	1 . .						
ATOM 3722	OD2	OD2	. ASP ASP ASP B B 50 50 .	76.168	122.366	19.627	1.00
5.22	1 . .						
ATOM 3723	C	C	. ASP ASP ASP B B 50 50 .	77.551	126.353	17.380	1.00
8.18	1 . .						
ATOM 3724	O	O	. ASP ASP ASP B B 50 50 .	76.980	127.392	17.832	1.00
9.65	1 . .						
ATOM 3725	N	N	. GLY GLY GLY B B 51 51 .	78.843	126.229	17.102	1.00
7.80	1 . .						
ATOM 3726	CA	CA	. GLY GLY GLY B B 51 51 .	79.839	127.328	17.141	1.00
9.83	1 . .						
ATOM 3727	C	C	. GLY GLY GLY B B 51 51 .	80.077	127.845	18.551	1.00
12.20	1 . .						
ATOM 3728	O	O	. GLY GLY GLY B B 51 51 .	80.369	129.015	18.757	1.00
12.17	1 . .						
ATOM 3729	N	N	. ASP ASP ASP B B 52 52 .	79.948	126.984	19.550	1.00
11.64	1 . .						
ATOM 3730	CA	CA	. ASP ASP ASP B B 52 52 .	80.238	127.374	20.893	1.00
12.70	1 . .						
ATOM 3731	CB	CB	. ASP ASP ASP B B 52 52 .	79.356	126.602	21.864	1.00
13.01	1 . .						
ATOM 3732	CG	CG	. ASP ASP ASP B B 52 52 .	79.769	126.784	23.312	1.00
13.06	1 . .						
ATOM 3733	OD1	OD1	. ASP ASP ASP B B 52 52 .	80.786	127.455	23.512	1.00
11.45	1 . .						
ATOM 3734	OD2	OD2	. ASP ASP ASP B B 52 52 .	79.129	126.187	24.193	1.00
10.77	1 . .						
ATOM 3735	C	C	. ASP ASP ASP B B 52 52 .	81.727	127.106	21.013	1.00
13.41	1 . .						
ATOM 3736	O	O	. ASP ASP ASP B B 52 52 .	82.194	125.937	21.088	1.00
14.12	1 . .						
ATOM 3737	N	N	. LYS LYS LYS B B 53 53 .	82.493	128.192	21.005	1.00
15.33	1 . .						
ATOM 3738	CA	CA	. LYS LYS LYS B B 53 53 .	83.934	128.099	20.881	1.00
16.69	1 . .						
ATOM 3739	CB	CB	. LYS LYS LYS B B 53 53 .	84.538	129.510	20.947	1.00
17.29	1 . .						
ATOM 3740	CG	CG	. LYS LYS LYS B B 53 53 .	84.153	130.468	19.798	1.00
20.71	1 . .						
ATOM 3741	CD	CD	. LYS LYS LYS B B 53 53 .	85.367	130.784	18.936	1.00
24.48	1 . .						

ATOM 3742	CE	CE	. LYS LYS LYS B B 53 53 .	84.961	131.450	17.609	1.00
27.75	1 . .						
ATOM 3743	NZ	NZ	. LYS LYS LYS B B 53 53 .	85.146	132.921	17.582	1.00
29.74	1 . .						
ATOM 3744	C	C	. LYS LYS LYS B B 53 53 .	84.541	127.221	21.971	1.00
16.01	1 . .						
ATOM 3745	O	O	. LYS LYS LYS B B 53 53 .	85.613	126.650	21.767	1.00
15.93	1 . .						
ATOM 3746	N	N	. GLN GLN GLN B B 54 54 .	83.841	127.116	23.104	1.00
16.01	1 . .						
ATOM 3747	CA	CA	. GLN GLN GLN B B 54 54 .	84.375	126.493	24.316	1.00
15.75	1 . .						
ATOM 3748	CB	CB	. GLN GLN GLN B B 54 54 .	83.731	127.140	25.533	1.00
17.31	1 . .						
ATOM 3749	CG	CG	. GLN GLN GLN B B 54 54 .	83.857	128.658	25.668	1.00
22.26	1 . .						
ATOM 3750	CD	CD	. GLN GLN GLN B B 54 54 .	85.240	129.167	25.347	1.00
25.97	1 . .						
ATOM 3751	OE1	OE1	. GLN GLN GLN B B 54 54 .	86.252	128.619	25.806	1.00
27.97	1 . .						
ATOM 3752	NE2	NE2	. GLN GLN GLN B B 54 54 .	85.295	130.232	24.536	1.00
28.25	1 . .						
ATOM 3753	C	C	. GLN GLN GLN B B 54 54 .	84.044	124.994	24.406	1.00
14.58	1 . .						
ATOM 3754	O	O	. GLN GLN GLN B B 54 54 .	84.566	124.265	25.246	1.00
14.92	1 . .						
ATOM 3755	N	N	. ARG ARG ARG B B 55 55 .	83.167	124.553	23.510	1.00
12.35	1 . .						
ATOM 3756	CA	CA	. ARG ARG ARG B B 55 55 .	82.642	123.181	23.549	1.00
8.99	1 . .						
ATOM 3757	CB	CB	. ARG ARG ARG B B 55 55 .	81.143	123.169	23.748	1.00
9.25	1 . .						
ATOM 3758	CG	CG	. ARG ARG ARG B B 55 55 .	80.662	121.822	24.143	1.00
10.22	1 . .						
ATOM 3759	CD	CD	. ARG ARG ARG B B 55 55 .	79.174	121.769	24.526	1.00
9.26	1 . .						
ATOM 3760	NE	NE	. ARG ARG ARG B B 55 55 .	78.822	120.342	24.655	1.00
8.17	1 . .						
ATOM 3761	CZ	CZ	. ARG ARG ARG B B 55 55 .	78.484	119.506	23.642	1.00
7.73	1 . .						
ATOM 3762	NH1	NH1	. ARG ARG ARG B B 55 55 .	78.320	119.963	22.411	1.00
6.31	1 . .						
ATOM 3763	NH2	NH2	. ARG ARG ARG B B 55 55 .	78.237	118.217	23.890	1.00
9.09	1 . .						
ATOM 3764	C	C	. ARG ARG ARG B B 55 55 .	82.937	122.431	22.263	1.00
6.28	1 . .						
ATOM 3765	O	O	. ARG ARG ARG B B 55 55 .	82.316	122.730	21.217	1.00
7.69	1 . .						
ATOM 3766	N	N	. TYR TYR TYR B B 56 56 .	83.853	121.448	22.338	1.00
6.29	1 . .						
ATOM 3767	CA	CA	. TYR TYR TYR B B 56 56 .	84.241	120.732	21.149	1.00
5.76	1 . .						
ATOM 3768	CB	CB	. TYR TYR TYR B B 56 56 .	83.031	119.975	20.615	1.00
3.82	1 . .						



ATOM 3769	CG	CG	. TYR TYR TYR B B 56 56	. 82.825	118.632	21.302	1.00
3.43	1 . .						
ATOM 3770	CD1	CD1	. TYR TYR TYR B B 56 56	. 81.689	118.380	22.057	1.00
3.00	1 . .						
ATOM 3771	CE1	CE1	. TYR TYR TYR B B 56 56	. 81.460	117.095	22.672	1.00
4.64	1 . .						
ATOM 3772	CZ	CZ	. TYR TYR TYR B B 56 56	. 82.427	116.084	22.538	1.00
2.61	1 . .						
ATOM 3773	OH	OH	. TYR TYR TYR B B 56 56	. 82.159	114.837	23.116	1.00
6.28	1 . .						
ATOM 3774	CE2	CE2	. TYR TYR TYR B B 56 56	. 83.553	116.280	21.738	1.00
3.40	1 . .						
ATOM 3775	CD2	CD2	. TYR TYR TYR B B 56 56	. 83.782	117.569	21.135	1.00
3.10	1 . .						
ATOM 3776	C	C	. TYR TYR TYR B B 56 56	. 84.802	121.632	20.068	1.00
6.89	1 . .						
ATOM 3777	O	O	. TYR TYR TYR B B 56 56	. 84.551	121.398	18.861	1.00
7.07	1 . .						
ATOM 3778	N	N	. LEU LEU LEU B B 57 57	. 85.520	122.681	20.491	1.00
8.56	1 . .						
ATOM 3779	CA	CA	. LEU LEU LEU B B 57 57	. 86.115	123.639	19.541	1.00
8.66	1 . .						
ATOM 3780	CB	CB	. LEU LEU LEU B B 57 57	. 87.346	123.040	18.821	1.00
10.00	1 . .						
ATOM 3781	CG	CG	. LEU LEU LEU B B 57 57	. 88.591	122.696	19.682	1.00
12.26	1 . .						
ATOM 3782	CD1	CD1	. LEU LEU LEU B B 57 57	. 88.406	121.396	20.466	1.00
13.08	1 . .						
ATOM 3783	CD2	CD2	. LEU LEU LEU B B 57 57	. 89.811	122.484	18.825	1.00
13.10	1 . .						
ATOM 3784	C	C	. LEU LEU LEU B B 57 57	. 85.078	124.198	18.541	1.00
9.03	1 . .						
ATOM 3785	O	O	. LEU LEU LEU B B 57 57	. 85.385	124.392	17.342	1.00
10.00	1 . .						
ATOM 3786	N	N	. GLY GLY GLY B B 58 58	. 83.840	124.417	19.004	1.00
8.04	1 . .						
ATOM 3787	CA	CA	. GLY GLY GLY B B 58 58	. 82.750	125.022	18.137	1.00
7.33	1 . .						
ATOM 3788	C	C	. GLY GLY GLY B B 58 58	. 82.011	124.040	17.239	1.00
8.15	1 . .						
ATOM 3789	O	O	. GLY GLY GLY B B 58 58	. 81.157	124.468	16.449	1.00
7.99	1 . .						
ATOM 3790	N	N	. LYS LYS LYS B B 59 59	. 82.338	122.742	17.354	1.00
6.41	1 . .						
ATOM 3791	CA	CA	. LYS LYS LYS B B 59 59	. 81.781	121.653	16.480	1.00
5.67	1 . .						
ATOM 3792	CB	CB	. LYS LYS LYS B B 59 59	. 82.958	120.806	16.003	1.00
7.85	1 . .						
ATOM 3793	CG	CG	. LYS LYS LYS B B 59 59	. 84.002	121.649	15.215	1.00
10.73	1 . .						
ATOM 3794	CD	CD	. LYS LYS LYS B B 59 59	. 85.167	120.777	14.751	1.00
18.63	1 . .						
ATOM 3795	CE	CE	. LYS LYS LYS B B 59 59	. 86.053	121.534	13.820	1.00
19.56	1 . .						

ATOM 3796	NZ	NZ	. LYS LYS LYS B B 59 59 . 87.106 120.684 13.205 1.00
22.44	1 . .		
ATOM 3797	C	C	. LYS LYS LYS B B 59 59 . 80.618 120.838 17.013 1.00
5.21	1 . .		
ATOM 3798	O	O	. LYS LYS LYS B B 59 59 . 80.177 119.803 16.401 1.00
4.59	1 . .		
ATOM 3799	N	N	. GLY GLY GLY B B 60 60 . 80.041 121.245 18.139 1.00
4.51	1 . .		
ATOM 3800	CA	CA	. GLY GLY GLY B B 60 60 . 78.916 120.513 18.706 1.00
3.70	1 . .		
ATOM 3801	C	C	. GLY GLY GLY B B 60 60 . 77.768 120.531 17.737 1.00
4.56	1 . .		
ATOM 3802	O	O	. GLY GLY GLY B B 60 60 . 77.708 121.437 16.816 1.00
5.34	1 . .		
ATOM 3803	N	N	. VAL VAL VAL B B 61 61 . 76.881 119.545 17.861 1.00
3.60	1 . .		
ATOM 3804	CA	CA	. VAL VAL VAL B B 61 61 . 75.669 119.515 17.052 1.00
4.46	1 . .		
ATOM 3805	CB	CB	. VAL VAL VAL B B 61 61 . 75.714 118.429 15.916 1.00
3.93	1 . .		
ATOM 3806	CG1	CG1	. VAL VAL VAL B B 61 61 . 76.883 118.725 15.017 1.00
4.65	1 . .		
ATOM 3807	CG2	CG2	. VAL VAL VAL B B 61 61 . 75.822 117.008 16.540 1.00
4.58	1 . .		
ATOM 3808	C	C	. VAL VAL VAL B B 61 61 . 74.436 119.483 17.905 1.00
3.11	1 . .		
ATOM 3809	O	O	. VAL VAL VAL B B 61 61 . 73.434 118.928 17.514 1.00
3.83	1 . .		
ATOM 3810	N	N	. LEU LEU LEU B B 62 62 . 74.487 120.197 19.026 1.00
6.17	1 . .		
ATOM 3811	CA	CA	. LEU LEU LEU B B 62 62 . 73.348 120.236 19.912 1.00
6.00	1 . .		
ATOM 3812	CB	CB	. LEU LEU LEU B B 62 62 . 73.708 120.923 21.244 1.00
7.11	1 . .		
ATOM 3813	CG	CG	. LEU LEU LEU B B 62 62 . 74.794 120.234 22.083 1.00
8.57	1 . .		
ATOM 3814	CD1	CD1	. LEU LEU LEU B B 62 62 . 74.958 121.086 23.362 1.00
12.66	1 . .		
ATOM 3815	CD2	CD2	. LEU LEU LEU B B 62 62 . 74.423 118.806 22.381 1.00
10.45	1 . .		
ATOM 3816	C	C	. LEU LEU LEU B B 62 62 . 72.142 120.909 19.277 1.00
3.92	1 . .		
ATOM 3817	O	O	. LEU LEU LEU B B 62 62 . 70.992 120.476 19.455 1.00
4.59	1 . .		
ATOM 3818	N	N	. LYS LYS LYS B B 63 63 . 72.397 121.900 18.448 1.00
4.64	1 . .		
ATOM 3819	CA	CA	. LYS LYS LYS B B 63 63 . 71.270 122.558 17.752 1.00
4.62	1 . .		
ATOM 3820	CB	CB	. LYS LYS LYS B B 63 63 . 71.747 123.866 17.124 1.00
5.87	1 . .		
ATOM 3821	CG	CG	. LYS LYS LYS B B 63 63 . 72.304 124.808 18.109 1.00
8.79	1 . .		
ATOM 3822	CD	CD	. LYS LYS LYS B B 63 63 . 72.611 126.160 17.456 1.00
11.81	1 . .		







ATOM 3904	C	C	. PRO PRO PRO B B 74 74 .	55.822	115.740	15.388	1.00
9.20	1 . . .						
ATOM 3905	O	O	. PRO PRO PRO B B 74 74 .	54.771	115.147	15.303	1.00
10.04	1 . . .						
ATOM 3906	N	N	. ALA ALA ALA B B 75 75 .	56.304	116.499	14.409	1.00
8.10	1 . . .						
ATOM 3907	CA	CA	. ALA ALA ALA B B 75 75 .	55.606	116.646	13.135	1.00
9.07	1 . . .						
ATOM 3908	CB	CB	. ALA ALA ALA B B 75 75 .	56.345	117.557	12.247	1.00
7.76	1 . . .						
ATOM 3909	C	C	. ALA ALA ALA B B 75 75 .	55.449	115.300	12.417	1.00
8.50	1 . . .						
ATOM 3910	O	O	. ALA ALA ALA B B 75 75 .	54.380	114.965	11.953	1.00
8.22	1 . . .						
ATOM 3911	N	N	. LEU LEU LEU B B 76 76 .	56.541	114.550	12.265	1.00
10.32	1 . . .						
ATOM 3912	CA	CA	. LEU LEU LEU B B 76 76 .	56.481	113.307	11.482	1.00
9.18	1 . . .						
ATOM 3913	CB	CB	. LEU LEU LEU B B 76 76 .	57.895	112.746	11.254	1.00
10.07	1 . . .						
ATOM 3914	CG	CG	. LEU LEU LEU B B 76 76 .	58.935	113.537	10.430	1.00
11.22	1 . . .						
ATOM 3915	CD1	CD1	. LEU LEU LEU B B 76 76 .	60.138	112.684	9.942	1.00
11.81	1 . . .						
ATOM 3916	CD2	CD2	. LEU LEU LEU B B 76 76 .	58.351	114.202	9.192	1.00
10.96	1 . . .						
ATOM 3917	C	C	. LEU LEU LEU B B 76 76 .	55.593	112.294	12.172	1.00
9.86	1 . . .						
ATOM 3918	O	O	. LEU LEU LEU B B 76 76 .	54.804	111.551	11.546	1.00
12.13	1 . . .						
ATOM 3919	N	N	. ILE ILE ILE B B 77 77 .	55.728	112.233	13.499	1.00
9.82	1 . . .						
ATOM 3920	CA	CA	. ILE ILE ILE B B 77 77 .	54.895	111.340	14.273	1.00
12.28	1 . . .						
ATOM 3921	CB	CB	. ILE ILE ILE B B 77 77 .	55.364	111.312	15.770	1.00
12.29	1 . . .						
ATOM 3922	CG1	CG1	. ILE ILE ILE B B 77 77 .	56.730	110.609	15.865	1.00
14.98	1 . . .						
ATOM 3923	CD1	CD1	. ILE ILE ILE B B 77 77 .	57.487	110.877	17.185	1.00
14.69	1 . . .						
ATOM 3924	CG2	CG2	. ILE ILE ILE B B 77 77 .	54.312	110.620	16.630	1.00
12.27	1 . . .						
ATOM 3925	C	C	. ILE ILE ILE B B 77 77 .	53.398	111.744	14.080	1.00
11.82	1 . . .						
ATOM 3926	O	O	. ILE ILE ILE B B 77 77 .	52.541	110.908	13.738	1.00
11.21	1 . . .						
ATOM 3927	N	N	. SER SER SER B B 78 78 .	53.124	113.042	14.156	1.00
14.25	1 . . .						
ATOM 3928	CA	CA	. SER SER SER B B 78 78 .	51.733	113.486	14.074	1.00
15.66	1 . . .						
ATOM 3929	CB	CB	. SER SER SER B B 78 78 .	51.590	114.947	14.510	1.00
16.39	1 . . .						
ATOM 3930	OG	OG	. SER SER SER B B 78 78 .	51.559	115.030	15.929	1.00
19.30	1 . . .						

ATOM 3931	C	C	. SER SER SER B B 78 78	. 51.145	113.207	12.685	1.00
15.07	1	. . .					
ATOM 3932	O	O	. SER SER SER B B 78 78	. 49.925	112.951	12.562	1.00
14.08	1	. . .					
ATOM 3933	N	N	. SER SER SER B B 79 79	. 52.012	113.213	11.649	1.00
15.43	1	. . .					
ATOM 3934	CA	CA	. SER SER SER B B 79 79	. 51.536	112.970	10.273	1.00
15.84	1	. . .					
ATOM 3935	CB	CB	. SER SER SER B B 79 79	. 52.655	113.096	9.232	1.00
15.54	1	. . .					
ATOM 3936	OG	OG	. SER SER SER B B 79 79	. 53.531	111.969	9.216	1.00
11.33	1	. . .					
ATOM 3937	C	C	. SER SER SER B B 79 79	. 50.899	111.617	10.128	1.00
17.05	1	. . .					
ATOM 3938	O	O	. SER SER SER B B 79 79	. 50.054	111.442	9.278	1.00
18.26	1	. . .					
ATOM 3939	N	N	. GLY GLY GLY B B 80 80	. 51.332	110.649	10.945	1.00
16.45	1	. . .					
ATOM 3940	CA	CA	. GLY GLY GLY B B 80 80	. 50.910	109.243	10.772	1.00
16.29	1	. . .					
ATOM 3941	C	C	. GLY GLY GLY B B 80 80	. 51.365	108.562	9.480	1.00
15.46	1	. . .					
ATOM 3942	O	O	. GLY GLY GLY B B 80 80	. 50.957	107.437	9.178	1.00
16.42	1	. . .					
ATOM 3943	N	N	. LEU LEU LEU B B 81 81	. 52.191	109.234	8.693	1.00
14.66	1	. . .					
ATOM 3944	CA	CA	. LEU LEU LEU B B 81 81	. 52.792	108.623	7.524	1.00
12.76	1	. . .					
ATOM 3945	CB	CB	. LEU LEU LEU B B 81 81	. 53.678	109.622	6.804	1.00
12.47	1	. . .					
ATOM 3946	CG	CG	. LEU LEU LEU B B 81 81	. 52.882	110.720	6.107	1.00
10.59	1	. . .					
ATOM 3947	CD1	CD1	. LEU LEU LEU B B 81 81	. 53.891	111.830	5.854	1.00
9.02	1	. . .					
ATOM 3948	CD2	CD2	. LEU LEU LEU B B 81 81	. 52.286	110.297	4.814	1.00
9.22	1	. . .					
ATOM 3949	C	C	. LEU LEU LEU B B 81 81	. 53.627	107.386	7.868	1.00
12.56	1	. . .					
ATOM 3950	O	O	. LEU LEU LEU B B 81 81	. 54.431	107.388	8.802	1.00
12.37	1	. . .					
ATOM 3951	N	N	. SER SER SER B B 82 82	. 53.433	106.355	7.061	1.00
14.38	1	. . .					
ATOM 3952	CA	CA	. SER SER SER B B 82 82	. 54.156	105.101	7.180	1.00
13.79	1	. . .					
ATOM 3953	CB	CB	. SER SER SER B B 82 82	. 53.541	104.020	6.269	1.00
15.14	1	. . .					
ATOM 3954	OG	OG	. SER SER SER B B 82 82	. 54.364	102.851	6.216	1.00
18.58	1	. . .					
ATOM 3955	C	C	. SER SER SER B B 82 82	. 55.597	105.332	6.800	1.00
13.23	1	. . .					
ATOM 3956	O	O	. SER SER SER B B 82 82	. 55.868	106.142	5.895	1.00
12.32	1	. . .					
ATOM 3957	N	N	. VAL VAL VAL B B 83 83	. 56.517	104.644	7.467	1.00
12.26	1	. . .					





ATOM 3985	OE1	OE1	. GLN GLN GLN B B	86 86	. 63.243	106.384	3.324	1.00
13.73	1 . .							
ATOM 3986	NE2	NE2	. GLN GLN GLN B B	86 86	. 63.891	108.519	3.303	1.00
11.73	1 . .							
ATOM 3987	C	C	. GLN GLN GLN B B	86 86	. 60.050	109.261	1.439	1.00
11.07	1 . .							
ATOM 3988	O	O	. GLN GLN GLN B B	86 86	. 60.442	110.264	2.054	1.00
10.23	1 . .							
ATOM 3989	N	N	. GLU GLU GLU B B	87 87	. 59.515	109.323	0.228	1.00
10.10	1 . .							
ATOM 3990	CA	CA	. GLU GLU GLU B B	87 87	. 59.433	110.601	-0.458	1.00
9.32	1 . .							
ATOM 3991	CB	CB	. GLU GLU GLU B B	87 87	. 59.071	110.425	-1.936	1.00
10.40	1 . .							
ATOM 3992	CG	CG	. GLU GLU GLU B B	87 87	. 58.897	111.762	-2.712	1.00
16.45	1 . .							
ATOM 3993	CD	CD	. GLU GLU GLU B B	87 87	. 58.629	111.564	-4.233	1.00
22.85	1 . .							
ATOM 3994	OE1	OE1	. GLU GLU GLU B B	87 87	. 58.451	112.578	-4.946	1.00
25.50	1 . .							
ATOM 3995	OE2	OE2	. GLU GLU GLU B B	87 87	. 58.598	110.408	-4.712	1.00
22.78	1 . .							
ATOM 3996	C	C	. GLU GLU GLU B B	87 87	. 58.483	111.565	0.272	1.00
9.68	1 . .							
ATOM 3997	O	O	. GLU GLU GLU B B	87 87	. 58.830	112.742	0.446	1.00
7.38	1 . .							
ATOM 3998	N	N	. LYS LYS LYS B B	88 88	. 57.307	111.080	0.705	1.00
8.62	1 . .							
ATOM 3999	CA	CA	. LYS LYS LYS B B	88 88	. 56.411	111.907	1.538	1.00
11.38	1 . .							
ATOM 4000	CB	CB	. LYS LYS LYS B B	88 88	. 55.163	111.122	1.897	1.00
12.23	1 . .							
ATOM 4001	CG	CG	. LYS LYS LYS B B	88 88	. 54.399	110.652	0.698	1.00
14.38	1 . .							
ATOM 4002	CD	CD	. LYS LYS LYS B B	88 88	. 53.525	111.728	0.078	1.00
18.33	1 . .							
ATOM 4003	CE	CE	. LYS LYS LYS B B	88 88	. 52.081	111.226	-0.065	1.00
20.31	1 . .							
ATOM 4004	NZ	NZ	. LYS LYS LYS B B	88 88	. 51.473	111.004	1.310	1.00
24.38	1 . .							
ATOM 4005	C	C	. LYS LYS LYS B B	88 88	. 57.060	112.459	2.814	1.00
10.21	1 . .							
ATOM 4006	O	O	. LYS LYS LYS B B	88 88	. 56.945	113.654	3.176	1.00
9.48	1 . .							
ATOM 4007	N	N	. LEU LEU LEU B B	89 89	. 57.793	111.581	3.477	1.00
9.76	1 . .							
ATOM 4008	CA	CA	. LEU LEU LEU B B	89 89	. 58.423	111.942	4.739	1.00
7.81	1 . .							
ATOM 4009	CB	CB	. LEU LEU LEU B B	89 89	. 58.817	110.714	5.546	1.00
8.21	1 . .							
ATOM 4010	CG	CG	. LEU LEU LEU B B	89 89	. 57.676	110.125	6.439	1.00
7.38	1 . .							
ATOM 4011	CD1	CD1	. LEU LEU LEU B B	89 89	. 58.079	108.785	6.962	1.00
8.39	1 . .							

ATOM 4012	CD2	CD2	. LEU LEU LEU B B 89 89 .	57.287	110.959	7.626	1.00
8.15	1 . .						
ATOM 4013	C	C	. LEU LEU LEU B B 89 89 .	59.601	112.923	4.552	1.00
7.28	1 . .						
ATOM 4014	O	O	. LEU LEU LEU B B 89 89 .	59.671	113.948	5.231	1.00
7.15	1 . .						
ATOM 4015	N	N	. ASP ASP ASP B B 90 90 .	60.436	112.678	3.549	1.00
6.93	1 . .						
ATOM 4016	CA	CA	. ASP ASP ASP B B 90 90 .	61.555	113.542	3.273	1.00
7.67	1 . .						
ATOM 4017	CB	CB	. ASP ASP ASP B B 90 90 .	62.419	112.986	2.151	1.00
7.06	1 . .						
ATOM 4018	CG	CG	. ASP ASP ASP B B 90 90 .	63.410	111.974	2.635	1.00
7.76	1 . .						
ATOM 4019	OD1	OD1	. ASP ASP ASP B B 90 90 .	63.700	111.958	3.847	1.00
8.23	1 . .						
ATOM 4020	OD2	OD2	. ASP ASP ASP B B 90 90 .	63.850	111.149	1.817	1.00
10.50	1 . .						
ATOM 4021	C	C	. ASP ASP ASP B B 90 90 .	61.004	114.924	2.882	1.00
8.33	1 . .						
ATOM 4022	O	O	. ASP ASP ASP B B 90 90 .	61.546	115.939	3.293	1.00
6.12	1 . .						
ATOM 4023	N	N	. ASN ASN ASN B B 91 91 .	59.916	114.921	2.089	1.00
9.65	1 . .						
ATOM 4024	CA	CA	. ASN ASN ASN B B 91 91 .	59.395	116.168	1.524	1.00
11.10	1 . .						
ATOM 4025	CB	CB	. ASN ASN ASN B B 91 91 .	58.370	115.930	0.404	1.00
12.82	1 . .						
ATOM 4026	CG	CG	. ASN ASN ASN B B 91 91 .	58.096	117.189	-0.409	1.00
17.20	1 . .						
ATOM 4027	OD1	OD1	. ASN ASN ASN B B 91 91 .	57.031	117.797	-0.291	1.00
23.49	1 . .						
ATOM 4028	ND2	ND2	. ASN ASN ASN B B 91 91 .	59.067	117.600	-1.213	1.00
18.09	1 . .						
ATOM 4029	C	C	. ASN ASN ASN B B 91 91 .	58.767	116.982	2.643	1.00
10.17	1 . .						
ATOM 4030	O	O	. ASN ASN ASN B B 91 91 .	58.894	118.178	2.666	1.00
10.31	1 . .						
ATOM 4031	N	N	. LEU LEU LEU B B 92 92 .	58.142	116.303	3.601	1.00
9.80	1 . .						
ATOM 4032	CA	CA	. LEU LEU LEU B B 92 92 .	57.533	117.016	4.725	1.00
8.53	1 . .						
ATOM 4033	CB	CB	. LEU LEU LEU B B 92 92 .	56.712	116.075	5.611	1.00
9.47	1 . .						
ATOM 4034	CG	CG	. LEU LEU LEU B B 92 92 .	56.125	116.645	6.918	1.00
11.03	1 . .						
ATOM 4035	CD1	CD1	. LEU LEU LEU B B 92 92 .	55.212	117.959	6.700	1.00
7.95	1 . .						
ATOM 4036	CD2	CD2	. LEU LEU LEU B B 92 92 .	55.248	115.578	7.614	1.00
9.53	1 . .						
ATOM 4037	C	C	. LEU LEU LEU B B 92 92 .	58.618	117.732	5.502	1.00
8.10	1 . .						
ATOM 4038	O	O	. LEU LEU LEU B B 92 92 .	58.499	118.903	5.862	1.00
8.78	1 . .						

ATOM 4039	N	N	. MET MET MET B B 93 93 .	59.720	117.025	5.719	1.00
5.74	1 . .						
ATOM 4040	CA	CA	. MET MET MET B B 93 93 .	60.846	117.643	6.393	1.00
5.81	1 . .						
ATOM 4041	CB	CB	. MET MET MET B B 93 93 .	61.947	116.618	6.676	1.00
7.24	1 . .						
ATOM 4042	CG	CG	. MET MET MET B B 93 93 .	61.634	115.507	7.683	1.00
4.96	1 . .						
ATOM 4043	SD	SD	. MET MET MET B B 93 93 .	63.174	114.627	8.227	1.00
7.55	1 . .						
ATOM 4044	CE	CE	. MET MET MET B B 93 93 .	63.616	113.588	6.823	1.00
7.51	1 . .						
ATOM 4045	C	C	. MET MET MET B B 93 93 .	61.480	118.813	5.641	1.00
6.63	1 . .						
ATOM 4046	O	O	. MET MET MET B B 93 93 .	61.881	119.846	6.241	1.00
7.07	1 . .						
ATOM 4047	N	N	. LEU LEU LEU B B 94 94 .	61.597	118.667	4.320	1.00
4.88	1 . .						
ATOM 4048	CA	CA	. LEU LEU LEU B B 94 94 .	62.059	119.831	3.552	1.00
5.90	1 . .						
ATOM 4049	CB	CB	. LEU LEU LEU B B 94 94 .	62.180	119.505	2.068	1.00
5.26	1 . .						
ATOM 4050	CG	CG	. LEU LEU LEU B B 94 94 .	63.082	118.410	1.499	1.00
8.52	1 . .						
ATOM 4051	CD1	CD1	. LEU LEU LEU B B 94 94 .	63.173	118.345	-0.027	1.00
11.28	1 . .						
ATOM 4052	CD2	CD2	. LEU LEU LEU B B 94 94 .	64.396	118.531	2.030	1.00
8.18	1 . .						
ATOM 4053	C	C	. LEU LEU LEU B B 94 94 .	61.158	121.067	3.696	1.00
7.47	1 . .						
ATOM 4054	O	O	. LEU LEU LEU B B 94 94 .	61.654	122.160	3.786	1.00
8.98	1 . .						
ATOM 4055	N	N	. GLU GLU GLU B B 95 95 .	59.847	120.866	3.693	1.00
7.99	1 . .						
ATOM 4056	CA	CA	. GLU GLU GLU B B 95 95 .	58.868	121.986	3.798	1.00
10.52	1 . .						
ATOM 4057	CB	CB	. GLU GLU GLU B B 95 95 .	57.453	121.478	3.504	1.00
11.15	1 . .						
ATOM 4058	CG	CG	. GLU GLU GLU B B 95 95 .	57.351	120.847	2.151	1.00
16.78	1 . .						
ATOM 4059	CD	CD	. GLU GLU GLU B B 95 95 .	57.151	121.847	1.050	1.00
24.87	1 . .						
ATOM 4060	OE1	OE1	. GLU GLU GLU B B 95 95 .	55.989	121.928	0.582	1.00
29.02	1 . .						
ATOM 4061	OE2	OE2	. GLU GLU GLU B B 95 95 .	58.132	122.550	0.660	1.00
24.08	1 . .						
ATOM 4062	C	C	. GLU GLU GLU B B 95 95 .	58.951	122.604	5.208	1.00
11.01	1 . .						
ATOM 4063	O	O	. GLU GLU GLU B B 95 95 .	58.863	123.810	5.369	1.00
11.88	1 . .						
ATOM 4064	N	N	. LEU LEU LEU B B 96 96 .	59.100	121.759	6.231	1.00
10.09	1 . .						
ATOM 4065	CA	CA	. LEU LEU LEU B B 96 96 .	59.237	122.263	7.586	1.00
9.55	1 . .						

ATOM 4066	CB	CB	. LEU LEU LEU B B 96 96 .	59.317	121.114	8.600	1.00
10.31	1 . .						
ATOM 4067	CG	CG	. LEU LEU LEU B B 96 96 .	58.030	120.543	9.132	1.00
12.04	1 . .						
ATOM 4068	CD1	CD1	. LEU LEU LEU B B 96 96 .	58.288	119.157	9.771	1.00
15.65	1 . .						
ATOM 4069	CD2	CD2	. LEU LEU LEU B B 96 96 .	57.293	121.475	10.086	1.00
12.66	1 . .						
ATOM 4070	C	C	. LEU LEU LEU B B 96 96 .	60.473	123.156	7.745	1.00
10.44	1 . .						
ATOM 4071	O	O	. LEU LEU LEU B B 96 96 .	60.442	124.183	8.373	1.00
10.09	1 . .						
ATOM 4072	N	N	. ASP ASP ASP B B 97 97 .	61.570	122.745	7.140	1.00
9.72	1 . .						
ATOM 4073	CA	CA	. ASP ASP ASP B B 97 97 .	62.748	123.548	7.164	1.00
9.13	1 . .						
ATOM 4074	CB	CB	. ASP ASP ASP B B 97 97 .	63.932	122.732	6.599	1.00
11.28	1 . .						
ATOM 4075	CG	CG	. ASP ASP ASP B B 97 97 .	65.151	123.579	6.326	1.00
8.90	1 . .						
ATOM 4076	OD1	OD1	. ASP ASP ASP B B 97 97 .	66.098	123.601	7.142	1.00
11.49	1 . .						
ATOM 4077	OD2	OD2	. ASP ASP ASP B B 97 97 .	65.197	124.225	5.257	1.00
11.60	1 . .						
ATOM 4078	C	C	. ASP ASP ASP B B 97 97 .	62.527	124.837	6.336	1.00
9.20	1 . .						
ATOM 4079	O	O	. ASP ASP ASP B B 97 97 .	63.014	125.916	6.722	1.00
8.69	1 . .						
ATOM 4080	N	N	. GLY GLY GLY B B 98 98 .	61.805	124.726	5.211	1.00
9.00	1 . .						
ATOM 4081	CA	CA	. GLY GLY GLY B B 98 98 .	61.443	125.916	4.405	1.00
10.31	1 . .						
ATOM 4082	C	C	. GLY GLY GLY B B 98 98 .	62.616	126.664	3.753	1.00
12.04	1 . .						
ATOM 4083	O	O	. GLY GLY GLY B B 98 98 .	62.452	127.807	3.283	1.00
14.63	1 . .						
ATOM 4084	N	N	. THR THR THR B B 99 99 .	63.805	126.081	3.669	1.00
13.10	1 . .						
ATOM 4085	CA	CA	. THR THR THR B B 99 99 .	64.948	126.788	3.025	1.00
11.69	1 . .						
ATOM 4086	CB	CB	. THR THR THR B B 99 99 .	66.002	127.261	4.035	1.00
11.48	1 . .						
ATOM 4087	OG1	OG1	. THR THR THR B B 99 99 .	66.762	126.135	4.489	1.00
11.11	1 . .						
ATOM 4088	CG2	CG2	. THR THR THR B B 99 99 .	65.355	127.974	5.317	1.00
11.61	1 . .						
ATOM 4089	C	C	. THR THR THR B B 99 99 .	65.607	125.939	1.945	1.00
13.20	1 . .						
ATOM 4090	O	O	. THR THR THR B B 99 99 .	65.588	124.723	2.034	1.00
13.54	1 . .						
ATOM 4091	N	N	. GLU GLU GLU B B 100 100 .	66.139	126.564	0.901	1.00
13.59	1 . .						
ATOM 4092	CA	CA	. GLU GLU GLU B B 100 100 .	66.676	125.817	-0.201	1.00
14.22	1 . .						

ATOM 4093	CB	CB	. GLU GLU GLU B B 100 100 .	67.143	126.754	-1.320	1.00
15.66	1 . .						
ATOM 4094	CG	CG	. GLU GLU GLU B B 100 100 .	67.737	125.984	-2.505	1.00
21.14	1 . .						
ATOM 4095	CD	CD	. GLU GLU GLU B B 100 100 .	66.747	124.970	-3.066	1.00
26.95	1 . .						
ATOM 4096	OE1	OE1	. GLU GLU GLU B B 100 100 .	65.851	125.390	-3.855	1.00
29.93	1 . .						
ATOM 4097	OE2	OE2	. GLU GLU GLU B B 100 100 .	66.847	123.765	-2.685	1.00
30.80	1 . .						
ATOM 4098	C	C	. GLU GLU GLU B B 100 100 .	67.840	124.930	0.270	1.00
11.51	1 . .						
ATOM 4099	O	O	. GLU GLU GLU B B 100 100 .	67.930	123.772	-0.137	1.00
13.38	1 . .						
ATOM 4100	N	N	. ASN ASN ASN B B 101 101 .	68.731	125.472	1.099	1.00
8.59	1 . .						
ATOM 4101	CA	CA	. ASN ASN ASN B B 101 101 .	69.915	124.743	1.475	1.00
9.29	1 . .						
ATOM 4102	CB	CB	. ASN ASN ASN B B 101 101 .	71.182	125.602	1.383	1.00
9.34	1 . .						
ATOM 4103	CG	CG	. ASN ASN ASN B B 101 101 .	71.202	126.748	2.404	1.00
13.99	1 . .						
ATOM 4104	OD1	OD1	. ASN ASN ASN B B 101 101 .	72.278	127.123	2.917	1.00
18.47	1 . .						
ATOM 4105	ND2	ND2	. ASN ASN ASN B B 101 101 .	70.003	127.296	2.736	1.00
16.05	1 . .						
ATOM 4106	C	C	. ASN ASN ASN B B 101 101 .	69.840	124.095	2.825	1.00
7.15	1 . .						
ATOM 4107	O	O	. ASN ASN ASN B B 101 101 .	70.856	123.685	3.356	1.00
6.64	1 . .						
ATOM 4108	N	N	. LYS LYS LYS B B 102 102 .	68.636	123.990	3.387	1.00
5.26	1 . .						
ATOM 4109	CA	CA	. LYS LYS LYS B B 102 102 .	68.474	123.262	4.698	1.00
5.81	1 . .						
ATOM 4110	CB	CB	. LYS LYS LYS B B 102 102 .	68.929	121.799	4.613	1.00
6.29	1 . .						
ATOM 4111	CG	CG	. LYS LYS LYS B B 102 102 .	68.174	121.026	3.583	1.00
7.29	1 . .						
ATOM 4112	CD	CD	. LYS LYS LYS B B 102 102 .	68.626	119.565	3.358	1.00
7.52	1 . .						
ATOM 4113	CE	CE	. LYS LYS LYS B B 102 102 .	67.544	118.820	2.546	1.00
7.20	1 . .						
ATOM 4114	NZ	NZ	. LYS LYS LYS B B 102 102 .	67.576	119.329	1.196	1.00
7.53	1 . .						
ATOM 4115	C	C	. LYS LYS LYS B B 102 102 .	69.184	123.966	5.839	1.00
5.88	1 . .						
ATOM 4116	O	O	. LYS LYS LYS B B 102 102 .	69.690	123.331	6.761	1.00
6.32	1 . .						
ATOM 4117	N	N	. SER SER SER B B 103 103 .	69.186	125.288	5.814	1.00
6.55	1 . .						
ATOM 4118	CA	CA	. SER SER SER B B 103 103 .	69.868	126.100	6.795	1.00
8.28	1 . .						
ATOM 4119	CB	CB	. SER SER SER B B 103 103 .	70.335	127.387	6.158	1.00
9.65	1 . .						

ATOM 4120	OG	OG	. SER SER SER B B 103 103 .	69.213	128.058	5.567	1.00
11.17	1 . . .						
ATOM 4121	C	C	. SER SER SER B B 103 103 .	69.025	126.409	8.049	1.00
8.38	1 . . .						
ATOM 4122	O	O	. SER SER SER B B 103 103 .	69.546	126.924	9.035	1.00
9.79	1 . . .						
ATOM 4123	N	N	. LYS LYS LYS B B 104 104 .	67.756	126.022	8.047	1.00
7.75	1 . . .						
ATOM 4124	CA	CA	. LYS LYS LYS B B 104 104 .	66.898	126.243	9.221	1.00
8.56	1 . . .						
ATOM 4125	CB	CB	. LYS LYS LYS B B 104 104 .	65.424	126.360	8.774	1.00
8.60	1 . . .						
ATOM 4126	CG	CG	. LYS LYS LYS B B 104 104 .	64.363	126.527	9.844	1.00
12.56	1 . . .						
ATOM 4127	CD	CD	. LYS LYS LYS B B 104 104 .	64.596	127.824	10.596	1.00
16.37	1 . . .						
ATOM 4128	CE	CE	. LYS LYS LYS B B 104 104 .	63.616	128.011	11.772	1.00
17.40	1 . . .						
ATOM 4129	NZ	NZ	. LYS LYS LYS B B 104 104 .	63.865	129.251	12.528	1.00
16.17	1 . . .						
ATOM 4130	C	C	. LYS LYS LYS B B 104 104 .	67.176	125.114	10.249	1.00
7.73	1 . . .						
ATOM 4131	O	O	. LYS LYS LYS B B 104 104 .	67.555	125.375	11.407	1.00
7.68	1 . . .						
ATOM 4132	N	N	. PHE PHE PHE B B 105 105 .	67.101	123.888	9.795	1.00
7.07	1 . . .						
ATOM 4133	CA	CA	. PHE PHE PHE B B 105 105 .	67.393	122.717	10.664	1.00
6.46	1 . . .						
ATOM 4134	CB	CB	. PHE PHE PHE B B 105 105 .	66.422	121.545	10.456	1.00
5.75	1 . . .						
ATOM 4135	CG	CG	. PHE PHE PHE B B 105 105 .	64.988	121.910	10.658	1.00
7.58	1 . . .						
ATOM 4136	CD1	CD1	. PHE PHE PHE B B 105 105 .	63.968	121.234	9.984	1.00
8.19	1 . . .						
ATOM 4137	CE1	CE1	. PHE PHE PHE B B 105 105 .	62.588	121.558	10.221	1.00
11.37	1 . . .						
ATOM 4138	CZ	CZ	. PHE PHE PHE B B 105 105 .	62.282	122.612	11.129	1.00
11.89	1 . . .						
ATOM 4139	CE2	CE2	. PHE PHE PHE B B 105 105 .	63.311	123.291	11.790	1.00
9.83	1 . . .						
ATOM 4140	CD2	CD2	. PHE PHE PHE B B 105 105 .	64.652	122.919	11.555	1.00
10.24	1 . . .						
ATOM 4141	C	C	. PHE PHE PHE B B 105 105 .	68.810	122.164	10.572	1.00
5.51	1 . . .						
ATOM 4142	O	O	. PHE PHE PHE B B 105 105 .	69.299	121.561	11.508	1.00
5.40	1 . . .						
ATOM 4143	N	N	. GLY GLY GLY B B 106 106 .	69.466	122.376	9.445	1.00
5.05	1 . . .						
ATOM 4144	CA	CA	. GLY GLY GLY B B 106 106 .	70.749	121.766	9.114	1.00
5.88	1 . . .						
ATOM 4145	C	C	. GLY GLY GLY B B 106 106 .	70.511	120.523	8.291	1.00
3.30	1 . . .						
ATOM 4146	O	O	. GLY GLY GLY B B 106 106 .	69.558	119.737	8.554	1.00
3.23	1 . . .						

ATOM 4147	N	N	. ALA ALA ALA B B	107 107	. 71.342	120.314	7.289	1.00
5.04	1	. . .						
ATOM 4148	CA	CA	. ALA ALA ALA B B	107 107	. 71.224	119.104	6.450	1.00
3.73	1	. . .						
ATOM 4149	CB	CB	. ALA ALA ALA B B	107 107	. 72.144	119.162	5.218	1.00
4.10	1	. . .						
ATOM 4150	C	C	. ALA ALA ALA B B	107 107	. 71.504	117.842	7.255	1.00
3.09	1	. . .						
ATOM 4151	O	O	. ALA ALA ALA B B	107 107	. 70.972	116.775	6.938	1.00
4.18	1	. . .						
ATOM 4152	N	N	. ASN ASN ASN B B	108 108	. 72.357	118.006	8.261	1.00
2.75	1	. . .						
ATOM 4153	CA	CA	. ASN ASN ASN B B	108 108	. 72.693	116.951	9.188	1.00
2.88	1	. . .						
ATOM 4154	CB	CB	. ASN ASN ASN B B	108 108	. 73.950	117.270	9.978	1.00
3.48	1	. . .						
ATOM 4155	CG	CG	. ASN ASN ASN B B	108 108	. 73.925	118.626	10.669	1.00
3.87	1	. . .						
ATOM 4156	OD1	OD1	. ASN ASN ASN B B	108 108	. 73.208	119.555	10.228	1.00
3.95	1	. . .						
ATOM 4157	ND2	ND2	. ASN ASN ASN B B	108 108	. 74.852	118.813	11.647	1.00
4.23	1	. . .						
ATOM 4158	C	C	. ASN ASN ASN B B	108 108	. 71.509	116.515	10.012	1.00
3.85	1	. . .						
ATOM 4159	O	O	. ASN ASN ASN B B	108 108	. 71.412	115.335	10.326	1.00
6.50	1	. . .						
ATOM 4160	N	N	. ALA ALA ALA B B	109 109	. 70.607	117.431	10.396	1.00
3.84	1	. . .						
ATOM 4161	CA	CA	. ALA ALA ALA B B	109 109	. 69.362	117.094	11.115	1.00
4.47	1	. . .						
ATOM 4162	CB	CB	. ALA ALA ALA B B	109 109	. 68.688	118.370	11.576	1.00
5.43	1	. . .						
ATOM 4163	C	C	. ALA ALA ALA B B	109 109	. 68.404	116.328	10.188	1.00
5.10	1	. . .						
ATOM 4164	O	O	. ALA ALA ALA B B	109 109	. 67.901	115.222	10.556	1.00
3.13	1	. . .						
ATOM 4165	N	N	. ILE ILE ILE B B	110 110	. 68.185	116.861	8.972	1.00
5.16	1	. . .						
ATOM 4166	CA	CA	. ILE ILE ILE B B	110 110	. 67.208	116.223	8.161	1.00
5.67	1	. . .						
ATOM 4167	CB	CB	. ILE ILE ILE B B	110 110	. 66.838	117.097	6.941	1.00
5.42	1	. . .						
ATOM 4168	CG1	CG1	. ILE ILE ILE B B	110 110	. 66.230	118.431	7.399	1.00
7.42	1	. . .						
ATOM 4169	CD1	CD1	. ILE ILE ILE B B	110 110	. 65.784	119.331	6.240	1.00
10.52	1	. . .						
ATOM 4170	CG2	CG2	. ILE ILE ILE B B	110 110	. 65.948	116.340	5.970	1.00
6.13	1	. . .						
ATOM 4171	C	C	. ILE ILE ILE B B	110 110	. 67.718	114.800	7.762	1.00
3.76	1	. . .						
ATOM 4172	O	O	. ILE ILE ILE B B	110 110	. 66.969	113.823	7.649	1.00
3.89	1	. . .						
ATOM 4173	N	N	. LEU LEU LEU B B	111 111	. 68.999	114.746	7.421	1.00
3.48	1	. . .						

ATOM 4174	CA	CA	. LEU LEU LEU B B 111 111 .	69.504	113.502	6.857	1.00
4.19	1 . .						
ATOM 4175	CB	CB	. LEU LEU LEU B B 111 111 .	70.958	113.705	6.304	1.00
2.63	1 . .						
ATOM 4176	CG	CG	. LEU LEU LEU B B 111 111 .	71.494	112.401	5.705	1.00
3.59	1 . .						
ATOM 4177	CD1	CD1	. LEU LEU LEU B B 111 111 .	70.484	111.908	4.591	1.00
5.16	1 . .						
ATOM 4178	CD2	CD2	. LEU LEU LEU B B 111 111 .	72.902	112.590	5.212	1.00
4.14	1 . .						
ATOM 4179	C	C	. LEU LEU LEU B B 111 111 .	69.475	112.401	7.896	1.00
3.55	1 . .						
ATOM 4180	O	O	. LEU LEU LEU B B 111 111 .	69.112	111.266	7.570	1.00
4.19	1 . .						
ATOM 4181	N	N	. GLY GLY GLY B B 112 112 .	69.859	112.711	9.151	1.00
4.17	1 . .						
ATOM 4182	CA	CA	. GLY GLY GLY B B 112 112 .	69.846	111.642	10.150	1.00
3.96	1 . .						
ATOM 4183	C	C	. GLY GLY GLY B B 112 112 .	68.434	111.044	10.221	1.00
3.56	1 . .						
ATOM 4184	O	O	. GLY GLY GLY B B 112 112 .	68.214	109.818	10.343	1.00
3.94	1 . .						
ATOM 4185	N	N	. VAL VAL VAL B B 113 113 .	67.410	111.887	10.199	1.00
3.24	1 . .						
ATOM 4186	CA	CA	. VAL VAL VAL B B 113 113 .	66.064	111.289	10.186	1.00
3.25	1 . .						
ATOM 4187	CB	CB	. VAL VAL VAL B B 113 113 .	65.009	112.384	10.483	1.00
4.32	1 . .						
ATOM 4188	CG1	CG1	. VAL VAL VAL B B 113 113 .	63.635	111.818	10.452	1.00
3.90	1 . .						
ATOM 4189	CG2	CG2	. VAL VAL VAL B B 113 113 .	65.311	113.021	11.845	1.00
4.85	1 . .						
ATOM 4190	C	C	. VAL VAL VAL B B 113 113 .	65.712	110.485	8.891	1.00
3.81	1 . .						
ATOM 4191	O	O	. VAL VAL VAL B B 113 113 .	65.109	109.426	8.928	1.00
5.75	1 . .						
ATOM 4192	N	N	. SER SER SER B B 114 114 .	66.103	111.036	7.740	1.00
4.37	1 . .						
ATOM 4193	CA	CA	. SER SER SER B B 114 114 .	65.849	110.470	6.455	1.00
4.16	1 . .						
ATOM 4194	CB	CB	. SER SER SER B B 114 114 .	66.501	111.379	5.380	1.00
5.62	1 . .						
ATOM 4195	OG	OG	. SER SER SER B B 114 114 .	66.026	110.996	4.121	1.00
6.01	1 . .						
ATOM 4196	C	C	. SER SER SER B B 114 114 .	66.428	109.028	6.391	1.00
3.34	1 . .						
ATOM 4197	O	O	. SER SER SER B B 114 114 .	65.758	108.086	5.936	1.00
4.03	1 . .						
ATOM 4198	N	N	. LEU LEU LEU B B 115 115 .	67.648	108.899	6.899	1.00
4.10	1 . .						
ATOM 4199	CA	CA	. LEU LEU LEU B B 115 115 .	68.342	107.614	6.860	1.00
3.94	1 . .						
ATOM 4200	CB	CB	. LEU LEU LEU B B 115 115 .	69.817	107.765	7.284	1.00
4.79	1 . .						





ATOM 4228	CD	CD	. LYS LYS LYS B B	119 119	. 69.488	102.374	9.073	1.00
9.20	1 . .							
ATOM 4229	CE	CE	. LYS LYS LYS B B	119 119	. 70.776	102.971	8.505	1.00
10.27	1 . .							
ATOM 4230	NZ	NZ	. LYS LYS LYS B B	119 119	. 71.992	103.025	9.403	1.00
11.11	1 . .							
ATOM 4231	C	C	. LYS LYS LYS B B	119 119	. 64.642	101.044	8.023	1.00
8.31	1 . .							
ATOM 4232	O	O	. LYS LYS LYS B B	119 119	. 64.366	99.844	7.861	1.00
8.43	1 . .							
ATOM 4233	N	N	. ALA ALA ALA B B	120 120	. 63.805	101.904	8.606	1.00
9.86	1 . .							
ATOM 4234	CA	CA	. ALA ALA ALA B B	120 120	. 62.523	101.462	9.147	1.00
8.95	1 . .							
ATOM 4235	CB	CB	. ALA ALA ALA B B	120 120	. 61.912	102.589	10.042	1.00
9.28	1 . .							
ATOM 4236	C	C	. ALA ALA ALA B B	120 120	. 61.590	101.048	8.025	1.00
10.07	1 . .							
ATOM 4237	O	O	. ALA ALA ALA B B	120 120	. 60.743	100.123	8.186	1.00
12.09	1 . .							
ATOM 4238	N	N	. GLY GLY GLY B B	121 121	. 61.710	101.728	6.863	1.00
8.15	1 . .							
ATOM 4239	CA	CA	. GLY GLY GLY B B	121 121	. 60.878	101.395	5.729	1.00
10.33	1 . .							
ATOM 4240	C	C	. GLY GLY GLY B B	121 121	. 61.132	99.988	5.197	1.00
8.43	1 . .							
ATOM 4241	O	O	. GLY GLY GLY B B	121 121	. 60.193	99.210	4.835	1.00
9.75	1 . .							
ATOM 4242	N	N	. ALA ALA ALA B B	122 122	. 62.420	99.699	5.098	1.00
8.78	1 . .							
ATOM 4243	CA	CA	. ALA ALA ALA B B	122 122	. 62.871	98.404	4.707	1.00
10.09	1 . .							
ATOM 4244	CB	CB	. ALA ALA ALA B B	122 122	. 64.385	98.341	4.780	1.00
7.66	1 . .							
ATOM 4245	C	C	. ALA ALA ALA B B	122 122	. 62.233	97.329	5.608	1.00
10.86	1 . .							
ATOM 4246	O	O	. ALA ALA ALA B B	122 122	. 61.633	96.389	5.113	1.00
8.59	1 . .							
ATOM 4247	N	N	. ALA ALA ALA B B	123 123	. 62.353	97.502	6.914	1.00
11.80	1 . .							
ATOM 4248	CA	CA	. ALA ALA ALA B B	123 123	. 61.752	96.539	7.809	1.00
11.62	1 . .							
ATOM 4249	CB	CB	. ALA ALA ALA B B	123 123	. 62.087	96.837	9.195	1.00
11.21	1 . .							
ATOM 4250	C	C	. ALA ALA ALA B B	123 123	. 60.259	96.458	7.625	1.00
11.74	1 . .							
ATOM 4251	O	O	. ALA ALA ALA B B	123 123	. 59.717	95.378	7.664	1.00
11.03	1 . .							
ATOM 4252	N	N	. GLU GLU GLU B B	124 124	. 59.564	97.578	7.424	1.00
13.08	1 . .							
ATOM 4253	CA	CA	. GLU GLU GLU B B	124 124	. 58.136	97.486	7.304	1.00
15.87	1 . .							
ATOM 4254	CB	CB	. GLU GLU GLU B B	124 124	. 57.490	98.879	7.485	1.00
16.89	1 . .							

ATOM 4255	CG	CG	. GLU GLU GLU B B	124 124	. 55.980	98.952	7.271	1.00
20.08	1 . .							
ATOM 4256	CD	CD	. GLU GLU GLU B B	124 124	. 55.141	98.067	8.192	1.00
25.24	1 . .							
ATOM 4257	OE1	OE1	. GLU GLU GLU B B	124 124	. 53.917	98.020	7.964	1.00
30.77	1 . .							
ATOM 4258	OE2	OE2	. GLU GLU GLU B B	124 124	. 55.660	97.433	9.140	1.00
26.92	1 . .							
ATOM 4259	C	C	. GLU GLU GLU B B	124 124	. 57.760	96.769	5.991	1.00
15.89	1 . .							
ATOM 4260	O	O	. GLU GLU GLU B B	124 124	. 56.705	96.139	5.917	1.00
18.31	1 . .							
ATOM 4261	N	N	. ARG ARG ARG B B	125 125	. 58.644	96.824	4.981	1.00
17.06	1 . .							
ATOM 4262	CA	CA	. ARG ARG ARG B B	125 125	. 58.495	96.093	3.717	1.00
16.32	1 . .							
ATOM 4263	CB	CB	. ARG ARG ARG B B	125 125	. 59.284	96.793	2.574	1.00
16.99	1 . .							
ATOM 4264	CG	CG	. ARG ARG ARG B B	125 125	. 58.770	98.190	2.144	1.00
17.95	1 . .							
ATOM 4265	CD	CD	. ARG ARG ARG B B	125 125	. 57.360	98.173	1.561	1.00
20.25	1 . .							
ATOM 4266	NE	NE	. ARG ARG ARG B B	125 125	. 57.069	99.377	0.789	1.00
22.94	1 . .							
ATOM 4267	CZ	CZ	. ARG ARG ARG B B	125 125	. 55.844	99.781	0.439	1.00
24.76	1 . .							
ATOM 4268	NH1	NH1	. ARG ARG ARG B B	125 125	. 54.782	99.089	0.797	1.00
24.90	1 . .							
ATOM 4269	NH2	NH2	. ARG ARG ARG B B	125 125	. 55.669	100.902	-0.274	1.00
26.67	1 . .							
ATOM 4270	C	C	. ARG ARG ARG B B	125 125	. 58.947	94.618	3.842	1.00
17.22	1 . .							
ATOM 4271	O	O	. ARG ARG ARG B B	125 125	. 58.729	93.808	2.910	1.00
18.62	1 . .							
ATOM 4272	N	N	. GLU GLU GLU B B	126 126	. 59.553	94.264	4.976	1.00
16.29	1 . .							
ATOM 4273	CA	CA	. GLU GLU GLU B B	126 126	. 60.179	92.950	5.159	1.00
16.99	1 . .							
ATOM 4274	CB	CB	. GLU GLU GLU B B	126 126	. 59.149	91.811	5.313	1.00
18.62	1 . .							
ATOM 4275	CG	CG	. GLU GLU GLU B B	126 126	. 58.350	91.792	6.603	1.00
21.87	1 . .							
ATOM 4276	CD	CD	. GLU GLU GLU B B	126 126	. 57.384	90.592	6.681	1.00
26.30	1 . .							
ATOM 4277	OE1	OE1	. GLU GLU GLU B B	126 126	. 57.642	89.651	7.467	1.00
29.79	1 . .							
ATOM 4278	OE2	OE2	. GLU GLU GLU B B	126 126	. 56.363	90.583	5.951	1.00
27.74	1 . .							
ATOM 4279	C	C	. GLU GLU GLU B B	126 126	. 61.112	92.673	3.983	1.00
15.50	1 . .							
ATOM 4280	O	O	. GLU GLU GLU B B	126 126	. 60.992	91.660	3.289	1.00
17.33	1 . .							
ATOM 4281	N	N	. LEU LEU LEU B B	127 127	. 62.039	93.600	3.762	1.00
13.48	1 . .							

ATOM 4282	CA	CA	. LEU LEU LEU B B	127 127	. 63.103	93.483	2.778	1.00
11.43	1 . .							
ATOM 4283	CB	CB	. LEU LEU LEU B B	127 127	. 62.875	94.444	1.582	1.00
12.05	1 . .							
ATOM 4284	CG	CG	. LEU LEU LEU B B	127 127	. 61.589	94.221	0.806	1.00
12.98	1 . .							
ATOM 4285	CD1	CD1	. LEU LEU LEU B B	127 127	. 61.407	95.429	-0.077	1.00
10.88	1 . .							
ATOM 4286	CD2	CD2	. LEU LEU LEU B B	127 127	. 61.642	92.942	-0.005	1.00
14.25	1 . .							
ATOM 4287	C	C	. LEU LEU LEU B B	127 127	. 64.395	93.925	3.431	1.00
9.42	1 . .							
ATOM 4288	O	O	. LEU LEU LEU B B	127 127	. 64.403	94.841	4.251	1.00
9.34	1 . .							
ATOM 4289	N	N	. PRO PRO PRO B B	128 128	. 65.504	93.374	2.961	1.00
9.02	1 . .							
ATOM 4290	CA	CA	. PRO PRO PRO B B	128 128	. 66.751	94.022	3.324	1.00
8.27	1 . .							
ATOM 4291	CB	CB	. PRO PRO PRO B B	128 128	. 67.819	93.224	2.616	1.00
7.97	1 . .							
ATOM 4292	CG	CG	. PRO PRO PRO B B	128 128	. 67.151	92.152	1.916	1.00
12.37	1 . .							
ATOM 4293	CD	CD	. PRO PRO PRO B B	128 128	. 65.682	92.268	2.009	1.00
10.21	1 . .							
ATOM 4294	C	C	. PRO PRO PRO B B	128 128	. 66.851	95.450	2.799	1.00
7.06	1 . .							
ATOM 4295	O	O	. PRO PRO PRO B B	128 128	. 66.186	95.814	1.801	1.00
7.85	1 . .							
ATOM 4296	N	N	. LEU LEU LEU B B	129 129	. 67.692	96.242	3.446	1.00
7.15	1 . .							
ATOM 4297	CA	CA	. LEU LEU LEU B B	129 129	. 67.775	97.665	3.130	1.00
6.03	1 . .							
ATOM 4298	CB	CB	. LEU LEU LEU B B	129 129	. 68.761	98.403	4.043	1.00
5.46	1 . .							
ATOM 4299	CG	CG	. LEU LEU LEU B B	129 129	. 69.001	99.866	3.777	1.00
6.20	1 . .							
ATOM 4300	CD1	CD1	. LEU LEU LEU B B	129 129	. 67.751	100.740	3.832	1.00
7.10	1 . .							
ATOM 4301	CD2	CD2	. LEU LEU LEU B B	129 129	. 70.039	100.424	4.710	1.00
5.46	1 . .							
ATOM 4302	C	C	. LEU LEU LEU B B	129 129	. 68.155	97.867	1.659	1.00
6.31	1 . .							
ATOM 4303	O	O	. LEU LEU LEU B B	129 129	. 67.488	98.639	0.952	1.00
8.62	1 . .							
ATOM 4304	N	N	. TYR TYR TYR B B	130 130	. 69.189	97.149	1.159	1.00
5.60	1 . .							
ATOM 4305	CA	CA	. TYR TYR TYR B B	130 130	. 69.549	97.336	-0.319	1.00
6.28	1 . .							
ATOM 4306	CB	CB	. TYR TYR TYR B B	130 130	. 70.775	96.509	-0.731	1.00
6.23	1 . .							
ATOM 4307	CG	CG	. TYR TYR TYR B B	130 130	. 70.640	95.041	-0.586	1.00
6.48	1 . .							
ATOM 4308	CD1	CD1	. TYR TYR TYR B B	130 130	. 70.152	94.264	-1.661	1.00
6.51	1 . .							

ATOM 4309	CE1	CE1	. TYR TYR TYR B B 130 130 .	69.975	92.877	-1.552	1.00
9.33	1 . .						
ATOM 4310	CZ	CZ	. TYR TYR TYR B B 130 130 .	70.357	92.245	-0.324	1.00
8.69	1 . .						
ATOM 4311	OH	OH	. TYR TYR TYR B B 130 130 .	70.211	90.868	-0.258	1.00
13.01	1 . .						
ATOM 4312	CE2	CE2	. TYR TYR TYR B B 130 130 .	70.894	92.984	0.751	1.00
9.07	1 . .						
ATOM 4313	CD2	CD2	. TYR TYR TYR B B 130 130 .	71.023	94.417	0.603	1.00
8.03	1 . .						
ATOM 4314	C	C	. TYR TYR TYR B B 130 130 .	68.363	97.064	-1.295	1.00
6.52	1 . .						
ATOM 4315	O	O	. TYR TYR TYR B B 130 130 .	68.223	97.711	-2.391	1.00
9.25	1 . .						
ATOM 4316	N	N	. ARG ARG ARG B B 131 131 .	67.471	96.137	-0.915	1.00
7.87	1 . .						
ATOM 4317	CA	CA	. ARG ARG ARG B B 131 131 .	66.262	95.846	-1.730	1.00
9.18	1 . .						
ATOM 4318	CB	CB	. ARG ARG ARG B B 131 131 .	65.621	94.484	-1.477	1.00
10.01	1 . .						
ATOM 4319	CG	CG	. ARG ARG ARG B B 131 131 .	66.548	93.327	-1.822	1.00
16.60	1 . .						
ATOM 4320	CD	CD	. ARG ARG ARG B B 131 131 .	65.727	92.234	-2.527	1.00
25.12	1 . .						
ATOM 4321	NE	NE	. ARG ARG ARG B B 131 131 .	66.481	90.998	-2.765	1.00
31.36	1 . .						
ATOM 4322	CZ	CZ	. ARG ARG ARG B B 131 131 .	67.026	90.640	-3.933	1.00
34.74	1 . .						
ATOM 4323	NH1	NH1	. ARG ARG ARG B B 131 131 .	67.667	89.485	-4.026	1.00
34.86	1 . .						
ATOM 4324	NH2	NH2	. ARG ARG ARG B B 131 131 .	66.940	91.425	-5.011	1.00
35.64	1 . .						
ATOM 4325	C	C	. ARG ARG ARG B B 131 131 .	65.205	96.885	-1.615	1.00
8.01	1 . .						
ATOM 4326	O	O	. ARG ARG ARG B B 131 131 .	64.593	97.258	-2.617	1.00
10.45	1 . .						
ATOM 4327	N	N	. HIS HIS HIS B B 132 132 .	64.984	97.383	-0.408	1.00
7.10	1 . .						
ATOM 4328	CA	CA	. HIS HIS HIS B B 132 132 .	64.090	98.508	-0.254	1.00
8.19	1 . .						
ATOM 4329	CB	CB	. HIS HIS HIS B B 132 132 .	63.969	98.899	1.195	1.00
9.21	1 . .						
ATOM 4330	CG	CG	. HIS HIS HIS B B 132 132 .	63.001	100.022	1.445	1.00
8.62	1 . .						
ATOM 4331	ND1	ND1	. HIS HIS HIS B B 132 132 .	61.731	100.079	0.882	1.00
7.48	1 . .						
ATOM 4332	CE1	CE1	. HIS HIS HIS B B 132 132 .	61.110	101.150	1.335	1.00
8.83	1 . .						
ATOM 4333	NE2	NE2	. HIS HIS HIS B B 132 132 .	61.904	101.779	2.182	1.00
5.55	1 . .						
ATOM 4334	CD2	CD2	. HIS HIS HIS B B 132 132 .	63.088	101.076	2.284	1.00
9.28	1 . .						
ATOM 4335	C	C	. HIS HIS HIS B B 132 132 .	64.509	99.731	-1.110	1.00
8.06	1 . .						

ATOM 4336	O	O	. HIS HIS HIS B B 132 132 .	63.674	100.359	-1.725	1.00
10.11	1 . .						
ATOM 4337	N	N	. ILE ILE ILE B B 133 133 .	65.783	100.107	-1.050	1.00
8.93	1 . .						
ATOM 4338	CA	CA	. ILE ILE ILE B B 133 133 .	66.340	101.206	-1.814	1.00
6.40	1 . .						
ATOM 4339	CB	CB	. ILE ILE ILE B B 133 133 .	67.808	101.420	-1.423	1.00
6.33	1 . .						
ATOM 4340	CG1	CG1	. ILE ILE ILE B B 133 133 .	67.879	102.014	0.007	1.00
5.76	1 . .						
ATOM 4341	CD1	CD1	. ILE ILE ILE B B 133 133 .	69.356	102.155	0.614	1.00
5.39	1 . .						
ATOM 4342	CG2	CG2	. ILE ILE ILE B B 133 133 .	68.551	102.316	-2.464	1.00
4.54	1 . .						
ATOM 4343	C	C	. ILE ILE ILE B B 133 133 .	66.177	100.911	-3.309	1.00
6.78	1 . .						
ATOM 4344	O	O	. ILE ILE ILE B B 133 133 .	65.717	101.773	-4.088	1.00
7.07	1 . .						
ATOM 4345	N	N	. ALA ALA ALA B B 134 134 .	66.535	99.692	-3.744	1.00
7.01	1 . .						
ATOM 4346	CA	CA	. ALA ALA ALA B B 134 134 .	66.304	99.319	-5.135	1.00
9.05	1 . .						
ATOM 4347	CB	CB	. ALA ALA ALA B B 134 134 .	66.621	97.834	-5.404	1.00
10.10	1 . .						
ATOM 4348	C	C	. ALA ALA ALA B B 134 134 .	64.867	99.626	-5.562	1.00
10.31	1 . .						
ATOM 4349	O	O	. ALA ALA ALA B B 134 134 .	64.589	100.191	-6.646	1.00
9.51	1 . .						
ATOM 4350	N	N	. GLN GLN GLN B B 135 135 .	63.921	99.246	-4.733	1.00
11.87	1 . .						
ATOM 4351	CA	CA	. GLN GLN GLN B B 135 135 .	62.536	99.550	-5.107	1.00
11.80	1 . .						
ATOM 4352	CB	CB	. GLN GLN GLN B B 135 135 .	61.550	98.717	-4.294	1.00
12.73	1 . .						
ATOM 4353	CG	CG	. GLN GLN GLN B B 135 135 .	61.739	97.224	-4.458	1.00
13.31	1 . .						
ATOM 4354	CD	CD	. GLN GLN GLN B B 135 135 .	60.746	96.391	-3.607	1.00
21.03	1 . .						
ATOM 4355	OE1	OE1	. GLN GLN GLN B B 135 135 .	59.943	96.920	-2.828	1.00
23.07	1 . .						
ATOM 4356	NE2	NE2	. GLN GLN GLN B B 135 135 .	60.782	95.090	-3.795	1.00
23.87	1 . .						
ATOM 4357	C	C	. GLN GLN GLN B B 135 135 .	62.183	101.054	-5.058	1.00
11.68	1 . .						
ATOM 4358	O	O	. GLN GLN GLN B B 135 135 .	61.398	101.547	-5.907	1.00
12.11	1 . .						
ATOM 4359	N	N	. LEU LEU LEU B B 136 136 .	62.720	101.795	-4.094	1.00
11.15	1 . .						
ATOM 4360	CA	CA	. LEU LEU LEU B B 136 136 .	62.552	103.261	-4.049	1.00
12.06	1 . .						
ATOM 4361	CB	CB	. LEU LEU LEU B B 136 136 .	63.243	103.872	-2.851	1.00
12.75	1 . .						
ATOM 4362	CG	CG	. LEU LEU LEU B B 136 136 .	62.536	103.677	-1.501	1.00
13.56	1 . .						

ATOM 4363	CD1	CD1	. LEU LEU LEU B B	136 136	. 63.449	104.183	-0.392	1.00
13.62	1	. . .						
ATOM 4364	CD2	CD2	. LEU LEU LEU B B	136 136	. 61.100	104.304	-1.442	1.00
13.43	1	. . .						
ATOM 4365	C	C	. LEU LEU LEU B B	136 136	. 63.108	103.892	-5.304	1.00
11.32	1	. . .						
ATOM 4366	O	O	. LEU LEU LEU B B	136 136	. 62.640	104.976	-5.718	1.00
13.89	1	. . .						
ATOM 4367	N	N	. ALA ALA ALA B B	137 137	. 64.099	103.223	-5.906	1.00
10.95	1	. . .						
ATOM 4368	CA	CA	. ALA ALA ALA B B	137 137	. 64.780	103.741	-7.110	1.00
11.49	1	. . .						
ATOM 4369	CB	CB	. ALA ALA ALA B B	137 137	. 66.252	103.466	-7.069	1.00
10.84	1	. . .						
ATOM 4370	C	C	. ALA ALA ALA B B	137 137	. 64.230	103.189	-8.413	1.00
11.68	1	. . .						
ATOM 4371	O	O	. ALA ALA ALA B B	137 137	. 64.625	103.651	-9.459	1.00
12.40	1	. . .						
ATOM 4372	N	N	. GLY GLY GLY B B	138 138	. 63.356	102.182	-8.336	1.00
12.95	1	. . .						
ATOM 4373	CA	CA	. GLY GLY GLY B B	138 138	. 62.772	101.563	-9.519	1.00
15.22	1	. . .						
ATOM 4374	C	C	. GLY GLY GLY B B	138 138	. 63.720	100.602	-10.163	1.00
16.68	1	. . .						
ATOM 4375	O	O	. GLY GLY GLY B B	138 138	. 63.659	100.420	-11.380	1.00
15.91	1	. . .						
ATOM 4376	N	N	. ASN ASN ASN B B	139 139	. 64.646	100.010	-9.394	1.00
16.91	1	. . .						
ATOM 4377	CA	CA	. ASN ASN ASN B B	139 139	. 65.579	99.064	-10.000	1.00
19.01	1	. . .						
ATOM 4378	CB	CB	. ASN ASN ASN B B	139 139	. 67.008	99.241	-9.493	1.00
18.85	1	. . .						
ATOM 4379	CG	CG	. ASN ASN ASN B B	139 139	. 67.604	100.567	-9.889	1.00
18.88	1	. . .						
ATOM 4380	OD1	OD1	. ASN ASN ASN B B	139 139	. 67.362	101.060	-11.024	1.00
24.83	1	. . .						
ATOM 4381	ND2	ND2	. ASN ASN ASN B B	139 139	. 68.355	101.200	-8.954	1.00
14.52	1	. . .						
ATOM 4382	C	C	. ASN ASN ASN B B	139 139	. 65.142	97.656	-9.716	1.00
20.42	1	. . .						
ATOM 4383	O	O	. ASN ASN ASN B B	139 139	. 64.588	97.383	-8.664	1.00
20.12	1	. . .						
ATOM 4384	N	N	. SER SER SER B B	140 140	. 65.441	96.759	-10.650	1.00
23.79	1	. . .						
ATOM 4385	CA	CA	. SER SER SER B B	140 140	. 64.860	95.400	-10.686	1.00
27.08	1	. . .						
ATOM 4386	CB	CB	. SER SER SER B B	140 140	. 63.887	95.284	-11.854	1.00
27.47	1	. . .						
ATOM 4387	OG	OG	. SER SER SER B B	140 140	. 62.621	95.822	-11.526	1.00
28.28	1	. . .						
ATOM 4388	C	C	. SER SER SER B B	140 140	. 65.982	94.430	-10.922	1.00
28.71	1	. . .						
ATOM 4389	O	O	. SER SER SER B B	140 140	. 65.786	93.374	-11.533	1.00
29.61	1	. . .						

ATOM 4390	N	N	. ASP ASP ASP B B	141 141	. 67.161	94.838	-10.460	1.00
29.26	1 . .							
ATOM 4391	CA	CA	. ASP ASP ASP B B	141 141	. 68.395	94.092	-10.537	1.00
29.22	1 . .							
ATOM 4392	CB	CB	. ASP ASP ASP B B	141 141	. 69.020	94.244	-11.921	1.00
30.65	1 . .							
ATOM 4393	CG	CG	. ASP ASP ASP B B	141 141	. 69.717	95.582	-12.106	1.00
34.14	1 . .							
ATOM 4394	OD1	OD1	. ASP ASP ASP B B	141 141	. 70.965	95.640	-11.915	1.00
38.04	1 . .							
ATOM 4395	OD2	OD2	. ASP ASP ASP B B	141 141	. 69.014	96.579	-12.429	1.00
36.10	1 . .							
ATOM 4396	C	C	. ASP ASP ASP B B	141 141	. 69.303	94.731	-9.481	1.00
27.57	1 . .							
ATOM 4397	O	O	. ASP ASP ASP B B	141 141	. 68.967	95.796	-8.927	1.00
28.79	1 . .							
ATOM 4398	N	N	. LEU LEU LEU B B	142 142	. 70.439	94.099	-9.199	1.00
24.38	1 . .							
ATOM 4399	CA	CA	. LEU LEU LEU B B	142 142	. 71.383	94.601	-8.207	1.00
20.30	1 . .							
ATOM 4400	CB	CB	. LEU LEU LEU B B	142 142	. 71.181	93.905	-6.875	1.00
20.42	1 . .							
ATOM 4401	CG	CG	. LEU LEU LEU B B	142 142	. 69.822	93.908	-6.242	1.00
18.91	1 . .							
ATOM 4402	CD1	CD1	. LEU LEU LEU B B	142 142	. 69.795	92.747	-5.291	1.00
19.75	1 . .							
ATOM 4403	CD2	CD2	. LEU LEU LEU B B	142 142	. 69.656	95.234	-5.476	1.00
12.14	1 . .							
ATOM 4404	C	C	. LEU LEU LEU B B	142 142	. 72.752	94.243	-8.676	1.00
18.47	1 . .							
ATOM 4405	O	O	. LEU LEU LEU B B	142 142	. 72.917	93.270	-9.402	1.00
18.48	1 . .							
ATOM 4406	N	N	. ILE ILE ILE B B	143 143	. 73.742	95.016	-8.276	1.00
15.58	1 . .							
ATOM 4407	CA	CA	. ILE ILE ILE B B	143 143	. 75.086	94.664	-8.600	1.00
13.24	1 . .							
ATOM 4408	CB	CB	. ILE ILE ILE B B	143 143	. 75.429	95.138	-10.047	1.00
14.73	1 . .							
ATOM 4409	CG1	CG1	. ILE ILE ILE B B	143 143	. 76.844	94.756	-10.506	1.00
16.69	1 . .							
ATOM 4410	CD1	CD1	. ILE ILE ILE B B	143 143	. 77.011	94.748	-12.068	1.00
19.67	1 . .							
ATOM 4411	CG2	CG2	. ILE ILE ILE B B	143 143	. 75.142	96.543	-10.202	1.00
13.59	1 . .							
ATOM 4412	C	C	. ILE ILE ILE B B	143 143	. 76.025	95.180	-7.523	1.00
10.56	1 . .							
ATOM 4413	O	O	. ILE ILE ILE B B	143 143	. 75.810	96.259	-6.951	1.00
7.93	1 . .							
ATOM 4414	N	N	. LEU LEU LEU B B	144 144	. 77.032	94.377	-7.205	1.00
8.39	1 . .							
ATOM 4415	CA	CA	. LEU LEU LEU B B	144 144	. 78.096	94.790	-6.279	1.00
6.12	1 . .							
ATOM 4416	CB	CB	. LEU LEU LEU B B	144 144	. 78.894	93.546	-5.821	1.00
3.71	1 . .							



ATOM 4417	CG	CG	. LEU LEU LEU B B	144 144	. 78.217	92.777	-4.647	1.00
5.62	1 . .							
ATOM 4418	CD1	CD1	. LEU LEU LEU B B	144 144	. 78.130	93.676	-3.466	1.00
10.84	1 . .							
ATOM 4419	CD2	CD2	. LEU LEU LEU B B	144 144	. 76.859	92.217	-5.032	1.00
7.17	1 . .							
ATOM 4420	C	C	. LEU LEU LEU B B	144 144	. 79.062	95.716	-7.022	1.00
4.63	1 . .							
ATOM 4421	O	O	. LEU LEU LEU B B	144 144	. 79.483	95.428	-8.110	1.00
5.11	1 . .							
ATOM 4422	N	N	. PRO PRO PRO B B	145 145	. 79.456	96.827	-6.401	1.00
4.99	1 . .							
ATOM 4423	CA	CA	. PRO PRO PRO B B	145 145	. 80.344	97.819	-7.011	1.00
3.07	1 . .							
ATOM 4424	CB	CB	. PRO PRO PRO B B	145 145	. 80.201	99.009	-6.068	1.00
3.94	1 . .							
ATOM 4425	CG	CG	. PRO PRO PRO B B	145 145	. 80.029	98.284	-4.764	1.00
4.32	1 . .							
ATOM 4426	CD	CD	. PRO PRO PRO B B	145 145	. 79.064	97.173	-5.039	1.00
3.98	1 . .							
ATOM 4427	C	C	. PRO PRO PRO B B	145 145	. 81.819	97.388	-7.028	1.00
3.79	1 . .							
ATOM 4428	O	O	. PRO PRO PRO B B	145 145	. 82.212	96.597	-6.133	1.00
3.55	1 . .							
ATOM 4429	N	N	. VAL VAL VAL B B	146 146	. 82.642	97.950	-7.915	1.00
2.46	1 . .							
ATOM 4430	CA	CA	. VAL VAL VAL B B	146 146	. 84.084	97.921	-7.680	1.00
2.89	1 . .							
ATOM 4431	CB	CB	. VAL VAL VAL B B	146 146	. 84.857	98.299	-8.962	1.00
3.53	1 . .							
ATOM 4432	CG1	CG1	. VAL VAL VAL B B	146 146	. 86.277	98.415	-8.712	1.00
3.54	1 . .							
ATOM 4433	CG2	CG2	. VAL VAL VAL B B	146 146	. 84.552	97.322	-10.088	1.00
3.39	1 . .							
ATOM 4434	C	C	. VAL VAL VAL B B	146 146	. 84.380	98.978	-6.563	1.00
3.24	1 . .							
ATOM 4435	O	O	. VAL VAL VAL B B	146 146	. 83.858	100.095	-6.628	1.00
2.81	1 . .							
ATOM 4436	N	N	. PRO PRO PRO B B	147 147	. 85.101	98.576	-5.516	1.00
3.78	1 . .							
ATOM 4437	CA	CA	. PRO PRO PRO B B	147 147	. 85.496	99.546	-4.512	1.00
3.78	1 . .							
ATOM 4438	CB	CB	. PRO PRO PRO B B	147 147	. 85.855	98.652	-3.342	1.00
3.64	1 . .							
ATOM 4439	CG	CG	. PRO PRO PRO B B	147 147	. 86.584	97.387	-4.087	1.00
4.00	1 . .							
ATOM 4440	CD	CD	. PRO PRO PRO B B	147 147	. 85.685	97.225	-5.250	1.00
3.13	1 . .							
ATOM 4441	C	C	. PRO PRO PRO B B	147 147	. 86.738	100.304	-4.939	1.00
3.24	1 . .							
ATOM 4442	O	O	. PRO PRO PRO B B	147 147	. 87.627	99.719	-5.658	1.00
4.45	1 . .							
ATOM 4443	N	N	. ALA ALA ALA B B	148 148	. 86.771	101.605	-4.612	1.00
2.80	1 . .							



ATOM 4471	CG2	CG2	. VAL VAL VAL B B	151 151	. 96.652	103.512	-2.486	1.00
7.95	1 . .							
ATOM 4472	C	C	. VAL VAL VAL B B	151 151	. 96.744	105.463	-0.155	1.00
8.98	1 . .							
ATOM 4473	O	O	. VAL VAL VAL B B	151 151	. 97.643	105.267	0.674	1.00
10.92	1 . .							
ATOM 4474	N	N	. ILE ILE ILE B B	152 152	. 96.780	106.514	-0.933	1.00
11.74	1 . .							
ATOM 4475	CA	CA	. ILE ILE ILE B B	152 152	. 97.733	107.576	-0.680	1.00
11.51	1 . .							
ATOM 4476	CB	CB	. ILE ILE ILE B B	152 152	. 98.793	107.725	-1.769	1.00
11.77	1 . .							
ATOM 4477	CG1	CG1	. ILE ILE ILE B B	152 152	. 99.639	106.436	-1.786	1.00
8.62	1 . .							
ATOM 4478	CD1	CD1	. ILE ILE ILE B B	152 152	. 101.012	106.602	-2.345	1.00
7.60	1 . .							
ATOM 4479	CG2	CG2	. ILE ILE ILE B B	152 152	. 99.657	108.988	-1.538	1.00
12.62	1 . .							
ATOM 4480	C	C	. ILE ILE ILE B B	152 152	. 96.895	108.792	-0.477	1.00
12.90	1 . .							
ATOM 4481	O	O	. ILE ILE ILE B B	152 152	. 96.307	109.275	-1.454	1.00
11.14	1 . .							
ATOM 4482	N	N	. ASN ASN ASN B B	153 153	. 96.824	109.209	0.806	1.00
13.79	1 . .							
ATOM 4483	CA	CA	. ASN ASN ASN B B	153 153	. 95.951	110.310	1.287	1.00
15.46	1 . .							
ATOM 4484	CB	CB	. ASN ASN ASN B B	153 153	. 95.567	110.078	2.753	1.00
16.64	1 . .							
ATOM 4485	CG	CG	. ASN ASN ASN B B	153 153	. 94.394	109.096	2.944	1.00
14.22	1 . .							
ATOM 4486	OD1	OD1	. ASN ASN ASN B B	153 153	. 93.818	108.577	1.992	1.00
16.62	1 . .							
ATOM 4487	ND2	ND2	. ASN ASN ASN B B	153 153	. 94.055	108.832	4.215	1.00
8.58	1 . .							
ATOM 4488	C	C	. ASN ASN ASN B B	153 153	. 96.675	111.646	1.233	1.00
15.42	1 . .							
ATOM 4489	O	O	. ASN ASN ASN B B	153 153	. 97.849	111.789	1.636	1.00
16.30	1 . .							
ATOM 4490	N	N	. GLY GLY GLY B B	154 154	. 95.958	112.665	0.823	1.00
13.93	1 . .							
ATOM 4491	CA	CA	. GLY GLY GLY B B	154 154	. 96.635	113.889	0.477	1.00
11.90	1 . .							
ATOM 4492	C	C	. GLY GLY GLY B B	154 154	. 95.678	115.001	0.824	1.00
11.58	1 . .							
ATOM 4493	O	O	. GLY GLY GLY B B	154 154	. 94.622	114.781	1.411	1.00
12.21	1 . .							
ATOM 4494	N	N	. GLY GLY GLY B B	155 155	. 96.001	116.173	0.356	0.50
9.27	1 . .							
ATOM 4495	CA	CA	. GLY GLY GLY B B	155 155	. 95.052	117.290	0.458	0.50
8.04	1 . .							
ATOM 4496	C	C	. GLY GLY GLY B B	155 155	. 94.705	117.566	1.905	0.50
6.12	1 . .							
ATOM 4497	O	O	. GLY GLY GLY B B	155 155	. 95.555	117.578	2.768	0.50
5.89	1 . .							

ATOM 4498	N	N	. SER SER SER B B 156 156 .	93.416	117.700	2.144	0.50
5.13	1 . .						
ATOM 4499	CA	CA	. SER SER SER B B 156 156 .	92.859	118.178	3.377	0.50
4.33	1 . .						
ATOM 4500	CB	CB	. SER SER SER B B 156 156 .	91.442	118.500	3.037	0.50
5.59	1 . .						
ATOM 4501	OG	OG	. SER SER SER B B 156 156 .	91.139	117.462	2.121	0.50
5.40	1 . .						
ATOM 4502	C	C	. SER SER SER B B 156 156 .	92.740	117.052	4.368	0.50
4.04	1 . .						
ATOM 4503	O	O	. SER SER SER B B 156 156 .	92.409	117.320	5.519	0.50
4.47	1 . .						
ATOM 4504	N	N	. HIS HIS HIS B B 157 157 .	92.969	115.825	3.903	0.50
4.20	1 . .						
ATOM 4505	CA	CA	. HIS HIS HIS B B 157 157 .	92.863	114.542	4.677	0.50
2.65	1 . .						
ATOM 4506	CB	CB	. HIS HIS HIS B B 157 157 .	92.268	113.421	3.798	0.50
3.39	1 . .						
ATOM 4507	CG	CG	. HIS HIS HIS B B 157 157 .	90.927	113.747	3.172	0.50
2.23	1 . .						
ATOM 4508	ND1	ND1	. HIS HIS HIS B B 157 157 .	90.341	112.904	2.243	0.50
2.59	1 . .						
ATOM 4509	CE1	CE1	. HIS HIS HIS B B 157 157 .	89.160	113.386	1.905	0.50
2.15	1 . .						
ATOM 4510	NE2	NE2	. HIS HIS HIS B B 157 157 .	89.017	114.575	2.476	0.50
3.08	1 . .						
ATOM 4511	CD2	CD2	. HIS HIS HIS B B 157 157 .	90.093	114.814	3.289	0.50
2.71	1 . .						
ATOM 4512	C	C	. HIS HIS HIS B B 157 157 .	94.140	114.036	5.362	0.50
3.43	1 . .						
ATOM 4513	O	O	. HIS HIS HIS B B 157 157 .	94.145	113.057	6.177	0.50
2.49	1 . .						
ATOM 4514	N	N	. ALA ALA ALA B B 158 158 .	95.234	114.745	5.141	0.50
3.14	1 . .						
ATOM 4515	CA	CA	. ALA ALA ALA B B 158 158 .	96.469	114.197	5.583	0.50
4.08	1 . .						
ATOM 4516	CB	CB	. ALA ALA ALA B B 158 158 .	97.015	113.208	4.503	0.50
3.69	1 . .						
ATOM 4517	C	C	. ALA ALA ALA B B 158 158 .	97.466	115.286	5.864	0.50
4.19	1 . .						
ATOM 4518	O	O	. ALA ALA ALA B B 158 158 .	97.381	116.386	5.317	0.50
4.68	1 . .						
ATOM 4519	N	N	. GLY GLY GLY B B 159 159 .	98.415	115.001	6.726	0.50
6.71	1 . .						
ATOM 4520	CA	CA	. GLY GLY GLY B B 159 159 .	99.462	115.990	6.932	0.50
9.88	1 . .						
ATOM 4521	C	C	. GLY GLY GLY B B 159 159 .	100.686	115.634	6.109	0.50
12.06	1 . .						
ATOM 4522	O	O	. GLY GLY GLY B B 159 159 .	101.406	114.723	6.476	0.50
10.57	1 . .						
ATOM 4523	N	N	. ASN ASN ASN B B 160 160 .	100.874	116.341	4.983	1.00
15.18	1 . .						
ATOM 4524	CA	CA	. ASN ASN ASN B B 160 160 .	102.034	116.262	4.072	1.00
16.90	1 . .						

ATOM 4525	CB	CB	. ASN ASN ASN B B 160 160 .	102.124	114.864	3.417	1.00
17.88	1 . .						
ATOM 4526	CG	CG	. ASN ASN ASN B B 160 160 .	101.071	114.636	2.339	1.00
20.90	1 . .						
ATOM 4527	OD1	OD1	. ASN ASN ASN B B 160 160 .	99.881	114.966	2.523	1.00
20.65	1 . .						
ATOM 4528	ND2	ND2	. ASN ASN ASN B B 160 160 .	101.494	114.025	1.216	1.00
16.08	1 . .						
ATOM 4529	C	C	. ASN ASN ASN B B 160 160 .	101.837	117.327	3.019	1.00
17.57	1 . .						
ATOM 4530	O	O	. ASN ASN ASN B B 160 160 .	100.754	117.911	2.978	1.00
18.43	1 . .						
ATOM 4531	N	N	. LYS LYS LYS B B 161 161 .	102.845	117.590	2.169	1.00
18.13	1 . .						
ATOM 4532	CA	CA	. LYS LYS LYS B B 161 161 .	102.774	118.627	1.114	1.00
19.69	1 . .						
ATOM 4533	CB	CB	. LYS LYS LYS B B 161 161 .	104.155	118.961	0.616	1.00
20.23	1 . .						
ATOM 4534	CG	CG	. LYS LYS LYS B B 161 161 .	105.005	119.864	1.482	1.00
20.04	1 . .						
ATOM 4535	CD	CD	. LYS LYS LYS B B 161 161 .	104.889	121.369	1.184	1.00
18.65	1 . .						
ATOM 4536	CE	CE	. LYS LYS LYS B B 161 161 .	105.894	122.129	2.080	1.00
19.41	1 . .						
ATOM 4537	NZ	NZ	. LYS LYS LYS B B 161 161 .	105.318	122.478	3.427	1.00
19.13	1 . .						
ATOM 4538	C	C	. LYS LYS LYS B B 161 161 .	102.035	118.282	-0.198	1.00
20.39	1 . .						
ATOM 4539	O	O	. LYS LYS LYS B B 161 161 .	101.879	119.142	-1.079	1.00
21.67	1 . .						
ATOM 4540	N	N	. LEU LEU LEU B B 162 162 .	101.673	117.027	-0.367	1.00
19.67	1 . .						
ATOM 4541	CA	CA	. LEU LEU LEU B B 162 162 .	101.065	116.571	-1.615	1.00
18.63	1 . .						
ATOM 4542	CB	CB	. LEU LEU LEU B B 162 162 .	100.800	115.101	-1.501	1.00
18.20	1 . .						
ATOM 4543	CG	CG	. LEU LEU LEU B B 162 162 .	100.406	114.334	-2.772	1.00
18.88	1 . .						
ATOM 4544	CD1	CD1	. LEU LEU LEU B B 162 162 .	101.580	114.170	-3.667	1.00
20.73	1 . .						
ATOM 4545	CD2	CD2	. LEU LEU LEU B B 162 162 .	99.975	113.038	-2.296	1.00
20.00	1 . .						
ATOM 4546	C	C	. LEU LEU LEU B B 162 162 .	99.751	117.365	-1.829	1.00
16.86	1 . .						
ATOM 4547	O	O	. LEU LEU LEU B B 162 162 .	98.934	117.418	-0.931	1.00
17.68	1 . .						
ATOM 4548	N	N	. ALA ALA ALA B B 163 163 .	99.590	117.997	-2.989	1.00
15.74	1 . .						
ATOM 4549	CA	CA	. ALA ALA ALA B B 163 163 .	98.414	118.887	-3.250	1.00
13.99	1 . .						
ATOM 4550	CB	CB	. ALA ALA ALA B B 163 163 .	98.726	119.947	-4.316	1.00
15.09	1 . .						
ATOM 4551	C	C	. ALA ALA ALA B B 163 163 .	97.112	118.122	-3.593	1.00
12.22	1 . .						

ATOM 4552	O	O	. ALA ALA ALA B B	163 163	. 96.021	118.441	-3.124	1.00
11.59	1 . .							
ATOM 4553	N	N	. MET MET MET B B	164 164	. 97.222	117.100	-4.408	1.00
8.38	1 . .							
ATOM 4554	CA	CA	. MET MET MET B B	164 164	. 96.017	116.396	-4.804	1.00
7.26	1 . .							
ATOM 4555	CB	CB	. MET MET MET B B	164 164	. 96.208	115.684	-6.150	1.00
7.60	1 . .							
ATOM 4556	CG	CG	. MET MET MET B B	164 164	. 96.670	116.670	-7.185	1.00
7.47	1 . .							
ATOM 4557	SD	SD	. MET MET MET B B	164 164	. 96.900	115.870	-8.787	1.00
7.21	1 . .							
ATOM 4558	CE	CE	. MET MET MET B B	164 164	. 97.554	117.263	-9.727	1.00
7.39	1 . .							
ATOM 4559	C	C	. MET MET MET B B	164 164	. 95.583	115.515	-3.664	1.00
5.81	1 . .							
ATOM 4560	O	O	. MET MET MET B B	164 164	. 96.405	114.984	-2.924	1.00
7.35	1 . .							
ATOM 4561	N	N	. GLN GLN GLN B B	165 165	. 94.295	115.364	-3.483	1.00
6.14	1 . .							
ATOM 4562	CA	CA	. GLN GLN GLN B B	165 165	. 93.737	114.800	-2.271	1.00
7.91	1 . .							
ATOM 4563	CB	CB	. GLN GLN GLN B B	165 165	. 92.271	115.234	-2.167	1.00
8.58	1 . .							
ATOM 4564	CG	CG	. GLN GLN GLN B B	165 165	. 91.554	114.829	-0.877	1.00
7.53	1 . .							
ATOM 4565	CD	CD	. GLN GLN GLN B B	165 165	. 90.135	115.448	-0.799	1.00
7.22	1 . .							
ATOM 4566	OE1	OE1	. GLN GLN GLN B B	165 165	. 89.958	116.574	-0.351	1.00
6.75	1 . .							
ATOM 4567	NE2	NE2	. GLN GLN GLN B B	165 165	. 89.152	114.708	-1.274	1.00
7.26	1 . .							
ATOM 4568	C	C	. GLN GLN GLN B B	165 165	. 93.816	113.266	-2.179	1.00
7.26	1 . .							
ATOM 4569	O	O	. GLN GLN GLN B B	165 165	. 94.151	112.728	-1.124	1.00
9.73	1 . .							
ATOM 4570	N	N	. GLU GLU GLU B B	166 166	. 93.411	112.533	-3.232	1.00
7.58	1 . .							
ATOM 4571	CA	CA	. GLU GLU GLU B B	166 166	. 93.276	111.066	-3.137	1.00
6.31	1 . .							
ATOM 4572	CB	CB	. GLU GLU GLU B B	166 166	. 91.844	110.628	-3.005	1.00
5.86	1 . .							
ATOM 4573	CG	CG	. GLU GLU GLU B B	166 166	. 91.034	111.496	-1.985	1.00
5.70	1 . .							
ATOM 4574	CD	CD	. GLU GLU GLU B B	166 166	. 89.557	111.180	-1.981	1.00
7.24	1 . .							
ATOM 4575	OE1	OE1	. GLU GLU GLU B B	166 166	. 89.125	110.211	-2.682	1.00
7.58	1 . .							
ATOM 4576	OE2	OE2	. GLU GLU GLU B B	166 166	. 88.752	111.919	-1.318	1.00
8.33	1 . .							
ATOM 4577	C	C	. GLU GLU GLU B B	166 166	. 93.875	110.344	-4.342	1.00
6.36	1 . .							
ATOM 4578	O	O	. GLU GLU GLU B B	166 166	. 93.662	110.756	-5.497	1.00
8.26	1 . .							

ATOM 4579	N	N	. PHE PHE PHE B B	167 167	. 94.543	109.244	-4.049	1.00
7.17	1	. . .						
ATOM 4580	CA	CA	. PHE PHE PHE B B	167 167	. 95.101	108.303	-5.044	1.00
5.15	1	. . .						
ATOM 4581	CB	CB	. PHE PHE PHE B B	167 167	. 96.674	108.339	-5.068	1.00
4.70	1	. . .						
ATOM 4582	CG	CG	. PHE PHE PHE B B	167 167	. 97.238	109.674	-5.456	1.00
7.11	1	. . .						
ATOM 4583	CD1	CD1	. PHE PHE PHE B B	167 167	. 97.288	110.694	-4.535	1.00
10.35	1	. . .						
ATOM 4584	CE1	CE1	. PHE PHE PHE B B	167 167	. 97.769	111.942	-4.933	1.00
10.16	1	. . .						
ATOM 4585	CZ	CZ	. PHE PHE PHE B B	167 167	. 98.228	112.139	-6.224	1.00
11.84	1	. . .						
ATOM 4586	CE2	CE2	. PHE PHE PHE B B	167 167	. 98.186	111.120	-7.125	1.00
9.99	1	. . .						
ATOM 4587	CD2	CD2	. PHE PHE PHE B B	167 167	. 97.677	109.912	-6.748	1.00
8.85	1	. . .						
ATOM 4588	C	C	. PHE PHE PHE B B	167 167	. 94.505	106.962	-4.673	1.00
5.00	1	. . .						
ATOM 4589	O	O	. PHE PHE PHE B B	167 167	. 94.948	106.373	-3.646	1.00
5.85	1	. . .						
ATOM 4590	N	N	. MET MET MET B B	168 168	. 93.562	106.466	-5.484	1.00
4.06	1	. . .						
ATOM 4591	CA	CA	. MET MET MET B B	168 168	. 92.766	105.289	-5.195	1.00
3.55	1	. . .						
ATOM 4592	CB	CB	. MET MET MET B B	168 168	. 91.286	105.535	-5.427	1.00
2.91	1	. . .						
ATOM 4593	CG	CG	. MET MET MET B B	168 168	. 90.695	106.584	-4.444	1.00
3.57	1	. . .						
ATOM 4594	SD	SD	. MET MET MET B B	168 168	. 89.050	107.063	-4.911	1.00
5.46	1	. . .						
ATOM 4595	CE	CE	. MET MET MET B B	168 168	. 89.329	108.661	-5.685	1.00
6.59	1	. . .						
ATOM 4596	C	C	. MET MET MET B B	168 168	. 93.157	104.118	-6.115	1.00
3.79	1	. . .						
ATOM 4597	O	O	. MET MET MET B B	168 168	. 93.622	104.300	-7.297	1.00
2.79	1	. . .						
ATOM 4598	N	N	. ILE ILE ILE B B	169 169	. 93.048	102.914	-5.553	1.00
3.11	1	. . .						
ATOM 4599	CA	CA	. ILE ILE ILE B B	169 169	. 93.193	101.717	-6.381	1.00
2.09	1	. . .						
ATOM 4600	CB	CB	. ILE ILE ILE B B	169 169	. 94.257	100.714	-5.785	1.00
2.23	1	. . .						
ATOM 4601	CG1	CG1	. ILE ILE ILE B B	169 169	. 93.840	100.233	-4.374	1.00
3.47	1	. . .						
ATOM 4602	CD1	CD1	. ILE ILE ILE B B	169 169	. 94.746	99.070	-3.890	1.00
4.95	1	. . .						
ATOM 4603	CG2	CG2	. ILE ILE ILE B B	169 169	. 95.639	101.283	-5.925	1.00
3.59	1	. . .						
ATOM 4604	C	C	. ILE ILE ILE B B	169 169	. 91.772	101.075	-6.552	1.00
3.11	1	. . .						
ATOM 4605	O	O	. ILE ILE ILE B B	169 169	. 90.979	100.953	-5.571	1.00
3.74	1	. . .						

ATOM 4606	N	N	. LEU LEU LEU B B	170 170	. 91.483	100.545	-7.753	1.00
3.38	1 . .							
ATOM 4607	CA	CA	. LEU LEU LEU B B	170 170	. 90.206	99.918	-8.110	1.00
3.22	1 . .							
ATOM 4608	CB	CB	. LEU LEU LEU B B	170 170	. 89.499	100.758	-9.190	1.00
3.96	1 . .							
ATOM 4609	CG	CG	. LEU LEU LEU B B	170 170	. 88.716	102.067	-8.867	1.00
2.69	1 . .							
ATOM 4610	CD1	CD1	. LEU LEU LEU B B	170 170	. 89.649	103.235	-8.579	1.00
4.94	1 . .							
ATOM 4611	CD2	CD2	. LEU LEU LEU B B	170 170	. 87.701	102.370	-10.039	1.00
6.77	1 . .							
ATOM 4612	C	C	. LEU LEU LEU B B	170 170	. 90.407	98.505	-8.702	1.00
4.30	1 . .							
ATOM 4613	O	O	. LEU LEU LEU B B	170 170	. 90.852	98.390	-9.869	1.00
5.53	1 . .							
ATOM 4614	N	N	. PRO PRO PRO B B	171 171	. 90.033	97.424	-7.966	1.00
3.53	1 . .							
ATOM 4615	CA	CA	. PRO PRO PRO B B	171 171	. 90.273	96.084	-8.452	1.00
3.42	1 . .							
ATOM 4616	CB	CB	. PRO PRO PRO B B	171 171	. 90.133	95.240	-7.172	1.00
3.69	1 . .							
ATOM 4617	CG	CG	. PRO PRO PRO B B	171 171	. 90.401	96.272	-6.001	1.00
4.22	1 . .							
ATOM 4618	CD	CD	. PRO PRO PRO B B	171 171	. 89.628	97.424	-6.535	1.00
2.64	1 . .							
ATOM 4619	C	C	. PRO PRO PRO B B	171 171	. 89.239	95.649	-9.465	1.00
4.20	1 . .							
ATOM 4620	O	O	. PRO PRO PRO B B	171 171	. 88.370	94.843	-9.211	1.00
4.51	1 . .							
ATOM 4621	N	N	. VAL VAL VAL B B	172 172	. 89.285	96.294	-10.614	1.00
3.44	1 . .							
ATOM 4622	CA	CA	. VAL VAL VAL B B	172 172	. 88.334	96.052	-11.686	1.00
5.43	1 . .							
ATOM 4623	CB	CB	. VAL VAL VAL B B	172 172	. 88.517	97.064	-12.884	1.00
5.45	1 . .							
ATOM 4624	CG1	CG1	. VAL VAL VAL B B	172 172	. 88.198	98.512	-12.472	1.00
6.50	1 . .							
ATOM 4625	CG2	CG2	. VAL VAL VAL B B	172 172	. 89.975	96.995	-13.425	1.00
6.12	1 . .							
ATOM 4626	C	C	. VAL VAL VAL B B	172 172	. 88.405	94.595	-12.164	1.00
6.05	1 . .							
ATOM 4627	O	O	. VAL VAL VAL B B	172 172	. 87.426	94.073	-12.611	1.00
7.04	1 . .							
ATOM 4628	N	N	. GLY GLY GLY B B	173 173	. 89.585	94.022	-12.110	1.00
6.85	1 . .							
ATOM 4629	CA	CA	. GLY GLY GLY B B	173 173	. 89.825	92.631	-12.537	1.00
5.98	1 . .							
ATOM 4630	C	C	. GLY GLY GLY B B	173 173	. 89.517	91.543	-11.538	1.00
6.62	1 . .							
ATOM 4631	O	O	. GLY GLY GLY B B	173 173	. 89.810	90.376	-11.796	1.00
10.51	1 . .							
ATOM 4632	N	N	. ALA ALA ALA B B	174 174	. 88.920	91.872	-10.412	1.00
6.28	1 . .							



ATOM 4633	CA	CA	. ALA ALA ALA B B	174 174	. 88.733	90.896	-9.353	1.00
4.60	1 . .							
ATOM 4634	CB	CB	. ALA ALA ALA B B	174 174	. 88.486	91.618	-8.040	1.00
4.69	1 . .							
ATOM 4635	C	C	. ALA ALA ALA B B	174 174	. 87.578	89.999	-9.709	1.00
5.91	1 . .							
ATOM 4636	O	O	. ALA ALA ALA B B	174 174	. 86.733	90.339	-10.537	1.00
6.35	1 . .							
ATOM 4637	N	N	. GLU GLU GLU B B	175 175	. 87.518	88.816	-9.099	1.00
6.15	1 . .							
ATOM 4638	CA	CA	. GLU GLU GLU B B	175 175	. 86.441	87.855	-9.376	1.00
8.70	1 . .							
ATOM 4639	CB	CB	. GLU GLU GLU B B	175 175	. 86.917	86.472	-9.008	1.00
10.15	1 . .							
ATOM 4640	CG	CG	. GLU GLU GLU B B	175 175	. 88.288	86.086	-9.620	1.00
17.99	1 . .							
ATOM 4641	CD	CD	. GLU GLU GLU B B	175 175	. 88.798	84.789	-9.054	1.00
26.01	1 . .							
ATOM 4642	OE1	OE1	. GLU GLU GLU B B	175 175	. 87.951	83.896	-8.843	1.00
30.15	1 . .							
ATOM 4643	OE2	OE2	. GLU GLU GLU B B	175 175	. 90.036	84.655	-8.821	1.00
30.21	1 . .							
ATOM 4644	C	C	. GLU GLU GLU B B	175 175	. 85.062	88.092	-8.755	1.00
8.00	1 . .							
ATOM 4645	O	O	. GLU GLU GLU B B	175 175	. 84.066	87.533	-9.239	1.00
9.01	1 . .							
ATOM 4646	N	N	. SER SER SER B B	176 176	. 85.006	88.933	-7.700	1.00
5.71	1 . .							
ATOM 4647	CA	CA	. SER SER SER B B	176 176	. 83.787	89.144	-6.953	1.00
4.34	1 . .							
ATOM 4648	CB	CB	. SER SER SER B B	176 176	. 83.498	87.908	-6.058	1.00
4.99	1 . .							
ATOM 4649	OG	OG	. SER SER SER B B	176 176	. 84.567	87.697	-5.153	1.00
5.58	1 . .							
ATOM 4650	C	C	. SER SER SER B B	176 176	. 84.114	90.296	-6.015	1.00
3.46	1 . .							
ATOM 4651	O	O	. SER SER SER B B	176 176	. 85.254	90.709	-5.939	1.00
2.73	1 . .							
ATOM 4652	N	N	. PHE PHE PHE B B	177 177	. 83.132	90.740	-5.270	1.00
4.58	1 . .							
ATOM 4653	CA	CA	. PHE PHE PHE B B	177 177	. 83.412	91.811	-4.321	1.00
3.21	1 . .							
ATOM 4654	CB	CB	. PHE PHE PHE B B	177 177	. 82.146	92.367	-3.650	1.00
3.95	1 . .							
ATOM 4655	CG	CG	. PHE PHE PHE B B	177 177	. 82.463	93.632	-2.885	1.00
4.12	1 . .							
ATOM 4656	CD1	CD1	. PHE PHE PHE B B	177 177	. 82.496	94.835	-3.548	1.00
4.47	1 . .							
ATOM 4657	CE1	CE1	. PHE PHE PHE B B	177 177	. 82.873	95.979	-2.893	1.00
4.47	1 . .							
ATOM 4658	CZ	CZ	. PHE PHE PHE B B	177 177	. 83.197	95.948	-1.565	1.00
4.94	1 . .							
ATOM 4659	CE2	CE2	. PHE PHE PHE B B	177 177	. 83.179	94.762	-0.832	1.00
4.04	1 . .							

ATOM 4660	CD2	CD2	. PHE PHE PHE B B	177 177	. 82.805	93.583	-1.484	1.00
2.53	1 . .							
ATOM 4661	C	C	. PHE PHE PHE B B	177 177	. 84.375	91.337	-3.221	1.00
3.59	1 . .							
ATOM 4662	O	O	. PHE PHE PHE B B	177 177	. 85.311	92.063	-2.825	1.00
3.68	1 . .							
ATOM 4663	N	N	. ARG ARG ARG B B	178 178	. 84.099	90.121	-2.682	1.00
4.17	1 . .							
ATOM 4664	CA	CA	. ARG ARG ARG B B	178 178	. 84.985	89.639	-1.642	1.00
5.08	1 . .							
ATOM 4665	CB	CB	. ARG ARG ARG B B	178 178	. 84.423	88.345	-1.005	1.00
5.50	1 . .							
ATOM 4666	CG	CG	. ARG ARG ARG B B	178 178	. 83.344	88.639	0.041	1.00
12.90	1 . .							
ATOM 4667	CD	CD	. ARG ARG ARG B B	178 178	. 82.358	87.454	0.289	1.00
21.77	1 . .							
ATOM 4668	NE	NE	. ARG ARG ARG B B	178 178	. 82.119	86.728	-0.956	1.00
26.16	1 . .							
ATOM 4669	CZ	CZ	. ARG ARG ARG B B	178 178	. 81.150	85.841	-1.193	1.00
26.93	1 . .							
ATOM 4670	NH1	NH1	. ARG ARG ARG B B	178 178	. 80.256	85.553	-0.273	1.00
25.85	1 . .							
ATOM 4671	NH2	NH2	. ARG ARG ARG B B	178 178	. 81.066	85.271	-2.391	1.00
28.92	1 . .							
ATOM 4672	C	C	. ARG ARG ARG B B	178 178	. 86.449	89.504	-2.169	1.00
3.54	1 . .							
ATOM 4673	O	O	. ARG ARG ARG B B	178 178	. 87.430	89.763	-1.433	1.00
4.02	1 . .							
ATOM 4674	N	N	. ASP ASP ASP B B	179 179	. 86.610	89.053	-3.438	1.00
4.13	1 . .							
ATOM 4675	CA	CA	. ASP ASP ASP B B	179 179	. 87.963	89.006	-4.041	1.00
4.49	1 . .							
ATOM 4676	CB	CB	. ASP ASP ASP B B	179 179	. 87.877	88.293	-5.397	1.00
5.93	1 . .							
ATOM 4677	CG	CG	. ASP ASP ASP B B	179 179	. 89.235	87.930	-5.940	1.00
6.38	1 . .							
ATOM 4678	OD1	OD1	. ASP ASP ASP B B	179 179	. 89.573	88.338	-7.098	1.00
10.40	1 . .							
ATOM 4679	OD2	OD2	. ASP ASP ASP B B	179 179	. 90.030	87.345	-5.158	1.00
6.91	1 . .							
ATOM 4680	C	C	. ASP ASP ASP B B	179 179	. 88.638	90.407	-4.228	1.00
2.63	1 . .							
ATOM 4681	O	O	. ASP ASP ASP B B	179 179	. 89.823	90.588	-4.014	1.00
2.57	1 . .							
ATOM 4682	N	N	. ALA ALA ALA B B	180 180	. 87.818	91.404	-4.547	1.00
2.67	1 . .							
ATOM 4683	CA	CA	. ALA ALA ALA B B	180 180	. 88.303	92.775	-4.694	1.00
2.58	1 . .							
ATOM 4684	CB	CB	. ALA ALA ALA B B	180 180	. 87.189	93.661	-5.263	1.00
4.25	1 . .							
ATOM 4685	C	C	. ALA ALA ALA B B	180 180	. 88.845	93.348	-3.390	1.00
2.00	1 . .							
ATOM 4686	O	O	. ALA ALA ALA B B	180 180	. 89.848	94.046	-3.335	1.00
2.55	1 . .							

ATOM 4687	N	N	. MET MET MET B B	181 181	. 88.208	92.914	-2.291	1.00
2.50	1	. . .						
ATOM 4688	CA	CA	. MET MET MET B B	181 181	. 88.658	93.242	-0.872	1.00
2.17	1	. . .						
ATOM 4689	CB	CB	. MET MET MET B B	181 181	. 87.622	92.791	0.161	1.00
2.42	1	. . .						
ATOM 4690	CG	CG	. MET MET MET B B	181 181	. 86.275	93.563	0.118	1.00
2.70	1	. . .						
ATOM 4691	SD	SD	. MET MET MET B B	181 181	. 86.552	95.400	0.228	1.00
3.37	1	. . .						
ATOM 4692	CE	CE	. MET MET MET B B	181 181	. 87.675	95.436	1.583	1.00
7.07	1	. . .						
ATOM 4693	C	C	. MET MET MET B B	181 181	. 90.002	92.627	-0.599	1.00
2.00	1	. . .						
ATOM 4694	O	O	. MET MET MET B B	181 181	. 90.925	93.316	-0.108	1.00
2.04	1	. . .						
ATOM 4695	N	N	. ARG ARG ARG B B	182 182	. 90.152	91.352	-1.050	1.00
2.25	1	. . .						
ATOM 4696	CA	CA	. ARG ARG ARG B B	182 182	. 91.480	90.735	-0.923	1.00
2.67	1	. . .						
ATOM 4697	CB	CB	. ARG ARG ARG B B	182 182	. 91.440	89.280	-1.376	1.00
2.58	1	. . .						
ATOM 4698	CG	CG	. ARG ARG ARG B B	182 182	. 92.823	88.586	-1.192	1.00
4.96	1	. . .						
ATOM 4699	CD	CD	. ARG ARG ARG B B	182 182	. 92.689	87.171	-1.511	1.00
8.98	1	. . .						
ATOM 4700	NE	NE	. ARG ARG ARG B B	182 182	. 92.174	86.927	-2.867	1.00
12.80	1	. . .						
ATOM 4701	CZ	CZ	. ARG ARG ARG B B	182 182	. 92.932	86.807	-3.961	1.00
17.43	1	. . .						
ATOM 4702	NH1	NH1	. ARG ARG ARG B B	182 182	. 94.272	86.964	-3.905	1.00
17.07	1	. . .						
ATOM 4703	NH2	NH2	. ARG ARG ARG B B	182 182	. 92.355	86.552	-5.134	1.00
20.57	1	. . .						
ATOM 4704	C	C	. ARG ARG ARG B B	182 182	. 92.576	91.510	-1.725	1.00
2.00	1	. . .						
ATOM 4705	O	O	. ARG ARG ARG B B	182 182	. 93.649	91.758	-1.239	1.00
2.10	1	. . .						
ATOM 4706	N	N	. LEU LEU LEU B B	183 183	. 92.294	91.838	-2.978	1.00
2.87	1	. . .						
ATOM 4707	CA	CA	. LEU LEU LEU B B	183 183	. 93.265	92.469	-3.840	1.00
2.92	1	. . .						
ATOM 4708	CB	CB	. LEU LEU LEU B B	183 183	. 92.701	92.711	-5.201	1.00
3.98	1	. . .						
ATOM 4709	CG	CG	. LEU LEU LEU B B	183 183	. 92.307	91.503	-6.071	1.00
6.92	1	. . .						
ATOM 4710	CD1	CD1	. LEU LEU LEU B B	183 183	. 92.402	91.770	-7.629	1.00
6.57	1	. . .						
ATOM 4711	CD2	CD2	. LEU LEU LEU B B	183 183	. 92.837	90.115	-5.696	1.00
8.15	1	. . .						
ATOM 4712	C	C	. LEU LEU LEU B B	183 183	. 93.631	93.849	-3.269	1.00
2.26	1	. . .						
ATOM 4713	O	O	. LEU LEU LEU B B	183 183	. 94.807	94.196	-3.184	1.00
3.18	1	. . .						

ATOM 4714	N	N	. GLY GLY GLY B B 184 184 .	92.612	94.612	-2.841	1.00
2.39	1 . .						
ATOM 4715	CA	CA	. GLY GLY GLY B B 184 184 .	92.884	95.913	-2.234	1.00
2.19	1 . .						
ATOM 4716	C	C	. GLY GLY GLY B B 184 184 .	93.721	95.851	-0.960	1.00
2.05	1 . .						
ATOM 4717	O	O	. GLY GLY GLY B B 184 184 .	94.639	96.577	-0.779	1.00
2.76	1 . .						
ATOM 4718	N	N	. ALA ALA ALA B B 185 185 .	93.373	94.908	-0.083	1.00
2.44	1 . .						
ATOM 4719	CA	CA	. ALA ALA ALA B B 185 185 .	94.101	94.776	1.120	1.00
2.65	1 . .						
ATOM 4720	CB	CB	. ALA ALA ALA B B 185 185 .	93.334	93.823	2.040	1.00
2.60	1 . .						
ATOM 4721	C	C	. ALA ALA ALA B B 185 185 .	95.518	94.351	0.898	1.00
2.22	1 . .						
ATOM 4722	O	O	. ALA ALA ALA B B 185 185 .	96.445	94.858	1.542	1.00
4.46	1 . .						
ATOM 4723	N	N	. GLU GLU GLU B B 186 186 .	95.679	93.403	-0.041	1.00
3.06	1 . .						
ATOM 4724	CA	CA	. GLU GLU GLU B B 186 186 .	97.038	92.992	-0.341	1.00
2.53	1 . .						
ATOM 4725	CB	CB	. GLU GLU GLU B B 186 186 .	97.090	91.772	-1.274	1.00
2.94	1 . .						
ATOM 4726	CG	CG	. GLU GLU GLU B B 186 186 .	96.604	90.455	-0.563	1.00
2.97	1 . .						
ATOM 4727	CD	CD	. GLU GLU GLU B B 186 186 .	96.617	89.218	-1.425	1.00
6.22	1 . .						
ATOM 4728	OE1	OE1	. GLU GLU GLU B B 186 186 .	97.153	89.301	-2.539	1.00
8.94	1 . .						
ATOM 4729	OE2	OE2	. GLU GLU GLU B B 186 186 .	96.074	88.152	-1.007	1.00
5.43	1 . .						
ATOM 4730	C	C	. GLU GLU GLU B B 186 186 .	97.891	94.082	-0.949	1.00
2.55	1 . .						
ATOM 4731	O	O	. GLU GLU GLU B B 186 186 .	99.091	94.195	-0.615	1.00
3.15	1 . .						
ATOM 4732	N	N	. VAL VAL VAL B B 187 187 .	97.294	94.881	-1.818	1.00
2.90	1 . .						
ATOM 4733	CA	CA	. VAL VAL VAL B B 187 187 .	98.073	95.954	-2.363	1.00
2.79	1 . .						
ATOM 4734	CB	CB	. VAL VAL VAL B B 187 187 .	97.352	96.618	-3.572	1.00
3.62	1 . .						
ATOM 4735	CG1	CG1	. VAL VAL VAL B B 187 187 .	98.049	97.948	-4.030	1.00
2.78	1 . .						
ATOM 4736	CG2	CG2	. VAL VAL VAL B B 187 187 .	97.240	95.621	-4.755	1.00
3.58	1 . .						
ATOM 4737	C	C	. VAL VAL VAL B B 187 187 .	98.353	96.999	-1.268	1.00
2.36	1 . .						
ATOM 4738	O	O	. VAL VAL VAL B B 187 187 .	99.441	97.574	-1.238	1.00
3.07	1 . .						
ATOM 4739	N	N	. TYR TYR TYR B B 188 188 .	97.368	97.309	-0.428	1.00
2.91	1 . .						
ATOM 4740	CA	CA	. TYR TYR TYR B B 188 188 .	97.577	98.210	0.718	1.00
3.27	1 . .						

ATOM 4741	CB	CB	. TYR TYR TYR B B 188 188 .	96.259	98.322	1.555	1.00
3.31	1 . .						
ATOM 4742	CG	CG	. TYR TYR TYR B B 188 188 .	96.409	99.260	2.705	1.00
4.86	1 . .						
ATOM 4743	CD1	CD1	. TYR TYR TYR B B 188 188 .	96.197	100.592	2.561	1.00
2.88	1 . .						
ATOM 4744	CE1	CE1	. TYR TYR TYR B B 188 188 .	96.333	101.497	3.645	1.00
2.00	1 . .						
ATOM 4745	CZ	CZ	. TYR TYR TYR B B 188 188 .	96.602	100.979	4.882	1.00
3.31	1 . .						
ATOM 4746	OH	OH	. TYR TYR TYR B B 188 188 .	96.768	101.741	5.978	1.00
4.27	1 . .						
ATOM 4747	CE2	CE2	. TYR TYR TYR B B 188 188 .	96.770	99.655	5.042	1.00
2.13	1 . .						
ATOM 4748	CD2	CD2	. TYR TYR TYR B B 188 188 .	96.673	98.780	3.962	1.00
4.45	1 . .						
ATOM 4749	C	C	. TYR TYR TYR B B 188 188 .	98.777	97.821	1.610	1.00
3.90	1 . .						
ATOM 4750	O	O	. TYR TYR TYR B B 188 188 .	99.656	98.610	1.791	1.00
3.83	1 . .						
ATOM 4751	N	N	. HIS HIS HIS B B 189 189 .	98.831	96.542	2.039	1.00
3.10	1 . .						
ATOM 4752	CA	CA	. HIS HIS HIS B B 189 189 .	99.932	96.110	2.852	1.00
4.76	1 . .						
ATOM 4753	CB	CB	. HIS HIS HIS B B 189 189 .	99.655	94.697	3.445	1.00
3.62	1 . .						
ATOM 4754	CG	CG	. HIS HIS HIS B B 189 189 .	98.370	94.593	4.239	1.00
7.98	1 . .						
ATOM 4755	ND1	ND1	. HIS HIS HIS B B 189 189 .	98.073	95.430	5.293	1.00
12.17	1 . .						
ATOM 4756	CE1	CE1	. HIS HIS HIS B B 189 189 .	96.880	95.141	5.770	1.00
10.23	1 . .						
ATOM 4757	NE2	NE2	. HIS HIS HIS B B 189 189 .	96.415	94.095	5.103	1.00
13.00	1 . .						
ATOM 4758	CD2	CD2	. HIS HIS HIS B B 189 189 .	97.327	93.731	4.141	1.00
10.40	1 . .						
ATOM 4759	C	C	. HIS HIS HIS B B 189 189 .	101.233	96.113	2.066	1.00
4.15	1 . .						
ATOM 4760	O	O	. HIS HIS HIS B B 189 189 .	102.297	96.469	2.607	1.00
5.29	1 . .						
ATOM 4761	N	N	. THR THR THR B B 190 190 .	101.180	95.775	0.766	1.00
3.15	1 . .						
ATOM 4762	CA	CA	. THR THR THR B B 190 190 .	102.411	95.884	-0.053	1.00
4.32	1 . .						
ATOM 4763	CB	CB	. THR THR THR B B 190 190 .	102.125	95.373	-1.484	1.00
3.54	1 . .						
ATOM 4764	OG1	OG1	. THR THR THR B B 190 190 .	101.654	94.020	-1.448	1.00
7.40	1 . .						
ATOM 4765	CG2	CG2	. THR THR THR B B 190 190 .	103.354	95.431	-2.373	1.00
6.56	1 . .						
ATOM 4766	C	C	. THR THR THR B B 190 190 .	102.883	97.349	-0.142	1.00
4.68	1 . .						
ATOM 4767	O	O	. THR THR THR B B 190 190 .	104.090	97.636	0.036	1.00
5.00	1 . .						

ATOM 4768	N	N	. LEU LEU LEU B B 191 191 .	101.934	98.279	-0.281	1.00
3.34	1 . .						
ATOM 4769	CA	CA	. LEU LEU LEU B B 191 191 .	102.301	99.713	-0.402	1.00
2.66	1 . .						
ATOM 4770	CB	CB	. LEU LEU LEU B B 191 191 .	101.027	100.469	-0.734	1.00
3.68	1 . .						
ATOM 4771	CG	CG	. LEU LEU LEU B B 191 191 .	101.193	101.961	-0.717	1.00
3.77	1 . .						
ATOM 4772	CD1	CD1	. LEU LEU LEU B B 191 191 .	102.257	102.480	-1.728	1.00
4.66	1 . .						
ATOM 4773	CD2	CD2	. LEU LEU LEU B B 191 191 .	99.793	102.460	-1.006	1.00
4.73	1 . .						
ATOM 4774	C	C	. LEU LEU LEU B B 191 191 .	102.984	100.196	0.881	1.00
2.50	1 . .						
ATOM 4775	O	O	. LEU LEU LEU B B 191 191 .	103.925	100.937	0.878	1.00
4.59	1 . .						
ATOM 4776	N	N	. LYS LYS LYS B B 192 192 .	102.515	99.687	2.038	1.00
2.89	1 . .						
ATOM 4777	CA	CA	. LYS LYS LYS B B 192 192 .	103.107	100.085	3.315	1.00
4.27	1 . .						
ATOM 4778	CB	CB	. LYS LYS LYS B B 192 192 .	102.321	99.482	4.518	1.00
4.73	1 . .						
ATOM 4779	CG	CG	. LYS LYS LYS B B 192 192 .	102.826	99.986	5.873	1.00
5.43	1 . .						
ATOM 4780	CD	CD	. LYS LYS LYS B B 192 192 .	101.966	99.486	6.981	1.00
6.32	1 . .						
ATOM 4781	CE	CE	. LYS LYS LYS B B 192 192 .	102.393	100.103	8.292	1.00
8.64	1 . .						
ATOM 4782	NZ	NZ	. LYS LYS LYS B B 192 192 .	101.594	99.474	9.385	1.00
11.76	1 . .						
ATOM 4783	C	C	. LYS LYS LYS B B 192 192 .	104.597	99.781	3.288	1.00
4.26	1 . .						
ATOM 4784	O	O	. LYS LYS LYS B B 192 192 .	105.441	100.554	3.742	1.00
4.99	1 . .						
ATOM 4785	N	N	. GLY GLY GLY B B 193 193 .	104.930	98.609	2.812	1.00
5.31	1 . .						
ATOM 4786	CA	CA	. GLY GLY GLY B B 193 193 .	106.339	98.283	2.754	1.00
5.80	1 . .						
ATOM 4787	C	C	. GLY GLY GLY B B 193 193 .	107.137	99.020	1.704	1.00
6.58	1 . .						
ATOM 4788	O	O	. GLY GLY GLY B B 193 193 .	108.291	99.338	1.913	1.00
10.26	1 . .						
ATOM 4789	N	N	. VAL VAL VAL B B 194 194 .	106.545	99.307	0.570	1.00
6.32	1 . .						
ATOM 4790	CA	CA	. VAL VAL VAL B B 194 194 .	107.231	100.135	-0.430	1.00
6.15	1 . .						
ATOM 4791	CB	CB	. VAL VAL VAL B B 194 194 .	106.312	100.264	-1.599	1.00
6.81	1 . .						
ATOM 4792	CG1	CG1	. VAL VAL VAL B B 194 194 .	106.856	101.319	-2.626	1.00
8.30	1 . .						
ATOM 4793	CG2	CG2	. VAL VAL VAL B B 194 194 .	106.076	98.888	-2.233	1.00
10.00	1 . .						
ATOM 4794	C	C	. VAL VAL VAL B B 194 194 .	107.565	101.533	0.125	1.00
7.47	1 . .						

ATOM 4795	O	O	. VAL VAL VAL B B	194 194	. 108.683 102.072 -0.036	1.00
9.66	1 . .					
ATOM 4796	N	N	. ILE ILE ILE B B	195 195	. 106.614 102.099 0.858	1.00
8.06	1 . .					
ATOM 4797	CA	CA	. ILE ILE ILE B B	195 195	. 106.814 103.427 1.494	1.00
7.82	1 . .					
ATOM 4798	CB	CB	. ILE ILE ILE B B	195 195	. 105.458 103.987 2.035	1.00
6.40	1 . .					
ATOM 4799	CG1	CG1	. ILE ILE ILE B B	195 195	. 104.553 104.393 0.858	1.00
7.94	1 . .					
ATOM 4800	CD1	CD1	. ILE ILE ILE B B	195 195	. 103.176 104.763 1.182	1.00
7.09	1 . .					
ATOM 4801	CG2	CG2	. ILE ILE ILE B B	195 195	. 105.734 105.184 2.950	1.00
7.69	1 . .					
ATOM 4802	C	C	. ILE ILE ILE B B	195 195	. 107.873 103.371 2.593	1.00
9.25	1 . .					
ATOM 4803	O	O	. ILE ILE ILE B B	195 195	. 108.800 104.268 2.690	1.00
10.04	1 . .					
ATOM 4804	N	N	. LYS LYS LYS B B	196 196	. 107.752 102.331 3.440	1.00
10.11	1 . .					
ATOM 4805	CA	CA	. LYS LYS LYS B B	196 196	. 108.717 102.145 4.511	1.00
10.49	1 . .					
ATOM 4806	CB	CB	. LYS LYS LYS B B	196 196	. 108.347 100.928 5.402	1.00
11.53	1 . .					
ATOM 4807	CG	CG	. LYS LYS LYS B B	196 196	. 109.322 100.626 6.572	1.00
10.61	1 . .					
ATOM 4808	CD	CD	. LYS LYS LYS B B	196 196	. 109.033 99.211 7.147	1.00
15.90	1 . .					
ATOM 4809	CE	CE	. LYS LYS LYS B B	196 196	. 110.109 98.819 8.230	1.00
21.87	1 . .					
ATOM 4810	NZ	NZ	. LYS LYS LYS B B	196 196	. 110.334 97.340 8.376	1.00
21.29	1 . .					
ATOM 4811	C	C	. LYS LYS LYS B B	196 196	. 110.115 102.011 3.867	1.00
10.10	1 . .					
ATOM 4812	O	O	. LYS LYS LYS B B	196 196	. 111.090 102.617 4.360	1.00
8.96	1 . .					
ATOM 4813	N	N	. ASP ASP ASP B B	197 197	. 110.220 101.295 2.737	1.00
11.03	1 . .					
ATOM 4814	CA	CA	. ASP ASP ASP B B	197 197	. 111.581 100.973 2.240	1.00
12.03	1 . .					
ATOM 4815	CB	CB	. ASP ASP ASP B B	197 197	. 111.570 99.884 1.192	1.00
13.89	1 . .					
ATOM 4816	CG	CG	. ASP ASP ASP B B	197 197	. 111.271 98.505 1.745	1.00
14.66	1 . .					
ATOM 4817	OD1	OD1	. ASP ASP ASP B B	197 197	. 110.985 97.651 0.896	1.00
16.49	1 . .					
ATOM 4818	OD2	OD2	. ASP ASP ASP B B	197 197	. 111.357 98.257 2.981	1.00
17.78	1 . .					
ATOM 4819	C	C	. ASP ASP ASP B B	197 197	. 112.168 102.224 1.666	1.00
12.86	1 . .					
ATOM 4820	O	O	. ASP ASP ASP B B	197 197	. 113.344 102.429 1.802	1.00
14.09	1 . .					
ATOM 4821	N	N	. LYS LYS LYS B B	198 198	. 111.326 103.085 1.104	1.00
9.59	1 . .					

ATOM 4822	CA	CA	. LYS LYS LYS B B 198 198 .	111.862	104.287	0.448	1.00
7.64	1 . .						
ATOM 4823	CB	CB	. LYS LYS LYS B B 198 198 .	111.043	104.672	-0.789	1.00
7.85	1 . .						
ATOM 4824	CG	CG	. LYS LYS LYS B B 198 198 .	111.702	105.769	-1.609	1.00
10.07	1 . .						
ATOM 4825	CD	CD	. LYS LYS LYS B B 198 198 .	110.882	106.055	-2.795	1.00
13.57	1 . .						
ATOM 4826	CE	CE	. LYS LYS LYS B B 198 198 .	111.532	107.119	-3.728	1.00
17.37	1 . .						
ATOM 4827	NZ	NZ	. LYS LYS LYS B B 198 198 .	110.605	107.290	-4.883	1.00
21.15	1 . .						
ATOM 4828	C	C	. LYS LYS LYS B B 198 198 .	111.975	105.477	1.389	1.00
7.87	1 . .						
ATOM 4829	O	O	. LYS LYS LYS B B 198 198 .	112.938	106.208	1.344	1.00
11.09	1 . .						
ATOM 4830	N	N	. TYR TYR TYR B B 199 199 .	110.970	105.656	2.254	1.00
6.74	1 . .						
ATOM 4831	CA	CA	. TYR TYR TYR B B 199 199 .	110.844	106.892	3.034	1.00
7.76	1 . .						
ATOM 4832	CB	CB	. TYR TYR TYR B B 199 199 .	109.474	107.542	2.851	1.00
9.17	1 . .						
ATOM 4833	CG	CG	. TYR TYR TYR B B 199 199 .	109.209	107.961	1.449	1.00
6.70	1 . .						
ATOM 4834	CD1	CD1	. TYR TYR TYR B B 199 199 .	108.427	107.186	0.575	1.00
8.94	1 . .						
ATOM 4835	CE1	CE1	. TYR TYR TYR B B 199 199 .	108.205	107.550	-0.718	1.00
8.29	1 . .						
ATOM 4836	CZ	CZ	. TYR TYR TYR B B 199 199 .	108.796	108.727	-1.187	1.00
14.45	1 . .						
ATOM 4837	OH	OH	. TYR TYR TYR B B 199 199 .	108.631	109.169	-2.479	1.00
20.17	1 . .						
ATOM 4838	CE2	CE2	. TYR TYR TYR B B 199 199 .	109.565	109.520	-0.355	1.00
15.01	1 . .						
ATOM 4839	CD2	CD2	. TYR TYR TYR B B 199 199 .	109.775	109.126	0.964	1.00
10.31	1 . .						
ATOM 4840	C	C	. TYR TYR TYR B B 199 199 .	111.119	106.660	4.515	1.00
8.76	1 . .						
ATOM 4841	O	O	. TYR TYR TYR B B 199 199 .	111.250	107.600	5.267	1.00
9.81	1 . .						
ATOM 4842	N	N	. GLY GLY GLY B B 200 200 .	111.220	105.408	4.936	1.00
9.15	1 . .						
ATOM 4843	CA	CA	. GLY GLY GLY B B 200 200 .	111.367	105.147	6.358	1.00
9.28	1 . .						
ATOM 4844	C	C	. GLY GLY GLY B B 200 200 .	110.038	104.927	7.098	1.00
11.57	1 . .						
ATOM 4845	O	O	. GLY GLY GLY B B 200 200 .	108.959	105.292	6.623	1.00
10.70	1 . .						
ATOM 4846	N	N	. LYS LYS LYS B B 201 201 .	110.145	104.292	8.267	1.00
13.34	1 . .						
ATOM 4847	CA	CA	. LYS LYS LYS B B 201 201 .	108.987	103.918	9.071	1.00
14.53	1 . .						
ATOM 4848	CB	CB	. LYS LYS LYS B B 201 201 .	109.425	103.121	10.338	1.00
16.08	1 . .						







ATOM 4903	CA	CA	. GLU GLU GLU B B 209 209 .	90.711	107.835	5.391	1.00
2.64	1 . .						
ATOM 4904	CB	CB	. GLU GLU GLU B B 209 209 .	90.354	108.242	3.965	1.00
4.08	1 . .						
ATOM 4905	CG	CG	. GLU GLU GLU B B 209 209 .	89.334	109.392	3.998	1.00
3.98	1 . .						
ATOM 4906	CD	CD	. GLU GLU GLU B B 209 209 .	88.738	109.724	2.634	1.00
7.01	1 . .						
ATOM 4907	OE1	OE1	. GLU GLU GLU B B 209 209 .	89.087	109.152	1.580	1.00
6.61	1 . .						
ATOM 4908	OE2	OE2	. GLU GLU GLU B B 209 209 .	87.877	110.624	2.616	1.00
11.64	1 . .						
ATOM 4909	C	C	. GLU GLU GLU B B 209 209 .	91.471	106.512	5.391	1.00
2.01	1 . .						
ATOM 4910	O	O	. GLU GLU GLU B B 209 209 .	91.048	105.605	4.669	1.00
2.94	1 . .						
ATOM 4911	N	N	. GLY GLY GLY B B 210 210 .	92.553	106.460	6.156	1.00
3.00	1 . .						
ATOM 4912	CA	CA	. GLY GLY GLY B B 210 210 .	93.335	105.267	6.359	1.00
2.32	1 . .						
ATOM 4913	C	C	. GLY GLY GLY B B 210 210 .	94.472	104.977	5.386	1.00
2.73	1 . .						
ATOM 4914	O	O	. GLY GLY GLY B B 210 210 .	95.094	103.914	5.541	1.00
3.93	1 . .						
ATOM 4915	N	N	. GLY GLY GLY B B 211 211 .	94.770	105.922	4.490	1.00
2.69	1 . .						
ATOM 4916	CA	CA	. GLY GLY GLY B B 211 211 .	95.868	105.751	3.554	1.00
4.55	1 . .						
ATOM 4917	C	C	. GLY GLY GLY B B 211 211 .	97.094	106.428	4.094	1.00
5.33	1 . .						
ATOM 4918	O	O	. GLY GLY GLY B B 211 211 .	97.053	107.010	5.129	1.00
4.99	1 . .						
ATOM 4919	N	N	. PHE PHE PHE B B 212 212 .	98.227	106.311	3.404	1.00
9.12	1 . .						
ATOM 4920	CA	CA	. PHE PHE PHE B B 212 212 .	99.473	106.965	3.785	1.00
11.58	1 . .						
ATOM 4921	CB	CB	. PHE PHE PHE B B 212 212 .	100.689	106.020	3.550	1.00
11.04	1 . .						
ATOM 4922	CG	CG	. PHE PHE PHE B B 212 212 .	100.436	104.597	3.955	1.00
11.81	1 . .						
ATOM 4923	CD1	CD1	. PHE PHE PHE B B 212 212 .	99.984	103.667	3.032	1.00
11.12	1 . .						
ATOM 4924	CE1	CE1	. PHE PHE PHE B B 212 212 .	99.733	102.335	3.369	1.00
12.50	1 . .						
ATOM 4925	CZ	CZ	. PHE PHE PHE B B 212 212 .	99.927	101.932	4.696	1.00
13.34	1 . .						
ATOM 4926	CE2	CE2	. PHE PHE PHE B B 212 212 .	100.384	102.858	5.659	1.00
15.45	1 . .						
ATOM 4927	CD2	CD2	. PHE PHE PHE B B 212 212 .	100.631	104.197	5.287	1.00
14.74	1 . .						
ATOM 4928	C	C	. PHE PHE PHE B B 212 212 .	99.749	108.367	3.213	1.00
13.38	1 . .						
ATOM 4929	O	O	. PHE PHE PHE B B 212 212 .	99.272	108.713	2.136	1.00
13.84	1 . .						

ATOM 4930	N	N	. ALA ALA ALA B B	213 213	. 100.477 109.197 3.975	1.00
15.38	1 . .					
ATOM 4931	CA	CA	. ALA ALA ALA B B	213 213	. 100.862 110.546 3.524	1.00
17.53	1 . .					
ATOM 4932	CB	CB	. ALA ALA ALA B B	213 213	. 100.224 111.599 4.365	1.00
15.81	1 . .					
ATOM 4933	C	C	. ALA ALA ALA B B	213 213	. 102.351 110.698 3.566	1.00
17.53	1 . .					
ATOM 4934	O	O	. ALA ALA ALA B B	213 213	. 102.897 111.548 4.293	1.00
17.55	1 . .					
ATOM 4935	N	N	. PRO PRO PRO B B	214 214	. 103.050 109.897 2.766	1.00
17.69	1 . .					
ATOM 4936	CA	CA	. PRO PRO PRO B B	214 214	. 104.453 110.050 2.819	1.00
18.42	1 . .					
ATOM 4937	CB	CB	. PRO PRO PRO B B	214 214	. 104.939 109.081 1.738	1.00
18.21	1 . .					
ATOM 4938	CG	CG	. PRO PRO PRO B B	214 214	. 103.850 108.905 0.845	1.00
18.56	1 . .					
ATOM 4939	CD	CD	. PRO PRO PRO B B	214 214	. 102.612 109.067 1.635	1.00
17.81	1 . .					
ATOM 4940	C	C	. PRO PRO PRO B B	214 214	. 104.767 111.503 2.499	1.00
19.55	1 . .					
ATOM 4941	O	O	. PRO PRO PRO B B	214 214	. 103.945 112.216 1.877	1.00
20.73	1 . .					
ATOM 4942	N	N	. ASN ASN ASN B B	215 215	. 105.933 111.949 2.954	1.00
20.06	1 . .					
ATOM 4943	CA	CA	. ASN ASN ASN B B	215 215	. 106.375 113.310 2.800	1.00
20.66	1 . .					
ATOM 4944	CB	CB	. ASN ASN ASN B B	215 215	. 107.427 113.661 3.900	1.00
21.86	1 . .					
ATOM 4945	CG	CG	. ASN ASN ASN B B	215 215	. 108.460 112.505 4.199	1.00
24.08	1 . .					
ATOM 4946	OD1	OD1	. ASN ASN ASN B B	215 215	. 109.674 112.783 4.331	1.00
28.79	1 . .					
ATOM 4947	ND2	ND2	. ASN ASN ASN B B	215 215	. 107.982 111.214 4.315	1.00
19.36	1 . .					
ATOM 4948	C	C	. ASN ASN ASN B B	215 215	. 106.842 113.586 1.371	1.00
20.25	1 . .					
ATOM 4949	O	O	. ASN ASN ASN B B	215 215	. 108.036 113.672 1.087	1.00
20.36	1 . .					
ATOM 4950	N	N	. ILE ILE ILE B B	216 216	. 105.884 113.709 0.445	1.00
19.73	1 . .					
ATOM 4951	CA	CA	. ILE ILE ILE B B	216 216	. 106.204 114.036 -0.976	1.00
19.59	1 . .					
ATOM 4952	CB	CB	. ILE ILE ILE B B	216 216	. 106.024 112.807 -1.914	1.00
18.82	1 . .					
ATOM 4953	CG1	CG1	. ILE ILE ILE B B	216 216	. 104.678 112.115 -1.612	1.00
19.51	1 . .					
ATOM 4954	CD1	CD1	. ILE ILE ILE B B	216 216	. 104.074 111.287 -2.754	1.00
10.71	1 . .					
ATOM 4955	CG2	CG2	. ILE ILE ILE B B	216 216	. 107.200 111.836 -1.715	1.00
19.75	1 . .					
ATOM 4956	C	C	. ILE ILE ILE B B	216 216	. 105.480 115.276 -1.571	1.00
20.11	1 . .					

ATOM 4957	O	O	. ILE ILE ILE B B 216 216 .	104.479	115.707	-1.057	1.00
19.82	1	. . .					
ATOM 4958	N	N	. LEU LEU LEU B B 217 217 .	106.013	115.853	-2.629	1.00
20.95	1	. . .					
ATOM 4959	CA	CA	. LEU LEU LEU B B 217 217 .	105.335	116.998	-3.218	1.00
22.19	1	. . .					
ATOM 4960	CB	CB	. LEU LEU LEU B B 217 217 .	106.325	118.125	-3.536	1.00
23.12	1	. . .					
ATOM 4961	CG	CG	. LEU LEU LEU B B 217 217 .	105.910	119.452	-4.176	1.00
23.39	1	. . .					
ATOM 4962	CD1	CD1	. LEU LEU LEU B B 217 217 .	104.643	120.089	-3.541	1.00
22.19	1	. . .					
ATOM 4963	CD2	CD2	. LEU LEU LEU B B 217 217 .	107.117	120.381	-4.062	1.00
23.39	1	. . .					
ATOM 4964	C	C	. LEU LEU LEU B B 217 217 .	104.655	116.507	-4.465	1.00
22.93	1	. . .					
ATOM 4965	O	O	. LEU LEU LEU B B 217 217 .	103.417	116.511	-4.528	1.00
23.66	1	. . .					
ATOM 4966	N	N	. GLU GLU GLU B B 218 218 .	105.480	116.011	-5.394	1.00
21.81	1	. . .					
ATOM 4967	CA	CA	. GLU GLU GLU B B 218 218 .	105.076	115.538	-6.724	1.00
20.51	1	. . .					
ATOM 4968	CB	CB	. GLU GLU GLU B B 218 218 .	106.298	114.992	-7.502	1.00
22.51	1	. . .					
ATOM 4969	CG	CG	. GLU GLU GLU B B 218 218 .	107.503	116.015	-7.743	1.00
26.57	1	. . .					
ATOM 4970	CD	CD	. GLU GLU GLU B B 218 218 .	107.305	116.989	-8.942	1.00
30.29	1	. . .					
ATOM 4971	OE1	OE1	. GLU GLU GLU B B 218 218 .	106.577	116.656	-9.913	1.00
31.98	1	. . .					
ATOM 4972	OE2	OE2	. GLU GLU GLU B B 218 218 .	107.889	118.099	-8.913	1.00
30.13	1	. . .					
ATOM 4973	C	C	. GLU GLU GLU B B 218 218 .	103.932	114.524	-6.696	1.00
18.31	1	. . .					
ATOM 4974	O	O	. GLU GLU GLU B B 218 218 .	104.017	113.450	-6.036	1.00
18.12	1	. . .					
ATOM 4975	N	N	. ASN ASN ASN B B 219 219 .	102.861	114.845	-7.433	1.00
15.41	1	. . .					
ATOM 4976	CA	CA	. ASN ASN ASN B B 219 219 .	101.694	113.932	-7.507	1.00
12.56	1	. . .					
ATOM 4977	CB	CB	. ASN ASN ASN B B 219 219 .	100.437	114.637	-8.033	1.00
12.00	1	. . .					
ATOM 4978	CG	CG	. ASN ASN ASN B B 219 219 .	100.042	115.800	-7.176	1.00
9.93	1	. . .					
ATOM 4979	OD1	OD1	. ASN ASN ASN B B 219 219 .	99.350	115.632	-6.198	1.00
12.05	1	. . .					
ATOM 4980	ND2	ND2	. ASN ASN ASN B B 219 219 .	100.414	116.986	-7.588	1.00
13.51	1	. . .					
ATOM 4981	C	C	. ASN ASN ASN B B 219 219 .	102.000	112.716	-8.394	1.00
12.30	1	. . .					
ATOM 4982	O	O	. ASN ASN ASN B B 219 219 .	101.383	111.635	-8.242	1.00
11.31	1	. . .					
ATOM 4983	N	N	. SER SER SER B B 220 220 .	102.967	112.901	-9.285	1.00
11.74	1	. . .					

ATOM 4984	CA	CA	. SER SER SER B B 220 220 .	103.491	111.839	-10.117	1.00
12.00	1 . .						
ATOM 4985	CB	CB	. SER SER SER B B 220 220 .	104.495	112.376	-11.138	1.00
12.78	1 . .						
ATOM 4986	OG	OG	. SER SER SER B B 220 220 .	105.722	112.787	-10.501	1.00
15.03	1 . .						
ATOM 4987	C	C	. SER SER SER B B 220 220 .	104.154	110.763	-9.255	1.00
11.03	1 . .						
ATOM 4988	O	O	. SER SER SER B B 220 220 .	104.043	109.585	-9.563	1.00
9.19	1 . .						
ATOM 4989	N	N	. GLU GLU GLU B B 221 221 .	104.803	111.166	-8.164	1.00
10.32	1 . .						
ATOM 4990	CA	CA	. GLU GLU GLU B B 221 221 .	105.432	110.228	-7.240	1.00
11.20	1 . .						
ATOM 4991	CB	CB	. GLU GLU GLU B B 221 221 .	106.405	110.985	-6.313	1.00
12.88	1 . .						
ATOM 4992	CG	CG	. GLU GLU GLU B B 221 221 .	107.106	110.188	-5.187	1.00
17.79	1 . .						
ATOM 4993	CD	CD	. GLU GLU GLU B B 221 221 .	107.916	108.966	-5.652	1.00
24.51	1 . .						
ATOM 4994	OE1	OE1	. GLU GLU GLU B B 221 221 .	108.053	108.739	-6.886	1.00
29.05	1 . .						
ATOM 4995	OE2	OE2	. GLU GLU GLU B B 221 221 .	108.402	108.226	-4.755	1.00
25.49	1 . .						
ATOM 4996	C	C	. GLU GLU GLU B B 221 221 .	104.385	109.422	-6.461	1.00
10.55	1 . .						
ATOM 4997	O	O	. GLU GLU GLU B B 221 221 .	104.602	108.279	-6.146	1.00
10.17	1 . .						
ATOM 4998	N	N	. ALA ALA ALA B B 222 222 .	103.240	110.011	-6.161	1.00
10.23	1 . .						
ATOM 4999	CA	CA	. ALA ALA ALA B B 222 222 .	102.186	109.194	-5.544	1.00
9.90	1 . .						
ATOM 5000	CB	CB	. ALA ALA ALA B B 222 222 .	100.983	110.063	-5.086	1.00
9.27	1 . .						
ATOM 5001	C	C	. ALA ALA ALA B B 222 222 .	101.708	108.095	-6.505	1.00
9.08	1 . .						
ATOM 5002	O	O	. ALA ALA ALA B B 222 222 .	101.503	106.946	-6.127	1.00
8.54	1 . .						
ATOM 5003	N	N	. LEU LEU LEU B B 223 223 .	101.528	108.488	-7.760	1.00
8.51	1 . .						
ATOM 5004	CA	CA	. LEU LEU LEU B B 223 223 .	101.086	107.535	-8.780	1.00
7.40	1 . .						
ATOM 5005	CB	CB	. LEU LEU LEU B B 223 223 .	100.850	108.291	-10.081	1.00
5.06	1 . .						
ATOM 5006	CG	CG	. LEU LEU LEU B B 223 223 .	99.600	109.206	-9.971	1.00
5.95	1 . .						
ATOM 5007	CD1	CD1	. LEU LEU LEU B B 223 223 .	99.599	110.073	-11.134	1.00
9.31	1 . .						
ATOM 5008	CD2	CD2	. LEU LEU LEU B B 223 223 .	98.380	108.370	-10.070	1.00
6.81	1 . .						
ATOM 5009	C	C	. LEU LEU LEU B B 223 223 .	102.119	106.431	-8.958	1.00
6.82	1 . .						
ATOM 5010	O	O	. LEU LEU LEU B B 223 223 .	101.739	105.271	-9.107	1.00
7.33	1 . .						

ATOM 5011	N	N	. GLU GLU GLU B B 224 224 .	103.409	106.805	-8.947	1.00
6.37	1	. . .					
ATOM 5012	CA	CA	. GLU GLU GLU B B 224 224 .	104.499	105.827	-9.114	1.00
9.25	1	. . .					
ATOM 5013	CB	CB	. GLU GLU GLU B B 224 224 .	105.850	106.538	-9.189	1.00
8.25	1	. . .					
ATOM 5014	CG	CG	. GLU GLU GLU B B 224 224 .	106.992	105.544	-9.439	1.00
15.23	1	. . .					
ATOM 5015	CD	CD	. GLU GLU GLU B B 224 224 .	107.164	105.157	-10.907	1.00
21.34	1	. . .					
ATOM 5016	OE1	OE1	. GLU GLU GLU B B 224 224 .	108.130	104.419	-11.167	1.00
22.94	1	. . .					
ATOM 5017	OE2	OE2	. GLU GLU GLU B B 224 224 .	106.367	105.583	-11.779	1.00
24.04	1	. . .					
ATOM 5018	C	C	. GLU GLU GLU B B 224 224 .	104.550	104.830	-7.971	1.00
8.21	1	. . .					
ATOM 5019	O	O	. GLU GLU GLU B B 224 224 .	104.799	103.644	-8.209	1.00
10.14	1	. . .					
ATOM 5020	N	N	. LEU LEU LEU B B 225 225 .	104.293	105.309	-6.763	1.00
6.76	1	. . .					
ATOM 5021	CA	CA	. LEU LEU LEU B B 225 225 .	104.217	104.429	-5.570	1.00
6.60	1	. . .					
ATOM 5022	CB	CB	. LEU LEU LEU B B 225 225 .	104.097	105.325	-4.322	1.00
7.60	1	. . .					
ATOM 5023	CG	CG	. LEU LEU LEU B B 225 225 .	105.359	105.957	-3.771	1.00
8.19	1	. . .					
ATOM 5024	CD1	CD1	. LEU LEU LEU B B 225 225 .	104.928	106.874	-2.594	1.00
9.55	1	. . .					
ATOM 5025	CD2	CD2	. LEU LEU LEU B B 225 225 .	106.355	104.907	-3.240	1.00
8.92	1	. . .					
ATOM 5026	C	C	. LEU LEU LEU B B 225 225 .	103.016	103.454	-5.625	1.00
6.65	1	. . .					
ATOM 5027	O	O	. LEU LEU LEU B B 225 225 .	103.097	102.247	-5.310	1.00
6.00	1	. . .					
ATOM 5028	N	N	. VAL VAL VAL B B 226 226 .	101.884	103.975	-6.030	1.00
5.66	1	. . .					
ATOM 5029	CA	CA	. VAL VAL VAL B B 226 226 .	100.718	103.134	-6.200	1.00
5.36	1	. . .					
ATOM 5030	CB	CB	. VAL VAL VAL B B 226 226 .	99.423	103.952	-6.430	1.00
6.27	1	. . .					
ATOM 5031	CG1	CG1	. VAL VAL VAL B B 226 226 .	98.286	103.018	-6.663	1.00
6.13	1	. . .					
ATOM 5032	CG2	CG2	. VAL VAL VAL B B 226 226 .	99.089	104.716	-5.242	1.00
8.58	1	. . .					
ATOM 5033	C	C	. VAL VAL VAL B B 226 226 .	100.980	102.085	-7.312	1.00
4.24	1	. . .					
ATOM 5034	O	O	. VAL VAL VAL B B 226 226 .	100.783	100.932	-7.095	1.00
7.17	1	. . .					
ATOM 5035	N	N	. LYS LYS LYS B B 227 227 .	101.446	102.513	-8.481	1.00
7.51	1	. . .					
ATOM 5036	CA	CA	. LYS LYS LYS B B 227 227 .	101.843	101.592	-9.567	1.00
9.05	1	. . .					
ATOM 5037	CB	CB	. LYS LYS LYS B B 227 227 .	102.383	102.437	-10.745	1.00
10.23	1	. . .					

ATOM 5038	CG	CG	. LYS LYS LYS B B 227 227 .	102.696	101.573	-12.001	1.00
14.28	1 . .						
ATOM 5039	CD	CD	. LYS LYS LYS B B 227 227 .	103.431	102.402	-13.068	1.00
17.97	1 . .						
ATOM 5040	CE	CE	. LYS LYS LYS B B 227 227 .	103.634	101.673	-14.364	1.00
18.23	1 . .						
ATOM 5041	NZ	NZ	. LYS LYS LYS B B 227 227 .	103.343	102.714	-15.382	1.00
20.16	1 . .						
ATOM 5042	C	C	. LYS LYS LYS B B 227 227 .	102.889	100.530	-9.143	1.00
7.90	1 . .						
ATOM 5043	O	O	. LYS LYS LYS B B 227 227 .	102.779	99.343	-9.486	1.00
9.33	1 . .						
ATOM 5044	N	N	. GLU GLU GLU B B 228 228 .	103.892	100.918	-8.402	1.00
7.02	1 . .						
ATOM 5045	CA	CA	. GLU GLU GLU B B 228 228 .	104.802	99.911	-7.840	1.00
10.61	1 . .						
ATOM 5046	CB	CB	. GLU GLU GLU B B 228 228 .	106.025	100.498	-7.182	1.00
10.63	1 . .						
ATOM 5047	CG	CG	. GLU GLU GLU B B 228 228 .	106.992	99.432	-6.767	1.00
15.58	1 . .						
ATOM 5048	CD	CD	. GLU GLU GLU B B 228 228 .	107.878	99.865	-5.647	1.00
23.40	1 . .						
ATOM 5049	OE1	OE1	. GLU GLU GLU B B 228 228 .	108.184	99.000	-4.795	1.00
27.06	1 . .						
ATOM 5050	OE2	OE2	. GLU GLU GLU B B 228 228 .	108.282	101.054	-5.611	1.00
25.66	1 . .						
ATOM 5051	C	C	. GLU GLU GLU B B 228 228 .	104.173	98.913	-6.920	1.00
9.43	1 . .						
ATOM 5052	O	O	. GLU GLU GLU B B 228 228 .	104.436	97.715	-7.032	1.00
9.09	1 . .						
ATOM 5053	N	N	. ALA ALA ALA B B 229 229 .	103.372	99.392	-5.975	1.00
8.98	1 . .						
ATOM 5054	CA	CA	. ALA ALA ALA B B 229 229 .	102.709	98.433	-5.057	1.00
7.80	1 . .						
ATOM 5055	CB	CB	. ALA ALA ALA B B 229 229 .	101.907	99.164	-4.054	1.00
6.71	1 . .						
ATOM 5056	C	C	. ALA ALA ALA B B 229 229 .	101.799	97.456	-5.786	1.00
8.18	1 . .						
ATOM 5057	O	O	. ALA ALA ALA B B 229 229 .	101.798	96.282	-5.474	1.00
8.21	1 . .						
ATOM 5058	N	N	. ILE ILE ILE B B 230 230 .	101.050	97.943	-6.785	1.00
7.71	1 . .						
ATOM 5059	CA	CA	. ILE ILE ILE B B 230 230 .	100.180	97.090	-7.546	1.00
7.52	1 . .						
ATOM 5060	CB	CB	. ILE ILE ILE B B 230 230 .	99.374	97.900	-8.625	1.00
6.24	1 . .						
ATOM 5061	CG1	CG1	. ILE ILE ILE B B 230 230 .	98.250	98.761	-8.003	1.00
5.95	1 . .						
ATOM 5062	CD1	CD1	. ILE ILE ILE B B 230 230 .	97.783	99.782	-8.936	1.00
8.49	1 . .						
ATOM 5063	CG2	CG2	. ILE ILE ILE B B 230 230 .	98.768	96.937	-9.669	1.00
9.94	1 . .						
ATOM 5064	C	C	. ILE ILE ILE B B 230 230 .	100.984	95.969	-8.227	1.00
9.20	1 . .						



ATOM 5065	O	O	. ILE ILE ILE B B 230 230 .	100.537	94.809	-8.236	1.00
8.97	1 . .						
ATOM 5066	N	N	. ASP ASP ASP B B 231 231 .	102.164	96.337	-8.759	1.00
8.98	1 . .						
ATOM 5067	CA	CA	. ASP ASP ASP B B 231 231 .	103.008	95.395	-9.510	1.00
12.04	1 . .						
ATOM 5068	CB	CB	. ASP ASP ASP B B 231 231 .	104.049	96.120	-10.354	1.00
13.23	1 . .						
ATOM 5069	CG	CG	. ASP ASP ASP B B 231 231 .	104.830	95.162	-11.237	1.00
19.68	1 . .						
ATOM 5070	OD1	OD1	. ASP ASP ASP B B 231 231 .	106.019	94.929	-10.944	1.00
24.63	1 . .						
ATOM 5071	OD2	OD2	. ASP ASP ASP B B 231 231 .	104.237	94.600	-12.193	1.00
25.79	1 . .						
ATOM 5072	C	C	. ASP ASP ASP B B 231 231 .	103.705	94.452	-8.532	1.00
11.41	1 . .						
ATOM 5073	O	O	. ASP ASP ASP B B 231 231 .	103.749	93.276	-8.757	1.00
11.70	1 . .						
ATOM 5074	N	N	. LYS LYS LYS B B 232 232 .	104.244	94.990	-7.436	1.00
10.63	1 . .						
ATOM 5075	CA	CA	. LYS LYS LYS B B 232 232 .	104.933	94.139	-6.427	1.00
11.54	1 . .						
ATOM 5076	CB	CB	. LYS LYS LYS B B 232 232 .	105.606	95.006	-5.372	1.00
12.20	1 . .						
ATOM 5077	CG	CG	. LYS LYS LYS B B 232 232 .	106.420	94.211	-4.350	1.00
18.17	1 . .						
ATOM 5078	CD	CD	. LYS LYS LYS B B 232 232 .	107.175	95.126	-3.384	1.00
20.45	1 . .						
ATOM 5079	CE	CE	. LYS LYS LYS B B 232 232 .	107.669	94.350	-2.165	1.00
21.83	1 . .						
ATOM 5080	NZ	NZ	. LYS LYS LYS B B 232 232 .	108.836	93.460	-2.477	1.00
23.41	1 . .						
ATOM 5081	C	C	. LYS LYS LYS B B 232 232 .	103.939	93.131	-5.801	1.00
9.35	1 . .						
ATOM 5082	O	O	. LYS LYS LYS B B 232 232 .	104.288	91.977	-5.503	1.00
10.80	1 . .						
ATOM 5083	N	N	. ALA ALA ALA B B 233 233 .	102.684	93.525	-5.643	1.00
7.95	1 . .						
ATOM 5084	CA	CA	. ALA ALA ALA B B 233 233 .	101.642	92.606	-5.219	1.00
8.33	1 . .						
ATOM 5085	CB	CB	. ALA ALA ALA B B 233 233 .	100.394	93.407	-4.731	1.00
9.08	1 . .						
ATOM 5086	C	C	. ALA ALA ALA B B 233 233 .	101.242	91.577	-6.303	1.00
7.93	1 . .						
ATOM 5087	O	O	. ALA ALA ALA B B 233 233 .	100.526	90.673	-6.033	1.00
9.59	1 . .						
ATOM 5088	N	N	. GLY GLY GLY B B 234 234 .	101.707	91.760	-7.534	1.00
7.83	1 . .						
ATOM 5089	CA	CA	. GLY GLY GLY B B 234 234 .	101.364	90.898	-8.649	1.00
7.69	1 . .						
ATOM 5090	C	C	. GLY GLY GLY B B 234 234 .	100.021	91.079	-9.348	1.00
8.63	1 . .						
ATOM 5091	O	O	. GLY GLY GLY B B 234 234 .	99.582	90.164	-10.075	1.00
9.73	1 . .						

ATOM 5092	N	N	. TYR TYR TYR B B 235 235 .	99.419	92.270	-9.237	1.00
6.72	1 . .						
ATOM 5093	CA	CA	. TYR TYR TYR B B 235 235 .	98.076	92.534	-9.759	1.00
4.54	1 . .						
ATOM 5094	CB	CB	. TYR TYR TYR B B 235 235 .	97.140	92.952	-8.633	1.00
3.53	1 . .						
ATOM 5095	CG	CG	. TYR TYR TYR B B 235 235 .	96.862	91.832	-7.670	1.00
5.42	1 . .						
ATOM 5096	CD1	CD1	. TYR TYR TYR B B 235 235 .	97.247	91.928	-6.339	1.00
5.02	1 . .						
ATOM 5097	CE1	CE1	. TYR TYR TYR B B 235 235 .	97.001	90.874	-5.456	1.00
6.65	1 . .						
ATOM 5098	CZ	CZ	. TYR TYR TYR B B 235 235 .	96.415	89.729	-5.898	1.00
6.56	1 . .						
ATOM 5099	OH	OH	. TYR TYR TYR B B 235 235 .	96.210	88.790	-4.921	1.00
8.70	1 . .						
ATOM 5100	CE2	CE2	. TYR TYR TYR B B 235 235 .	96.031	89.574	-7.235	1.00
8.79	1 . .						
ATOM 5101	CD2	CD2	. TYR TYR TYR B B 235 235 .	96.238	90.650	-8.119	1.00
7.23	1 . .						
ATOM 5102	C	C	. TYR TYR TYR B B 235 235 .	98.010	93.609	-10.852	1.00
5.25	1 . .						
ATOM 5103	O	O	. TYR TYR TYR B B 235 235 .	96.973	94.243	-11.089	1.00
6.01	1 . .						
ATOM 5104	N	N	. THR THR THR B B 236 236 .	99.130	93.803	-11.533	1.00
6.13	1 . .						
ATOM 5105	CA	CA	. THR THR THR B B 236 236 .	99.170	94.733	-12.673	1.00
8.92	1 . .						
ATOM 5106	CB	CB	. THR THR THR B B 236 236 .	100.544	94.640	-13.352	1.00
10.66	1 . .						
ATOM 5107	OG1	OG1	. THR THR THR B B 236 236 .	101.533	94.987	-12.398	1.00
13.05	1 . .						
ATOM 5108	CG2	CG2	. THR THR THR B B 236 236 .	100.725	95.649	-14.535	1.00
9.89	1 . .						
ATOM 5109	C	C	. THR THR THR B B 236 236 .	97.998	94.512	-13.657	1.00
9.68	1 . .						
ATOM 5110	O	O	. THR THR THR B B 236 236 .	97.398	95.464	-14.126	1.00
10.22	1 . .						
ATOM 5111	N	N	. GLU GLU GLU B B 237 237 .	97.643	93.299	-14.003	1.00
12.27	1 . .						
ATOM 5112	CA	CA	. GLU GLU GLU B B 237 237 .	96.495	93.155	-14.928	1.00
15.05	1 . .						
ATOM 5113	CB	CB	. GLU GLU GLU B B 237 237 .	96.457	91.763	-15.592	1.00
17.08	1 . .						
ATOM 5114	CG	CG	. GLU GLU GLU B B 237 237 .	97.205	91.677	-16.912	1.00
24.29	1 . .						
ATOM 5115	CD	CD	. GLU GLU GLU B B 237 237 .	98.660	92.017	-16.758	1.00
30.83	1 . .						
ATOM 5116	OE1	OE1	. GLU GLU GLU B B 237 237 .	99.308	91.440	-15.843	1.00
35.39	1 . .						
ATOM 5117	OE2	OE2	. GLU GLU GLU B B 237 237 .	99.151	92.863	-17.543	1.00
33.69	1 . .						
ATOM 5118	C	C	. GLU GLU GLU B B 237 237 .	95.130	93.414	-14.333	1.00
13.75	1 . .						

ATOM 5119	O	O	. GLU GLU GLU B B 237 237 .	94.114	93.414	-15.060	1.00
15.95	1 . . .						
ATOM 5120	N	N	. LYS LYS LYS B B 238 238 .	95.059	93.617	-13.024	1.00
10.88	1 . . .						
ATOM 5121	CA	CA	. LYS LYS LYS B B 238 238 .	93.764	93.516	-12.389	1.00
9.87	1 . . .						
ATOM 5122	CB	CB	. LYS LYS LYS B B 238 238 .	93.736	92.294	-11.449	1.00
9.69	1 . . .						
ATOM 5123	CG	CG	. LYS LYS LYS B B 238 238 .	93.613	90.926	-12.199	1.00
14.20	1 . . .						
ATOM 5124	CD	CD	. LYS LYS LYS B B 238 238 .	93.436	89.736	-11.211	1.00
17.55	1 . . .						
ATOM 5125	CE	CE	. LYS LYS LYS B B 238 238 .	93.319	88.404	-11.957	1.00
22.85	1 . . .						
ATOM 5126	NZ	NZ	. LYS LYS LYS B B 238 238 .	92.238	87.522	-11.448	1.00
24.86	1 . . .						
ATOM 5127	C	C	. LYS LYS LYS B B 238 238 .	93.338	94.785	-11.650	1.00
7.13	1 . . .						
ATOM 5128	O	O	. LYS LYS LYS B B 238 238 .	92.181	94.875	-11.243	1.00
6.32	1 . . .						
ATOM 5129	N	N	. ILE ILE ILE B B 239 239 .	94.265	95.694	-11.383	1.00
5.50	1 . . .						
ATOM 5130	CA	CA	. ILE ILE ILE B B 239 239 .	93.986	96.920	-10.574	1.00
4.48	1 . . .						
ATOM 5131	CB	CB	. ILE ILE ILE B B 239 239 .	94.741	96.859	-9.253	1.00
5.61	1 . . .						
ATOM 5132	CG1	CG1	. ILE ILE ILE B B 239 239 .	94.266	95.609	-8.456	1.00
6.08	1 . . .						
ATOM 5133	CD1	CD1	. ILE ILE ILE B B 239 239 .	95.098	95.321	-7.141	1.00
3.60	1 . . .						
ATOM 5134	CG2	CG2	. ILE ILE ILE B B 239 239 .	94.398	98.021	-8.372	1.00
6.81	1 . . .						
ATOM 5135	C	C	. ILE ILE ILE B B 239 239 .	94.378	98.191	-11.310	1.00
4.51	1 . . .						
ATOM 5136	O	O	. ILE ILE ILE B B 239 239 .	95.482	98.278	-11.839	1.00
5.71	1 . . .						
ATOM 5137	N	N	. VAL VAL VAL B B 240 240 .	93.504	99.178	-11.290	1.00
3.93	1 . . .						
ATOM 5138	CA	CA	. VAL VAL VAL B B 240 240 .	93.765	100.456	-12.017	1.00
3.26	1 . . .						
ATOM 5139	CB	CB	. VAL VAL VAL B B 240 240 .	92.762	100.666	-13.162	1.00
3.00	1 . . .						
ATOM 5140	CG1	CG1	. VAL VAL VAL B B 240 240 .	92.962	99.577	-14.266	1.00
5.02	1 . . .						
ATOM 5141	CG2	CG2	. VAL VAL VAL B B 240 240 .	91.356	100.750	-12.639	1.00
4.20	1 . . .						
ATOM 5142	C	C	. VAL VAL VAL B B 240 240 .	93.627	101.583	-10.962	1.00
2.83	1 . . .						
ATOM 5143	O	O	. VAL VAL VAL B B 240 240 .	93.316	101.323	-9.767	1.00
3.22	1 . . .						
ATOM 5144	N	N	. ILE ILE ILE B B 241 241 .	93.885	102.809	-11.380	1.00
2.86	1 . . .						
ATOM 5145	CA	CA	. ILE ILE ILE B B 241 241 .	93.959	103.945	-10.470	1.00
3.25	1 . . .						



ATOM 5173	CA	CA	. VAL VAL VAL B B	245 245	. 92.209	116.088	-7.126	1.00
2.41	1 . .							
ATOM 5174	CB	CB	. VAL VAL VAL B B	245 245	. 92.244	116.711	-8.493	1.00
3.06	1 . .							
ATOM 5175	CG1	CG1	. VAL VAL VAL B B	245 245	. 93.065	117.993	-8.502	1.00
2.95	1 . .							
ATOM 5176	CG2	CG2	. VAL VAL VAL B B	245 245	. 92.923	115.694	-9.483	1.00
2.05	1 . .							
ATOM 5177	C	C	. VAL VAL VAL B B	245 245	. 91.727	117.052	-6.052	1.00
2.55	1 . .							
ATOM 5178	O	O	. VAL VAL VAL B B	245 245	. 92.509	117.648	-5.333	1.00
4.86	1 . .							
ATOM 5179	N	N	. ALA ALA ALA B B	246 246	. 90.402	117.161	-5.922	1.00
3.34	1 . .							
ATOM 5180	CA	CA	. ALA ALA ALA B B	246 246	. 89.778	118.229	-5.062	1.00
3.13	1 . .							
ATOM 5181	CB	CB	. ALA ALA ALA B B	246 246	. 89.956	117.888	-3.590	1.00
3.29	1 . .							
ATOM 5182	C	C	. ALA ALA ALA B B	246 246	. 90.395	119.587	-5.402	1.00
2.99	1 . .							
ATOM 5183	O	O	. ALA ALA ALA B B	246 246	. 90.802	120.389	-4.548	1.00
3.39	1 . .							
ATOM 5184	N	N	. ALA ALA ALA B B	247 247	. 90.341	119.924	-6.669	1.00
2.58	1 . .							
ATOM 5185	CA	CA	. ALA ALA ALA B B	247 247	. 90.914	121.145	-7.147	1.00
4.08	1 . .							
ATOM 5186	CB	CB	. ALA ALA ALA B B	247 247	. 90.761	121.178	-8.621	1.00
3.10	1 . .							
ATOM 5187	C	C	. ALA ALA ALA B B	247 247	. 90.304	122.464	-6.520	1.00
3.93	1 . .							
ATOM 5188	O	O	. ALA ALA ALA B B	247 247	. 90.967	123.494	-6.459	1.00
5.52	1 . .							
ATOM 5189	N	N	. SER SER SER B B	248 248	. 89.068	122.413	-6.017	1.00
5.87	1 . .							
ATOM 5190	CA	CA	. SER SER SER B B	248 248	. 88.566	123.662	-5.406	1.00
6.11	1 . .							
ATOM 5191	CB	CB	. SER SER SER B B	248 248	. 87.156	123.483	-4.969	1.00
5.73	1 . .							
ATOM 5192	OG	OG	. SER SER SER B B	248 248	. 86.390	123.204	-6.076	1.00
4.65	1 . .							
ATOM 5193	C	C	. SER SER SER B B	248 248	. 89.400	124.044	-4.180	1.00
7.89	1 . .							
ATOM 5194	O	O	. SER SER SER B B	248 248	. 89.340	125.181	-3.732	1.00
7.60	1 . .							
ATOM 5195	N	N	. GLU GLU GLU B B	249 249	. 90.160	123.118	-3.622	1.00
8.51	1 . .							
ATOM 5196	CA	CA	. GLU GLU GLU B B	249 249	. 90.917	123.326	-2.395	1.00
8.32	1 . .							
ATOM 5197	CB	CB	. GLU GLU GLU B B	249 249	. 91.259	121.984	-1.718	1.00
8.64	1 . .							
ATOM 5198	CG	CG	. GLU GLU GLU B B	249 249	. 90.001	121.299	-1.250	1.00
9.14	1 . .							
ATOM 5199	CD	CD	. GLU GLU GLU B B	249 249	. 89.368	122.043	-0.067	1.00
8.69	1 . .							

ATOM 5200	OE1	OE1	. GLU GLU GLU B B	249 249	. 90.155	122.638	0.738	1.00
15.34	1 . .							
ATOM 5201	OE2	OE2	. GLU GLU GLU B B	249 249	. 88.126	122.068	0.050	1.00
7.94	1 . .							
ATOM 5202	C	C	. GLU GLU GLU B B	249 249	. 92.181	124.116	-2.632	1.00
8.09	1 . .							
ATOM 5203	O	O	. GLU GLU GLU B B	249 249	. 92.724	124.733	-1.685	1.00
10.32	1 . .							
ATOM 5204	N	N	. PHE PHE PHE B B	250 250	. 92.654	124.141	-3.870	1.00
8.12	1 . .							
ATOM 5205	CA	CA	. PHE PHE PHE B B	250 250	. 93.890	124.840	-4.222	1.00
7.98	1 . .							
ATOM 5206	CB	CB	. PHE PHE PHE B B	250 250	. 95.100	123.886	-4.486	1.00
8.80	1 . .							
ATOM 5207	CG	CG	. PHE PHE PHE B B	250 250	. 94.850	122.836	-5.545	1.00
10.08	1 . .							
ATOM 5208	CD1	CD1	. PHE PHE PHE B B	250 250	. 94.611	121.516	-5.178	1.00
11.50	1 . .							
ATOM 5209	CE1	CE1	. PHE PHE PHE B B	250 250	. 94.380	120.554	-6.118	1.00
11.26	1 . .							
ATOM 5210	CZ	CZ	. PHE PHE PHE B B	250 250	. 94.427	120.889	-7.467	1.00
13.09	1 . .							
ATOM 5211	CE2	CE2	. PHE PHE PHE B B	250 250	. 94.604	122.209	-7.855	1.00
10.92	1 . .							
ATOM 5212	CD2	CD2	. PHE PHE PHE B B	250 250	. 94.886	123.163	-6.889	1.00
9.77	1 . .							
ATOM 5213	C	C	. PHE PHE PHE B B	250 250	. 93.677	125.848	-5.376	1.00
8.11	1 . .							
ATOM 5214	O	O	. PHE PHE PHE B B	250 250	. 94.627	126.332	-5.973	1.00
9.00	1 . .							
ATOM 5215	N	N	. TYR TYR TYR B B	251 251	. 92.420	126.201	-5.666	1.00
7.54	1 . .							
ATOM 5216	CA	CA	. TYR TYR TYR B B	251 251	. 92.098	127.297	-6.551	1.00
8.27	1 . .							
ATOM 5217	CB	CB	. TYR TYR TYR B B	251 251	. 90.628	127.244	-6.897	1.00
7.62	1 . .							
ATOM 5218	CG	CG	. TYR TYR TYR B B	251 251	. 90.195	128.394	-7.805	1.00
8.95	1 . .							
ATOM 5219	CD1	CD1	. TYR TYR TYR B B	251 251	. 90.454	128.380	-9.196	1.00
9.22	1 . .							
ATOM 5220	CE1	CE1	. TYR TYR TYR B B	251 251	. 90.031	129.439	-10.020	1.00
11.28	1 . .							
ATOM 5221	CZ	CZ	. TYR TYR TYR B B	251 251	. 89.419	130.527	-9.415	1.00
12.08	1 . .							
ATOM 5222	OH	OH	. TYR TYR TYR B B	251 251	. 88.989	131.589	-10.167	1.00
14.67	1 . .							
ATOM 5223	CE2	CE2	. TYR TYR TYR B B	251 251	. 89.187	130.545	-8.033	1.00
11.68	1 . .							
ATOM 5224	CD2	CD2	. TYR TYR TYR B B	251 251	. 89.580	129.530	-7.251	1.00
10.76	1 . .							
ATOM 5225	C	C	. TYR TYR TYR B B	251 251	. 92.494	128.639	-5.909	1.00
8.17	1 . .							
ATOM 5226	O	O	. TYR TYR TYR B B	251 251	. 92.013	128.949	-4.809	1.00
8.46	1 . .							

ATOM 5227	N	N	. ARG ARG ARG B B 252 252 .	93.320	129.394	-6.622	1.00
8.63	1 . .						
ATOM 5228	CA	CA	. ARG ARG ARG B B 252 252 .	93.832	130.690	-6.162	1.00
11.02	1 . .						
ATOM 5229	CB	CB	. ARG ARG ARG B B 252 252 .	95.320	130.588	-5.808	1.00
10.98	1 . .						
ATOM 5230	CG	CG	. ARG ARG ARG B B 252 252 .	95.704	129.581	-4.731	1.00
12.76	1 . .						
ATOM 5231	CD	CD	. ARG ARG ARG B B 252 252 .	95.075	129.944	-3.385	1.00
15.65	1 . .						
ATOM 5232	NE	NE	. ARG ARG ARG B B 252 252 .	95.389	128.991	-2.320	1.00
16.77	1 . .						
ATOM 5233	CZ	CZ	. ARG ARG ARG B B 252 252 .	94.519	128.136	-1.766	1.00
18.08	1 . .						
ATOM 5234	NH1	NH1	. ARG ARG ARG B B 252 252 .	93.254	128.062	-2.167	1.00
19.32	1 . .						
ATOM 5235	NH2	NH2	. ARG ARG ARG B B 252 252 .	94.927	127.305	-0.826	1.00
20.82	1 . .						
ATOM 5236	C	C	. ARG ARG ARG B B 252 252 .	93.709	131.719	-7.254	1.00
10.64	1 . .						
ATOM 5237	O	O	. ARG ARG ARG B B 252 252 .	94.438	131.643	-8.225	1.00
11.61	1 . .						
ATOM 5238	N	N	. ASP ASP ASP B B 253 253 .	92.772	132.668	-7.112	1.00
12.48	1 . .						
ATOM 5239	CA	CA	. ASP ASP ASP B B 253 253 .	92.757	133.838	-8.011	1.00
12.49	1 . .						
ATOM 5240	CB	CB	. ASP ASP ASP B B 253 253 .	94.044	134.673	-7.813	1.00
14.68	1 . .						
ATOM 5241	CG	CG	. ASP ASP ASP B B 253 253 .	94.133	135.289	-6.465	1.00
17.58	1 . .						
ATOM 5242	OD1	OD1	. ASP ASP ASP B B 253 253 .	95.284	135.543	-6.027	1.00
22.05	1 . .						
ATOM 5243	OD2	OD2	. ASP ASP ASP B B 253 253 .	93.073	135.547	-5.835	1.00
18.75	1 . .						
ATOM 5244	C	C	. ASP ASP ASP B B 253 253 .	92.641	133.539	-9.493	1.00
11.47	1 . .						
ATOM 5245	O	O	. ASP ASP ASP B B 253 253 .	93.279	134.203	-10.308	1.00
11.71	1 . .						
ATOM 5246	N	N	. GLY GLY GLY B B 254 254 .	91.850	132.521	-9.870	1.00
10.05	1 . .						
ATOM 5247	CA	CA	. GLY GLY GLY B B 254 254 .	91.749	132.153	-11.250	1.00
8.86	1 . .						
ATOM 5248	C	C	. GLY GLY GLY B B 254 254 .	92.762	131.137	-11.713	1.00
9.47	1 . .						
ATOM 5249	O	O	. GLY GLY GLY B B 254 254 .	92.707	130.728	-12.861	1.00
9.27	1 . .						
ATOM 5250	N	N	. LYS LYS LYS B B 255 255 .	93.701	130.784	-10.848	1.00
10.36	1 . .						
ATOM 5251	CA	CA	. LYS LYS LYS B B 255 255 .	94.690	129.773	-11.217	1.00
10.26	1 . .						
ATOM 5252	CB	CB	. LYS LYS LYS B B 255 255 .	96.091	130.384	-11.318	1.00
11.09	1 . .						
ATOM 5253	CG	CG	. LYS LYS LYS B B 255 255 .	96.254	131.402	-12.401	1.00
15.35	1 . .						

ATOM 5254	CD	CD	. LYS LYS LYS B B	255 255	. 97.556	132.092	-12.318	1.00
17.49	1 . .							
ATOM 5255	CE	CE	. LYS LYS LYS B B	255 255	. 97.715	132.827	-13.577	1.00
17.45	1 . .							
ATOM 5256	NZ	NZ	. LYS LYS LYS B B	255 255	. 99.059	133.391	-13.714	1.00
19.18	1 . .							
ATOM 5257	C	C	. LYS LYS LYS B B	255 255	. 94.708	128.687	-10.174	1.00
7.72	1 . .							
ATOM 5258	O	O	. LYS LYS LYS B B	255 255	. 93.818	128.597	-9.330	1.00
7.88	1 . .							
ATOM 5259	N	N	. TYR TYR TYR B B	256 256	. 95.763	127.881	-10.170	1.00
9.92	1 . .							
ATOM 5260	CA	CA	. TYR TYR TYR B B	256 256	. 95.805	126.667	-9.326	1.00
9.69	1 . .							
ATOM 5261	CB	CB	. TYR TYR TYR B B	256 256	. 95.446	125.399	-10.173	1.00
7.74	1 . .							
ATOM 5262	CG	CG	. TYR TYR TYR B B	256 256	. 93.969	125.371	-10.582	1.00
7.52	1 . .							
ATOM 5263	CD1	CD1	. TYR TYR TYR B B	256 256	. 92.991	124.840	-9.740	1.00
5.54	1 . .							
ATOM 5264	CE1	CE1	. TYR TYR TYR B B	256 256	. 91.627	124.876	-10.121	1.00
3.99	1 . .							
ATOM 5265	CZ	CZ	. TYR TYR TYR B B	256 256	. 91.254	125.421	-11.329	1.00
3.25	1 . .							
ATOM 5266	OH	OH	. TYR TYR TYR B B	256 256	. 89.933	125.353	-11.700	1.00
3.33	1 . .							
ATOM 5267	CE2	CE2	. TYR TYR TYR B B	256 256	. 92.243	125.892	-12.217	1.00
3.59	1 . .							
ATOM 5268	CD2	CD2	. TYR TYR TYR B B	256 256	. 93.549	125.912	-11.824	1.00
6.31	1 . .							
ATOM 5269	C	C	. TYR TYR TYR B B	256 256	. 97.212	126.532	-8.744	1.00
11.35	1 . .							
ATOM 5270	O	O	. TYR TYR TYR B B	256 256	. 98.198	126.767	-9.450	1.00
12.40	1 . .							
ATOM 5271	N	N	. ASP ASP ASP B B	257 257	. 97.249	126.185	-7.459	1.00
13.50	1 . .							
ATOM 5272	CA	CA	. ASP ASP ASP B B	257 257	. 98.492	126.171	-6.701	1.00
15.29	1 . .							
ATOM 5273	CB	CB	. ASP ASP ASP B B	257 257	. 98.367	126.987	-5.409	1.00
16.47	1 . .							
ATOM 5274	CG	CG	. ASP ASP ASP B B	257 257	. 99.712	127.358	-4.817	1.00
20.36	1 . .							
ATOM 5275	OD1	OD1	. ASP ASP ASP B B	257 257	. 100.769	127.124	-5.469	1.00
18.79	1 . .							
ATOM 5276	OD2	OD2	. ASP ASP ASP B B	257 257	. 99.690	127.908	-3.700	1.00
23.38	1 . .							
ATOM 5277	C	C	. ASP ASP ASP B B	257 257	. 98.821	124.753	-6.297	1.00
15.64	1 . .							
ATOM 5278	O	O	. ASP ASP ASP B B	257 257	. 98.237	124.230	-5.355	1.00
14.82	1 . .							
ATOM 5279	N	N	. LEU LEU LEU B B	258 258	. 99.753	124.143	-7.010	1.00
16.61	1 . .							
ATOM 5280	CA	CA	. LEU LEU LEU B B	258 258	. 100.125	122.773	-6.652	1.00
18.15	1 . .							



ATOM 5281	CB	CB	. LEU LEU LEU B B	258 258	. 100.637	121.989	-7.874	1.00
15.51	1 . .							
ATOM 5282	CG	CG	. LEU LEU LEU B B	258 258	. 99.681	121.676	-9.045	1.00
12.89	1 . .							
ATOM 5283	CD1	CD1	. LEU LEU LEU B B	258 258	. 100.322	120.618	-9.966	1.00
13.06	1 . .							
ATOM 5284	CD2	CD2	. LEU LEU LEU B B	258 258	. 98.343	121.188	-8.630	1.00
12.76	1 . .							
ATOM 5285	C	C	. LEU LEU LEU B B	258 258	. 101.057	122.653	-5.419	1.00
20.38	1 . .							
ATOM 5286	O	O	. LEU LEU LEU B B	258 258	. 101.719	121.642	-5.216	1.00
20.55	1 . .							
ATOM 5287	N	N	. ASP ASP ASP B B	259 259	. 101.083	123.709	-4.605	1.00
23.10	1 . .							
ATOM 5288	CA	CA	. ASP ASP ASP B B	259 259	. 101.677	123.680	-3.264	1.00
24.28	1 . .							
ATOM 5289	CB	CB	. ASP ASP ASP B B	259 259	. 103.144	124.019	-3.318	1.00
23.59	1 . .							
ATOM 5290	CG	CG	. ASP ASP ASP B B	259 259	. 103.892	123.340	-2.233	1.00
20.85	1 . .							
ATOM 5291	OD1	OD1	. ASP ASP ASP B B	259 259	. 103.215	122.679	-1.374	1.00
22.38	1 . .							
ATOM 5292	OD2	OD2	. ASP ASP ASP B B	259 259	. 105.123	123.459	-2.237	1.00
13.45	1 . .							
ATOM 5293	C	C	. ASP ASP ASP B B	259 259	. 100.993	124.518	-2.161	1.00
25.77	1 . .							
ATOM 5294	O	O	. ASP ASP ASP B B	259 259	. 101.476	124.609	-1.008	1.00
24.18	1 . .							
ATOM 5295	N	N	. PHE PHE PHE B B	260 260	. 99.877	125.127	-2.499	1.00
27.43	1 . .							
ATOM 5296	CA	CA	. PHE PHE PHE B B	260 260	. 98.983	125.713	-1.498	1.00
29.29	1 . .							
ATOM 5297	CB	CB	. PHE PHE PHE B B	260 260	. 97.543	125.475	-1.930	1.00
29.25	1 . .							
ATOM 5298	CG	CG	. PHE PHE PHE B B	260 260	. 97.011	124.180	-1.471	1.00
26.96	1 . .							
ATOM 5299	CD1	CD1	. PHE PHE PHE B B	260 260	. 96.226	124.096	-0.337	1.00
25.28	1 . .							
ATOM 5300	CE1	CE1	. PHE PHE PHE B B	260 260	. 95.752	122.903	0.103	1.00
23.41	1 . .							
ATOM 5301	CZ	CZ	. PHE PHE PHE B B	260 260	. 96.077	121.734	-0.601	1.00
24.21	1 . .							
ATOM 5302	CE2	CE2	. PHE PHE PHE B B	260 260	. 96.873	121.813	-1.718	1.00
23.26	1 . .							
ATOM 5303	CD2	CD2	. PHE PHE PHE B B	260 260	. 97.349	123.013	-2.149	1.00
25.91	1 . .							
ATOM 5304	C	C	. PHE PHE PHE B B	260 260	. 99.135	125.284	0.002	1.00
30.93	1 . .							
ATOM 5305	O	O	. PHE PHE PHE B B	260 260	. 98.780	126.082	0.899	1.00
31.07	1 . .							
ATOM 5306	N	N	. LYS LYS LYS B B	261 261	. 99.591	124.047	0.284	1.00
31.55	1 . .							
ATOM 5307	CA	CA	. LYS LYS LYS B B	261 261	. 99.873	123.613	1.678	1.00
32.22	1 . .							

ATOM 5308	CB	. LYS LYS LYS B B	261 261	. 99.808	122.109	1.841	1.00
32.01	1 . .						
ATOM 5309	CG	. LYS LYS LYS B B	261 261	. 98.611	121.629	2.625	1.00
30.55	1 . .						
ATOM 5310	CD	. LYS LYS LYS B B	261 261	. 98.632	120.122	2.819	1.00
26.86	1 . .						
ATOM 5311	CE	. LYS LYS LYS B B	261 261	. 98.988	119.362	1.530	1.00
26.67	1 . .						
ATOM 5312	NZ	. LYS LYS LYS B B	261 261	. 98.703	117.947	1.801	1.00
24.18	1 . .						
ATOM 5313	C	. LYS LYS LYS B B	261 261	. 101.192	124.106	2.289	1.00
33.21	1 . .						
ATOM 5314	O	. LYS LYS LYS B B	261 261	. 101.483	123.849	3.464	1.00
33.29	1 . .						
ATOM 5315	N	. SER SER SER B B	262 262	. 101.989	124.805	1.503	1.00
33.95	1 . .						
ATOM 5316	CA	. SER SER SER B B	262 262	. 103.125	125.524	2.051	1.00
35.09	1 . .						
ATOM 5317	CB	. SER SER SER B B	262 262	. 104.234	125.537	1.018	1.00
35.06	1 . .						
ATOM 5318	OG	. SER SER SER B B	262 262	. 104.675	124.222	0.764	1.00
32.97	1 . .						
ATOM 5319	C	. SER SER SER B B	262 262	. 102.695	126.964	2.413	1.00
36.33	1 . .						
ATOM 5320	O	. SER SER SER B B	262 262	. 101.540	127.342	2.172	1.00
36.45	1 . .						
ATOM 5321	N	. PRO PRO PRO B B	263 263	. 103.601	127.770	3.017	1.00
36.91	1 . .						
ATOM 5322	CA	. PRO PRO PRO B B	263 263	. 103.289	129.204	3.154	1.00
37.34	1 . .						
ATOM 5323	CB	. PRO PRO PRO B B	263 263	. 104.515	129.752	3.882	1.00
37.46	1 . .						
ATOM 5324	CG	. PRO PRO PRO B B	263 263	. 105.042	128.569	4.650	1.00
37.11	1 . .						
ATOM 5325	CD	. PRO PRO PRO B B	263 263	. 104.839	127.412	3.742	1.00
37.13	1 . .						
ATOM 5326	C	. PRO PRO PRO B B	263 263	. 103.125	129.896	1.789	1.00
37.32	1 . .						
ATOM 5327	O	. PRO PRO PRO B B	263 263	. 103.933	129.644	0.877	1.00
37.72	1 . .						
ATOM 5328	N	. THR THR THR B B	264 264	. 102.102	130.751	1.666	1.00
37.06	1 . .						
ATOM 5329	CA	. THR THR THR B B	264 264	. 101.691	131.376	0.384	1.00
36.76	1 . .						
ATOM 5330	CB	. THR THR THR B B	264 264	. 100.692	132.555	0.593	1.00
36.77	1 . .						
ATOM 5331	OG1	. THR THR THR B B	264 264	. 99.404	132.032	0.945	1.00
38.51	1 . .						
ATOM 5332	CG2	. THR THR THR B B	264 264	. 100.516	133.395	-0.667	1.00
37.46	1 . .						
ATOM 5333	C	. THR THR THR B B	264 264	. 102.858	131.746	-0.553	1.00
36.09	1 . .						
ATOM 5334	O	. THR THR THR B B	264 264	. 103.981	132.035	-0.091	1.00
36.13	1 . .						

ATOM 5335	N	N	. ASP ASP ASP B B	265 265	. 102.572 131.696 -1.861 1.00
35.12	1 . .				
ATOM 5336	CA	CA	. ASP ASP ASP B B	265 265	. 103.508 132.033 -2.927 1.00
34.22	1 . .				
ATOM 5337	CB	CB	. ASP ASP ASP B B	265 265	. 104.643 131.005 -2.965 1.00
33.96	1 . .				
ATOM 5338	CG	CG	. ASP ASP ASP B B	265 265	. 105.693 131.327 -3.994 1.00
32.95	1 . .				
ATOM 5339	OD1	OD1	. ASP ASP ASP B B	265 265	. 105.626 132.413 -4.608 1.00
31.73	1 . .				
ATOM 5340	OD2	OD2	. ASP ASP ASP B B	265 265	. 106.579 130.472 -4.197 1.00
30.82	1 . .				
ATOM 5341	C	C	. ASP ASP ASP B B	265 265	. 102.779 132.077 -4.282 1.00
34.21	1 . .				
ATOM 5342	O	O	. ASP ASP ASP B B	265 265	. 102.690 131.043 -4.973 1.00
34.04	1 . .				
ATOM 5343	N	N	. PRO PRO PRO B B	266 266	. 102.252 133.266 -4.672 1.00
33.94	1 . .				
ATOM 5344	CA	CA	. PRO PRO PRO B B	266 266	. 101.576 133.449 -5.962 1.00
33.57	1 . .				
ATOM 5345	CB	CB	. PRO PRO PRO B B	266 266	. 101.451 134.972 -6.092 1.00
33.27	1 . .				
ATOM 5346	CG	CG	. PRO PRO PRO B B	266 266	. 101.315 135.427 -4.727 1.00
34.61	1 . .				
ATOM 5347	CD	CD	. PRO PRO PRO B B	266 266	. 102.156 134.493 -3.858 1.00
34.13	1 . .				
ATOM 5348	C	C	. PRO PRO PRO B B	266 266	. 102.360 132.910 -7.133 1.00
33.10	1 . .				
ATOM 5349	O	O	. PRO PRO PRO B B	266 266	. 101.748 132.514 -8.133 1.00
32.71	1 . .				
ATOM 5350	N	N	. SER SER SER B B	267 267	. 103.688 132.839 -6.989 1.00
32.84	1 . .				
ATOM 5351	CA	CA	. SER SER SER B B	267 267	. 104.571 132.527 -8.141 1.00
32.49	1 . .				
ATOM 5352	CB	CB	. SER SER SER B B	267 267	. 106.022 132.991 -7.907 1.00
32.26	1 . .				
ATOM 5353	OG	OG	. SER SER SER B B	267 267	. 106.599 132.425 -6.751 1.00
31.14	1 . .				
ATOM 5354	C	C	. SER SER SER B B	267 267	. 104.518 131.070 -8.605 1.00
31.96	1 . .				
ATOM 5355	O	O	. SER SER SER B B	267 267	. 104.867 130.746 -9.753 1.00
31.97	1 . .				
ATOM 5356	N	N	. ARG ARG ARG B B	268 268	. 104.062 130.200 -7.713 1.00
31.30	1 . .				
ATOM 5357	CA	CA	. ARG ARG ARG B B	268 268	. 103.954 128.786 -8.004 1.00
29.86	1 . .				
ATOM 5358	CB	CB	. ARG ARG ARG B B	268 268	. 104.195 127.978 -6.725 1.00
30.09	1 . .				
ATOM 5359	CG	CG	. ARG ARG ARG B B	268 268	. 103.171 128.209 -5.629 1.00
30.43	1 . .				
ATOM 5360	CD	CD	. ARG ARG ARG B B	268 268	. 103.696 127.737 -4.320 1.00
32.33	1 . .				
ATOM 5361	NE	NE	. ARG ARG ARG B B	268 268	. 102.824 128.132 -3.225 1.00
35.64	1 . .				

ATOM 5362 CZ	CZ	. ARG ARG ARG B B 268 268 .	103.139	128.013	-1.936	1.00
38.27 1 . .						
ATOM 5363 NH1	NH1	. ARG ARG ARG B B 268 268 .	104.312	127.508	-1.563	1.00
39.45 1 . .						
ATOM 5364 NH2	NH2	. ARG ARG ARG B B 268 268 .	102.273	128.385	-1.013	1.00
39.76 1 . .						
ATOM 5365 C	C	. ARG ARG ARG B B 268 268 .	102.612	128.401	-8.667	1.00
29.00 1 . .						
ATOM 5366 O	O	. ARG ARG ARG B B 268 268 .	102.370	127.222	-8.923	1.00
29.00 1 . .						
ATOM 5367 N	N	. TYR TYR TYR B B 269 269 .	101.772	129.383	-8.983	1.00
27.14 1 . .						
ATOM 5368 CA	CA	. TYR TYR TYR B B 269 269 .	100.447	129.097	-9.552	1.00
25.22 1 . .						
ATOM 5369 CB	CB	. TYR TYR TYR B B 269 269 .	99.477	130.284	-9.381	1.00
25.12 1 . .						
ATOM 5370 CG	CG	. TYR TYR TYR B B 269 269 .	99.158	130.744	-7.957	1.00
26.67 1 . .						
ATOM 5371 CD1	CD1	. TYR TYR TYR B B 269 269 .	98.460	131.950	-7.749	1.00
27.23 1 . .						
ATOM 5372 CE1	CE1	. TYR TYR TYR B B 269 269 .	98.158	132.409	-6.484	1.00
29.13 1 . .						
ATOM 5373 CZ	CZ	. TYR TYR TYR B B 269 269 .	98.549	131.677	-5.373	1.00
29.86 1 . .						
ATOM 5374 OH	OH	. TYR TYR TYR B B 269 269 .	98.227	132.137	-4.112	1.00
29.19 1 . .						
ATOM 5375 CE2	CE2	. TYR TYR TYR B B 269 269 .	99.216	130.472	-5.534	1.00
29.14 1 . .						
ATOM 5376 CD2	CD2	. TYR TYR TYR B B 269 269 .	99.536	130.012	-6.832	1.00
26.74 1 . .						
ATOM 5377 C	C	. TYR TYR TYR B B 269 269 .	100.481	128.662	-11.029	1.00
23.15 1 . .						
ATOM 5378 O	O	. TYR TYR TYR B B 269 269 .	101.293	129.143	-11.805	1.00
23.74 1 . .						
ATOM 5379 N	N	. ILE ILE ILE B B 270 270 .	99.588	127.743	-11.424	1.00
20.38 1 . .						
ATOM 5380 CA	CA	. ILE ILE ILE B B 270 270 .	99.438	127.374	-12.842	1.00
17.22 1 . .						
ATOM 5381 CB	CB	. ILE ILE ILE B B 270 270 .	99.942	125.891	-13.122	1.00
17.52 1 . .						
ATOM 5382 CG1	CG1	. ILE ILE ILE B B 270 270 .	98.888	124.848	-12.708	1.00
17.50 1 . .						
ATOM 5383 CD1	CD1	. ILE ILE ILE B B 270 270 .	99.335	123.419	-13.006	1.00
16.19 1 . .						
ATOM 5384 CG2	CG2	. ILE ILE ILE B B 270 270 .	101.376	125.634	-12.524	1.00
16.42 1 . .						
ATOM 5385 C	C	. ILE ILE ILE B B 270 270 .	97.990	127.561	-13.369	1.00
15.68 1 . .						
ATOM 5386 O	O	. ILE ILE ILE B B 270 270 .	97.055	127.582	-12.571	1.00
15.83 1 . .						
ATOM 5387 N	N	. THR THR THR B B 271 271 .	97.831	127.671	-14.691	1.00
13.35 1 . .						
ATOM 5388 CA	CA	. THR THR THR B B 271 271 .	96.518	127.774	-15.314	1.00
13.45 1 . .						

ATOM 5389	CB	CB	. THR THR THR B B	271	271	. 96.508	128.459	-16.736	1.00
11.78	1	. .							
ATOM 5390	OG1	OG1	. THR THR THR B B	271	271	. 96.822	127.476	-17.744	1.00
13.50	1	. .							
ATOM 5391	CG2	CG2	. THR THR THR B B	271	271	. 97.405	129.797	-16.846	1.00
12.31	1	. .							
ATOM 5392	C	C	. THR THR THR B B	271	271	. 95.803	126.426	-15.427	1.00
12.72	1	. .							
ATOM 5393	O	O	. THR THR THR B B	271	271	. 96.432	125.389	-15.316	1.00
12.32	1	. .							
ATOM 5394	N	N	. GLY GLY GLY B B	272	272	. 94.494	126.479	-15.677	1.00
11.18	1	. .							
ATOM 5395	CA	CA	. GLY GLY GLY B B	272	272	. 93.674	125.298	-15.872	1.00
11.27	1	. .							
ATOM 5396	C	C	. GLY GLY GLY B B	272	272	. 94.204	124.505	-17.056	1.00
10.43	1	. .							
ATOM 5397	O	O	. GLY GLY GLY B B	272	272	. 94.093	123.305	-17.084	1.00
10.55	1	. .							
ATOM 5398	N	N	. ASP ASP ASP B B	273	273	. 94.748	125.169	-18.069	1.00
11.00	1	. .							
ATOM 5399	CA	CA	. ASP ASP ASP B B	273	273	. 95.162	124.468	-19.268	1.00
12.66	1	. .							
ATOM 5400	CB	CB	. ASP ASP ASP B B	273	273	. 95.368	125.436	-20.448	1.00
14.48	1	. .							
ATOM 5401	CG	CG	. ASP ASP ASP B B	273	273	. 94.220	125.398	-21.478	1.00
17.55	1	. .							
ATOM 5402	OD1	OD1	. ASP ASP ASP B B	273	273	. 93.001	125.417	-21.140	1.00
19.19	1	. .							
ATOM 5403	OD2	OD2	. ASP ASP ASP B B	273	273	. 94.574	125.395	-22.691	1.00
24.52	1	. .							
ATOM 5404	C	C	. ASP ASP ASP B B	273	273	. 96.452	123.721	-18.902	1.00
12.51	1	. .							
ATOM 5405	O	O	. ASP ASP ASP B B	273	273	. 96.646	122.555	-19.341	1.00
10.29	1	. .							
ATOM 5406	N	N	. GLN GLN GLN B B	274	274	. 97.268	124.333	-18.032	1.00
13.32	1	. .							
ATOM 5407	CA	CA	. GLN GLN GLN B B	274	274	. 98.500	123.645	-17.580	1.00
13.90	1	. .							
ATOM 5408	CB	CB	. GLN GLN GLN B B	274	274	. 99.490	124.542	-16.840	1.00
14.75	1	. .							
ATOM 5409	CG	CG	. GLN GLN GLN B B	274	274	. 99.980	125.731	-17.680	1.00
19.36	1	. .							
ATOM 5410	CD	CD	. GLN GLN GLN B B	274	274	. 100.742	126.744	-16.847	1.00
20.49	1	. .							
ATOM 5411	OE1	OE1	. GLN GLN GLN B B	274	274	. 100.151	127.612	-16.233	1.00
22.16	1	. .							
ATOM 5412	NE2	NE2	. GLN GLN GLN B B	274	274	. 102.065	126.605	-16.799	1.00
23.34	1	. .							
ATOM 5413	C	C	. GLN GLN GLN B B	274	274	. 98.175	122.413	-16.769	1.00
12.33	1	. .							
ATOM 5414	O	O	. GLN GLN GLN B B	274	274	. 98.797	121.322	-16.953	1.00
11.76	1	. .							
ATOM 5415	N	N	. LEU LEU LEU B B	275	275	. 97.163	122.579	-15.922	1.00
10.50	1	. .							

ATOM 5416	CA	CA	. LEU LEU LEU B B	275 275	. 96.666	121.535	-15.074	1.00
9.37	1 . .							
ATOM 5417	CB	CB	. LEU LEU LEU B B	275 275	. 95.675	122.110	-14.028	1.00
9.02	1 . .							
ATOM 5418	CG	CG	. LEU LEU LEU B B	275 275	. 95.123	121.174	-12.958	1.00
9.25	1 . .							
ATOM 5419	CD1	CD1	. LEU LEU LEU B B	275 275	. 96.236	120.536	-12.127	1.00
10.31	1 . .							
ATOM 5420	CD2	CD2	. LEU LEU LEU B B	275 275	. 94.179	121.986	-11.985	1.00
5.64	1 . .							
ATOM 5421	C	C	. LEU LEU LEU B B	275 275	. 96.132	120.355	-15.912	1.00
8.15	1 . .							
ATOM 5422	O	O	. LEU LEU LEU B B	275 275	. 96.631	119.194	-15.740	1.00
8.31	1 . .							
ATOM 5423	N	N	. GLY GLY GLY B B	276 276	. 95.271	120.653	-16.883	1.00
6.51	1 . .							
ATOM 5424	CA	CA	. GLY GLY GLY B B	276 276	. 94.785	119.698	-17.858	1.00
7.39	1 . .							
ATOM 5425	C	C	. GLY GLY GLY B B	276 276	. 95.900	118.945	-18.559	1.00
7.64	1 . .							
ATOM 5426	O	O	. GLY GLY GLY B B	276 276	. 95.829	117.707	-18.699	1.00
9.01	1 . .							
ATOM 5427	N	N	. ALA ALA ALA B B	277 277	. 96.913	119.666	-19.039	1.00
7.90	1 . .							
ATOM 5428	CA	CA	. ALA ALA ALA B B	277 277	. 98.057	118.989	-19.701	1.00
7.48	1 . .							
ATOM 5429	CB	CB	. ALA ALA ALA B B	277 277	. 99.110	119.999	-20.250	1.00
10.18	1 . .							
ATOM 5430	C	C	. ALA ALA ALA B B	277 277	. 98.735	117.996	-18.728	1.00
7.68	1 . .							
ATOM 5431	O	O	. ALA ALA ALA B B	277 277	. 99.116	116.907	-19.182	1.00
10.26	1 . .							
ATOM 5432	N	N	. LEU LEU LEU B B	278 278	. 98.864	118.340	-17.436	1.00
7.84	1 . .							
ATOM 5433	CA	CA	. LEU LEU LEU B B	278 278	. 99.464	117.437	-16.446	1.00
7.47	1 . .							
ATOM 5434	CB	CB	. LEU LEU LEU B B	278 278	. 99.469	118.089	-15.040	1.00
8.37	1 . .							
ATOM 5435	CG	CG	. LEU LEU LEU B B	278 278	. 100.240	117.538	-13.833	1.00
10.67	1 . .							
ATOM 5436	CD1	CD1	. LEU LEU LEU B B	278 278	. 101.790	117.536	-14.056	1.00
15.68	1 . .							
ATOM 5437	CD2	CD2	. LEU LEU LEU B B	278 278	. 99.880	118.379	-12.605	1.00
12.63	1 . .							
ATOM 5438	C	C	. LEU LEU LEU B B	278 278	. 98.629	116.169	-16.358	1.00
5.88	1 . .							
ATOM 5439	O	O	. LEU LEU LEU B B	278 278	. 99.234	115.047	-16.394	1.00
6.97	1 . .							
ATOM 5440	N	N	. TYR TYR TYR B B	279 279	. 97.282	116.305	-16.272	1.00
6.83	1 . .							
ATOM 5441	CA	CA	. TYR TYR TYR B B	279 279	. 96.388	115.125	-16.202	1.00
5.92	1 . .							
ATOM 5442	CB	CB	. TYR TYR TYR B B	279 279	. 94.971	115.511	-16.061	1.00
4.87	1 . .							

ATOM 5443	CG	CG	. TYR TYR TYR B B 279 279 .	94.633	116.340	-14.855	1.00
2.00	1 . .						
ATOM 5444	CD1	CD1	. TYR TYR TYR B B 279 279 .	95.118	116.074	-13.616	1.00
2.53	1 . .						
ATOM 5445	CE1	CE1	. TYR TYR TYR B B 279 279 .	94.754	116.885	-12.551	1.00
2.45	1 . .						
ATOM 5446	CZ	CZ	. TYR TYR TYR B B 279 279 .	93.792	117.862	-12.653	1.00
3.76	1 . .						
ATOM 5447	OH	OH	. TYR TYR TYR B B 279 279 .	93.447	118.636	-11.551	1.00
3.94	1 . .						
ATOM 5448	CE2	CE2	. TYR TYR TYR B B 279 279 .	93.251	118.139	-13.905	1.00
2.79	1 . .						
ATOM 5449	CD2	CD2	. TYR TYR TYR B B 279 279 .	93.665	117.352	-14.980	1.00
3.88	1 . .						
ATOM 5450	C	C	. TYR TYR TYR B B 279 279 .	96.506	114.209	-17.461	1.00
4.60	1 . .						
ATOM 5451	O	O	. TYR TYR TYR B B 279 279 .	96.414	112.974	-17.409	1.00
6.17	1 . .						
ATOM 5452	N	N	. GLN GLN GLN B B 280 280 .	96.730	114.817	-18.623	1.00
5.59	1 . .						
ATOM 5453	CA	CA	. GLN GLN GLN B B 280 280 .	96.885	114.008	-19.823	1.00
5.44	1 . .						
ATOM 5454	CB	CB	. GLN GLN GLN B B 280 280 .	96.936	114.921	-21.057	1.00
5.91	1 . .						
ATOM 5455	CG	CG	. GLN GLN GLN B B 280 280 .	95.647	115.664	-21.353	1.00
10.74	1 . .						
ATOM 5456	CD	CD	. GLN GLN GLN B B 280 280 .	94.583	114.857	-22.093	1.00
14.07	1 . .						
ATOM 5457	OE1	OE1	. GLN GLN GLN B B 280 280 .	94.759	113.657	-22.366	1.00
17.33	1 . .						
ATOM 5458	NE2	NE2	. GLN GLN GLN B B 280 280 .	93.437	115.526	-22.438	1.00
14.19	1 . .						
ATOM 5459	C	C	. GLN GLN GLN B B 280 280 .	98.145	113.180	-19.696	1.00
5.33	1 . .						
ATOM 5460	O	O	. GLN GLN GLN B B 280 280 .	98.148	112.019	-20.154	1.00
6.07	1 . .						
ATOM 5461	N	N	. ASP ASP ASP B B 281 281 .	99.219	113.736	-19.127	1.00
6.35	1 . .						
ATOM 5462	CA	CA	. ASP ASP ASP B B 281 281 .	100.416	112.957	-18.912	1.00
7.81	1 . .						
ATOM 5463	CB	CB	. ASP ASP ASP B B 281 281 .	101.607	113.791	-18.398	1.00
9.55	1 . .						
ATOM 5464	CG	CG	. ASP ASP ASP B B 281 281 .	102.084	114.807	-19.430	1.00
13.50	1 . .						
ATOM 5465	OD1	OD1	. ASP ASP ASP B B 281 281 .	101.735	114.693	-20.657	1.00
17.50	1 . .						
ATOM 5466	OD2	OD2	. ASP ASP ASP B B 281 281 .	102.759	115.760	-18.998	1.00
18.74	1 . .						
ATOM 5467	C	C	. ASP ASP ASP B B 281 281 .	100.146	111.830	-17.955	1.00
7.49	1 . .						
ATOM 5468	O	O	. ASP ASP ASP B B 281 281 .	100.647	110.693	-18.155	1.00
7.71	1 . .						
ATOM 5469	N	N	. PHE PHE PHE B B 282 282 .	99.397	112.109	-16.889	1.00
5.64	1 . .						





ATOM 5497	O	O	. ARG ARG ARG B B 284 284 .	100.540	106.332	-20.391	1.00
6.40	1 . .						
ATOM 5498	N	N	. ASP ASP ASP B B 285 285 .	100.716	107.850	-18.783	1.00
5.49	1 . .						
ATOM 5499	CA	CA	. ASP ASP ASP B B 285 285 .	101.891	107.217	-18.129	1.00
6.52	1 . .						
ATOM 5500	CB	CB	. ASP ASP ASP B B 285 285 .	102.832	108.298	-17.563	1.00
8.56	1 . .						
ATOM 5501	CG	CG	. ASP ASP ASP B B 285 285 .	103.544	109.120	-18.617	1.00
10.86	1 . .						
ATOM 5502	OD1	OD1	. ASP ASP ASP B B 285 285 .	103.574	108.735	-19.822	1.00
16.44	1 . .						
ATOM 5503	OD2	OD2	. ASP ASP ASP B B 285 285 .	104.113	110.166	-18.209	1.00
14.59	1 . .						
ATOM 5504	C	C	. ASP ASP ASP B B 285 285 .	101.604	106.259	-16.994	1.00
7.19	1 . .						
ATOM 5505	O	O	. ASP ASP ASP B B 285 285 .	102.488	105.527	-16.623	1.00
8.15	1 . .						
ATOM 5506	N	N	. TYR TYR TYR B B 286 286 .	100.376	106.287	-16.484	1.00
5.37	1 . .						
ATOM 5507	CA	CA	. TYR TYR TYR B B 286 286 .	99.836	105.481	-15.351	1.00
4.61	1 . .						
ATOM 5508	CB	CB	. TYR TYR TYR B B 286 286 .	99.786	106.343	-14.080	1.00
5.14	1 . .						
ATOM 5509	CG	CG	. TYR TYR TYR B B 286 286 .	101.157	106.905	-13.750	1.00
5.88	1 . .						
ATOM 5510	CD1	CD1	. TYR TYR TYR B B 286 286 .	102.122	106.132	-13.110	1.00
7.69	1 . .						
ATOM 5511	CE1	CE1	. TYR TYR TYR B B 286 286 .	103.385	106.682	-12.851	1.00
10.37	1 . .						
ATOM 5512	CZ	CZ	. TYR TYR TYR B B 286 286 .	103.637	108.040	-13.184	1.00
12.12	1 . .						
ATOM 5513	OH	OH	. TYR TYR TYR B B 286 286 .	104.855	108.672	-12.936	1.00
16.02	1 . .						
ATOM 5514	CE2	CE2	. TYR TYR TYR B B 286 286 .	102.651	108.805	-13.775	1.00
11.16	1 . .						
ATOM 5515	CD2	CD2	. TYR TYR TYR B B 286 286 .	101.439	108.260	-14.012	1.00
9.24	1 . .						
ATOM 5516	C	C	. TYR TYR TYR B B 286 286 .	98.470	104.966	-15.717	1.00
4.29	1 . .						
ATOM 5517	O	O	. TYR TYR TYR B B 286 286 .	97.767	105.543	-16.548	1.00
3.84	1 . .						
ATOM 5518	N	N	. PRO PRO PRO B B 287 287 .	98.027	103.875	-15.044	1.00
3.72	1 . .						
ATOM 5519	CA	CA	. PRO PRO PRO B B 287 287 .	96.711	103.302	-15.264	1.00
4.10	1 . .						
ATOM 5520	CB	CB	. PRO PRO PRO B B 287 287 .	96.826	101.898	-14.651	1.00
5.64	1 . .						
ATOM 5521	CG	CG	. PRO PRO PRO B B 287 287 .	97.893	102.052	-13.624	1.00
5.76	1 . .						
ATOM 5522	CD	CD	. PRO PRO PRO B B 287 287 .	98.850	103.070	-14.131	1.00
4.69	1 . .						
ATOM 5523	C	C	. PRO PRO PRO B B 287 287 .	95.627	104.092	-14.590	1.00
3.23	1 . .						







ATOM 5605	N	N	. ASP ASP ASP B B 298 298 .	83.611	126.087	-9.668	1.00
2.27	1 . .						
ATOM 5606	CA	CA	. ASP ASP ASP B B 298 298 .	82.967	127.112	-10.510	1.00
2.53	1 . .						
ATOM 5607	CB	CB	. ASP ASP ASP B B 298 298 .	82.977	128.478	-9.800	1.00
2.16	1 . .						
ATOM 5608	CG	CG	. ASP ASP ASP B B 298 298 .	81.964	128.590	-8.715	1.00
2.84	1 . .						
ATOM 5609	OD1	OD1	. ASP ASP ASP B B 298 298 .	80.801	128.366	-8.985	1.00
4.68	1 . .						
ATOM 5610	OD2	OD2	. ASP ASP ASP B B 298 298 .	82.409	128.923	-7.607	1.00
5.84	1 . .						
ATOM 5611	C	C	. ASP ASP ASP B B 298 298 .	83.612	127.238	-11.909	1.00
2.29	1 . .						
ATOM 5612	O	O	. ASP ASP ASP B B 298 298 .	83.165	128.076	-12.716	1.00
2.11	1 . .						
ATOM 5613	N	N	. ASP ASP ASP B B 299 299 .	84.707	126.511	-12.146	1.00
2.10	1 . .						
ATOM 5614	CA	CA	. ASP ASP ASP B B 299 299 .	85.500	126.682	-13.416	1.00
2.10	1 . .						
ATOM 5615	CB	CB	. ASP ASP ASP B B 299 299 .	86.927	126.344	-13.084	1.00
2.00	1 . .						
ATOM 5616	CG	CG	. ASP ASP ASP B B 299 299 .	87.931	126.678	-14.194	1.00
2.00	1 . .						
ATOM 5617	OD1	OD1	. ASP ASP ASP B B 299 299 .	87.517	127.162	-15.271	1.00
2.73	1 . .						
ATOM 5618	OD2	OD2	. ASP ASP ASP B B 299 299 .	89.169	126.453	-13.921	1.00
4.03	1 . .						
ATOM 5619	C	C	. ASP ASP ASP B B 299 299 .	84.924	125.771	-14.505	1.00
2.04	1 . .						
ATOM 5620	O	O	. ASP ASP ASP B B 299 299 .	85.619	124.830	-15.021	1.00
2.78	1 . .						
ATOM 5621	N	N	. TRP TRP TRP B B 300 300 .	83.650	126.038	-14.816	1.00
2.18	1 . .						
ATOM 5622	CA	CA	. TRP TRP TRP B B 300 300 .	82.963	125.281	-15.809	1.00
2.65	1 . .						
ATOM 5623	CB	CB	. TRP TRP TRP B B 300 300 .	81.575	125.846	-16.056	1.00
2.48	1 . .						
ATOM 5624	CG	CG	. TRP TRP TRP B B 300 300 .	80.658	125.737	-14.884	1.00
2.16	1 . .						
ATOM 5625	CD1	CD1	. TRP TRP TRP B B 300 300 .	80.401	126.718	-13.913	1.00
4.39	1 . .						
ATOM 5626	NE1	NE1	. TRP TRP TRP B B 300 300 .	79.542	126.237	-13.006	1.00
2.84	1 . .						
ATOM 5627	CE2	CE2	. TRP TRP TRP B B 300 300 .	79.130	124.993	-13.391	1.00
3.05	1 . .						
ATOM 5628	CD2	CD2	. TRP TRP TRP B B 300 300 .	79.839	124.655	-14.567	1.00
3.43	1 . .						
ATOM 5629	CE3	CE3	. TRP TRP TRP B B 300 300 .	79.634	123.386	-15.143	1.00
4.17	1 . .						
ATOM 5630	CZ3	CZ3	. TRP TRP TRP B B 300 300 .	78.695	122.497	-14.507	1.00
3.06	1 . .						
ATOM 5631	CH2	CH2	. TRP TRP TRP B B 300 300 .	78.031	122.867	-13.334	1.00
4.19	1 . .						

ATOM 5632	CZ2	CZ2	. TRP TRP TRP B B 300 300 .	78.203	124.114	-12.771	1.00
3.83	1 . .						
ATOM 5633	C	C	. TRP TRP TRP B B 300 300 .	83.689	125.056	-17.128	1.00
2.03	1 . .						
ATOM 5634	O	O	. TRP TRP TRP B B 300 300 .	83.624	123.991	-17.742	1.00
2.97	1 . .						
ATOM 5635	N	N	. ALA ALA ALA B B 301 301 .	84.371	126.111	-17.641	1.00
3.67	1 . .						
ATOM 5636	CA	CA	. ALA ALA ALA B B 301 301 .	85.063	125.992	-18.889	1.00
2.01	1 . .						
ATOM 5637	CB	CB	. ALA ALA ALA B B 301 301 .	85.721	127.327	-19.205	1.00
2.10	1 . .						
ATOM 5638	C	C	. ALA ALA ALA B B 301 301 .	86.131	124.913	-18.929	1.00
2.27	1 . .						
ATOM 5639	O	O	. ALA ALA ALA B B 301 301 .	86.262	124.209	-19.893	1.00
2.04	1 . .						
ATOM 5640	N	N	. ALA ALA ALA B B 302 302 .	86.914	124.834	-17.875	1.00
2.09	1 . .						
ATOM 5641	CA	CA	. ALA ALA ALA B B 302 302 .	87.967	123.879	-17.801	1.00
2.11	1 . .						
ATOM 5642	CB	CB	. ALA ALA ALA B B 302 302 .	88.795	124.095	-16.583	1.00
3.21	1 . .						
ATOM 5643	C	C	. ALA ALA ALA B B 302 302 .	87.388	122.495	-17.788	1.00
2.28	1 . .						
ATOM 5644	O	O	. ALA ALA ALA B B 302 302 .	87.988	121.616	-18.448	1.00
3.07	1 . .						
ATOM 5645	N	N	. TRP TRP TRP B B 303 303 .	86.280	122.262	-17.077	1.00
2.50	1 . .						
ATOM 5646	CA	CA	. TRP TRP TRP B B 303 303 .	85.639	120.908	-16.973	1.00
2.74	1 . .						
ATOM 5647	CB	CB	. TRP TRP TRP B B 303 303 .	84.445	120.907	-16.034	1.00
2.10	1 . .						
ATOM 5648	CG	CG	. TRP TRP TRP B B 303 303 .	84.756	120.923	-14.546	1.00
3.06	1 . .						
ATOM 5649	CD1	CD1	. TRP TRP TRP B B 303 303 .	85.044	121.994	-13.751	1.00
3.71	1 . .						
ATOM 5650	NE1	NE1	. TRP TRP TRP B B 303 303 .	85.191	121.581	-12.458	1.00
2.93	1 . .						
ATOM 5651	CE2	CE2	. TRP TRP TRP B B 303 303 .	84.952	120.241	-12.367	1.00
3.15	1 . .						
ATOM 5652	CD2	CD2	. TRP TRP TRP B B 303 303 .	84.722	119.778	-13.668	1.00
2.31	1 . .						
ATOM 5653	CE3	CE3	. TRP TRP TRP B B 303 303 .	84.403	118.443	-13.855	1.00
4.16	1 . .						
ATOM 5654	CZ3	CZ3	. TRP TRP TRP B B 303 303 .	84.461	117.608	-12.777	1.00
2.40	1 . .						
ATOM 5655	CH2	CH2	. TRP TRP TRP B B 303 303 .	84.743	118.084	-11.494	1.00
4.27	1 . .						
ATOM 5656	CZ2	CZ2	. TRP TRP TRP B B 303 303 .	84.984	119.389	-11.259	1.00
2.30	1 . .						
ATOM 5657	C	C	. TRP TRP TRP B B 303 303 .	85.197	120.413	-18.343	1.00
2.96	1 . .						
ATOM 5658	O	O	. TRP TRP TRP B B 303 303 .	85.516	119.309	-18.742	1.00
3.47	1 . .						

ATOM 5659	N	N	. SER SER SER	B B	304 304	. 84.485	121.271	-19.059	1.00
2.00	1	. . .							
ATOM 5660	CA	CA	. SER SER SER	B B	304 304	. 83.897	120.903	-20.310	1.00
2.57	1	. . .							
ATOM 5661	CB	CB	. SER SER SER	B B	304 304	. 82.918	122.034	-20.768	1.00
2.53	1	. . .							
ATOM 5662	OG	OG	. SER SER SER	B B	304 304	. 81.785	122.069	-19.921	1.00
2.37	1	. . .							
ATOM 5663	C	C	. SER SER SER	B B	304 304	. 84.990	120.670	-21.356	1.00
3.01	1	. . .							
ATOM 5664	O	O	. SER SER SER	B B	304 304	. 84.858	119.715	-22.148	1.00
4.01	1	. . .							
ATOM 5665	N	N	. LYS LYS LYS	B B	305 305	. 86.045	121.489	-21.349	1.00
2.52	1	. . .							
ATOM 5666	CA	CA	. LYS LYS LYS	B B	305 305	. 87.192	121.315	-22.278	1.00
5.91	1	. . .							
ATOM 5667	CB	CB	. LYS LYS LYS	B B	305 305	. 88.153	122.514	-22.187	1.00
6.99	1	. . .							
ATOM 5668	CG	CG	. LYS LYS LYS	B B	305 305	. 89.297	122.584	-23.164	1.00
11.79	1	. . .							
ATOM 5669	CD	CD	. LYS LYS LYS	B B	305 305	. 89.985	123.962	-23.087	1.00
18.63	1	. . .							
ATOM 5670	CE	CE	. LYS LYS LYS	B B	305 305	. 90.841	124.292	-24.300	1.00
20.30	1	. . .							
ATOM 5671	NZ	NZ	. LYS LYS LYS	B B	305 305	. 91.692	125.442	-23.965	1.00
21.87	1	. . .							
ATOM 5672	C	C	. LYS LYS LYS	B B	305 305	. 87.937	119.991	-22.068	1.00
5.30	1	. . .							
ATOM 5673	O	O	. LYS LYS LYS	B B	305 305	. 88.193	119.234	-22.981	1.00
5.00	1	. . .							
ATOM 5674	N	N	. PHE PHE PHE	B B	306 306	. 88.233	119.755	-20.804	1.00
4.29	1	. . .							
ATOM 5675	CA	CA	. PHE PHE PHE	B B	306 306	. 89.006	118.573	-20.409	1.00
3.59	1	. . .							
ATOM 5676	CB	CB	. PHE PHE PHE	B B	306 306	. 89.333	118.604	-18.923	1.00
3.66	1	. . .							
ATOM 5677	CG	CG	. PHE PHE PHE	B B	306 306	. 90.264	117.483	-18.540	1.00
3.46	1	. . .							
ATOM 5678	CD1	CD1	. PHE PHE PHE	B B	306 306	. 91.565	117.387	-19.114	1.00
6.19	1	. . .							
ATOM 5679	CE1	CE1	. PHE PHE PHE	B B	306 306	. 92.441	116.303	-18.773	1.00
8.06	1	. . .							
ATOM 5680	CZ	CZ	. PHE PHE PHE	B B	306 306	. 92.000	115.365	-17.878	1.00
6.28	1	. . .							
ATOM 5681	CE2	CE2	. PHE PHE PHE	B B	306 306	. 90.711	115.454	-17.366	1.00
5.45	1	. . .							
ATOM 5682	CD2	CD2	. PHE PHE PHE	B B	306 306	. 89.858	116.534	-17.712	1.00
4.12	1	. . .							
ATOM 5683	C	C	. PHE PHE PHE	B B	306 306	. 88.241	117.309	-20.749	1.00
2.93	1	. . .							
ATOM 5684	O	O	. PHE PHE PHE	B B	306 306	. 88.759	116.396	-21.429	1.00
4.10	1	. . .							
ATOM 5685	N	N	. THR THR THR	B B	307 307	. 86.968	117.311	-20.442	1.00
2.29	1	. . .							

ATOM 5686	CA	CA	. THR THR THR B B 307 307 .	86.106	116.138	-20.564	1.00
3.00	1 . .						
ATOM 5687	CB	CB	. THR THR THR B B 307 307 .	84.705	116.391	-19.962	1.00
2.66	1 . .						
ATOM 5688	OG1	OG1	. THR THR THR B B 307 307 .	84.868	116.400	-18.556	1.00
2.16	1 . .						
ATOM 5689	CG2	CG2	. THR THR THR B B 307 307 .	83.787	115.239	-20.237	1.00
3.78	1 . .						
ATOM 5690	C	C	. THR THR THR B B 307 307 .	85.996	115.794	-22.023	1.00
3.87	1 . .						
ATOM 5691	O	O	. THR THR THR B B 307 307 .	86.021	114.616	-22.375	1.00
4.71	1 . .						
ATOM 5692	N	N	. ALA ALA ALA B B 308 308 .	85.929	116.828	-22.876	1.00
3.36	1 . .						
ATOM 5693	CA	CA	. ALA ALA ALA B B 308 308 .	85.775	116.569	-24.296	1.00
3.59	1 . .						
ATOM 5694	CB	CB	. ALA ALA ALA B B 308 308 .	85.377	117.879	-24.998	1.00
3.17	1 . .						
ATOM 5695	C	C	. ALA ALA ALA B B 308 308 .	87.006	116.037	-24.978	1.00
3.76	1 . .						
ATOM 5696	O	O	. ALA ALA ALA B B 308 308 .	86.867	115.557	-26.142	1.00
5.62	1 . .						
ATOM 5697	N	N	. ASN ASN ASN B B 309 309 .	88.151	116.159	-24.324	1.00
3.40	1 . .						
ATOM 5698	CA	CA	. ASN ASN ASN B B 309 309 .	89.504	115.769	-24.819	1.00
4.00	1 . .						
ATOM 5699	CB	CB	. ASN ASN ASN B B 309 309 .	90.438	116.987	-24.561	1.00
5.78	1 . .						
ATOM 5700	CG	CG	. ASN ASN ASN B B 309 309 .	90.230	118.083	-25.550	1.00
10.63	1 . .						
ATOM 5701	OD1	OD1	. ASN ASN ASN B B 309 309 .	89.617	117.890	-26.602	1.00
17.99	1 . .						
ATOM 5702	ND2	ND2	. ASN ASN ASN B B 309 309 .	90.688	119.303	-25.182	1.00
18.58	1 . .						
ATOM 5703	C	C	. ASN ASN ASN B B 309 309 .	90.106	114.492	-24.203	1.00
3.86	1 . .						
ATOM 5704	O	O	. ASN ASN ASN B B 309 309 .	91.310	114.230	-24.320	1.00
5.58	1 . .						
ATOM 5705	N	N	. VAL VAL VAL B B 310 310 .	89.284	113.723	-23.500	1.00
3.29	1 . .						
ATOM 5706	CA	CA	. VAL VAL VAL B B 310 310 .	89.706	112.494	-22.824	1.00
3.88	1 . .						
ATOM 5707	CB	CB	. VAL VAL VAL B B 310 310 .	90.018	112.762	-21.315	1.00
3.34	1 . .						
ATOM 5708	CG1	CG1	. VAL VAL VAL B B 310 310 .	91.147	113.739	-21.161	1.00
4.30	1 . .						
ATOM 5709	CG2	CG2	. VAL VAL VAL B B 310 310 .	88.753	113.072	-20.453	1.00
3.96	1 . .						
ATOM 5710	C	C	. VAL VAL VAL B B 310 310 .	88.655	111.428	-22.924	1.00
2.39	1 . .						
ATOM 5711	O	O	. VAL VAL VAL B B 310 310 .	87.432	111.711	-23.115	1.00
2.94	1 . .						
ATOM 5712	N	N	. GLY GLY GLY B B 311 311 .	89.071	110.207	-22.677	1.00
2.08	1 . .						





ATOM 5740	O	O	. ILE ILE ILE	B B	314 314	. 83.270	112.731	-14.382	1.00
2.61	1	. . .							
ATOM 5741	N	N	. VAL VAL VAL	B B	315 315	. 84.759	112.787	-12.705	1.00
2.22	1	. . .							
ATOM 5742	CA	CA	. VAL VAL VAL	B B	315 315	. 83.748	112.723	-11.662	1.00
2.12	1	. . .							
ATOM 5743	CB	CB	. VAL VAL VAL	B B	315 315	. 84.079	111.713	-10.528	1.00
2.48	1	. . .							
ATOM 5744	CG1	CG1	. VAL VAL VAL	B B	315 315	. 82.881	111.523	-9.590	1.00
3.06	1	. . .							
ATOM 5745	CG2	CG2	. VAL VAL VAL	B B	315 315	. 84.503	110.383	-11.103	1.00
2.00	1	. . .							
ATOM 5746	C	C	. VAL VAL VAL	B B	315 315	. 83.524	114.097	-11.039	1.00
2.45	1	. . .							
ATOM 5747	O	O	. VAL VAL VAL	B B	315 315	. 84.440	114.715	-10.614	1.00
2.65	1	. . .							
ATOM 5748	N	N	. GLY GLY GLY	B B	316 316	. 82.279	114.526	-11.051	1.00
2.07	1	. . .							
ATOM 5749	CA	CA	. GLY GLY GLY	B B	316 316	. 81.891	115.728	-10.375	1.00
2.00	1	. . .							
ATOM 5750	C	C	. GLY GLY GLY	B B	316 316	. 81.645	115.338	-8.895	1.00
2.25	1	. . .							
ATOM 5751	O	O	. GLY GLY GLY	B B	316 316	. 80.852	114.402	-8.569	1.00
2.69	1	. . .							
ATOM 5752	N	N	. ASP ASP ASP	B B	317 317	. 82.235	116.151	-8.054	1.00
2.21	1	. . .							
ATOM 5753	CA	CA	. ASP ASP ASP	B B	317 317	. 81.998	116.068	-6.603	1.00
2.76	1	. . .							
ATOM 5754	CB	CB	. ASP ASP ASP	B B	317 317	. 83.262	115.556	-5.907	1.00
2.34	1	. . .							
ATOM 5755	CG	CG	. ASP ASP ASP	B B	317 317	. 83.139	115.586	-4.371	1.00
3.49	1	. . .							
ATOM 5756	OD1	OD1	. ASP ASP ASP	B B	317 317	. 84.203	115.457	-3.645	1.00
2.26	1	. . .							
ATOM 5757	OD2	OD2	. ASP ASP ASP	B B	317 317	. 81.979	115.618	-3.909	1.00
2.01	1	. . .							
ATOM 5758	C	C	. ASP ASP ASP	B B	317 317	. 81.569	117.481	-6.071	1.00
2.00	1	. . .							
ATOM 5759	O	O	. ASP ASP ASP	B B	317 317	. 80.400	117.765	-5.873	1.00
3.29	1	. . .							
ATOM 5760	N	N	. ASP ASP ASP	B B	318 318	. 82.538	118.341	-5.784	1.00
2.04	1	. . .							
ATOM 5761	CA	CA	. ASP ASP ASP	B B	318 318	. 82.217	119.712	-5.453	1.00
2.46	1	. . .							
ATOM 5762	CB	CB	. ASP ASP ASP	B B	318 318	. 83.433	120.454	-4.933	1.00
2.68	1	. . .							
ATOM 5763	CG	CG	. ASP ASP ASP	B B	318 318	. 83.967	119.883	-3.633	1.00
3.05	1	. . .							
ATOM 5764	OD1	OD1	. ASP ASP ASP	B B	318 318	. 83.181	119.238	-2.848	1.00
4.97	1	. . .							
ATOM 5765	OD2	OD2	. ASP ASP ASP	B B	318 318	. 85.190	120.067	-3.445	1.00
3.36	1	. . .							
ATOM 5766	C	C	. ASP ASP ASP	B B	318 318	. 81.510	120.426	-6.593	1.00
2.53	1	. . .							

ATOM 5767	O	O	. ASP ASP ASP B B 318 318 . 80.695 121.350 -6.325 1.00
2.46	1 . .		
ATOM 5768	N	N	. LEU LEU LEU B B 319 319 . 81.776 120.010 -7.844 1.00
2.58	1 . .		
ATOM 5769	CA	CA	. LEU LEU LEU B B 319 319 . 80.992 120.622 -8.942 1.00
2.06	1 . .		
ATOM 5770	CB	CB	. LEU LEU LEU B B 319 319 . 81.450 119.956 -10.257 1.00
2.88	1 . .		
ATOM 5771	CG	CG	. LEU LEU LEU B B 319 319 . 80.833 120.541 -11.526 1.00
3.11	1 . .		
ATOM 5772	CD1	CD1	. LEU LEU LEU B B 319 319 . 81.391 121.948 -11.864 1.00
3.07	1 . .		
ATOM 5773	CD2	CD2	. LEU LEU LEU B B 319 319 . 81.169 119.605 -12.723 1.00
2.56	1 . .		
ATOM 5774	C	C	. LEU LEU LEU B B 319 319 . 79.507 120.444 -8.825 1.00
2.18	1 . .		
ATOM 5775	O	O	. LEU LEU LEU B B 319 319 . 78.718 121.354 -9.052 1.00
2.81	1 . .		
ATOM 5776	N	N	. THR THR THR B B 320 320 . 79.080 119.229 -8.415 1.00
2.00	1 . .		
ATOM 5777	CA	CA	. THR THR THR B B 320 320 . 77.689 118.744 -8.521 1.00
2.59	1 . .		
ATOM 5778	CB	CB	. THR THR THR B B 320 320 . 77.631 117.397 -9.240 1.00
2.44	1 . .		
ATOM 5779	OG1	OG1	. THR THR THR B B 320 320 . 78.738 116.598 -8.819 1.00
3.09	1 . .		
ATOM 5780	CG2	CG2	. THR THR THR B B 320 320 . 77.731 117.681 -10.801 1.00
4.95	1 . .		
ATOM 5781	C	C	. THR THR THR B B 320 320 . 76.932 118.688 -7.227 1.00
2.00	1 . .		
ATOM 5782	O	O	. THR THR THR B B 320 320 . 75.677 118.822 -7.238 1.00
2.59	1 . .		
ATOM 5783	N	N	. VAL VAL VAL B B 321 321 . 77.715 118.572 -6.129 1.00
3.33	1 . .		
ATOM 5784	CA	CA	. VAL VAL VAL B B 321 321 . 77.178 118.427 -4.723 1.00
2.92	1 . .		
ATOM 5785	CB	CB	. VAL VAL VAL B B 321 321 . 77.120 119.763 -3.991 1.00
2.62	1 . .		
ATOM 5786	CG1	CG1	. VAL VAL VAL B B 321 321 . 78.562 120.310 -3.865 1.00
2.62	1 . .		
ATOM 5787	CG2	CG2	. VAL VAL VAL B B 321 321 . 76.182 120.698 -4.782 1.00
5.51	1 . .		
ATOM 5788	C	C	. VAL VAL VAL B B 321 321 . 75.868 117.643 -4.615 1.00
2.38	1 . .		
ATOM 5789	O	O	. VAL VAL VAL B B 321 321 . 74.909 118.018 -3.931 1.00
4.27	1 . .		
ATOM 5790	N	N	. THR THR THR B B 322 322 . 75.805 116.515 -5.317 1.00
2.24	1 . .		
ATOM 5791	CA	CA	. THR THR THR B B 322 322 . 74.656 115.613 -5.304 1.00
2.43	1 . .		
ATOM 5792	CB	CB	. THR THR THR B B 322 322 . 74.702 114.763 -3.976 1.00
3.47	1 . .		
ATOM 5793	OG1	OG1	. THR THR THR B B 322 322 . 76.016 114.258 -3.920 1.00
2.81	1 . .		

ATOM 5794	CG2	CG2	. THR THR THR B B 322 322 .	73.779	113.577	-4.001	1.00
4.13	1 . .						
ATOM 5795	C	C	. THR THR THR B B 322 322 .	73.364	116.381	-5.480	1.00
2.95	1 . .						
ATOM 5796	O	O	. THR THR THR B B 322 322 .	72.330	116.097	-4.857	1.00
3.23	1 . .						
ATOM 5797	N	N	. ASN ASN ASN B B 323 323 .	73.409	117.422	-6.333	1.00
2.59	1 . .						
ATOM 5798	CA	CA	. ASN ASN ASN B B 323 323 .	72.264	118.340	-6.334	1.00
4.80	1 . .						
ATOM 5799	CB	CB	. ASN ASN ASN B B 323 323 .	72.774	119.720	-5.911	1.00
5.86	1 . .						
ATOM 5800	CG	CG	. ASN ASN ASN B B 323 323 .	71.717	120.714	-5.858	1.00
8.22	1 . .						
ATOM 5801	OD1	OD1	. ASN ASN ASN B B 323 323 .	70.747	120.635	-6.662	1.00
10.74	1 . .						
ATOM 5802	ND2	ND2	. ASN ASN ASN B B 323 323 .	71.841	121.669	-4.934	1.00
8.19	1 . .						
ATOM 5803	C	C	. ASN ASN ASN B B 323 323 .	71.682	118.425	-7.730	1.00
4.39	1 . .						
ATOM 5804	O	O	. ASN ASN ASN B B 323 323 .	72.389	118.803	-8.646	1.00
6.23	1 . .						
ATOM 5805	N	N	. PRO PRO PRO B B 324 324 .	70.465	117.980	-7.916	1.00
4.98	1 . .						
ATOM 5806	CA	CA	. PRO PRO PRO B B 324 324 .	69.837	117.965	-9.272	1.00
4.74	1 . .						
ATOM 5807	CB	CB	. PRO PRO PRO B B 324 324 .	68.389	117.621	-8.962	1.00
6.02	1 . .						
ATOM 5808	CG	CG	. PRO PRO PRO B B 324 324 .	68.499	116.731	-7.714	1.00
4.43	1 . .						
ATOM 5809	CD	CD	. PRO PRO PRO B B 324 324 .	69.615	117.317	-6.915	1.00
5.94	1 . .						
ATOM 5810	C	C	. PRO PRO PRO B B 324 324 .	69.948	119.281	-10.091	1.00
6.60	1 . .						
ATOM 5811	O	O	. PRO PRO PRO B B 324 324 .	70.160	119.232	-11.359	1.00
8.09	1 . .						
ATOM 5812	N	N	. LYS LYS LYS B B 325 325 .	69.819	120.424	-9.412	1.00
6.52	1 . .						
ATOM 5813	CA	CA	. LYS LYS LYS B B 325 325 .	70.026	121.709	-10.102	1.00
7.23	1 . .						
ATOM 5814	CB	CB	. LYS LYS LYS B B 325 325 .	69.735	122.884	-9.183	1.00
8.47	1 . .						
ATOM 5815	CG	CG	. LYS LYS LYS B B 325 325 .	68.345	122.756	-8.610	1.00
11.96	1 . .						
ATOM 5816	CD	CD	. LYS LYS LYS B B 325 325 .	67.996	123.851	-7.573	1.00
20.31	1 . .						
ATOM 5817	CE	CE	. LYS LYS LYS B B 325 325 .	66.510	123.712	-7.155	1.00
23.24	1 . .						
ATOM 5818	NZ	NZ	. LYS LYS LYS B B 325 325 .	65.868	125.018	-6.855	1.00
24.41	1 . .						
ATOM 5819	C	C	. LYS LYS LYS B B 325 325 .	71.402	121.863	-10.752	1.00
6.80	1 . .						
ATOM 5820	O	O	. LYS LYS LYS B B 325 325 .	71.492	122.304	-11.913	1.00
8.98	1 . .						

ATOM 5821	N	N	. ARG ARG ARG B B 326 326 .	72.456	121.485	-10.035	1.00
4.69	1 . .						
ATOM 5822	CA	CA	. ARG ARG ARG B B 326 326 .	73.820	121.609	-10.569	1.00
2.94	1 . .						
ATOM 5823	CB	CB	. ARG ARG ARG B B 326 326 .	74.888	121.504	-9.459	1.00
4.95	1 . .						
ATOM 5824	CG	CG	. ARG ARG ARG B B 326 326 .	74.633	122.398	-8.264	1.00
5.51	1 . .						
ATOM 5825	CD	CD	. ARG ARG ARG B B 326 326 .	75.454	123.623	-8.292	1.00
6.89	1 . .						
ATOM 5826	NE	NE	. ARG ARG ARG B B 326 326 .	76.879	123.431	-8.581	1.00
6.04	1 . .						
ATOM 5827	CZ	CZ	. ARG ARG ARG B B 326 326 .	77.661	124.450	-8.974	1.00
4.85	1 . .						
ATOM 5828	NH1	NH1	. ARG ARG ARG B B 326 326 .	77.184	125.703	-9.051	1.00
4.32	1 . .						
ATOM 5829	NH2	NH2	. ARG ARG ARG B B 326 326 .	78.919	124.227	-9.293	1.00
2.62	1 . .						
ATOM 5830	C	C	. ARG ARG ARG B B 326 326 .	74.125	120.499	-11.567	1.00
4.61	1 . .						
ATOM 5831	O	O	. ARG ARG ARG B B 326 326 .	74.887	120.691	-12.492	1.00
4.36	1 . .						
ATOM 5832	N	N	. ILE ILE ILE B B 327 327 .	73.667	119.297	-11.259	1.00
3.92	1 . .						
ATOM 5833	CA	CA	. ILE ILE ILE B B 327 327 .	73.758	118.216	-12.222	1.00
2.90	1 . .						
ATOM 5834	CB	CB	. ILE ILE ILE B B 327 327 .	73.160	116.926	-11.624	1.00
3.93	1 . .						
ATOM 5835	CG1	CG1	. ILE ILE ILE B B 327 327 .	73.995	116.515	-10.390	1.00
2.40	1 . .						
ATOM 5836	CD1	CD1	. ILE ILE ILE B B 327 327 .	73.224	115.527	-9.413	1.00
4.87	1 . .						
ATOM 5837	CG2	CG2	. ILE ILE ILE B B 327 327 .	72.988	115.813	-12.729	1.00
4.67	1 . .						
ATOM 5838	C	C	. ILE ILE ILE B B 327 327 .	73.146	118.548	-13.585	1.00
4.36	1 . .						
ATOM 5839	O	O	. ILE ILE ILE B B 327 327 .	73.783	118.210	-14.582	1.00
2.48	1 . .						
ATOM 5840	N	N	. GLU GLU GLU B B 328 328 .	71.956	119.124	-13.621	1.00
4.82	1 . .						
ATOM 5841	CA	CA	. GLU GLU GLU B B 328 328 .	71.365	119.631	-14.886	1.00
5.73	1 . .						
ATOM 5842	CB	CB	. GLU GLU GLU B B 328 328 .	70.060	120.362	-14.614	1.00
6.53	1 . .						
ATOM 5843	CG	CG	. GLU GLU GLU B B 328 328 .	68.888	119.404	-14.198	1.00
12.02	1 . .						
ATOM 5844	CD	CD	. GLU GLU GLU B B 328 328 .	68.235	118.659	-15.381	1.00
20.11	1 . .						
ATOM 5845	OE1	OE1	. GLU GLU GLU B B 328 328 .	68.747	118.800	-16.529	1.00
23.16	1 . .						
ATOM 5846	OE2	OE2	. GLU GLU GLU B B 328 328 .	67.204	117.949	-15.172	1.00
21.67	1 . .						
ATOM 5847	C	C	. GLU GLU GLU B B 328 328 .	72.300	120.500	-15.689	1.00
5.31	1 . .						



ATOM 5875	CG	CG	. GLU GLU GLU B B 332 332 .	72.506	122.678	-21.152	1.00
13.21	1 . .						
ATOM 5876	CD	CD	. GLU GLU GLU B B 332 332 .	73.479	123.349	-22.092	1.00
20.00	1 . .						
ATOM 5877	OE1	OE1	. GLU GLU GLU B B 332 332 .	74.529	123.888	-21.638	1.00
21.71	1 . .						
ATOM 5878	OE2	OE2	. GLU GLU GLU B B 332 332 .	73.147	123.382	-23.294	1.00
24.62	1 . .						
ATOM 5879	C	C	. GLU GLU GLU B B 332 332 .	75.278	120.969	-20.952	1.00
4.83	1 . .						
ATOM 5880	O	O	. GLU GLU GLU B B 332 332 .	75.506	120.952	-22.173	1.00
7.92	1 . .						
ATOM 5881	N	N	. GLU GLU GLU B B 333 333 .	76.237	121.339	-20.080	1.00
3.75	1 . .						
ATOM 5882	CA	CA	. GLU GLU GLU B B 333 333 .	77.549	121.765	-20.466	1.00
3.15	1 . .						
ATOM 5883	CB	CB	. GLU GLU GLU B B 333 333 .	78.104	122.739	-19.454	1.00
3.11	1 . .						
ATOM 5884	CG	CG	. GLU GLU GLU B B 333 333 .	77.111	123.926	-19.304	1.00
6.08	1 . .						
ATOM 5885	CD	CD	. GLU GLU GLU B B 333 333 .	77.665	125.099	-18.545	1.00
6.32	1 . .						
ATOM 5886	OE1	OE1	. GLU GLU GLU B B 333 333 .	76.780	125.831	-17.998	1.00
5.76	1 . .						
ATOM 5887	OE2	OE2	. GLU GLU GLU B B 333 333 .	78.942	125.289	-18.509	1.00
7.31	1 . .						
ATOM 5888	C	C	. GLU GLU GLU B B 333 333 .	78.539	120.615	-20.709	1.00
2.88	1 . .						
ATOM 5889	O	O	. GLU GLU GLU B B 333 333 .	79.701	120.835	-21.084	1.00
2.85	1 . .						
ATOM 5890	N	N	. LYS LYS LYS B B 334 334 .	78.074	119.375	-20.571	1.00
2.99	1 . .						
ATOM 5891	CA	CA	. LYS LYS LYS B B 334 334 .	78.996	118.227	-20.698	1.00
3.48	1 . .						
ATOM 5892	CB	CB	. LYS LYS LYS B B 334 334 .	79.303	117.966	-22.196	1.00
3.65	1 . .						
ATOM 5893	CG	CG	. LYS LYS LYS B B 334 334 .	77.977	117.612	-22.961	1.00
4.00	1 . .						
ATOM 5894	CD	CD	. LYS LYS LYS B B 334 334 .	78.325	116.934	-24.273	1.00
10.16	1 . .						
ATOM 5895	CE	CE	. LYS LYS LYS B B 334 334 .	77.171	117.068	-25.270	1.00
12.68	1 . .						
ATOM 5896	NZ	NZ	. LYS LYS LYS B B 334 334 .	76.003	116.512	-24.664	1.00
15.55	1 . .						
ATOM 5897	C	C	. LYS LYS LYS B B 334 334 .	80.278	118.421	-19.877	1.00
2.39	1 . .						
ATOM 5898	O	O	. LYS LYS LYS B B 334 334 .	81.414	118.217	-20.366	1.00
3.16	1 . .						
ATOM 5899	N	N	. ALA ALA ALA B B 335 335 .	80.094	118.902	-18.632	1.00
2.37	1 . .						
ATOM 5900	CA	CA	. ALA ALA ALA B B 335 335 .	81.235	119.202	-17.714	1.00
2.30	1 . .						
ATOM 5901	CB	CB	. ALA ALA ALA B B 335 335 .	80.709	119.969	-16.576	1.00
3.37	1 . .						

ATOM 5902	C	C	. ALA ALA ALA B B 335 335 .	81.943	117.937	-17.184	1.00
2.07	1	. . .					
ATOM 5903	O	O	. ALA ALA ALA B B 335 335 .	83.157	117.974	-16.944	1.00
2.00	1	. . .					
ATOM 5904	N	N	. CYS CYS CYS B B 336 336 .	81.176	116.824	-17.102	1.00
2.54	1	. . .					
ATOM 5905	CA	CA	. CYS CYS CYS B B 336 336 .	81.729	115.595	-16.461	1.00
2.68	1	. . .					
ATOM 5906	CB	CB	. CYS CYS CYS B B 336 336 .	81.759	115.708	-14.887	1.00
2.55	1	. . .					
ATOM 5907	SG	SG	. CYS CYS CYS B B 336 336 .	80.155	115.982	-14.167	1.00
2.97	1	. . .					
ATOM 5908	C	C	. CYS CYS CYS B B 336 336 .	80.889	114.427	-16.915	1.00
2.46	1	. . .					
ATOM 5909	O	O	. CYS CYS CYS B B 336 336 .	79.929	114.642	-17.630	1.00
3.70	1	. . .					
ATOM 5910	N	N	. ASN ASN ASN B B 337 337 .	81.213	113.181	-16.527	1.00
2.41	1	. . .					
ATOM 5911	CA	CA	. ASN ASN ASN B B 337 337 .	80.403	112.091	-17.009	1.00
3.17	1	. . .					
ATOM 5912	CB	CB	. ASN ASN ASN B B 337 337 .	81.073	111.394	-18.236	1.00
2.96	1	. . .					
ATOM 5913	CG	CG	. ASN ASN ASN B B 337 337 .	82.545	110.952	-17.939	1.00
2.44	1	. . .					
ATOM 5914	OD1	OD1	. ASN ASN ASN B B 337 337 .	82.902	110.510	-16.830	1.00
2.99	1	. . .					
ATOM 5915	ND2	ND2	. ASN ASN ASN B B 337 337 .	83.403	111.044	-18.916	1.00
3.43	1	. . .					
ATOM 5916	C	C	. ASN ASN ASN B B 337 337 .	80.131	111.079	-15.879	1.00
2.14	1	. . .					
ATOM 5917	O	O	. ASN ASN ASN B B 337 337 .	79.749	109.953	-16.104	1.00
3.37	1	. . .					
ATOM 5918	N	N	. CYS CYS CYS B B 338 338 .	80.414	111.506	-14.666	1.00
2.50	1	. . .					
ATOM 5919	CA	CA	. CYS CYS CYS B B 338 338 .	80.139	110.650	-13.482	1.00
2.10	1	. . .					
ATOM 5920	CB	CB	. CYS CYS CYS B B 338 338 .	81.364	109.777	-13.182	1.00
2.18	1	. . .					
ATOM 5921	SG	SG	. CYS CYS CYS B B 338 338 .	81.078	108.589	-11.774	1.00
3.53	1	. . .					
ATOM 5922	C	C	. CYS CYS CYS B B 338 338 .	79.836	111.559	-12.323	1.00
2.60	1	. . .					
ATOM 5923	O	O	. CYS CYS CYS B B 338 338 .	80.439	112.618	-12.198	1.00
2.00	1	. . .					
ATOM 5924	N	N	. LEU LEU LEU B B 339 339 .	78.836	111.132	-11.572	1.00
2.26	1	. . .					
ATOM 5925	CA	CA	. LEU LEU LEU B B 339 339 .	78.432	111.882	-10.339	1.00
2.45	1	. . .					
ATOM 5926	CB	CB	. LEU LEU LEU B B 339 339 .	76.916	111.900	-10.238	1.00
2.85	1	. . .					
ATOM 5927	CG	CG	. LEU LEU LEU B B 339 339 .	76.265	112.436	-8.961	1.00
2.17	1	. . .					
ATOM 5928	CD1	CD1	. LEU LEU LEU B B 339 339 .	76.572	113.933	-8.936	1.00
4.97	1	. . .					



ATOM 5929	CD2	CD2	. LEU LEU LEU B B	339 339	. 74.817	112.181	-8.949	1.00
2.64	1 . .							
ATOM 5930	C	C	. LEU LEU LEU B B	339 339	. 79.037	111.200	-9.103	1.00
2.00	1 . .							
ATOM 5931	O	O	. LEU LEU LEU B B	339 339	. 78.820	109.986	-8.933	1.00
3.14	1 . .							
ATOM 5932	N	N	. LEU LEU LEU B B	340 340	. 79.655	111.955	-8.220	1.00
3.18	1 . .							
ATOM 5933	CA	CA	. LEU LEU LEU B B	340 340	. 79.914	111.413	-6.861	1.00
2.55	1 . .							
ATOM 5934	CB	CB	. LEU LEU LEU B B	340 340	. 81.140	112.099	-6.263	1.00
2.52	1 . .							
ATOM 5935	CG	CG	. LEU LEU LEU B B	340 340	. 81.638	111.254	-5.148	1.00
3.13	1 . .							
ATOM 5936	CD1	CD1	. LEU LEU LEU B B	340 340	. 82.371	110.102	-5.769	1.00
4.23	1 . .							
ATOM 5937	CD2	CD2	. LEU LEU LEU B B	340 340	. 82.621	112.059	-4.193	1.00
2.37	1 . .							
ATOM 5938	C	C	. LEU LEU LEU B B	340 340	. 78.675	111.567	-5.974	1.00
2.69	1 . .							
ATOM 5939	O	O	. LEU LEU LEU B B	340 340	. 78.147	112.717	-5.779	1.00
3.64	1 . .							
ATOM 5940	N	N	. LEU LEU LEU B B	341 341	. 78.160	110.480	-5.388	1.00
2.62	1 . .							
ATOM 5941	CA	CA	. LEU LEU LEU B B	341 341	. 76.872	110.534	-4.741	1.00
2.00	1 . .							
ATOM 5942	CB	CB	. LEU LEU LEU B B	341 341	. 75.944	109.338	-5.118	1.00
2.32	1 . .							
ATOM 5943	CG	CG	. LEU LEU LEU B B	341 341	. 74.471	109.591	-4.810	1.00
2.29	1 . .							
ATOM 5944	CD1	CD1	. LEU LEU LEU B B	341 341	. 73.737	110.427	-5.866	1.00
6.38	1 . .							
ATOM 5945	CD2	CD2	. LEU LEU LEU B B	341 341	. 73.743	108.271	-4.712	1.00
7.47	1 . .							
ATOM 5946	C	C	. LEU LEU LEU B B	341 341	. 77.111	110.611	-3.173	1.00
2.40	1 . .							
ATOM 5947	O	O	. LEU LEU LEU B B	341 341	. 77.486	109.587	-2.566	1.00
2.87	1 . .							
ATOM 5948	N	N	. LYS LYS LYS B B	342 342	. 76.827	111.787	-2.588	1.00
3.75	1 . .							
ATOM 5949	CA	CA	. LYS LYS LYS B B	342 342	. 77.066	112.016	-1.164	1.00
3.58	1 . .							
ATOM 5950	CB	CB	. LYS LYS LYS B B	342 342	. 78.095	113.083	-0.883	1.00
2.73	1 . .							
ATOM 5951	CG	CG	. LYS LYS LYS B B	342 342	. 79.541	112.598	-1.110	1.00
5.08	1 . .							
ATOM 5952	CD	CD	. LYS LYS LYS B B	342 342	. 80.449	113.741	-1.102	1.00
2.90	1 . .							
ATOM 5953	CE	CE	. LYS LYS LYS B B	342 342	. 81.888	113.353	-0.881	1.00
4.21	1 . .							
ATOM 5954	NZ	NZ	. LYS LYS LYS B B	342 342	. 82.862	114.378	-1.245	1.00
5.92	1 . .							
ATOM 5955	C	C	. LYS LYS LYS B B	342 342	. 75.744	112.411	-0.615	1.00
2.55	1 . .							





ATOM 6010	CG2	CG2	. THR THR THR B B 350 350 .	62.681	112.236	-2.327	1.00
8.39	1 . .						
ATOM 6011	C	C	. THR THR THR B B 350 350 .	65.650	111.860	-2.680	1.00
5.10	1 . .						
ATOM 6012	O	O	. THR THR THR B B 350 350 .	65.621	111.544	-3.884	1.00
5.33	1 . .						
ATOM 6013	N	N	. GLU GLU GLU B B 351 351 .	66.320	112.918	-2.236	1.00
5.10	1 . .						
ATOM 6014	CA	CA	. GLU GLU GLU B B 351 351 .	66.989	113.781	-3.200	1.00
3.70	1 . .						
ATOM 6015	CB	CB	. GLU GLU GLU B B 351 351 .	67.306	115.117	-2.574	1.00
5.77	1 . .						
ATOM 6016	CG	CG	. GLU GLU GLU B B 351 351 .	66.022	115.954	-2.241	1.00
4.81	1 . .						
ATOM 6017	CD	CD	. GLU GLU GLU B B 351 351 .	66.483	117.131	-1.411	1.00
7.53	1 . .						
ATOM 6018	OE1	OE1	. GLU GLU GLU B B 351 351 .	66.872	116.948	-0.239	1.00
8.59	1 . .						
ATOM 6019	OE2	OE2	. GLU GLU GLU B B 351 351 .	66.566	118.245	-1.918	1.00
13.87	1 . .						
ATOM 6020	C	C	. GLU GLU GLU B B 351 351 .	68.250	113.087	-3.719	1.00
4.36	1 . .						
ATOM 6021	O	O	. GLU GLU GLU B B 351 351 .	68.687	113.370	-4.832	1.00
4.59	1 . .						
ATOM 6022	N	N	. ALA ALA ALA B B 352 352 .	68.887	112.265	-2.897	1.00
2.94	1 . .						
ATOM 6023	CA	CA	. ALA ALA ALA B B 352 352 .	70.086	111.641	-3.417	1.00
4.15	1 . .						
ATOM 6024	CB	CB	. ALA ALA ALA B B 352 352 .	70.917	111.022	-2.294	1.00
4.79	1 . .						
ATOM 6025	C	C	. ALA ALA ALA B B 352 352 .	69.693	110.615	-4.442	1.00
3.78	1 . .						
ATOM 6026	O	O	. ALA ALA ALA B B 352 352 .	70.415	110.380	-5.441	1.00
5.69	1 . .						
ATOM 6027	N	N	. ILE ILE ILE B B 353 353 .	68.594	109.925	-4.186	1.00
4.28	1 . .						
ATOM 6028	CA	CA	. ILE ILE ILE B B 353 353 .	68.129	109.000	-5.187	1.00
5.40	1 . .						
ATOM 6029	CB	CB	. ILE ILE ILE B B 353 353 .	66.962	108.126	-4.663	1.00
5.22	1 . .						
ATOM 6030	CG1	CG1	. ILE ILE ILE B B 353 353 .	67.469	107.276	-3.502	1.00
5.90	1 . .						
ATOM 6031	CD1	CD1	. ILE ILE ILE B B 353 353 .	66.287	106.421	-2.839	1.00
7.21	1 . .						
ATOM 6032	CG2	CG2	. ILE ILE ILE B B 353 353 .	66.395	107.261	-5.816	1.00
6.79	1 . .						
ATOM 6033	C	C	. ILE ILE ILE B B 353 353 .	67.742	109.682	-6.515	1.00
5.00	1 . .						
ATOM 6034	O	O	. ILE ILE ILE B B 353 353 .	68.105	109.187	-7.596	1.00
7.12	1 . .						
ATOM 6035	N	N	. GLN GLN GLN B B 354 354 .	67.020	110.798	-6.392	1.00
5.04	1 . .						
ATOM 6036	CA	CA	. GLN GLN GLN B B 354 354 .	66.723	111.661	-7.566	1.00
6.45	1 . .						

ATOM 6037	CB	CB	. GLN GLN GLN B B 354 354 .	65.850	112.864	-7.161	1.00
7.56	1	. .					
ATOM 6038	CG	CG	. GLN GLN GLN B B 354 354 .	65.937	114.068	-8.098	1.00
12.72	1	. .					
ATOM 6039	CD	CD	. GLN GLN GLN B B 354 354 .	65.124	115.271	-7.612	1.00
20.02	1	. .					
ATOM 6040	OE1	OE1	. GLN GLN GLN B B 354 354 .	64.852	115.426	-6.393	1.00
22.61	1	. .					
ATOM 6041	NE2	NE2	. GLN GLN GLN B B 354 354 .	64.721	116.136	-8.563	1.00
22.87	1	. .					
ATOM 6042	C	C	. GLN GLN GLN B B 354 354 .	67.959	112.090	-8.293	1.00
6.81	1	. .					
ATOM 6043	O	O	. GLN GLN GLN B B 354 354 .	67.984	112.107	-9.557	1.00
7.76	1	. .					
ATOM 6044	N	N	. ALA ALA ALA B B 355 355 .	68.994	112.492	-7.552	1.00
5.35	1	. .					
ATOM 6045	CA	CA	. ALA ALA ALA B B 355 355 .	70.241	112.895	-8.228	1.00
4.28	1	. .					
ATOM 6046	CB	CB	. ALA ALA ALA B B 355 355 .	71.240	113.464	-7.236	1.00
4.33	1	. .					
ATOM 6047	C	C	. ALA ALA ALA B B 355 355 .	70.859	111.716	-8.986	1.00
4.36	1	. .					
ATOM 6048	O	O	. ALA ALA ALA B B 355 355 .	71.370	111.856	-10.066	1.00
5.43	1	. .					
ATOM 6049	N	N	. CYS CYS CYS B B 356 356 .	70.818	110.536	-8.351	1.00
4.51	1	. .					
ATOM 6050	CA	CA	. CYS CYS CYS B B 356 356 .	71.452	109.339	-9.003	1.00
3.53	1	. .					
ATOM 6051	CB	CB	. CYS CYS CYS B B 356 356 .	71.388	108.149	-8.068	1.00
3.39	1	. .					
ATOM 6052	SG	SG	. CYS CYS CYS B B 356 356 .	72.134	106.612	-8.709	1.00
5.38	1	. .					
ATOM 6053	C	C	. CYS CYS CYS B B 356 356 .	70.766	108.996	-10.303	1.00
4.78	1	. .					
ATOM 6054	O	O	. CYS CYS CYS B B 356 356 .	71.397	108.760	-11.332	1.00
5.61	1	. .					
ATOM 6055	N	N	. LYS LYS LYS B B 357 357 .	69.458	109.025	-10.243	1.00
4.35	1	. .					
ATOM 6056	CA	CA	. LYS LYS LYS B B 357 357 .	68.634	108.744	-11.394	1.00
6.10	1	. .					
ATOM 6057	CB	CB	. LYS LYS LYS B B 357 357 .	67.186	108.625	-10.975	1.00
6.96	1	. .					
ATOM 6058	CG	CG	. LYS LYS LYS B B 357 357 .	66.911	107.272	-10.234	1.00
10.79	1	. .					
ATOM 6059	CD	CD	. LYS LYS LYS B B 357 357 .	65.484	107.169	-9.693	1.00
17.40	1	. .					
ATOM 6060	CE	CE	. LYS LYS LYS B B 357 357 .	64.460	106.993	-10.842	1.00
19.22	1	. .					
ATOM 6061	NZ	NZ	. LYS LYS LYS B B 357 357 .	64.448	105.583	-11.299	1.00
24.17	1	. .					
ATOM 6062	C	C	. LYS LYS LYS B B 357 357 .	68.794	109.703	-12.540	1.00
6.44	1	. .					
ATOM 6063	O	O	. LYS LYS LYS B B 357 357 .	68.910	109.297	-13.711	1.00
6.99	1	. .					

ATOM 6064	N	N	. LEU LEU LEU B B 358 358 .	68.861	110.993	-12.191	1.00
5.88	1 . .						
ATOM 6065	CA	CA	. LEU LEU LEU B B 358 358 .	69.173	112.004	-13.192	1.00
5.71	1 . .						
ATOM 6066	CB	CB	. LEU LEU LEU B B 358 358 .	69.202	113.372	-12.490	1.00
6.37	1 . .						
ATOM 6067	CG	CG	. LEU LEU LEU B B 358 358 .	69.357	114.564	-13.430	1.00
7.54	1 . .						
ATOM 6068	CD1	CD1	. LEU LEU LEU B B 358 358 .	68.129	114.592	-14.433	1.00
6.55	1 . .						
ATOM 6069	CD2	CD2	. LEU LEU LEU B B 358 358 .	69.326	115.894	-12.665	1.00
5.25	1 . .						
ATOM 6070	C	C	. LEU LEU LEU B B 358 358 .	70.487	111.746	-13.889	1.00
5.74	1 . .						
ATOM 6071	O	O	. LEU LEU LEU B B 358 358 .	70.584	111.916	-15.166	1.00
6.64	1 . .						
ATOM 6072	N	N	. ALA ALA ALA B B 359 359 .	71.531	111.485	-13.099	1.00
5.05	1 . .						
ATOM 6073	CA	CA	. ALA ALA ALA B B 359 359 .	72.837	111.224	-13.728	1.00
4.28	1 . .						
ATOM 6074	CB	CB	. ALA ALA ALA B B 359 359 .	73.917	110.894	-12.736	1.00
5.41	1 . .						
ATOM 6075	C	C	. ALA ALA ALA B B 359 359 .	72.693	110.044	-14.698	1.00
4.33	1 . .						
ATOM 6076	O	O	. ALA ALA ALA B B 359 359 .	73.095	110.097	-15.850	1.00
5.42	1 . .						
ATOM 6077	N	N	. GLN GLN GLN B B 360 360 .	72.139	108.958	-14.189	1.00
3.57	1 . .						
ATOM 6078	CA	CA	. GLN GLN GLN B B 360 360 .	72.054	107.665	-14.948	1.00
5.78	1 . .						
ATOM 6079	CB	CB	. GLN GLN GLN B B 360 360 .	71.463	106.595	-14.028	1.00
5.08	1 . .						
ATOM 6080	CG	CG	. GLN GLN GLN B B 360 360 .	72.476	106.129	-12.911	1.00
4.06	1 . .						
ATOM 6081	CD	CD	. GLN GLN GLN B B 360 360 .	71.883	105.060	-12.019	1.00
8.25	1 . .						
ATOM 6082	OE1	OE1	. GLN GLN GLN B B 360 360 .	70.661	105.062	-11.710	1.00
9.48	1 . .						
ATOM 6083	NE2	NE2	. GLN GLN GLN B B 360 360 .	72.777	104.179	-11.494	1.00
9.90	1 . .						
ATOM 6084	C	C	. GLN GLN GLN B B 360 360 .	71.205	107.836	-16.189	1.00
6.02	1 . .						
ATOM 6085	O	O	. GLN GLN GLN B B 360 360 .	71.552	107.287	-17.224	1.00
5.07	1 . .						
ATOM 6086	N	N	. GLU GLU GLU B B 361 361 .	70.078	108.551	-16.084	1.00
7.79	1 . .						
ATOM 6087	CA	CA	. GLU GLU GLU B B 361 361 .	69.194	108.877	-17.263	1.00
9.42	1 . .						
ATOM 6088	CB	CB	. GLU GLU GLU B B 361 361 .	68.132	109.867	-16.834	1.00
10.25	1 . .						
ATOM 6089	CG	CG	. GLU GLU GLU B B 361 361 .	66.818	109.349	-16.331	1.00
17.20	1 . .						
ATOM 6090	CD	CD	. GLU GLU GLU B B 361 361 .	65.791	110.504	-16.216	1.00
25.94	1 . .						

ATOM 6091	OE1	OE1	. GLU GLU GLU B B 361 361 .	66.179	111.603	-15.699	1.00
28.56	1 . .						
ATOM 6092	OE2	OE2	. GLU GLU GLU B B 361 361 .	64.605	110.327	-16.654	1.00
27.69	1 . .						
ATOM 6093	C	C	. GLU GLU GLU B B 361 361 .	69.976	109.554	-18.362	1.00
7.78	1 . .						
ATOM 6094	O	O	. GLU GLU GLU B B 361 361 .	69.644	109.401	-19.555	1.00
9.57	1 . .						
ATOM 6095	N	N	. ASN ASN ASN B B 362 362 .	71.012	110.299	-17.957	1.00
5.91	1 . .						
ATOM 6096	CA	CA	. ASN ASN ASN B B 362 362 .	71.826	111.072	-18.860	1.00
5.63	1 . .						
ATOM 6097	CB	CB	. ASN ASN ASN B B 362 362 .	72.044	112.444	-18.286	1.00
5.71	1 . .						
ATOM 6098	CG	CG	. ASN ASN ASN B B 362 362 .	70.843	113.326	-18.519	1.00
5.96	1 . .						
ATOM 6099	OD1	OD1	. ASN ASN ASN B B 362 362 .	70.603	113.749	-19.680	1.00
8.57	1 . .						
ATOM 6100	ND2	ND2	. ASN ASN ASN B B 362 362 .	70.046	113.553	-17.479	1.00
8.09	1 . .						
ATOM 6101	C	C	. ASN ASN ASN B B 362 362 .	73.112	110.423	-19.312	1.00
4.17	1 . .						
ATOM 6102	O	O	. ASN ASN ASN B B 362 362 .	74.018	111.076	-19.867	1.00
7.81	1 . .						
ATOM 6103	N	N	. GLY GLY GLY B B 363 363 .	73.248	109.147	-18.977	1.00
5.08	1 . .						
ATOM 6104	CA	CA	. GLY GLY GLY B B 363 363 .	74.366	108.387	-19.458	1.00
4.73	1 . .						
ATOM 6105	C	C	. GLY GLY GLY B B 363 363 .	75.600	108.529	-18.615	1.00
5.03	1 . .						
ATOM 6106	O	O	. GLY GLY GLY B B 363 363 .	76.641	108.105	-19.046	1.00
7.18	1 . .						
ATOM 6107	N	N	. TRP TRP TRP B B 364 364 .	75.476	109.087	-17.412	1.00
3.27	1 . .						
ATOM 6108	CA	CA	. TRP TRP TRP B B 364 364 .	76.600	109.161	-16.496	1.00
3.42	1 . .						
ATOM 6109	CB	CB	. TRP TRP TRP B B 364 364 .	76.409	110.343	-15.505	1.00
3.01	1 . .						
ATOM 6110	CG	CG	. TRP TRP TRP B B 364 364 .	76.526	111.772	-16.050	1.00
4.86	1 . .						
ATOM 6111	CD1	CD1	. TRP TRP TRP B B 364 364 .	76.410	112.246	-17.375	1.00
3.69	1 . .						
ATOM 6112	NE1	NE1	. TRP TRP TRP B B 364 364 .	76.501	113.628	-17.392	1.00
4.39	1 . .						
ATOM 6113	CE2	CE2	. TRP TRP TRP B B 364 364 .	76.676	114.067	-16.101	1.00
4.77	1 . .						
ATOM 6114	CD2	CD2	. TRP TRP TRP B B 364 364 .	76.657	112.937	-15.247	1.00
5.85	1 . .						
ATOM 6115	CE3	CE3	. TRP TRP TRP B B 364 364 .	76.754	113.131	-13.855	1.00
3.76	1 . .						
ATOM 6116	CZ3	CZ3	. TRP TRP TRP B B 364 364 .	76.957	114.370	-13.392	1.00
6.42	1 . .						
ATOM 6117	CH2	CH2	. TRP TRP TRP B B 364 364 .	76.921	115.495	-14.239	1.00
4.25	1 . .						

ATOM 6118	CZ2	CZ2	. TRP TRP TRP B B 364 364 .	76.810	115.378	-15.601	1.00
4.32	1 . .						
ATOM 6119	C	C	. TRP TRP TRP B B 364 364 .	76.834	107.922	-15.636	1.00
2.87	1 . .						
ATOM 6120	O	O	. TRP TRP TRP B B 364 364 .	75.922	107.182	-15.410	1.00
4.91	1 . .						
ATOM 6121	N	N	. GLY GLY GLY B B 365 365 .	78.091	107.717	-15.256	1.00
3.65	1 . .						
ATOM 6122	CA	CA	. GLY GLY GLY B B 365 365 .	78.389	106.818	-14.127	1.00
4.02	1 . .						
ATOM 6123	C	C	. GLY GLY GLY B B 365 365 .	77.940	107.480	-12.803	1.00
3.78	1 . .						
ATOM 6124	O	O	. GLY GLY GLY B B 365 365 .	77.649	108.697	-12.744	1.00
4.31	1 . .						
ATOM 6125	N	N	. VAL VAL VAL B B 366 366 .	77.883	106.678	-11.742	1.00
4.00	1 . .						
ATOM 6126	CA	CA	. VAL VAL VAL B B 366 366 .	77.694	107.272	-10.394	1.00
2.96	1 . .						
ATOM 6127	CB	CB	. VAL VAL VAL B B 366 366 .	76.226	107.185	-9.951	1.00
3.91	1 . .						
ATOM 6128	CG1	CG1	. VAL VAL VAL B B 366 366 .	76.040	107.687	-8.495	1.00
4.10	1 . .						
ATOM 6129	CG2	CG2	. VAL VAL VAL B B 366 366 .	75.301	107.888	-10.858	1.00
4.28	1 . .						
ATOM 6130	C	C	. VAL VAL VAL B B 366 366 .	78.580	106.450	-9.443	1.00
2.34	1 . .						
ATOM 6131	O	O	. VAL VAL VAL B B 366 366 .	78.560	105.219	-9.416	1.00
2.60	1 . .						
ATOM 6132	N	N	. MET MET MET B B 367 367 .	79.362	107.170	-8.681	1.00
2.81	1 . .						
ATOM 6133	CA	CA	. MET MET MET B B 367 367 .	80.194	106.545	-7.641	1.00
2.54	1 . .						
ATOM 6134	CB	CB	. MET MET MET B B 367 367 .	81.632	106.913	-7.866	1.00
2.37	1 . .						
ATOM 6135	CG	CG	. MET MET MET B B 367 367 .	82.581	106.379	-6.788	1.00
2.41	1 . .						
ATOM 6136	SD	SD	. MET MET MET B B 367 367 .	84.284	106.822	-6.786	1.00
4.17	1 . .						
ATOM 6137	CE	CE	. MET MET MET B B 367 367 .	85.053	105.811	-8.100	1.00
4.84	1 . .						
ATOM 6138	C	C	. MET MET MET B B 367 367 .	79.663	107.030	-6.295	1.00
2.33	1 . .						
ATOM 6139	O	O	. MET MET MET B B 367 367 .	79.781	108.213	-5.971	1.00
2.05	1 . .						
ATOM 6140	N	N	. VAL VAL VAL B B 368 368 .	79.111	106.095	-5.495	1.00
2.65	1 . .						
ATOM 6141	CA	CA	. VAL VAL VAL B B 368 368 .	78.693	106.374	-4.130	1.00
2.15	1 . .						
ATOM 6142	CB	CB	. VAL VAL VAL B B 368 368 .	77.839	105.207	-3.603	1.00
3.26	1 . .						
ATOM 6143	CG1	CG1	. VAL VAL VAL B B 368 368 .	77.473	105.427	-2.111	1.00
2.60	1 . .						
ATOM 6144	CG2	CG2	. VAL VAL VAL B B 368 368 .	76.580	105.096	-4.434	1.00
3.34	1 . .						



ATOM 6145	C	C	. VAL VAL VAL B B 368 368 .	79.911	106.681	-3.275	1.00
2.54	1 . .						
ATOM 6146	O	O	. VAL VAL VAL B B 368 368 .	80.987	106.087	-3.452	1.00
2.66	1 . .						
ATOM 6147	N	N	. SER SER SER B B 369 369 .	79.742	107.625	-2.327	1.00
2.51	1 . .						
ATOM 6148	CA	CA	. SER SER SER B B 369 369 .	80.912	108.031	-1.556	1.00
2.09	1 . .						
ATOM 6149	CB	CB	. SER SER SER B B 369 369 .	81.487	109.370	-2.098	1.00
2.00	1 . .						
ATOM 6150	OG	OG	. SER SER SER B B 369 369 .	82.691	109.726	-1.456	1.00
2.21	1 . .						
ATOM 6151	C	C	. SER SER SER B B 369 369 .	80.606	108.245	-0.042	1.00
2.75	1 . .						
ATOM 6152	O	O	. SER SER SER B B 369 369 .	79.529	108.702	0.331	1.00
2.19	1 . .						
ATOM 6153	N	N	. HIS HIS HIS B B 370 370 .	81.615	107.937	0.740	1.00
2.30	1 . .						
ATOM 6154	CA	CA	. HIS HIS HIS B B 370 370 .	81.691	108.332	2.159	1.00
2.00	1 . .						
ATOM 6155	CB	CB	. HIS HIS HIS B B 370 370 .	82.791	107.523	2.856	1.00
2.34	1 . .						
ATOM 6156	CG	CG	. HIS HIS HIS B B 370 370 .	84.186	107.733	2.283	1.00
2.46	1 . .						
ATOM 6157	ND1	ND1	. HIS HIS HIS B B 370 370 .	85.312	107.341	2.970	1.00
3.10	1 . .						
ATOM 6158	CE1	CE1	. HIS HIS HIS B B 370 370 .	86.387	107.579	2.240	1.00
2.33	1 . .						
ATOM 6159	NE2	NE2	. HIS HIS HIS B B 370 370 .	86.013	108.170	1.123	1.00
3.42	1 . .						
ATOM 6160	CD2	CD2	. HIS HIS HIS B B 370 370 .	84.635	108.203	1.089	1.00
4.36	1 . .						
ATOM 6161	C	C	. HIS HIS HIS B B 370 370 .	82.032	109.840	2.221	1.00
2.82	1 . .						
ATOM 6162	O	O	. HIS HIS HIS B B 370 370 .	82.216	110.531	1.167	1.00
2.03	1 . .						
ATOM 6163	N	N	. ARG ARG ARG B B 371 371 .	82.180	110.323	3.437	1.00
2.94	1 . .						
ATOM 6164	CA	CA	. ARG ARG ARG B B 371 371 .	82.922	111.556	3.729	1.00
2.97	1 . .						
ATOM 6165	CB	CB	. ARG ARG ARG B B 371 371 .	82.051	112.618	4.489	1.00
2.46	1 . .						
ATOM 6166	CG	CG	. ARG ARG ARG B B 371 371 .	80.723	113.031	3.945	1.00
2.51	1 . .						
ATOM 6167	CD	CD	. ARG ARG ARG B B 371 371 .	80.841	113.486	2.528	1.00
3.02	1 . .						
ATOM 6168	NE	NE	. ARG ARG ARG B B 371 371 .	81.813	114.584	2.276	1.00
2.19	1 . .						
ATOM 6169	CZ	CZ	. ARG ARG ARG B B 371 371 .	81.424	115.820	1.974	1.00
2.11	1 . .						
ATOM 6170	NH1	NH1	. ARG ARG ARG B B 371 371 .	80.094	116.103	1.998	1.00
2.91	1 . .						
ATOM 6171	NH2	NH2	. ARG ARG ARG B B 371 371 .	82.367	116.727	1.662	1.00
3.45	1 . .						

ATOM 6172	C	C	. ARG ARG ARG B B 371 371 . 84.179 111.270 4.486 1.00
2.99	1 . .		
ATOM 6173	O	O	. ARG ARG ARG B B 371 371 . 84.304 110.140 5.042 1.00
2.94	1 . .		
ATOM 6174	N	N	. SER SER SER B B 372 372 . 85.148 112.177 4.476 1.00
2.69	1 . .		
ATOM 6175	CA	CA	. SER SER SER B B 372 372 . 86.363 111.931 5.196 1.00
2.52	1 . .		
ATOM 6176	CB	CB	. SER SER SER B B 372 372 . 87.409 112.989 4.915 1.00
2.91	1 . .		
ATOM 6177	OG	OG	. SER SER SER B B 372 372 . 86.954 114.296 5.224 1.00
2.07	1 . .		
ATOM 6178	C	C	. SER SER SER B B 372 372 . 86.143 111.794 6.705 1.00
2.74	1 . .		
ATOM 6179	O	O	. SER SER SER B B 372 372 . 86.961 111.160 7.378 1.00
2.94	1 . .		
ATOM 6180	N	N	. GLY GLY GLY B B 373 373 . 85.042 112.326 7.208 1.00
2.45	1 . .		
ATOM 6181	CA	CA	. GLY GLY GLY B B 373 373 . 84.673 112.120 8.605 1.00
2.58	1 . .		
ATOM 6182	C	C	. GLY GLY GLY B B 373 373 . 83.521 111.164 8.533 1.00
2.00	1 . .		
ATOM 6183	O	O	. GLY GLY GLY B B 373 373 . 82.417 111.483 8.076 1.00
2.32	1 . .		
ATOM 6184	N	N	. GLU GLU GLU B B 374 374 . 83.771 109.938 8.957 1.00
2.22	1 . .		
ATOM 6185	CA	CA	. GLU GLU GLU B B 374 374 . 82.686 108.933 8.853 1.00
2.47	1 . .		
ATOM 6186	CB	CB	. GLU GLU GLU B B 374 374 . 83.141 107.716 7.988 1.00
2.35	1 . .		
ATOM 6187	CG	CG	. GLU GLU GLU B B 374 374 . 82.622 107.895 6.537 1.00
2.11	1 . .		
ATOM 6188	CD	CD	. GLU GLU GLU B B 374 374 . 81.129 107.818 6.398 1.00
2.66	1 . .		
ATOM 6189	OE1	OE1	. GLU GLU GLU B B 374 374 . 80.409 107.229 7.246 1.00
2.89	1 . .		
ATOM 6190	OE2	OE2	. GLU GLU GLU B B 374 374 . 80.644 108.327 5.318 1.00
2.50	1 . .		
ATOM 6191	C	C	. GLU GLU GLU B B 374 374 . 82.259 108.407 10.223 1.00
2.00	1 . .		
ATOM 6192	O	O	. GLU GLU GLU B B 374 374 . 82.728 108.880 11.249 1.00
2.95	1 . .		
ATOM 6193	N	N	. THR THR THR B B 375 375 . 81.300 107.531 10.198 1.00
2.17	1 . .		
ATOM 6194	CA	CA	. THR THR THR B B 375 375 . 80.896 106.831 11.435 1.00
2.01	1 . .		
ATOM 6195	CB	CB	. THR THR THR B B 375 375 . 79.510 107.289 11.933 1.00
2.75	1 . .		
ATOM 6196	OG1	OG1	. THR THR THR B B 375 375 . 78.494 106.740 11.073 1.00
2.00	1 . .		
ATOM 6197	CG2	CG2	. THR THR THR B B 375 375 . 79.417 108.842 11.939 1.00
2.27	1 . .		
ATOM 6198	C	C	. THR THR THR B B 375 375 . 80.776 105.335 11.185 1.00
2.45	1 . .		







ATOM 6280	C	C	. GLY GLY GLY B B	386 386	. 70.182	100.109	-5.505	1.00
5.75	1	. . .						
ATOM 6281	O	O	. GLY GLY GLY B B	386 386	. 69.288	99.917	-6.340	1.00
6.46	1	. . .						
ATOM 6282	N	N	. LEU LEU LEU B B	387 387	. 71.104	101.080	-5.631	1.00
5.41	1	. . .						
ATOM 6283	CA	CA	. LEU LEU LEU B B	387 387	. 71.139	102.016	-6.791	1.00
5.08	1	. . .						
ATOM 6284	CB	CB	. LEU LEU LEU B B	387 387	. 71.676	103.387	-6.349	1.00
4.97	1	. . .						
ATOM 6285	CG	CG	. LEU LEU LEU B B	387 387	. 70.814	104.148	-5.335	1.00
5.99	1	. . .						
ATOM 6286	CD1	CD1	. LEU LEU LEU B B	387 387	. 71.355	105.511	-4.984	1.00
5.60	1	. . .						
ATOM 6287	CD2	CD2	. LEU LEU LEU B B	387 387	. 69.423	104.274	-5.859	1.00
5.99	1	. . .						
ATOM 6288	C	C	. LEU LEU LEU B B	387 387	. 71.914	101.442	-7.995	1.00
5.68	1	. . .						
ATOM 6289	O	O	. LEU LEU LEU B B	387 387	. 71.956	102.053	-9.122	1.00
7.54	1	. . .						
ATOM 6290	N	N	. CYS CYS CYS B B	388 388	. 72.549	100.266	-7.796	1.00
6.20	1	. . .						
ATOM 6291	CA	CA	. CYS CYS CYS B B	388 388	. 73.259	99.575	-8.906	1.00
8.44	1	. . .						
ATOM 6292	CB	CB	. CYS CYS CYS B B	388 388	. 72.232	99.131	-9.950	1.00
7.72	1	. . .						
ATOM 6293	SG	SG	. CYS CYS CYS B B	388 388	. 71.069	97.914	-9.412	1.00
18.13	1	. . .						
ATOM 6294	C	C	. CYS CYS CYS B B	388 388	. 74.262	100.447	-9.652	1.00
8.45	1	. . .						
ATOM 6295	O	O	. CYS CYS CYS B B	388 388	. 74.356	100.406	-10.915	1.00
10.77	1	. . .						
ATOM 6296	N	N	. THR THR THR B B	389 389	. 75.014	101.236	-8.925	1.00
5.48	1	. . .						
ATOM 6297	CA	CA	. THR THR THR B B	389 389	. 75.833	102.185	-9.639	1.00
4.36	1	. . .						
ATOM 6298	CB	CB	. THR THR THR B B	389 389	. 76.146	103.438	-8.782	1.00
3.85	1	. . .						
ATOM 6299	OG1	OG1	. THR THR THR B B	389 389	. 77.265	103.179	-7.913	1.00
3.50	1	. . .						
ATOM 6300	CG2	CG2	. THR THR THR B B	389 389	. 75.020	103.916	-8.023	1.00
3.52	1	. . .						
ATOM 6301	C	C	. THR THR THR B B	389 389	. 77.170	101.591	-10.034	1.00
4.72	1	. . .						
ATOM 6302	O	O	. THR THR THR B B	389 389	. 77.841	102.119	-10.886	1.00
5.64	1	. . .						
ATOM 6303	N	N	. GLY GLY GLY B B	390 390	. 77.558	100.463	-9.482	1.00
2.39	1	. . .						
ATOM 6304	CA	CA	. GLY GLY GLY B B	390 390	. 78.852	99.877	-9.877	1.00
3.26	1	. . .						
ATOM 6305	C	C	. GLY GLY GLY B B	390 390	. 80.175	100.310	-9.326	1.00
2.51	1	. . .						
ATOM 6306	O	O	. GLY GLY GLY B B	390 390	. 81.204	99.710	-9.624	1.00
2.66	1	. . .						

ATOM 6307	N	N	. GLN GLN GLN B B 391 391 . 80.144 101.360 -8.526 1.00
2.55	1 . .		
ATOM 6308	CA	CA	. GLN GLN GLN B B 391 391 . 81.404 101.916 -7.952 1.00
3.11	1 . .		
ATOM 6309	CB	CB	. GLN GLN GLN B B 391 391 . 82.154 102.864 -8.921 1.00
3.80	1 . .		
ATOM 6310	CG	CG	. GLN GLN GLN B B 391 391 . 81.370 103.434 -10.030 1.00
4.04	1 . .		
ATOM 6311	CD	CD	. GLN GLN GLN B B 391 391 . 82.095 104.463 -10.863 1.00
3.58	1 . .		
ATOM 6312	OE1	OE1	. GLN GLN GLN B B 391 391 . 83.233 104.809 -10.613 1.00
4.19	1 . .		
ATOM 6313	NE2	NE2	. GLN GLN GLN B B 391 391 . 81.396 104.958 -11.871 1.00
5.89	1 . .		
ATOM 6314	C	C	. GLN GLN GLN B B 391 391 . 81.095 102.637 -6.671 1.00
2.66	1 . .		
ATOM 6315	O	O	. GLN GLN GLN B B 391 391 . 80.105 103.338 -6.533 1.00
3.56	1 . .		
ATOM 6316	N	N	. ILE ILE ILE B B 392 392 . 81.985 102.396 -5.706 1.00
2.95	1 . .		
ATOM 6317	CA	CA	. ILE ILE ILE B B 392 392 . 81.867 103.058 -4.415 1.00
2.55	1 . .		
ATOM 6318	CB	CB	. ILE ILE ILE B B 392 392 . 81.125 102.209 -3.329 1.00
3.01	1 . .		
ATOM 6319	CG1	CG1	. ILE ILE ILE B B 392 392 . 81.089 103.005 -2.005 1.00
2.49	1 . .		
ATOM 6320	CD1	CD1	. ILE ILE ILE B B 392 392 . 80.214 102.463 -0.965 1.00
2.37	1 . .		
ATOM 6321	CG2	CG2	. ILE ILE ILE B B 392 392 . 81.867 100.865 -3.125 1.00
4.87	1 . .		
ATOM 6322	C	C	. ILE ILE ILE B B 392 392 . 83.284 103.396 -3.985 1.00
2.39	1 . .		
ATOM 6323	O	O	. ILE ILE ILE B B 392 392 . 84.241 102.609 -4.186 1.00
2.68	1 . .		
ATOM 6324	N	N	. LYS LYS LYS B B 393 393 . 83.474 104.591 -3.399 1.00
2.73	1 . .		
ATOM 6325	CA	CA	. LYS LYS LYS B B 393 393 . 84.639 104.877 -2.640 1.00
2.00	1 . .		
ATOM 6326	CB	CB	. LYS LYS LYS B B 393 393 . 85.483 106.054 -3.208 1.00
2.88	1 . .		
ATOM 6327	CG	CG	. LYS LYS LYS B B 393 393 . 84.866 107.449 -3.019 1.00
2.74	1 . .		
ATOM 6328	CD	CD	. LYS LYS LYS B B 393 393 . 85.865 108.502 -3.570 1.00
3.60	1 . .		
ATOM 6329	CE	CE	. LYS LYS LYS B B 393 393 . 85.577 109.882 -2.943 1.00
3.60	1 . .		
ATOM 6330	NZ	NZ	. LYS LYS LYS B B 393 393 . 86.535 110.905 -3.445 1.00
3.49	1 . .		
ATOM 6331	C	C	. LYS LYS LYS B B 393 393 . 84.283 105.100 -1.168 1.00
3.04	1 . .		
ATOM 6332	O	O	. LYS LYS LYS B B 393 393 . 83.423 105.900 -0.860 1.00
2.06	1 . .		
ATOM 6333	N	N	. THR THR THR B B 394 394 . 84.933 104.350 -0.279 1.00
2.75	1 . .		

ATOM 6334	CA	CA	. THR THR THR B B 394 394 .	84.685	104.528	1.154	1.00
2.00	1 . .						
ATOM 6335	CB	CB	. THR THR THR B B 394 394 .	83.399	103.781	1.532	1.00
2.33	1 . .						
ATOM 6336	OG1	OG1	. THR THR THR B B 394 394 .	83.058	104.068	2.907	1.00
2.33	1 . .						
ATOM 6337	CG2	CG2	. THR THR THR B B 394 394 .	83.483	102.237	1.335	1.00
2.89	1 . .						
ATOM 6338	C	C	. THR THR THR B B 394 394 .	85.907	104.223	2.004	1.00
2.05	1 . .						
ATOM 6339	O	O	. THR THR THR B B 394 394 .	85.758	103.736	3.105	1.00
2.06	1 . .						
ATOM 6340	N	N	. GLY GLY GLY B B 395 395 .	87.056	104.593	1.499	1.00
2.01	1 . .						
ATOM 6341	CA	CA	. GLY GLY GLY B B 395 395 .	88.298	104.565	2.262	1.00
2.76	1 . .						
ATOM 6342	C	C	. GLY GLY GLY B B 395 395 .	89.352	103.555	1.836	1.00
2.54	1 . .						
ATOM 6343	O	O	. GLY GLY GLY B B 395 395 .	89.094	102.658	1.026	1.00
2.87	1 . .						
ATOM 6344	N	N	. ALA ALA ALA B B 396 396 .	90.586	103.751	2.337	1.00
2.12	1 . .						
ATOM 6345	CA	CA	. ALA ALA ALA B B 396 396 .	91.556	102.637	2.390	1.00
2.60	1 . .						
ATOM 6346	CB	CB	. ALA ALA ALA B B 396 396 .	92.851	103.027	3.095	1.00
2.93	1 . .						
ATOM 6347	C	C	. ALA ALA ALA B B 396 396 .	90.930	101.457	3.110	1.00
2.44	1 . .						
ATOM 6348	O	O	. ALA ALA ALA B B 396 396 .	89.934	101.629	3.814	1.00
2.03	1 . .						
ATOM 6349	N	N	. PRO PRO PRO B B 397 397 .	91.497	100.217	2.936	1.00
2.44	1 . .						
ATOM 6350	CA	CA	. PRO PRO PRO B B 397 397 .	91.001	99.094	3.737	1.00
2.03	1 . .						
ATOM 6351	CB	CB	. PRO PRO PRO B B 397 397 .	91.541	97.896	2.959	1.00
4.05	1 . .						
ATOM 6352	CG	CG	. PRO PRO PRO B B 397 397 .	92.757	98.354	2.282	1.00
2.00	1 . .						
ATOM 6353	CD	CD	. PRO PRO PRO B B 397 397 .	92.532	99.803	1.963	1.00
2.61	1 . .						
ATOM 6354	C	C	. PRO PRO PRO B B 397 397 .	91.662	99.155	5.141	1.00
2.95	1 . .						
ATOM 6355	O	O	. PRO PRO PRO B B 397 397 .	92.357	98.208	5.581	1.00
3.03	1 . .						
ATOM 6356	N	N	. CYS CYS CYS B B 398 398 .	91.399	100.282	5.824	1.00
2.10	1 . .						
ATOM 6357	CA	CA	. CYS CYS CYS B B 398 398 .	92.021	100.565	7.088	1.00
2.35	1 . .						
ATOM 6358	CB	CB	. CYS CYS CYS B B 398 398 .	93.429	101.088	6.851	1.00
2.51	1 . .						
ATOM 6359	SG	SG	. CYS CYS CYS B B 398 398 .	94.274	101.655	8.354	1.00
2.58	1 . .						
ATOM 6360	C	C	. CYS CYS CYS B B 398 398 .	91.172	101.620	7.779	1.00
3.91	1 . .						



ATOM 6361	O	O	. CYS CYS CYS B B 398 398 .	90.692	102.550	7.129	1.00
2.52	1 . .						
ATOM 6362	N	N	. ARG ARG ARG B B 399 399 .	90.974	101.400	9.051	1.00
2.00	1 . .						
ATOM 6363	CA	CA	. ARG ARG ARG B B 399 399 .	90.035	102.191	9.945	1.00
2.27	1 . .						
ATOM 6364	CB	CB	. ARG ARG ARG B B 399 399 .	90.139	103.708	9.701	1.00
2.00	1 . .						
ATOM 6365	CG	CG	. ARG ARG ARG B B 399 399 .	91.604	104.223	9.856	1.00
2.80	1 . .						
ATOM 6366	CD	CD	. ARG ARG ARG B B 399 399 .	91.789	105.741	9.462	1.00
3.39	1 . .						
ATOM 6367	NE	NE	. ARG ARG ARG B B 399 399 .	90.783	106.560	10.148	1.00
2.99	1 . .						
ATOM 6368	CZ	CZ	. ARG ARG ARG B B 399 399 .	91.079	107.720	10.759	1.00
3.52	1 . .						
ATOM 6369	NH1	NH1	. ARG ARG ARG B B 399 399 .	92.363	108.169	10.727	1.00
4.04	1 . .						
ATOM 6370	NH2	NH2	. ARG ARG ARG B B 399 399 .	90.081	108.433	11.359	1.00
3.11	1 . .						
ATOM 6371	C	C	. ARG ARG ARG B B 399 399 .	88.583	101.700	9.748	1.00
2.00	1 . .						
ATOM 6372	O	O	. ARG ARG ARG B B 399 399 .	88.055	101.666	8.675	1.00
2.00	1 . .						
ATOM 6373	N	N	. SER SER SER B B 400 400 .	87.901	101.315	10.836	1.00
2.00	1 . .						
ATOM 6374	CA	CA	. SER SER SER B B 400 400 .	86.675	100.578	10.636	1.00
2.00	1 . .						
ATOM 6375	CB	CB	. SER SER SER B B 400 400 .	86.344	99.682	11.845	1.00
2.00	1 . .						
ATOM 6376	OG	OG	. SER SER SER B B 400 400 .	87.329	98.665	12.106	1.00
2.50	1 . .						
ATOM 6377	C	C	. SER SER SER B B 400 400 .	85.478	101.450	10.305	1.00
2.00	1 . .						
ATOM 6378	O	O	. SER SER SER B B 400 400 .	84.462	100.951	9.930	1.00
2.00	1 . .						
ATOM 6379	N	N	. GLU GLU GLU B B 401 401 .	85.639	102.769	10.309	1.00
2.00	1 . .						
ATOM 6380	CA	CA	. GLU GLU GLU B B 401 401 .	84.558	103.540	9.674	1.00
2.00	1 . .						
ATOM 6381	CB	CB	. GLU GLU GLU B B 401 401 .	84.688	105.001	10.037	1.00
2.35	1 . .						
ATOM 6382	CG	CG	. GLU GLU GLU B B 401 401 .	85.763	105.732	9.361	1.00
3.09	1 . .						
ATOM 6383	CD	CD	. GLU GLU GLU B B 401 401 .	87.085	105.654	10.043	1.00
2.74	1 . .						
ATOM 6384	OE1	OE1	. GLU GLU GLU B B 401 401 .	87.206	104.917	11.026	1.00
2.01	1 . .						
ATOM 6385	OE2	OE2	. GLU GLU GLU B B 401 401 .	88.070	106.354	9.601	1.00
2.00	1 . .						
ATOM 6386	C	C	. GLU GLU GLU B B 401 401 .	84.589	103.337	8.120	1.00
2.24	1 . .						
ATOM 6387	O	O	. GLU GLU GLU B B 401 401 .	83.585	103.651	7.451	1.00
2.00	1 . .						

ATOM 6388	N	N	. ARG ARG ARG B B 402 402 .	85.688	102.768	7.673	1.00
2.00	1 . .						
ATOM 6389	CA	CA	. ARG ARG ARG B B 402 402 .	85.816	102.369	6.246	1.00
2.19	1 . .						
ATOM 6390	CB	CB	. ARG ARG ARG B B 402 402 .	87.198	102.635	5.703	1.00
2.70	1 . .						
ATOM 6391	CG	CG	. ARG ARG ARG B B 402 402 .	87.867	103.990	6.048	1.00
2.64	1 . .						
ATOM 6392	CD	CD	. ARG ARG ARG B B 402 402 .	87.053	105.239	5.663	1.00
2.12	1 . .						
ATOM 6393	NE	NE	. ARG ARG ARG B B 402 402 .	87.387	106.324	6.557	1.00
2.00	1 . .						
ATOM 6394	CZ	CZ	. ARG ARG ARG B B 402 402 .	86.853	107.546	6.549	1.00
2.00	1 . .						
ATOM 6395	NH1	NH1	. ARG ARG ARG B B 402 402 .	85.974	107.924	5.628	1.00
3.09	1 . .						
ATOM 6396	NH2	NH2	. ARG ARG ARG B B 402 402 .	87.180	108.347	7.554	1.00
2.33	1 . .						
ATOM 6397	C	C	. ARG ARG ARG B B 402 402 .	85.441	100.900	6.050	1.00
2.02	1 . .						
ATOM 6398	O	O	. ARG ARG ARG B B 402 402 .	84.538	100.553	5.282	1.00
2.00	1 . .						
ATOM 6399	N	N	. LEU LEU LEU B B 403 403 .	86.117	100.037	6.816	1.00
2.55	1 . .						
ATOM 6400	CA	CA	. LEU LEU LEU B B 403 403 .	85.823	98.603	6.756	1.00
2.03	1 . .						
ATOM 6401	CB	CB	. LEU LEU LEU B B 403 403 .	86.741	97.756	7.650	1.00
2.00	1 . .						
ATOM 6402	CG	CG	. LEU LEU LEU B B 403 403 .	88.163	97.462	7.242	1.00
2.43	1 . .						
ATOM 6403	CD1	CD1	. LEU LEU LEU B B 403 403 .	88.308	97.223	5.702	1.00
2.00	1 . .						
ATOM 6404	CD2	CD2	. LEU LEU LEU B B 403 403 .	89.088	98.581	7.744	1.00
2.44	1 . .						
ATOM 6405	C	C	. LEU LEU LEU B B 403 403 .	84.438	98.255	7.111	1.00
2.11	1 . .						
ATOM 6406	O	O	. LEU LEU LEU B B 403 403 .	83.921	97.274	6.541	1.00
2.00	1 . .						
ATOM 6407	N	N	. ALA ALA ALA B B 404 404 .	83.800	99.029	7.993	1.00
2.00	1 . .						
ATOM 6408	CA	CA	. ALA ALA ALA B B 404 404 .	82.358	98.688	8.219	1.00
2.18	1 . .						
ATOM 6409	CB	CB	. ALA ALA ALA B B 404 404 .	81.746	99.551	9.253	1.00
2.96	1 . .						
ATOM 6410	C	C	. ALA ALA ALA B B 404 404 .	81.532	98.678	6.949	1.00
3.01	1 . .						
ATOM 6411	O	O	. ALA ALA ALA B B 404 404 .	80.676	97.810	6.768	1.00
2.22	1 . .						
ATOM 6412	N	N	. LYS LYS LYS B B 405 405 .	81.819	99.600	6.038	1.00
2.00	1 . .						
ATOM 6413	CA	CA	. LYS LYS LYS B B 405 405 .	81.094	99.547	4.732	1.00
2.00	1 . .						
ATOM 6414	CB	CB	. LYS LYS LYS B B 405 405 .	81.206	100.859	3.907	1.00
2.31	1 . .						





ATOM 6469	CG	CG	. ARG ARG ARG B B	411 411	. 78.208	90.893	6.043	1.00
3.16	1 . .							
ATOM 6470	CD	CD	. ARG ARG ARG B B	411 411	. 77.526	91.381	7.422	1.00
2.26	1 . .							
ATOM 6471	NE	NE	. ARG ARG ARG B B	411 411	. 78.637	91.689	8.314	1.00
2.73	1 . .							
ATOM 6472	CZ	CZ	. ARG ARG ARG B B	411 411	. 79.101	92.923	8.569	1.00
3.45	1 . .							
ATOM 6473	NH1	NH1	. ARG ARG ARG B B	411 411	. 78.489	93.995	8.042	1.00
2.50	1 . .							
ATOM 6474	NH2	NH2	. ARG ARG ARG B B	411 411	. 80.191	93.110	9.368	1.00
3.05	1 . .							
ATOM 6475	C	C	. ARG ARG ARG B B	411 411	. 76.561	90.437	2.529	1.00
3.13	1 . .							
ATOM 6476	O	O	. ARG ARG ARG B B	411 411	. 75.823	89.472	2.361	1.00
3.97	1 . .							
ATOM 6477	N	N	. ILE ILE ILE B B	412 412	. 76.430	91.577	1.831	1.00
2.99	1 . .							
ATOM 6478	CA	CA	. ILE ILE ILE B B	412 412	. 75.362	91.695	0.906	1.00
3.63	1 . .							
ATOM 6479	CB	CB	. ILE ILE ILE B B	412 412	. 75.251	93.183	0.385	1.00
3.00	1 . .							
ATOM 6480	CG1	CG1	. ILE ILE ILE B B	412 412	. 74.694	94.050	1.476	1.00
2.70	1 . .							
ATOM 6481	CD1	CD1	. ILE ILE ILE B B	412 412	. 74.830	95.598	1.137	1.00
2.00	1 . .							
ATOM 6482	CG2	CG2	. ILE ILE ILE B B	412 412	. 74.350	93.238	-0.879	1.00
5.83	1 . .							
ATOM 6483	C	C	. ILE ILE ILE B B	412 412	. 75.654	90.729	-0.254	1.00
3.94	1 . .							
ATOM 6484	O	O	. ILE ILE ILE B B	412 412	. 74.715	90.034	-0.684	1.00
5.03	1 . .							
ATOM 6485	N	N	. GLU GLU GLU B B	413 413	. 76.913	90.655	-0.704	1.00
3.20	1 . .							
ATOM 6486	CA	CA	. GLU GLU GLU B B	413 413	. 77.298	89.702	-1.737	1.00
3.92	1 . .							
ATOM 6487	CB	CB	. GLU GLU GLU B B	413 413	. 78.825	89.836	-2.047	1.00
3.67	1 . .							
ATOM 6488	CG	CG	. GLU GLU GLU B B	413 413	. 79.187	88.936	-3.318	1.00
5.20	1 . .							
ATOM 6489	CD	CD	. GLU GLU GLU B B	413 413	. 80.562	89.116	-3.820	1.00
6.97	1 . .							
ATOM 6490	OE1	OE1	. GLU GLU GLU B B	413 413	. 81.532	88.781	-3.128	1.00
8.80	1 . .							
ATOM 6491	OE2	OE2	. GLU GLU GLU B B	413 413	. 80.672	89.619	-4.954	1.00
8.72	1 . .							
ATOM 6492	C	C	. GLU GLU GLU B B	413 413	. 76.990	88.232	-1.341	1.00
5.33	1 . .							
ATOM 6493	O	O	. GLU GLU GLU B B	413 413	. 76.462	87.442	-2.131	1.00
5.39	1 . .							
ATOM 6494	N	N	. GLU GLU GLU B B	414 414	. 77.336	87.882	-0.114	1.00
5.85	1 . .							
ATOM 6495	CA	CA	. GLU GLU GLU B B	414 414	. 77.063	86.544	0.355	1.00
5.89	1 . .							

ATOM 6496	CB	CB	. GLU GLU GLU B B	414 414	. 77.576	86.433	1.793	1.00
5.96	1 . .							
ATOM 6497	CG	CG	. GLU GLU GLU B B	414 414	. 77.412	85.144	2.526	1.00
9.04	1 . .							
ATOM 6498	CD	CD	. GLU GLU GLU B B	414 414	. 77.893	85.302	3.954	1.00
10.29	1 . .							
ATOM 6499	OE1	OE1	. GLU GLU GLU B B	414 414	. 79.087	85.738	4.123	1.00
13.48	1 . .							
ATOM 6500	OE2	OE2	. GLU GLU GLU B B	414 414	. 77.103	84.978	4.895	1.00
10.90	1 . .							
ATOM 6501	C	C	. GLU GLU GLU B B	414 414	. 75.568	86.318	0.362	1.00
7.33	1 . .							
ATOM 6502	O	O	. GLU GLU GLU B B	414 414	. 75.107	85.246	0.029	1.00
9.14	1 . .							
ATOM 6503	N	N	. GLU GLU GLU B B	415 415	. 74.813	87.364	0.715	1.00
10.10	1 . .							
ATOM 6504	CA	CA	. GLU GLU GLU B B	415 415	. 73.386	87.270	0.875	1.00
10.63	1 . .							
ATOM 6505	CB	CB	. GLU GLU GLU B B	415 415	. 72.901	88.568	1.497	1.00
11.81	1 . .							
ATOM 6506	CG	CG	. GLU GLU GLU B B	415 415	. 71.383	88.692	1.633	1.00
16.90	1 . .							
ATOM 6507	CD	CD	. GLU GLU GLU B B	415 415	. 70.925	88.199	2.946	1.00
23.12	1 . .							
ATOM 6508	OE1	OE1	. GLU GLU GLU B B	415 415	. 71.363	88.801	3.966	1.00
26.42	1 . .							
ATOM 6509	OE2	OE2	. GLU GLU GLU B B	415 415	. 70.116	87.245	2.959	1.00
26.22	1 . .							
ATOM 6510	C	C	. GLU GLU GLU B B	415 415	. 72.706	87.023	-0.462	1.00
12.77	1 . .							
ATOM 6511	O	O	. GLU GLU GLU B B	415 415	. 71.718	86.227	-0.574	1.00
13.57	1 . .							
ATOM 6512	N	N	. LEU LEU LEU B B	416 416	. 73.221	87.675	-1.504	1.00
14.36	1 . .							
ATOM 6513	CA	CA	. LEU LEU LEU B B	416 416	. 72.583	87.557	-2.832	1.00
16.82	1 . .							
ATOM 6514	CB	CB	. LEU LEU LEU B B	416 416	. 73.105	88.635	-3.772	1.00
15.53	1 . .							
ATOM 6515	CG	CG	. LEU LEU LEU B B	416 416	. 72.483	89.989	-3.497	1.00
15.21	1 . .							
ATOM 6516	CD1	CD1	. LEU LEU LEU B B	416 416	. 73.341	91.133	-4.057	1.00
14.37	1 . .							
ATOM 6517	CD2	CD2	. LEU LEU LEU B B	416 416	. 71.036	90.005	-4.016	1.00
16.49	1 . .							
ATOM 6518	C	C	. LEU LEU LEU B B	416 416	. 72.840	86.169	-3.399	1.00
19.03	1 . .							
ATOM 6519	O	O	. LEU LEU LEU B B	416 416	. 72.216	85.761	-4.386	1.00
20.58	1 . .							
ATOM 6520	N	N	. GLY GLY GLY B B	417 417	. 73.741	85.432	-2.752	1.00
21.56	1 . .							
ATOM 6521	CA	CA	. GLY GLY GLY B B	417 417	. 74.109	84.084	-3.186	1.00
24.47	1 . .							
ATOM 6522	C	C	. GLY GLY GLY B B	417 417	. 74.393	83.983	-4.677	1.00
26.34	1 . .							

ATOM 6523	O	O	. GLY GLY GLY B B	417 417	. 75.243	84.696	-5.201	1.00
25.55	1 . .							
ATOM 6524	N	N	. ASP ASP ASP B B	418 418	. 73.688	83.050	-5.320	1.00
29.19	1 . .							
ATOM 6525	CA	CA	. ASP ASP ASP B B	418 418	. 73.722	82.839	-6.768	1.00
31.44	1 . .							
ATOM 6526	CB	CB	. ASP ASP ASP B B	418 418	. 72.716	81.739	-7.136	1.00
32.21	1 . .							
ATOM 6527	CG	CG	. ASP ASP ASP B B	418 418	. 73.373	80.366	-7.253	1.00
34.75	1 . .							
ATOM 6528	OD1	OD1	. ASP ASP ASP B B	418 418	. 72.686	79.319	-7.084	1.00
34.95	1 . .							
ATOM 6529	OD2	OD2	. ASP ASP ASP B B	418 418	. 74.593	80.348	-7.523	1.00
37.87	1 . .							
ATOM 6530	C	C	. ASP ASP ASP B B	418 418	. 73.449	84.090	-7.627	1.00
31.39	1 . .							
ATOM 6531	O	O	. ASP ASP ASP B B	418 418	. 74.020	84.231	-8.720	1.00
32.62	1 . .							
ATOM 6532	N	N	. GLU GLU GLU B B	419 419	. 72.568	84.965	-7.128	1.00
30.47	1 . .							
ATOM 6533	CA	CA	. GLU GLU GLU B B	419 419	. 72.148	86.208	-7.796	1.00
29.04	1 . .							
ATOM 6534	CB	CB	. GLU GLU GLU B B	419 419	. 70.929	86.799	-7.082	1.00
30.28	1 . .							
ATOM 6535	CG	CG	. GLU GLU GLU B B	419 419	. 69.544	86.219	-7.401	1.00
33.87	1 . .							
ATOM 6536	CD	CD	. GLU GLU GLU B B	419 419	. 68.527	87.325	-7.663	1.00
39.55	1 . .							
ATOM 6537	OE1	OE1	. GLU GLU GLU B B	419 419	. 68.310	88.178	-6.769	1.00
41.78	1 . .							
ATOM 6538	OE2	OE2	. GLU GLU GLU B B	419 419	. 67.959	87.372	-8.781	1.00
41.23	1 . .							
ATOM 6539	C	C	. GLU GLU GLU B B	419 419	. 73.228	87.320	-7.880	1.00
26.97	1 . .							
ATOM 6540	O	O	. GLU GLU GLU B B	419 419	. 73.041	88.318	-8.612	1.00
26.43	1 . .							
ATOM 6541	N	N	. ALA ALA ALA B B	420 420	. 74.317	87.191	-7.117	1.00
23.69	1 . .							
ATOM 6542	CA	CA	. ALA ALA ALA B B	420 420	. 75.383	88.210	-7.122	1.00
21.65	1 . .							
ATOM 6543	CB	CB	. ALA ALA ALA B B	420 420	. 76.323	88.042	-5.876	1.00
21.61	1 . .							
ATOM 6544	C	C	. ALA ALA ALA B B	420 420	. 76.217	88.334	-8.420	1.00
20.65	1 . .							
ATOM 6545	O	O	. ALA ALA ALA B B	420 420	. 76.916	87.382	-8.849	1.00
21.73	1 . .							
ATOM 6546	N	N	. ARG ARG ARG B B	421 421	. 76.155	89.519	-9.036	1.00
18.78	1 . .							
ATOM 6547	CA	CA	. ARG ARG ARG B B	421 421	. 77.116	89.907	-10.087	1.00
17.94	1 . .							
ATOM 6548	CB	CB	. ARG ARG ARG B B	421 421	. 76.426	90.306	-11.388	1.00
18.74	1 . .							
ATOM 6549	CG	CG	. ARG ARG ARG B B	421 421	. 74.963	89.974	-11.523	1.00
23.29	1 . .							

ATOM 6550	CD	CD	. ARG ARG ARG B B	421 421	. 74.175	91.241	-11.277	1.00
29.38	1 . .							
ATOM 6551	NE	NE	. ARG ARG ARG B B	421 421	. 72.728	91.057	-11.370	1.00
32.90	1 . .							
ATOM 6552	CZ	CZ	. ARG ARG ARG B B	421 421	. 71.964	91.507	-12.365	1.00
34.91	1 . .							
ATOM 6553	NH1	NH1	. ARG ARG ARG B B	421 421	. 70.660	91.282	-12.337	1.00
36.62	1 . .							
ATOM 6554	NH2	NH2	. ARG ARG ARG B B	421 421	. 72.488	92.171	-13.391	1.00
33.93	1 . .							
ATOM 6555	C	C	. ARG ARG ARG B B	421 421	. 78.004	91.051	-9.557	1.00
14.98	1 . .							
ATOM 6556	O	O	. ARG ARG ARG B B	421 421	. 77.604	91.762	-8.645	1.00
16.78	1 . .							
ATOM 6557	N	N	. PHE PHE PHE B B	422 422	. 79.208	91.179	-10.107	1.00
12.03	1 . .							
ATOM 6558	CA	CA	. PHE PHE PHE B B	422 422	. 80.219	92.112	-9.626	1.00
8.24	1 . .							
ATOM 6559	CB	CB	. PHE PHE PHE B B	422 422	. 81.462	91.365	-9.119	1.00
8.12	1 . .							
ATOM 6560	CG	CG	. PHE PHE PHE B B	422 422	. 82.660	92.244	-8.883	1.00
6.72	1 . .							
ATOM 6561	CD1	CD1	. PHE PHE PHE B B	422 422	. 82.628	93.269	-7.911	1.00
4.39	1 . .							
ATOM 6562	CE1	CE1	. PHE PHE PHE B B	422 422	. 83.705	94.006	-7.663	1.00
3.75	1 . .							
ATOM 6563	CZ	CZ	. PHE PHE PHE B B	422 422	. 84.876	93.889	-8.457	1.00
3.42	1 . .							
ATOM 6564	CE2	CE2	. PHE PHE PHE B B	422 422	. 84.932	92.881	-9.445	1.00
7.05	1 . .							
ATOM 6565	CD2	CD2	. PHE PHE PHE B B	422 422	. 83.832	92.084	-9.643	1.00
8.37	1 . .							
ATOM 6566	C	C	. PHE PHE PHE B B	422 422	. 80.568	92.986	-10.794	1.00
6.65	1 . .							
ATOM 6567	O	O	. PHE PHE PHE B B	422 422	. 80.762	92.486	-11.898	1.00
8.02	1 . .							
ATOM 6568	N	N	. ALA ALA ALA B B	423 423	. 80.616	94.307	-10.592	1.00
5.75	1 . .							
ATOM 6569	CA	CA	. ALA ALA ALA B B	423 423	. 80.698	95.215	-11.754	1.00
5.40	1 . .							
ATOM 6570	CB	CB	. ALA ALA ALA B B	423 423	. 80.596	96.718	-11.331	1.00
5.24	1 . .							
ATOM 6571	C	C	. ALA ALA ALA B B	423 423	. 81.914	94.995	-12.585	1.00
5.97	1 . .							
ATOM 6572	O	O	. ALA ALA ALA B B	423 423	. 81.814	95.115	-13.804	1.00
7.14	1 . .							
ATOM 6573	N	N	. GLY GLY GLY B B	424 424	. 83.031	94.739	-11.931	1.00
6.48	1 . .							
ATOM 6574	CA	CA	. GLY GLY GLY B B	424 424	. 84.297	94.425	-12.569	1.00
8.08	1 . .							
ATOM 6575	C	C	. GLY GLY GLY B B	424 424	. 84.656	95.512	-13.588	1.00
10.59	1 . .							
ATOM 6576	O	O	. GLY GLY GLY B B	424 424	. 84.606	96.713	-13.327	1.00
10.60	1 . .							





ATOM 6604	C	C	. PHE PHE PHE	B B	427 427	. 81.572	101.022	-13.738	1.00
3.40	1	. . .							
ATOM 6605	O	O	. PHE PHE PHE	B B	427 427	. 80.652	101.559	-13.088	1.00
3.91	1	. . .							
ATOM 6606	N	N	. ARG ARG ARG	B B	428 428	. 82.019	101.500	-14.897	1.00
5.90	1	. . .							
ATOM 6607	CA	CA	. ARG ARG ARG	B B	428 428	. 81.540	102.779	-15.432	1.00
7.57	1	. . .							
ATOM 6608	CB	CB	. ARG ARG ARG	B B	428 428	. 82.479	103.339	-16.505	1.00
6.87	1	. . .							
ATOM 6609	CG	CG	. ARG ARG ARG	B B	428 428	. 83.821	103.839	-15.984	1.00
9.02	1	. . .							
ATOM 6610	CD	CD	. ARG ARG ARG	B B	428 428	. 84.783	104.347	-17.110	1.00
6.50	1	. . .							
ATOM 6611	NE	NE	. ARG ARG ARG	B B	428 428	. 84.121	105.461	-17.765	1.00
5.37	1	. . .							
ATOM 6612	CZ	CZ	. ARG ARG ARG	B B	428 428	. 84.612	106.134	-18.828	1.00
5.50	1	. . .							
ATOM 6613	NH1	NH1	. ARG ARG ARG	B B	428 428	. 85.845	105.908	-19.269	1.00
7.24	1	. . .							
ATOM 6614	NH2	NH2	. ARG ARG ARG	B B	428 428	. 83.897	107.151	-19.336	1.00
9.62	1	. . .							
ATOM 6615	C	C	. ARG ARG ARG	B B	428 428	. 80.127	102.594	-15.931	1.00
9.21	1	. . .							
ATOM 6616	O	O	. ARG ARG ARG	B B	428 428	. 79.291	103.483	-15.817	1.00
13.22	1	. . .							
ATOM 6617	N	N	. ASN ASN ASN	B B	429 429	. 79.804	101.449	-16.537	1.00
11.78	1	. . .							
ATOM 6618	CA	CA	. ASN ASN ASN	B B	429 429	. 78.419	101.345	-16.997	1.00
12.55	1	. . .							
ATOM 6619	CB	CB	. ASN ASN ASN	B B	429 429	. 78.298	101.742	-18.457	1.00
13.89	1	. . .							
ATOM 6620	CG	CG	. ASN ASN ASN	B B	429 429	. 79.017	100.783	-19.370	1.00
16.45	1	. . .							
ATOM 6621	OD1	OD1	. ASN ASN ASN	B B	429 429	. 78.590	100.577	-20.519	1.00
21.33	1	. . .							
ATOM 6622	ND2	ND2	. ASN ASN ASN	B B	429 429	. 80.119	100.163	-18.874	1.00
18.21	1	. . .							
ATOM 6623	C	C	. ASN ASN ASN	B B	429 429	. 77.910	99.930	-16.790	1.00
13.90	1	. . .							
ATOM 6624	O	O	. ASN ASN ASN	B B	429 429	. 77.817	99.111	-17.749	1.00
13.85	1	. . .							
ATOM 6625	N	N	. PRO PRO PRO	B B	430 430	. 77.600	99.622	-15.530	1.00
14.40	1	. . .							
ATOM 6626	CA	CA	. PRO PRO PRO	B B	430 430	. 77.232	98.279	-15.067	1.00
16.24	1	. . .							
ATOM 6627	CB	CB	. PRO PRO PRO	B B	430 430	. 77.161	98.479	-13.556	1.00
15.98	1	. . .							
ATOM 6628	CG	CG	. PRO PRO PRO	B B	430 430	. 76.763	99.906	-13.405	1.00
15.71	1	. . .							
ATOM 6629	CD	CD	. PRO PRO PRO	B B	430 430	. 77.623	100.585	-14.408	1.00
13.58	1	. . .							
ATOM 6630	C	C	. PRO PRO PRO	B B	430 430	. 75.887	97.810	-15.574	1.00
19.05	1	. . .							

ATOM 6631	O	O	. PRO PRO PRO	B B	430 430	. 75.567	96.620	-15.477	1.00
19.26	1	. . .							
ATOM 6632	N	N	. SER SER SER	B B	431 431	. 75.107	98.752	-16.099	1.00
21.90	1	. . .							
ATOM 6633	CA	CA	. SER SER SER	B B	431 431	. 73.774	98.477	-16.591	1.00
25.53	1	. . .							
ATOM 6634	CB	CB	. SER SER SER	B B	431 431	. 73.153	99.742	-17.165	1.00
26.06	1	. . .							
ATOM 6635	OG	OG	. SER SER SER	B B	431 431	. 73.648	99.998	-18.464	1.00
27.08	1	. . .							
ATOM 6636	C	C	. SER SER SER	B B	431 431	. 73.739	97.404	-17.665	1.00
26.55	1	. . .							
ATOM 6637	O	O	. SER SER SER	B B	431 431	. 72.656	96.959	-18.000	1.00
28.18	1	. . .							
ATOM 6638	N	N	. VAL VAL VAL	B B	432 432	. 74.900	97.008	-18.196	1.00
27.14	1	. . .							
ATOM 6639	CA	CA	. VAL VAL VAL	B B	432 432	. 74.984	95.949	-19.224	1.00
27.67	1	. . .							
ATOM 6640	CB	CB	. VAL VAL VAL	B B	432 432	. 76.183	96.134	-20.201	1.00
27.74	1	. . .							
ATOM 6641	CG1	CG1	. VAL VAL VAL	B B	432 432	. 76.144	97.512	-20.875	1.00
27.37	1	. . .							
ATOM 6642	CG2	CG2	. VAL VAL VAL	B B	432 432	. 77.544	95.864	-19.523	1.00
27.86	1	. . .							
ATOM 6643	C	C	. VAL VAL VAL	B B	432 432	. 75.022	94.545	-18.631	1.00
28.26	1	. . .							
ATOM 6644	O	O	. VAL VAL VAL	B B	432 432	. 75.119	94.372	-17.410	1.00
27.55	1	. . .							
ATOM 6645	MG+2	MG+2	. MG2 MG2 MG2	B B	440 440	. 86.035	114.571	-3.635	1.00
2.80	1	. . .							
ATOM 6646	MG+2	MG+2	. MG2 MG2 MG2	B B	441 441	. 85.699	117.153	-0.559	1.00
3.39	1	. . .							
ATOM 6647	O3P	O3P	. PEP PEP PEP	B B	442 442	. 84.976	116.143	1.109	1.00
3.00	1	. . .							
ATOM 6648	P	P	. PEP PEP PEP	B B	442 442	. 85.584	115.103	2.039	1.00
2.32	1	. . .							
ATOM 6649	O1P	O1P	. PEP PEP PEP	B B	442 442	. 84.479	114.272	2.611	1.00
3.44	1	. . .							
ATOM 6650	O2P	O2P	. PEP PEP PEP	B B	442 442	. 86.607	115.717	2.959	1.00
2.45	1	. . .							
ATOM 6651	O2	O2	. PEP PEP PEP	B B	442 442	. 86.465	114.150	1.110	1.00
3.40	1	. . .							
ATOM 6652	C2	C2	. PEP PEP PEP	B B	442 442	. 85.649	113.531	0.147	1.00
3.58	1	. . .							
ATOM 6653	C3	C3	. PEP PEP PEP	B B	442 442	. 85.578	111.995	0.279	1.00
10.42	1	. . .							
ATOM 6654	C1	C1	. PEP PEP PEP	B B	442 442	. 85.894	114.112	-1.243	1.00
5.40	1	. . .							
ATOM 6655	O1	O1	. PEP PEP PEP	B B	442 442	. 86.347	115.311	-1.403	1.00
4.25	1	. . .							
ATOM 6656	"O2'"	"O2'"	. PEP PEP PEP	B B	442 442	. 85.566	113.346	-2.212	1.00
5.89	1	. . .							
ATOM 6657	O	O	. HOH HOH HOH	B B	446 446	. 86.791	116.405	-4.476	1.00
2.00	1	. . .							

ATOM 6658	O	O	. HOH HOH HOH B B 447 447 . 86.486 118.137 -2.195 1.00
3.82	1 . .		
ATOM 6659	O	O	. HOH HOH HOH B B 448 448 . 83.754 117.064 -1.432 1.00
5.39	1 . .		
ATOM 6660	N	N	. GLY GLY GLY B B 555 555 . 96.030 116.495 0.096 0.50
7.08	1 . .		
ATOM 6661	CA	CA	. GLY GLY GLY B B 555 555 . 95.572 117.949 -0.127 0.50
5.20	1 . .		
ATOM 6662	C	C	. GLY GLY GLY B B 555 555 . 95.539 118.929 1.044 0.50
4.82	1 . .		
ATOM 6663	O	O	. GLY GLY GLY B B 555 555 . 96.480 119.004 1.810 0.50
3.60	1 . .		
ATOM 6664	N	N	. SER SER SER B B 556 556 . 94.426 119.648 1.174 0.50
4.98	1 . .		
ATOM 6665	CA	CA	. SER SER SER B B 556 556 . 94.302 120.776 2.128 0.50
5.28	1 . .		
ATOM 6666	CB	CB	. SER SER SER B B 556 556 . 92.908 121.351 2.080 0.50
5.83	1 . .		
ATOM 6667	OG	OG	. SER SER SER B B 556 556 . 92.649 121.831 3.394 0.50
10.88	1 . .		
ATOM 6668	C	C	. SER SER SER B B 556 556 . 94.510 120.410 3.581 0.50
5.55	1 . .		
ATOM 6669	O	O	. SER SER SER B B 556 556 . 94.704 121.317 4.427 0.50
5.82	1 . .		
ATOM 6670	N	N	. HIS HIS HIS B B 557 557 . 94.411 119.107 3.887 0.50
5.82	1 . .		
ATOM 6671	CA	CA	. HIS HIS HIS B B 557 557 . 94.433 118.669 5.294 0.50
5.42	1 . .		
ATOM 6672	CB	CB	. HIS HIS HIS B B 557 557 . 93.031 118.196 5.729 0.50
4.60	1 . .		
ATOM 6673	CG	CG	. HIS HIS HIS B B 557 557 . 91.965 119.250 5.666 0.50
5.50	1 . .		
ATOM 6674	ND1	ND1	. HIS HIS HIS B B 557 557 . 91.187 119.471 4.548 0.50
5.38	1 . .		
ATOM 6675	CE1	CE1	. HIS HIS HIS B B 557 557 . 90.332 120.454 4.791 0.50
3.49	1 . .		
ATOM 6676	NE2	NE2	. HIS HIS HIS B B 557 557 . 90.491 120.845 6.043 0.50
4.98	1 . .		
ATOM 6677	CD2	CD2	. HIS HIS HIS B B 557 557 . 91.487 120.088 6.619 0.50
6.03	1 . .		
ATOM 6678	C	C	. HIS HIS HIS B B 557 557 . 95.407 117.538 5.496 0.50
7.07	1 . .		
ATOM 6679	O	O	. HIS HIS HIS B B 557 557 . 95.164 116.601 6.296 0.50
8.12	1 . .		
ATOM 6680	N	N	. ALA ALA ALA B B 558 558 . 96.520 117.570 4.784 0.50
7.48	1 . .		
ATOM 6681	CA	CA	. ALA ALA ALA B B 558 558 . 97.285 116.337 4.727 0.50
8.96	1 . .		
ATOM 6682	CB	CB	. ALA ALA ALA B B 558 558 . 97.610 116.017 3.333 0.50
8.59	1 . .		
ATOM 6683	C	C	. ALA ALA ALA B B 558 558 . 98.520 116.230 5.615 0.50
10.17	1 . .		
ATOM 6684	O	O	. ALA ALA ALA B B 558 558 . 99.406 117.110 5.588 0.50
10.40	1 . .		

ATOM 6685	N	N	. GLY GLY GLY B B 559 559 .	98.578	115.135	6.375	0.50
10.81	1	. . .					
ATOM 6686	CA	CA	. GLY GLY GLY B B 559 559 .	99.703	114.899	7.268	0.50
12.19	1	. . .					
ATOM 6687	C	C	. GLY GLY GLY B B 559 559 .	100.944	114.479	6.520	0.50
11.30	1	. . .					
ATOM 6688	O	O	. GLY GLY GLY B B 559 559 .	102.017	115.029	6.713	0.50
10.93	1	. . .					
ATOM 6689	O	O	. HOH HOH HOH S . 1 1 .	95.217	88.492	18.858	1.00
2.26	1	. . .					
ATOM 6690	O	O	. HOH HOH HOH S . 2 2 .	87.880	92.335	26.333	1.00
2.08	1	. . .					
ATOM 6691	O	O	. HOH HOH HOH S . 3 3 .	90.217	90.802	23.446	1.00
2.62	1	. . .					
ATOM 6692	O	O	. HOH HOH HOH S . 4 4 .	82.262	107.009	14.678	1.00
2.77	1	. . .					
ATOM 6693	O	O	. HOH HOH HOH S . 5 5 .	92.953	103.711	24.522	1.00
2.20	1	. . .					
ATOM 6694	O	O	. HOH HOH HOH S . 6 6 .	88.310	110.291	9.641	1.00
2.19	1	. . .					
ATOM 6695	O	O	. HOH HOH HOH S . 7 7 .	84.098	94.886	21.337	1.00
2.83	1	. . .					
ATOM 6696	O	O	. HOH HOH HOH S . 8 8 .	80.464	123.023	-4.173	1.00
2.76	1	. . .					
ATOM 6697	O	O	. HOH HOH HOH S . 9 9 .	92.133	80.254	10.596	1.00
2.81	1	. . .					
ATOM 6698	O	O	. HOH HOH HOH S . 10 10 .	79.941	96.405	8.979	1.00
2.39	1	. . .					
ATOM 6699	O	O	. HOH HOH HOH S . 11 11 .	96.310	86.511	20.364	1.00
4.98	1	. . .					
ATOM 6700	O	O	. HOH HOH HOH S . 12 12 .	92.771	90.270	12.260	1.00
3.94	1	. . .					
ATOM 6701	O	O	. HOH HOH HOH S . 13 13 .	93.611	81.789	3.755	1.00
4.00	1	. . .					
ATOM 6702	O	O	. HOH HOH HOH S . 14 14 .	94.824	101.775	24.254	1.00
3.22	1	. . .					
ATOM 6703	O	O	. HOH HOH HOH S . 15 15 .	86.603	96.419	10.917	1.00
3.28	1	. . .					
ATOM 6704	O	O	. HOH HOH HOH S . 16 16 .	90.771	86.293	14.414	1.00
4.82	1	. . .					
ATOM 6705	O	O	. HOH HOH HOH S . 17 17 .	84.844	92.027	19.695	1.00
3.12	1	. . .					
ATOM 6706	O	O	. HOH HOH HOH S . 18 18 .	84.262	108.620	46.229	1.00
2.48	1	. . .					
ATOM 6707	O	O	. HOH HOH HOH S . 19 19 .	104.664	97.892	21.209	1.00
4.11	1	. . .					
ATOM 6708	O	O	. HOH HOH HOH S . 20 20 .	88.667	93.023	23.331	1.00
2.59	1	. . .					
ATOM 6709	O	O	. HOH HOH HOH S . 21 21 .	87.060	120.477	-5.413	1.00
3.66	1	. . .					
ATOM 6710	O	O	. HOH HOH HOH S . 22 22 .	86.778	93.887	21.203	1.00
2.62	1	. . .					
ATOM 6711	O	O	. HOH HOH HOH S . 23 23 .	82.376	112.028	-21.584	1.00
7.75	1	. . .					

ATOM 6712	O	O	. HOH HOH HOH S	. 24	24	. 96.072	83.039	4.559	1.00
5.85	1	. . .							
ATOM 6713	O	O	. HOH HOH HOH S	. 25	25	. 102.562	111.339	11.831	1.00
7.74	1	. . .							
ATOM 6714	O	O	. HOH HOH HOH S	. 26	26	. 88.399	105.385	-0.897	1.00
4.06	1	. . .							
ATOM 6715	O	O	. HOH HOH HOH S	. 27	27	. 85.576	110.797	-21.124	1.00
5.32	1	. . .							
ATOM 6716	O	O	. HOH HOH HOH S	. 28	28	. 86.219	93.407	17.534	1.00
2.72	1	. . .							
ATOM 6717	O	O	. HOH HOH HOH S	. 29	29	. 94.160	84.846	20.746	1.00
2.89	1	. . .							
ATOM 6718	O	O	. HOH HOH HOH S	. 30	30	. 94.146	99.187	13.890	1.00
2.00	1	. . .							
ATOM 6719	O	O	. HOH HOH HOH S	. 31	31	. 78.273	115.485	-6.208	1.00
3.98	1	. . .							
ATOM 6720	O	O	. HOH HOH HOH S	. 32	32	. 92.046	87.055	16.849	1.00
2.70	1	. . .							
ATOM 6721	O	O	. HOH HOH HOH S	. 33	33	. 85.195	128.481	-16.193	1.00
2.00	1	. . .							
ATOM 6722	O	O	. HOH HOH HOH S	. 34	34	. 93.201	112.454	13.852	1.00
2.60	1	. . .							
ATOM 6723	O	O	. HOH HOH HOH S	. 35	35	. 78.629	119.707	4.255	1.00
3.95	1	. . .							
ATOM 6724	O	O	. HOH HOH HOH S	. 36	36	. 102.253	86.556	27.423	1.00
3.32	1	. . .							
ATOM 6725	O	O	. HOH HOH HOH S	. 37	37	. 77.305	116.515	8.555	1.00
4.72	1	. . .							
ATOM 6726	O	O	. HOH HOH HOH S	. 38	38	. 95.791	90.293	30.910	1.00
5.79	1	. . .							
ATOM 6727	O	O	. HOH HOH HOH S	. 39	39	. 82.362	100.048	34.378	1.00
4.93	1	. . .							
ATOM 6728	O	O	. HOH HOH HOH S	. 40	40	. 97.751	100.948	8.467	1.00
5.44	1	. . .							
ATOM 6729	O	O	. HOH HOH HOH S	. 41	41	. 77.914	107.726	4.833	1.00
4.83	1	. . .							
ATOM 6730	O	O	. HOH HOH HOH S	. 42	42	. 89.701	74.535	25.017	1.00
10.33	1	. . .							
ATOM 6731	O	O	. HOH HOH HOH S	. 43	43	. 75.482	117.338	6.862	1.00
9.20	1	. . .							
ATOM 6732	O	O	. HOH HOH HOH S	. 44	44	. 76.918	104.970	5.481	1.00
4.18	1	. . .							
ATOM 6733	O	O	. HOH HOH HOH S	. 45	45	. 103.781	106.564	43.735	1.00
10.69	1	. . .							
ATOM 6734	O	O	. HOH HOH HOH S	. 46	46	. 112.427	108.053	27.685	1.00
7.92	1	. . .							
ATOM 6735	O	O	. HOH HOH HOH S	. 47	47	. 78.528	102.421	18.161	1.00
2.24	1	. . .							
ATOM 6736	O	O	. HOH HOH HOH S	. 48	48	. 96.255	101.147	11.083	1.00
7.31	1	. . .							
ATOM 6737	O	O	. HOH HOH HOH S	. 50	50	. 74.025	121.913	15.368	1.00
5.25	1	. . .							
ATOM 6738	O	O	. HOH HOH HOH S	. 51	51	. 84.999	115.596	11.229	1.00
7.15	1	. . .							



ATOM 6766	O	O	. HOH HOH HOH S	. 79	79	. 73.634	120.976	-2.434	1.00
6.91	1	. . .							
ATOM 6767	O	O	. HOH HOH HOH S	. 80	80	. 95.262	113.089	12.126	1.00
11.72	1	. . .							
ATOM 6768	O	O	. HOH HOH HOH S	. 81	81	. 85.240	120.879	-7.992	1.00
5.11	1	. . .							
ATOM 6769	O	O	. HOH HOH HOH S	. 82	82	. 106.296	95.917	0.011	1.00
12.04	1	. . .							
ATOM 6770	O	O	. HOH HOH HOH S	. 83	83	. 112.679	112.574	21.069	1.00
9.09	1	. . .							
ATOM 6771	O	O	. HOH HOH HOH S	. 84	84	. 79.201	127.985	-17.876	1.00
7.23	1	. . .							
ATOM 6772	O	O	. HOH HOH HOH S	. 85	85	. 102.374	117.159	-9.956	1.00
26.60	1	. . .							
ATOM 6773	O	O	. HOH HOH HOH S	. 87	87	. 85.509	124.820	-1.630	1.00
10.31	1	. . .							
ATOM 6774	O	O	. HOH HOH HOH S	. 88	88	. 84.317	83.752	4.803	1.00
9.58	1	. . .							
ATOM 6775	O	O	. HOH HOH HOH S	. 89	89	. 96.280	100.046	31.123	1.00
5.21	1	. . .							
ATOM 6776	O	O	. HOH HOH HOH S	. 90	90	. 85.893	109.404	-7.739	1.00
5.01	1	. . .							
ATOM 6777	O	O	. HOH HOH HOH S	. 91	91	. 82.361	120.071	7.577	1.00
11.73	1	. . .							
ATOM 6778	O	O	. HOH HOH HOH S	. 92	92	. 88.809	98.566	38.341	1.00
9.99	1	. . .							
ATOM 6779	O	O	. HOH HOH HOH S	. 93	93	. 92.579	111.557	1.203	1.00
15.29	1	. . .							
ATOM 6780	O	O	. HOH HOH HOH S	. 94	94	. 70.172	113.763	22.914	1.00
10.60	1	. . .							
ATOM 6781	O	O	. HOH HOH HOH S	. 95	95	. 76.587	116.432	11.396	1.00
6.58	1	. . .							
ATOM 6782	O	O	. HOH HOH HOH S	. 96	96	. 84.557	113.077	38.554	1.00
10.03	1	. . .							
ATOM 6783	O	O	. HOH HOH HOH S	. 97	97	. 61.407	104.350	3.288	1.00
10.03	1	. . .							
ATOM 6784	O	O	. HOH HOH HOH S	. 98	98	. 79.254	116.833	26.422	1.00
11.85	1	. . .							
ATOM 6785	O	O	. HOH HOH HOH S	. 99	99	. 99.473	102.718	20.535	1.00
4.26	1	. . .							
ATOM 6786	O	O	. HOH HOH HOH S	. 100	100	. 93.349	118.940	-2.965	1.00
9.83	1	. . .							
ATOM 6787	O	O	. HOH HOH HOH S	. 101	101	. 104.430	93.430	27.225	1.00
5.94	1	. . .							
ATOM 6788	O	O	. HOH HOH HOH S	. 102	102	. 78.975	114.814	-20.222	1.00
11.86	1	. . .							
ATOM 6789	O	O	. HOH HOH HOH S	. 103	103	. 76.404	67.611	17.338	1.00
5.90	1	. . .							
ATOM 6790	O	O	. HOH HOH HOH S	. 104	104	. 80.006	123.693	19.891	1.00
3.73	1	. . .							
ATOM 6791	O	O	. HOH HOH HOH S	. 105	105	. 88.191	88.687	0.885	1.00
4.88	1	. . .							
ATOM 6792	O	O	. HOH HOH HOH S	. 106	106	. 67.975	123.975	17.848	1.00
9.63	1	. . .							



ATOM 6793	O	O	. HOH HOH HOH S	. 107 107	. 80.382	93.157	12.878	1.00
12.60	1	. . .						
ATOM 6794	O	O	. HOH HOH HOH S	. 108 108	. 74.422	125.565	-18.724	1.00
12.98	1	. . .						
ATOM 6795	O	O	. HOH HOH HOH S	. 109 109	. 78.367	103.901	-12.701	1.00
7.87	1	. . .						
ATOM 6796	O	O	. HOH HOH HOH S	. 110 110	. 81.433	115.498	12.419	1.00
5.27	1	. . .						
ATOM 6797	O	O	. HOH HOH HOH S	. 111 111	. 90.597	105.094	41.789	1.00
4.42	1	. . .						
ATOM 6798	O	O	. HOH HOH HOH S	. 112 112	. 74.420	76.111	11.800	1.00
7.64	1	. . .						
ATOM 6799	O	O	. HOH HOH HOH S	. 113 113	. 110.470	108.771	14.917	1.00
15.44	1	. . .						
ATOM 6800	O	O	. HOH HOH HOH S	. 114 114	. 91.937	110.983	11.735	1.00
4.32	1	. . .						
ATOM 6801	O	O	. HOH HOH HOH S	. 115 115	. 77.255	124.647	23.436	1.00
9.33	1	. . .						
ATOM 6802	O	O	. HOH HOH HOH S	. 116 116	. 73.117	81.901	32.488	1.00
11.09	1	. . .						
ATOM 6803	O	O	. HOH HOH HOH S	. 117 117	. 85.267	125.240	-22.272	1.00
8.12	1	. . .						
ATOM 6804	O	O	. HOH HOH HOH S	. 118 118	. 72.652	69.219	14.963	1.00
13.42	1	. . .						
ATOM 6805	O	O	. HOH HOH HOH S	. 119 119	. 88.067	108.155	-1.016	1.00
9.71	1	. . .						
ATOM 6806	O	O	. HOH HOH HOH S	. 120 120	. 96.535	123.360	20.151	1.00
7.15	1	. . .						
ATOM 6807	O	O	. HOH HOH HOH S	. 121 121	. 73.642	91.505	16.553	1.00
14.49	1	. . .						
ATOM 6808	O	O	. HOH HOH HOH S	. 122 122	. 81.200	124.791	-19.654	1.00
6.77	1	. . .						
ATOM 6809	O	O	. HOH HOH HOH S	. 123 123	. 75.048	78.282	31.604	1.00
12.33	1	. . .						
ATOM 6810	O	O	. HOH HOH HOH S	. 124 124	. 111.721	105.174	23.027	1.00
8.93	1	. . .						
ATOM 6811	O	O	. HOH HOH HOH S	. 125 125	. 82.892	77.527	6.175	1.00
10.13	1	. . .						
ATOM 6812	O	O	. HOH HOH HOH S	. 126 126	. 79.114	99.219	14.992	1.00
6.96	1	. . .						
ATOM 6813	O	O	. HOH HOH HOH S	. 127 127	. 104.498	91.987	30.032	1.00
11.25	1	. . .						
ATOM 6814	O	O	. HOH HOH HOH S	. 128 128	. 103.721	123.079	20.545	1.00
7.93	1	. . .						
ATOM 6815	O	O	. HOH HOH HOH S	. 129 129	. 121.625	98.981	35.899	1.00
12.61	1	. . .						
ATOM 6816	O	O	. HOH HOH HOH S	. 130 130	. 75.197	127.902	15.002	1.00
13.03	1	. . .						
ATOM 6817	O	O	. HOH HOH HOH S	. 131 131	. 73.420	97.451	24.752	1.00
10.86	1	. . .						
ATOM 6818	O	O	. HOH HOH HOH S	. 132 132	. 109.725	89.371	25.138	1.00
10.44	1	. . .						
ATOM 6819	O	O	. HOH HOH HOH S	. 133 133	. 70.469	119.299	21.746	1.00
12.67	1	. . .						

ATOM 6820	O	O	. HOH HOH HOH S	. 134 134	. 89.224	74.084	9.566	1.00
8.34	1	. . .						
ATOM 6821	O	O	. HOH HOH HOH S	. 135 135	. 92.267	118.555	-0.435	1.00
9.85	1	. . .						
ATOM 6822	O	O	. HOH HOH HOH S	. 136 136	. 99.465	93.052	44.082	1.00
11.76	1	. . .						
ATOM 6823	O	O	. HOH HOH HOH S	. 137 137	. 104.233	91.170	23.737	1.00
8.65	1	. . .						
ATOM 6824	O	O	. HOH HOH HOH S	. 138 138	. 91.902	85.401	19.085	1.00
7.37	1	. . .						
ATOM 6825	O	O	. HOH HOH HOH S	. 139 139	. 65.955	121.718	0.777	1.00
10.55	1	. . .						
ATOM 6826	O	O	. HOH HOH HOH S	. 140 140	. 78.292	108.095	8.649	1.00
5.26	1	. . .						
ATOM 6827	O	O	. HOH HOH HOH S	. 141 141	. 98.450	82.916	18.584	1.00
11.46	1	. . .						
ATOM 6828	O	O	. HOH HOH HOH S	. 142 142	. 106.425	98.688	23.278	1.00
4.21	1	. . .						
ATOM 6829	O	O	. HOH HOH HOH S	. 143 143	. 54.636	101.401	13.808	1.00
19.23	1	. . .						
ATOM 6830	O	O	. HOH HOH HOH S	. 144 144	. 98.029	88.658	15.990	1.00
8.39	1	. . .						
ATOM 6831	O	O	. HOH HOH HOH S	. 145 145	. 100.071	102.350	9.452	1.00
13.19	1	. . .						
ATOM 6832	O	O	. HOH HOH HOH S	. 146 146	. 77.071	68.725	21.799	1.00
10.44	1	. . .						
ATOM 6833	O	O	. HOH HOH HOH S	. 147 147	. 76.791	76.104	9.947	1.00
11.57	1	. . .						
ATOM 6834	O	O	. HOH HOH HOH S	. 148 148	. 98.013	100.842	45.300	1.00
20.56	1	. . .						
ATOM 6835	O	O	. HOH HOH HOH S	. 149 149	. 79.325	71.002	6.956	1.00
21.45	1	. . .						
ATOM 6836	O	O	. HOH HOH HOH S	. 150 150	. 79.885	88.630	-11.364	1.00
12.80	1	. . .						
ATOM 6837	O	O	. HOH HOH HOH S	. 151 151	. 75.291	109.695	27.530	1.00
12.22	1	. . .						
ATOM 6838	O	O	. HOH HOH HOH S	. 152 152	. 67.890	77.157	30.311	1.00
8.58	1	. . .						
ATOM 6839	O	O	. HOH HOH HOH S	. 153 153	. 70.868	86.633	32.479	1.00
9.20	1	. . .						
ATOM 6840	O	O	. HOH HOH HOH S	. 154 154	. 76.688	104.544	-18.353	1.00
68.41	1	. . .						
ATOM 6841	O	O	. HOH HOH HOH S	. 155 155	. 54.058	108.536	11.067	1.00
15.86	1	. . .						
ATOM 6842	O	O	. HOH HOH HOH S	. 156 156	. 69.701	126.795	14.908	1.00
21.22	1	. . .						
ATOM 6843	O	O	. HOH HOH HOH S	. 157 157	. 108.266	108.635	41.666	1.00
18.27	1	. . .						
ATOM 6844	O	O	. HOH HOH HOH S	. 158 158	. 96.442	116.688	35.053	1.00
13.15	1	. . .						
ATOM 6845	O	O	. HOH HOH HOH S	. 159 159	. 86.443	123.359	23.169	1.00
15.00	1	. . .						
ATOM 6846	O	O	. HOH HOH HOH S	. 160 160	. 71.264	75.269	20.943	1.00
12.80	1	. . .						

ATOM 6847	O	O	. HOH HOH HOH S	. 161 161	. 76.346	115.151	-20.045	1.00
8.97	1	. . .						
ATOM 6848	O	O	. HOH HOH HOH S	. 162 162	. 78.730	99.272	12.417	1.00
6.91	1	. . .						
ATOM 6849	O	O	. HOH HOH HOH S	. 163 163	. 88.854	86.367	-0.451	1.00
14.56	1	. . .						
ATOM 6850	O	O	. HOH HOH HOH S	. 164 164	. 68.161	127.742	12.820	1.00
15.35	1	. . .						
ATOM 6851	O	O	. HOH HOH HOH S	. 165 165	. 56.278	108.376	-0.427	1.00
14.98	1	. . .						
ATOM 6852	O	O	. HOH HOH HOH S	. 166 166	. 64.439	122.213	3.177	1.00
14.42	1	. . .						
ATOM 6853	O	O	. HOH HOH HOH S	. 167 167	. 59.364	99.493	10.602	1.00
14.19	1	. . .						
ATOM 6854	O	O	. HOH HOH HOH S	. 168 168	. 83.785	67.395	24.049	1.00
11.92	1	. . .						
ATOM 6855	O	O	. HOH HOH HOH S	. 169 169	. 89.298	85.733	-3.150	1.00
10.13	1	. . .						
ATOM 6856	O	O	. HOH HOH HOH S	. 170 170	. 73.264	114.189	22.720	1.00
18.35	1	. . .						
ATOM 6857	O	O	. HOH HOH HOH S	. 171 171	. 78.316	72.245	28.960	1.00
15.04	1	. . .						
ATOM 6858	O	O	. HOH HOH HOH S	. 172 172	. 93.414	72.364	14.232	1.00
12.19	1	. . .						
ATOM 6859	O	O	. HOH HOH HOH S	. 173 173	. 98.032	80.235	13.486	1.00
16.19	1	. . .						
ATOM 6860	O	O	. HOH HOH HOH S	. 174 174	. 83.495	100.479	-17.088	1.00
14.68	1	. . .						
ATOM 6861	O	O	. HOH HOH HOH S	. 175 175	. 84.901	114.987	-27.659	1.00
11.05	1	. . .						
ATOM 6862	O	O	. HOH HOH HOH S	. 176 176	. 90.785	76.232	26.800	1.00
7.09	1	. . .						
ATOM 6863	O	O	. HOH HOH HOH S	. 177 177	. 78.414	94.992	18.182	1.00
8.93	1	. . .						
ATOM 6864	O	O	. HOH HOH HOH S	. 178 178	. 58.135	125.381	3.037	1.00
11.34	1	. . .						
ATOM 6865	O	O	. HOH HOH HOH S	. 179 179	. 74.445	101.291	9.835	1.00
14.76	1	. . .						
ATOM 6866	O	O	. HOH HOH HOH S	. 180 180	. 80.001	123.916	2.303	1.00
20.17	1	. . .						
ATOM 6867	O	O	. HOH HOH HOH S	. 181 181	. 85.565	118.562	18.124	1.00
10.42	1	. . .						
ATOM 6868	O	O	. HOH HOH HOH S	. 182 182	. 75.529	97.426	9.472	1.00
12.94	1	. . .						
ATOM 6869	O	O	. HOH HOH HOH S	. 183 183	. 91.117	114.262	14.095	1.00
11.55	1	. . .						
ATOM 6870	O	O	. HOH HOH HOH S	. 184 184	. 96.758	111.289	-22.116	1.00
11.98	1	. . .						
ATOM 6871	O	O	. HOH HOH HOH S	. 185 185	. 99.809	97.209	44.946	1.00
11.61	1	. . .						
ATOM 6872	O	O	. HOH HOH HOH S	. 186 186	. 94.409	123.323	33.346	1.00
24.17	1	. . .						
ATOM 6873	O	O	. HOH HOH HOH S	. 187 187	. 82.306	91.654	37.929	1.00
21.31	1	. . .						



ATOM 6901	O	O	. HOH HOH HOH S	. 216 216	. 84.643	109.224	42.234	1.00
15.33	1	. . .						
ATOM 6902	O	O	. HOH HOH HOH S	. 217 217	. 69.301	100.117	12.529	1.00
13.65	1	. . .						
ATOM 6903	O	O	. HOH HOH HOH S	. 218 218	. 104.056	115.626	-10.591	1.00
13.74	1	. . .						
ATOM 6904	O	O	. HOH HOH HOH S	. 219 219	. 69.089	121.272	-0.139	1.00
17.07	1	. . .						
ATOM 6905	O	O	. HOH HOH HOH S	. 220 220	. 75.292	101.774	-17.093	1.00
20.77	1	. . .						
ATOM 6906	O	O	. HOH HOH HOH S	. 221 221	. 65.555	79.695	19.198	1.00
21.46	1	. . .						
ATOM 6907	O	O	. HOH HOH HOH S	. 222 222	. 112.342	115.896	16.298	1.00
43.22	1	. . .						
ATOM 6908	O	O	. HOH HOH HOH S	. 223 223	. 78.860	130.398	-13.492	1.00
8.22	1	. . .						
ATOM 6909	O	O	. HOH HOH HOH S	. 224 224	. 94.276	99.060	40.458	1.00
6.88	1	. . .						
ATOM 6910	O	O	. HOH HOH HOH S	. 225 225	. 86.136	122.226	-1.826	1.00
9.40	1	. . .						
ATOM 6911	O	O	. HOH HOH HOH S	. 226 226	. 89.071	117.958	12.899	1.00
13.83	1	. . .						
ATOM 6912	O	O	. HOH HOH HOH S	. 228 228	. 71.698	94.938	23.716	1.00
13.09	1	. . .						
ATOM 6913	O	O	. HOH HOH HOH S	. 229 229	. 79.025	98.287	42.102	1.00
51.39	1	. . .						
ATOM 6914	O	O	. HOH HOH HOH S	. 230 230	. 69.055	95.351	6.098	1.00
13.84	1	. . .						
ATOM 6915	O	O	. HOH HOH HOH S	. 231 231	. 101.056	85.136	21.078	1.00
15.01	1	. . .						
ATOM 6916	O	O	. HOH HOH HOH S	. 232 232	. 54.880	102.539	9.631	1.00
22.50	1	. . .						
ATOM 6917	O	O	. HOH HOH HOH S	. 233 233	. 86.136	78.641	5.584	1.00
7.77	1	. . .						
ATOM 6918	O	O	. HOH HOH HOH S	. 234 234	. 101.490	91.249	-14.312	1.00
41.04	1	. . .						
ATOM 6919	O	O	. HOH HOH HOH S	. 235 235	. 72.814	99.913	38.134	1.00
20.25	1	. . .						
ATOM 6920	O	O	. HOH HOH HOH S	. 236 236	. 102.999	86.312	19.652	1.00
14.85	1	. . .						
ATOM 6921	O	O	. HOH HOH HOH S	. 237 237	. 107.177	95.580	16.469	1.00
14.34	1	. . .						
ATOM 6922	O	O	. HOH HOH HOH S	. 238 238	. 101.355	120.942	-18.049	1.00
36.68	1	. . .						
ATOM 6923	O	O	. HOH HOH HOH S	. 239 239	. 100.590	95.191	45.790	1.00
21.35	1	. . .						
ATOM 6924	O	O	. HOH HOH HOH S	. 240 240	. 81.542	130.718	20.992	1.00
23.84	1	. . .						
ATOM 6925	O	O	. HOH HOH HOH S	. 241 241	. 79.502	117.371	28.876	1.00
16.88	1	. . .						
ATOM 6926	O	O	. HOH HOH HOH S	. 242 242	. 100.453	100.692	43.849	1.00
18.89	1	. . .						
ATOM 6927	O	O	. HOH HOH HOH S	. 243 243	. 103.694	110.989	-21.579	1.00
20.42	1	. . .						

ATOM 6928	O	O	. HOH HOH HOH S	. 244	244	. 87.864	67.368	26.221	1.00
19.54	1	. . .							
ATOM 6929	O	O	. HOH HOH HOH S	. 245	245	. 97.953	90.811	44.904	1.00
17.35	1	. . .							
ATOM 6930	O	O	. HOH HOH HOH S	. 246	246	. 103.568	89.652	18.190	1.00
54.08	1	. . .							
ATOM 6931	O	O	. HOH HOH HOH S	. 247	247	. 77.945	114.165	23.171	1.00
24.07	1	. . .							
ATOM 6932	O	O	. HOH HOH HOH S	. 248	248	. 89.597	66.740	22.235	1.00
29.13	1	. . .							
ATOM 6933	O	O	. HOH HOH HOH S	. 249	249	. 118.233	94.007	33.087	1.00
17.94	1	. . .							
ATOM 6934	O	O	. HOH HOH HOH S	. 250	250	. 118.292	95.072	36.564	1.00
13.48	1	. . .							
ATOM 6935	O	O	. HOH HOH HOH S	. 251	251	. 108.541	115.113	-4.560	1.00
33.58	1	. . .							
ATOM 6936	O	O	. HOH HOH HOH S	. 252	252	. 76.592	95.165	41.926	1.00
24.35	1	. . .							
ATOM 6937	O	O	. HOH HOH HOH S	. 253	253	. 67.723	84.798	21.446	1.00
8.90	1	. . .							
ATOM 6938	O	O	. HOH HOH HOH S	. 254	254	. 101.822	97.507	-12.018	1.00
19.46	1	. . .							
ATOM 6939	O	O	. HOH HOH HOH S	. 255	255	. 98.666	115.175	0.226	1.00
71.40	1	. . .							
ATOM 6940	O	O	. HOH HOH HOH S	. 256	256	. 67.493	80.015	23.131	1.00
12.23	1	. . .							
ATOM 6941	O	O	. HOH HOH HOH S	. 257	257	. 112.379	109.581	40.610	1.00
27.89	1	. . .							
ATOM 6942	O	O	. HOH HOH HOH S	. 258	258	. 78.799	73.029	31.843	1.00
26.30	1	. . .							
ATOM 6943	O	O	. HOH HOH HOH S	. 259	259	. 85.856	98.218	44.025	1.00
16.80	1	. . .							
ATOM 6944	O	O	. HOH HOH HOH S	. 260	260	. 121.882	104.082	35.929	1.00
17.30	1	. . .							
ATOM 6945	O	O	. HOH HOH HOH S	. 261	261	. 105.013	92.471	17.967	1.00
19.11	1	. . .							
ATOM 6946	O	O	. HOH HOH HOH S	. 262	262	. 101.843	92.321	-11.447	1.00
18.89	1	. . .							
ATOM 6947	O	O	. HOH HOH HOH S	. 263	263	. 65.869	97.508	8.151	1.00
19.55	1	. . .							
ATOM 6948	O	O	. HOH HOH HOH S	. 264	264	. 93.897	79.800	1.997	1.00
11.40	1	. . .							
ATOM 6949	O	O	. HOH HOH HOH S	. 265	265	. 94.927	105.785	-18.469	1.00
12.92	1	. . .							
ATOM 6950	O	O	. HOH HOH HOH S	. 266	266	. 76.439	108.889	34.618	1.00
37.83	1	. . .							
ATOM 6951	O	O	. HOH HOH HOH S	. 268	268	. 75.154	101.984	40.552	1.00
21.33	1	. . .							
ATOM 6952	O	O	. HOH HOH HOH S	. 270	270	. 91.573	87.870	-8.544	1.00
26.60	1	. . .							
ATOM 6953	O	O	. HOH HOH HOH S	. 271	271	. 82.281	109.042	40.892	1.00
14.91	1	. . .							
ATOM 6954	O	O	. HOH HOH HOH S	. 272	272	. 71.616	84.413	33.883	1.00
26.60	1	. . .							



ATOM 6982	O	O	. HOH HOH HOH S	. 301 301	. 88.175	96.492	41.349	1.00
36.98	1	. . .						
ATOM 6983	O	O	. HOH HOH HOH S	. 302 302	. 64.891	95.198	6.803	1.00
13.83	1	. . .						
ATOM 6984	O	O	. HOH HOH HOH S	. 303 303	. 70.918	91.277	22.066	1.00
12.50	1	. . .						
ATOM 6985	O	O	. HOH HOH HOH S	. 304 304	. 69.395	103.737	-9.554	1.00
24.50	1	. . .						
ATOM 6986	O	O	. HOH HOH HOH S	. 305 305	. 74.472	102.054	-21.574	1.00
37.56	1	. . .						
ATOM 6987	O	O	. HOH HOH HOH S	. 306 306	. 94.104	97.791	42.953	1.00
21.39	1	. . .						
ATOM 6988	O	O	. HOH HOH HOH S	. 307 307	. 58.531	106.978	-1.111	1.00
20.34	1	. . .						
ATOM 6989	O	O	. HOH HOH HOH S	. 308 308	. 99.321	94.367	9.856	1.00
15.33	1	. . .						
ATOM 6990	O	O	. HOH HOH HOH S	. 309 309	. 77.412	100.317	16.804	1.00
3.69	1	. . .						
ATOM 6991	O	O	. HOH HOH HOH S	. 310 310	. 78.022	97.031	10.829	1.00
4.39	1	. . .						
ATOM 6992	O	O	. HOH HOH HOH S	. 311 311	. 80.627	114.130	-22.362	1.00
7.56	1	. . .						
ATOM 6993	O	O	. HOH HOH HOH S	. 312 312	. 76.512	66.437	19.853	1.00
6.93	1	. . .						
ATOM 6994	O	O	. HOH HOH HOH S	. 313 313	. 81.757	109.597	45.485	1.00
9.09	1	. . .						
ATOM 6995	O	O	. HOH HOH HOH S	. 314 314	. 82.283	115.911	-23.894	1.00
6.88	1	. . .						
ATOM 6996	O	O	. HOH HOH HOH S	. 315 315	. 95.161	80.254	26.926	1.00
6.83	1	. . .						
ATOM 6997	O	O	. HOH HOH HOH S	. 317 317	. 117.321	101.778	25.325	1.00
15.84	1	. . .						
ATOM 6998	O	O	. HOH HOH HOH S	. 318 318	. 91.601	72.849	9.739	1.00
13.33	1	. . .						
ATOM 6999	O	O	. HOH HOH HOH S	. 319 319	. 69.094	115.866	23.978	1.00
12.49	1	. . .						
ATOM 7000	O	O	. HOH HOH HOH S	. 320 320	. 70.021	99.704	16.486	1.00
21.97	1	. . .						
ATOM 7001	O	O	. HOH HOH HOH S	. 321 321	. 89.196	116.223	-28.666	1.00
13.60	1	. . .						
ATOM 7002	O	O	. HOH HOH HOH S	. 322 322	. 71.715	122.315	-0.915	1.00
12.07	1	. . .						
ATOM 7003	O	O	. HOH HOH HOH S	. 323 323	. 87.976	104.983	-17.834	1.00
11.05	1	. . .						
ATOM 7004	O	O	. HOH HOH HOH S	. 324 324	. 109.536	86.529	27.400	1.00
10.33	1	. . .						
ATOM 7005	O	O	. HOH HOH HOH S	. 325 325	. 93.713	111.476	-22.441	1.00
19.97	1	. . .						
ATOM 7006	O	O	. HOH HOH HOH S	. 326 326	. 92.903	106.236	42.277	1.00
18.69	1	. . .						
ATOM 7007	O	O	. HOH HOH HOH S	. 327 327	. 74.148	103.865	12.375	1.00
16.39	1	. . .						
ATOM 7008	O	O	. HOH HOH HOH S	. 328 328	. 103.914	109.320	43.797	1.00
13.74	1	. . .						





ATOM 7036	O	O	. HOH HOH HOH S	. 356 356	. 90.646	106.179	46.223	1.00
22.38	1	. . .						
ATOM 7037	O	O	. HOH HOH HOH S	. 357 357	. 75.483	104.463	14.603	1.00
26.46	1	. . .						
ATOM 7038	O	O	. HOH HOH HOH S	. 358 358	. 107.262	106.352	43.907	1.00
24.23	1	. . .						
ATOM 7039	O	O	. HOH HOH HOH S	. 359 359	. 106.495	110.485	43.220	1.00
21.73	1	. . .						
ATOM 7040	O	O	. HOH HOH HOH S	. 360 360	. 72.747	100.290	12.750	1.00
33.32	1	. . .						
ATOM 7041	O	O	. HOH HOH HOH S	. 361 361	. 79.456	68.167	22.694	1.00
13.42	1	. . .						
ATOM 7042	O	O	. HOH HOH HOH S	. 362 362	. 81.068	68.535	26.874	1.00
12.03	1	. . .						
ATOM 7043	O	O	. HOH HOH HOH S	. 363 363	. 80.820	70.904	28.790	1.00
18.03	1	. . .						
ATOM 7044	O	O	. HOH HOH HOH S	. 364 364	. 83.570	65.234	22.269	1.00
9.72	1	. . .						
ATOM 7045	O	O	. HOH HOH HOH S	. 365 365	. 77.874	67.265	24.867	1.00
123.61	1	. . .						
ATOM 7046	O	O	. HOH HOH HOH S	. 366 366	. 75.581	68.264	24.197	1.00
15.50	1	. . .						
ATOM 7047	O	O	. HOH HOH HOH S	. 367 367	. 96.603	77.238	4.547	1.00
48.10	1	. . .						
ATOM 7048	O	O	. HOH HOH HOH S	. 368 368	. 97.140	74.535	5.018	1.00
44.00	1	. . .						
ATOM 7049	O	O	. HOH HOH HOH S	. 369 369	. 92.231	79.612	-0.085	1.00
19.81	1	. . .						
ATOM 7050	O	O	. HOH HOH HOH S	. 370 370	. 66.795	118.541	-4.557	1.00
14.05	1	. . .						
ATOM 7051	O	O	. HOH HOH HOH S	. 371 371	. 113.186	101.424	-2.182	1.00
27.71	1	. . .						
ATOM 7052	O	O	. HOH HOH HOH S	. 372 372	. 86.241	84.522	2.715	1.00
20.54	1	. . .						
ATOM 7053	O	O	. HOH HOH HOH S	. 373 373	. 72.669	92.064	8.366	1.00
32.40	1	. . .						
ATOM 7054	O	O	. HOH HOH HOH S	. 374 374	. 77.347	121.088	-24.702	1.00
37.93	1	. . .						
ATOM 7055	O	O	. HOH HOH HOH S	. 375 375	. 86.146	122.110	-25.885	1.00
53.20	1	. . .						
ATOM 7056	O	O	. HOH HOH HOH S	. 376 376	. 88.071	120.165	-25.414	1.00
25.08	1	. . .						
ATOM 7057	O	O	. HOH HOH HOH S	. 377 377	. 119.441	105.235	19.931	1.00
44.95	1	. . .						
ATOM 7058	O	O	. HOH HOH HOH S	. 378 378	. 89.058	99.174	-16.297	1.00
27.32	1	. . .						
ATOM 7059	O	O	. HOH HOH HOH S	. 379 379	. 92.702	96.523	-16.488	1.00
29.14	1	. . .						
ATOM 7060	O	O	. HOH HOH HOH S	. 380 380	. 113.467	86.199	33.817	1.00
40.09	1	. . .						
ATOM 7061	O	O	. HOH HOH HOH S	. 381 381	. 109.244	82.209	26.984	1.00
39.28	1	. . .						
ATOM 7062	O	O	. HOH HOH HOH S	. 382 382	. 96.495	108.865	-26.133	1.00
23.04	1	. . .						

ATOM 7063	O	O	. HOH HOH HOH S	. 383	383	. 96.151	106.363	-22.313	1.00
32.28	1	. . .							
ATOM 7064	O	O	. HOH HOH HOH S	. 384	384	. 100.052	116.632	-21.910	1.00
18.37	1	. . .							
ATOM 7065	O	O	. HOH HOH HOH S	. 385	385	. 92.146	102.541	45.230	1.00
26.48	1	. . .							
ATOM 7066	O	O	. HOH HOH HOH S	. 386	386	. 99.803	87.048	17.334	1.00
17.21	1	. . .							
ATOM 7067	O	O	. HOH HOH HOH S	. 387	387	. 98.480	85.531	19.108	1.00
16.32	1	. . .							
ATOM 7068	O	O	. HOH HOH HOH S	. 388	388	. 98.754	85.397	14.691	1.00
21.93	1	. . .							
ATOM 7069	O	O	. HOH HOH HOH S	. 389	389	. 90.638	83.896	-2.123	1.00
13.93	1	. . .							
ATOM 7070	O	O	. HOH HOH HOH S	. 390	390	. 92.280	116.475	16.085	1.00
15.28	1	. . .							
ATOM 7071	O	O	. HOH HOH HOH S	. 391	391	. 94.671	114.774	9.536	1.00
21.53	1	. . .							
ATOM 7072	O	O	. HOH HOH HOH S	. 392	392	. 96.834	115.910	9.835	1.00
16.16	1	. . .							
ATOM 7073	O	O	. HOH HOH HOH S	. 394	394	. 79.373	122.102	4.703	1.00
15.73	1	. . .							
ATOM 7074	O	O	. HOH HOH HOH S	. 395	395	. 77.855	123.832	5.549	1.00
31.18	1	. . .							
ATOM 7075	O	O	. HOH HOH HOH S	. 396	396	. 82.731	124.455	2.828	1.00
39.86	1	. . .							
ATOM 7076	O	O	. HOH HOH HOH S	. 397	397	. 77.139	124.448	3.137	1.00
16.64	1	. . .							
ATOM 7077	O	O	. HOH HOH HOH S	. 414	414	. 73.935	125.561	-11.402	1.00
26.45	1	. . .							
ATOM 7078	O	O	. HOH HOH HOH S	. 415	415	. 93.354	79.117	32.168	1.00
17.57	1	. . .							
ATOM 7079	O	O	. HOH HOH HOH S	. 416	416	. 82.922	79.541	4.510	1.00
14.99	1	. . .							
ATOM 7080	O	O	. HOH HOH HOH S	. 417	417	. 100.379	99.631	-13.343	1.00
28.47	1	. . .							
ATOM 7081	O	O	. HOH HOH HOH S	. 418	418	. 84.034	131.133	-4.979	1.00
28.26	1	. . .							
ATOM 7082	O	O	. HOH HOH HOH S	. 419	419	. 86.841	131.289	-4.449	1.00
22.94	1	. . .							
ATOM 7083	O	O	. HOH HOH HOH S	. 420	420	. 86.297	129.529	-9.252	1.00
16.08	1	. . .							
ATOM 7084	O	O	. HOH HOH HOH S	. 421	421	. 113.699	115.581	22.697	1.00
28.67	1	. . .							
ATOM 7085	O	O	. HOH HOH HOH S	. 422	422	. 115.270	112.564	20.356	1.00
22.10	1	. . .							
ATOM 7086	O	O	. HOH HOH HOH S	. 423	423	. 115.143	110.938	17.319	1.00
41.45	1	. . .							
ATOM 7087	O	O	. HOH HOH HOH S	. 424	424	. 116.060	116.737	22.873	1.00
13.49	1	. . .							
ATOM 7088	O	O	. HOH HOH HOH S	. 425	425	. 115.618	118.951	24.104	1.00
21.40	1	. . .							
ATOM 7089	O	O	. HOH HOH HOH S	. 426	426	. 105.175	114.684	-12.797	1.00
73.40	1	. . .							

ATOM 7090	O	O	. HOH HOH HOH S	. 427 427	. 80.089	83.164	3.620	1.00
18.93	1	. . .						
ATOM 7091	O	O	. HOH HOH HOH S	. 428 428	. 86.091	119.203	8.957	1.00
18.30	1	. . .						
ATOM 7092	O	O	. HOH HOH HOH S	. 429 429	. 75.371	112.210	23.424	1.00
22.36	1	. . .						
ATOM 7093	O	O	. HOH HOH HOH S	. 430 430	. 82.335	111.575	39.542	1.00
16.10	1	. . .						
ATOM 7094	O	O	. HOH HOH HOH S	. 431 431	. 78.709	110.745	38.696	1.00
84.17	1	. . .						
ATOM 7095	O	O	. HOH HOH HOH S	. 432 432	. 77.456	115.283	32.027	1.00
23.47	1	. . .						
ATOM 7096	O	O	. HOH HOH HOH S	. 433 433	. 76.084	114.660	30.543	1.00
27.48	1	. . .						
ATOM 7097	O	O	. HOH HOH HOH S	. 434 434	. 101.800	124.764	21.240	1.00
33.94	1	. . .						
ATOM 7098	O	O	. HOH HOH HOH S	. 435 435	. 70.405	92.463	19.516	1.00
29.03	1	. . .						
ATOM 7099	O	O	. HOH HOH HOH S	. 436 436	. 79.274	92.728	15.526	1.00
19.33	1	. . .						
ATOM 7100	O	O	. HOH HOH HOH S	. 437 437	. 121.238	100.854	38.117	1.00
14.48	1	. . .						
ATOM 7101	O	O	. HOH HOH HOH S	. 438 438	. 118.767	102.335	37.956	1.00
17.67	1	. . .						
ATOM 7102	O	O	. HOH HOH HOH S	. 439 439	. 120.599	99.043	40.526	1.00
23.44	1	. . .						
ATOM 7103	O	O	. HOH HOH HOH S	. 440 440	. 120.558	100.523	43.616	1.00
77.84	1	. . .						
ATOM 7104	O	O	. HOH HOH HOH S	. 441 441	. 117.070	104.571	42.163	1.00
65.16	1	. . .						
ATOM 7105	O	O	. HOH HOH HOH S	. 442 442	. 119.138	104.823	36.348	1.00
21.73	1	. . .						
ATOM 7106	O	O	. HOH HOH HOH S	. 443 443	. 120.153	93.518	34.842	1.00
20.45	1	. . .						
ATOM 7107	O	O	. HOH HOH HOH S	. 444 444	. 122.628	93.044	33.538	1.00
19.16	1	. . .						
ATOM 7108	O	O	. HOH HOH HOH S	. 445 445	. 120.359	95.344	38.609	1.00
17.99	1	. . .						
ATOM 7109	O	O	. HOH HOH HOH S	. 446 446	. 76.131	128.121	10.427	1.00
48.39	1	. . .						
ATOM 7110	O	O	. HOH HOH HOH S	. 447 447	. 71.358	129.856	16.939	1.00
22.67	1	. . .						
ATOM 7111	O	O	. HOH HOH HOH S	. 448 448	. 71.373	117.069	23.061	1.00
24.38	1	. . .						
ATOM 7112	O	O	. HOH HOH HOH S	. 449 449	. 96.978	97.446	45.596	1.00
27.08	1	. . .						
ATOM 7113	O	O	. HOH HOH HOH S	. 450 450	. 95.376	93.513	45.617	1.00
67.76	1	. . .						
ATOM 7114	O	O	. HOH HOH HOH S	. 451 451	. 56.341	100.386	10.767	1.00
24.83	1	. . .						
ATOM 7115	O	O	. HOH HOH HOH S	. 452 452	. 99.131	92.347	13.925	1.00
30.97	1	. . .						
ATOM 7116	O	O	. HOH HOH HOH S	. 453 453	. 104.915	101.443	10.622	1.00
38.48	1	. . .						

ATOM 7117	O	O	. HOH HOH HOH S	. 454 454	. 104.074 99.615	12.902	1.00
31.08	1	. . .					
ATOM 7118	O	O	. HOH HOH HOH S	. 455 455	. 98.196 106.500	12.016	1.00
16.77	1	. . .					
ATOM 7119	O	O	. HOH HOH HOH S	. 456 456	. 100.501 102.619	11.800	1.00
17.12	1	. . .					
ATOM 7120	O	O	. HOH HOH HOH S	. 457 457	. 81.246 87.180	-9.099	1.00
22.00	1	. . .					
ATOM 7121	O	O	. HOH HOH HOH S	. 458 458	. 79.634 85.877	-5.674	1.00
38.60	1	. . .					
ATOM 7122	O	O	. HOH HOH HOH S	. 459 459	. 73.565 110.860	28.649	1.00
20.16	1	. . .					
ATOM 7123	O	O	. HOH HOH HOH S	. 460 460	. 72.750 113.172	27.064	1.00
72.62	1	. . .					
ATOM 7124	O	O	. HOH HOH HOH S	. 461 461	. 74.209 112.727	30.671	1.00
88.43	1	. . .					
ATOM 7125	O	O	. HOH HOH HOH S	. 462 462	. 74.161 110.405	33.036	1.00
25.74	1	. . .					
ATOM 7126	O	O	. HOH HOH HOH S	. 463 463	. 72.222 109.182	32.289	1.00
21.19	1	. . .					
ATOM 7127	O	O	. HOH HOH HOH S	. 464 464	. 68.780 80.066	32.875	1.00
18.92	1	. . .					
ATOM 7128	O	O	. HOH HOH HOH S	. 465 465	. 65.784 76.458	24.802	1.00
32.61	1	. . .					
ATOM 7129	O	O	. HOH HOH HOH S	. 466 466	. 67.599 74.904	17.740	1.00
77.29	1	. . .					
ATOM 7130	O	O	. HOH HOH HOH S	. 467 467	. 67.019 70.640	20.463	1.00
29.79	1	. . .					
ATOM 7131	O	O	. HOH HOH HOH S	. 468 468	. 74.659 113.242	-21.097	1.00
22.20	1	. . .					
ATOM 7132	O	O	. HOH HOH HOH S	. 469 469	. 74.104 117.544	-22.994	1.00
24.89	1	. . .					
ATOM 7133	O	O	. HOH HOH HOH S	. 470 470	. 71.963 113.970	-22.015	1.00
24.88	1	. . .					
ATOM 7134	O	O	. HOH HOH HOH S	. 471 471	. 67.702 129.799	10.696	1.00
45.30	1	. . .					
ATOM 7135	O	O	. HOH HOH HOH S	. 472 472	. 55.220 110.160	-3.325	1.00
34.23	1	. . .					
ATOM 7136	O	O	. HOH HOH HOH S	. 473 473	. 62.738 108.066	-1.795	1.00
25.31	1	. . .					
ATOM 7137	O	O	. HOH HOH HOH S	. 474 474	. 96.433 71.161	18.950	1.00
24.43	1	. . .					
ATOM 7138	O	O	. HOH HOH HOH S	. 475 475	. 94.486 69.977	18.744	1.00
34.47	1	. . .					
ATOM 7139	O	O	. HOH HOH HOH S	. 476 476	. 89.769 76.594	29.232	1.00
23.14	1	. . .					
ATOM 7140	O	O	. HOH HOH HOH S	. 477 477	. 89.074 77.496	31.522	1.00
37.93	1	. . .					
ATOM 7141	O	O	. HOH HOH HOH S	. 478 478	. 90.462 79.796	31.960	1.00
13.91	1	. . .					
ATOM 7142	O	O	. HOH HOH HOH S	. 479 479	. 87.831 119.348	15.436	1.00
22.99	1	. . .					
ATOM 7143	O	O	. HOH HOH HOH S	. 480 480	. 103.457 95.233	46.431	1.00
12.96	1	. . .					

ATOM 7144	O	O	. HOH HOH HOH S	. 481	481	. 91.251	121.977	35.347	1.00
38.63	1	. . .							
ATOM 7145	O	O	. HOH HOH HOH S	. 482	482	. 82.300	91.299	41.506	1.00
75.96	1	. . .							
ATOM 7146	O	O	. HOH HOH HOH S	. 483	483	. 106.126	111.404	10.833	1.00
28.37	1	. . .							
ATOM 7147	O	O	. HOH HOH HOH S	. 484	484	. 70.840	119.457	-21.108	1.00
14.51	1	. . .							
ATOM 7148	O	O	. HOH HOH HOH S	. 485	485	. 70.623	123.911	-16.329	1.00
23.33	1	. . .							
ATOM 7149	O	O	. HOH HOH HOH S	. 486	486	. 68.941	115.908	-19.918	1.00
21.76	1	. . .							
ATOM 7150	O	O	. HOH HOH HOH S	. 487	487	. 103.616	122.314	9.079	1.00
26.91	1	. . .							
ATOM 7151	O	O	. HOH HOH HOH S	. 488	488	. 75.121	118.446	27.196	1.00
43.25	1	. . .							
ATOM 7152	O	O	. HOH HOH HOH S	. 489	489	. 98.545	87.066	-0.635	1.00
36.73	1	. . .							
ATOM 7153	O	O	. HOH HOH HOH S	. 490	490	. 87.657	90.063	-15.376	1.00
29.53	1	. . .							
ATOM 7154	O	O	. HOH HOH HOH S	. 491	491	. 58.188	113.344	19.177	1.00
17.43	1	. . .							
ATOM 7155	O	O	. HOH HOH HOH S	. 492	492	. 96.443	99.000	-16.523	1.00
29.53	1	. . .							
ATOM 7156	O	O	. HOH HOH HOH S	. 493	493	. 68.395	98.278	7.599	1.00
17.09	1	. . .							
ATOM 7157	O	O	. HOH HOH HOH S	. 494	494	. 103.372	81.549	22.290	1.00
31.85	1	. . .							
ATOM 7158	O	O	. HOH HOH HOH S	. 495	495	. 89.484	104.966	-20.018	1.00
19.97	1	. . .							
ATOM 7159	O	O	. HOH HOH HOH S	. 496	496	. 73.799	91.418	-7.545	1.00
29.79	1	. . .							
ATOM 7160	O	O	. HOH HOH HOH S	. 497	497	. 93.022	118.311	-22.469	1.00
14.86	1	. . .							
ATOM 7161	O	O	. HOH HOH HOH S	. 498	498	. 122.671	99.388	31.245	1.00
15.81	1	. . .							
ATOM 7162	O	O	. HOH HOH HOH S	. 499	499	. 103.447	108.781	8.806	1.00
21.71	1	. . .							
ATOM 7163	O	O	. HOH HOH HOH S	. 500	500	. 90.752	122.232	-19.345	1.00
16.70	1	. . .							
ATOM 7164	O	O	. HOH HOH HOH S	. 501	501	. 96.681	91.373	14.148	1.00
17.22	1	. . .							
ATOM 7165	O	O	. HOH HOH HOH S	. 502	502	. 111.180	106.966	9.601	1.00
33.32	1	. . .							
ATOM 7166	O	O	. HOH HOH HOH S	. 503	503	. 95.957	134.980	-10.856	1.00
16.46	1	. . .							
ATOM 7167	O	O	. HOH HOH HOH S	. 504	504	. 91.955	78.306	29.763	1.00
22.09	1	. . .							
ATOM 7168	O	O	. HOH HOH HOH S	. 505	505	. 99.802	112.089	-27.954	1.00
26.10	1	. . .							
ATOM 7169	O	O	. HOH HOH HOH S	. 506	506	. 60.757	93.422	9.157	1.00
38.95	1	. . .							
ATOM 7170	O	O	. HOH HOH HOH S	. 507	507	. 112.044	96.389	39.020	1.00
25.07	1	. . .							

ATOM 7171	O	O	. HOH HOH HOH S	. 508 508	. 68.559	126.517	17.378	1.00
18.74	1	. . .						
ATOM 7172	O	O	. HOH HOH HOH S	. 509 509	. 104.049	106.342	-21.154	1.00
15.67	1	. . .						
ATOM 7173	O	O	. HOH HOH HOH S	. 510 510	. 105.758	97.697	6.490	1.00
22.01	1	. . .						
ATOM 7174	O	O	. HOH HOH HOH S	. 511 511	. 73.317	92.798	-16.261	1.00
28.02	1	. . .						
ATOM 7175	O	O	. HOH HOH HOH S	. 512 512	. 110.547	119.840	15.259	0.50
42.94	1	. . .						
ATOM 7176	O	O	. HOH HOH HOH S	. 513 513	. 77.571	110.793	-21.908	1.00
33.80	1	. . .						
ATOM 7177	O	O	. HOH HOH HOH S	. 514 514	. 117.379	104.992	34.395	1.00
22.90	1	. . .						
ATOM 7178	O	O	. HOH HOH HOH S	. 515 515	. 63.223	123.546	16.038	1.00
13.33	1	. . .						
ATOM 7179	O	O	. HOH HOH HOH S	. 516 516	. 75.329	125.922	21.550	1.00
20.00	1	. . .						
ATOM 7180	O	O	. HOH HOH HOH S	. 517 517	. 111.376	91.432	43.394	1.00
24.15	1	. . .						
ATOM 7181	O	O	. HOH HOH HOH S	. 518 518	. 95.797	91.112	5.266	1.00
32.42	1	. . .						
ATOM 7182	O	O	. HOH HOH HOH S	. 519 519	. 101.117	118.581	-4.860	1.00
20.37	1	. . .						
ATOM 7183	O	O	. HOH HOH HOH S	. 520 520	. 101.300	125.036	-8.900	1.00
25.73	1	. . .						
ATOM 7184	O	O	. HOH HOH HOH S	. 521 521	. 76.156	123.784	25.621	1.00
27.28	1	. . .						
ATOM 7185	O	O	. HOH HOH HOH S	. 522 522	. 84.091	118.250	35.813	1.00
28.70	1	. . .						
ATOM 7186	O	O	. HOH HOH HOH S	. 523 523	. 97.237	83.258	44.225	1.00
15.63	1	. . .						
ATOM 7187	O	O	. HOH HOH HOH S	. 524 524	. 104.042	124.741	24.435	1.00
27.30	1	. . .						
ATOM 7188	O	O	. HOH HOH HOH S	. 525 525	. 62.223	86.041	28.062	1.00
23.14	1	. . .						
ATOM 7189	O	O	. HOH HOH HOH S	. 526 526	. 111.353	101.026	41.763	1.00
21.45	1	. . .						
ATOM 7190	O	O	. HOH HOH HOH S	. 527 527	. 55.264	113.201	19.271	1.00
38.42	1	. . .						
ATOM 7191	O	O	. HOH HOH HOH S	. 528 528	. 71.715	99.710	25.256	1.00
34.68	1	. . .						
ATOM 7192	O	O	. HOH HOH HOH S	. 529 529	. 102.914	113.892	39.594	1.00
20.19	1	. . .						
ATOM 7193	O	O	. HOH HOH HOH S	. 530 530	. 70.507	111.687	24.749	1.00
34.85	1	. . .						
ATOM 7194	O	O	. HOH HOH HOH S	. 531 531	. 100.107	87.860	-6.775	1.00
46.12	1	. . .						
ATOM 7195	O	O	. HOH HOH HOH S	. 532 532	. 112.319	110.514	15.733	1.00
33.36	1	. . .						
ATOM 7196	O	O	. HOH HOH HOH S	. 533 533	. 70.151	104.798	24.228	1.00
23.22	1	. . .						
ATOM 7197	O	O	. HOH HOH HOH S	. 534 534	. 109.114	93.300	19.028	1.00
17.93	1	. . .						

ATOM 7198	O	O	. HOH HOH HOH S	. 537 537	. 85.882	73.466	30.454	1.00
30.59	1	. . .						
ATOM 7199	O	O	. HOH HOH HOH S	. 538 538	. 95.856	103.834	31.589	1.00
15.61	1	. . .						
ATOM 7200	O	O	. HOH HOH HOH S	. 539 539	. 66.451	129.797	0.852	1.00
22.70	1	. . .						
ATOM 7201	O	O	. HOH HOH HOH S	. 540 540	. 72.160	128.366	10.044	1.00
56.81	1	. . .						
ATOM 7202	O	O	. HOH HOH HOH S	. 541 541	. 109.425	117.424	12.608	1.00
23.36	1	. . .						
ATOM 7203	O	O	. HOH HOH HOH S	. 542 542	. 55.097	114.767	-0.609	1.00
24.26	1	. . .						
ATOM 7204	O	O	. HOH HOH HOH S	. 543 543	. 84.281	119.884	11.414	1.00
36.94	1	. . .						
ATOM 7205	O	O	. HOH HOH HOH S	. 544 544	. 88.434	118.338	8.991	1.00
29.42	1	. . .						
ATOM 7206	O	O	. HOH HOH HOH S	. 545 545	. 65.703	112.221	-11.041	1.00
19.13	1	. . .						
ATOM 7207	O	O	. HOH HOH HOH S	. 546 546	. 54.838	115.410	1.951	1.00
28.39	1	. . .						
ATOM 7208	O	O	. HOH HOH HOH S	. 547 547	. 117.561	112.173	21.630	1.00
34.87	1	. . .						
ATOM 7209	O	O	. HOH HOH HOH S	. 548 548	. 84.816	125.817	0.899	1.00
21.56	1	. . .						
ATOM 7210	O	O	. HOH HOH HOH S	. 549 549	. 86.193	123.445	0.996	1.00
38.35	1	. . .						
ATOM 7211	O	O	. HOH HOH HOH S	. 550 550	. 99.776	77.008	3.163	1.00
27.25	1	. . .						
ATOM 7212	O	O	. HOH HOH HOH S	. 552 552	. 77.575	111.215	36.334	1.00
18.15	1	. . .						
ATOM 7213	O	O	. HOH HOH HOH S	. 553 553	. 53.032	113.915	17.850	1.00
30.98	1	. . .						
ATOM 7214	O	O	. HOH HOH HOH S	. 554 554	. 48.420	111.133	7.370	1.00
33.92	1	. . .						
ATOM 7215	O	O	. HOH HOH HOH S	. 555 555	. 84.199	121.717	30.235	1.00
20.50	1	. . .						
ATOM 7216	O	O	. HOH HOH HOH S	. 556 556	. 68.941	92.378	23.916	1.00
14.65	1	. . .						
ATOM 7217	O	O	. HOH HOH HOH S	. 557 557	. 74.584	69.865	26.473	1.00
18.85	1	. . .						
ATOM 7218	O	O	. HOH HOH HOH S	. 558 558	. 61.316	98.080	-8.667	1.00
30.17	1	. . .						
ATOM 7219	O	O	. HOH HOH HOH S	. 559 559	. 113.947	95.109	17.083	1.00
30.65	1	. . .						
ATOM 7220	O	O	. HOH HOH HOH S	. 561 561	. 112.358	89.048	23.841	1.00
20.57	1	. . .						
ATOM 7221	O	O	. HOH HOH HOH S	. 562 562	. 65.171	88.966	31.745	1.00
45.74	1	. . .						
ATOM 7222	O	O	. HOH HOH HOH S	. 563 563	. 91.771	92.032	-15.414	1.00
21.94	1	. . .						
ATOM 7223	O	O	. HOH HOH HOH S	. 564 564	. 105.703	133.807	-0.459	1.00
22.12	1	. . .						
ATOM 7224	O	O	. HOH HOH HOH S	. 565 565	. 76.987	74.879	8.149	1.00
23.71	1	. . .						



ATOM 7225	O	O	. HOH HOH HOH S	. 566 566	. 91.131	98.242	43.247	1.00
18.23	1	. . .						
ATOM 7226	O	O	. HOH HOH HOH S	. 567 567	. 92.126	114.920	11.223	1.00
21.95	1	. . .						
ATOM 7227	O	O	. HOH HOH HOH S	. 568 568	. 73.353	92.854	22.239	1.00
19.05	1	. . .						
ATOM 7228	O	O	. HOH HOH HOH S	. 569 569	. 82.139	97.486	41.006	1.00
64.31	1	. . .						
ATOM 7229	O	O	. HOH HOH HOH S	. 570 570	. 95.846	78.478	29.405	1.00
23.83	1	. . .						
ATOM 7230	O	O	. HOH HOH HOH S	. 572 572	. 102.482	80.095	32.360	1.00
24.83	1	. . .						
ATOM 7231	O	O	. HOH HOH HOH S	. 573 573	. 89.768	72.419	28.110	1.00
51.08	1	. . .						
ATOM 7232	O	O	. HOH HOH HOH S	. 574 574	. 86.960	124.814	26.439	1.00
40.90	1	. . .						
ATOM 7233	O	O	. HOH HOH HOH S	. 575 575	. 85.899	71.742	10.735	1.00
48.48	1	. . .						
ATOM 7234	O	O	. HOH HOH HOH S	. 576 576	. 98.929	117.895	33.882	1.00
34.64	1	. . .						
ATOM 7235	O	O	. HOH HOH HOH S	. 577 577	. 108.394	118.185	10.093	1.00
23.17	1	. . .						
ATOM 7236	O	O	. HOH HOH HOH S	. 578 578	. 77.523	126.988	3.439	1.00
22.29	1	. . .						
ATOM 7237	O	O	. HOH HOH HOH S	. 580 580	. 83.244	76.781	33.901	1.00
38.00	1	. . .						
ATOM 7238	O	O	. HOH HOH HOH S	. 581 581	. 105.931	104.153	-14.345	1.00
30.66	1	. . .						
ATOM 7239	O	O	. HOH HOH HOH S	. 583 583	. 73.334	91.862	4.657	1.00
30.82	1	. . .						
ATOM 7240	O	O	. HOH HOH HOH S	. 584 584	. 82.118	126.373	14.328	1.00
28.91	1	. . .						
ATOM 7241	O	O	. HOH HOH HOH S	. 585 585	. 111.109	97.110	45.831	1.00
25.78	1	. . .						
ATOM 7242	O	O	. HOH HOH HOH S	. 586 586	. 107.317	123.265	13.035	1.00
36.73	1	. . .						
ATOM 7243	O	O	. HOH HOH HOH S	. 589 589	. 76.143	100.274	45.062	1.00
27.50	1	. . .						
ATOM 7244	O	O	. HOH HOH HOH S	. 591 591	. 81.751	92.148	-14.313	1.00
19.46	1	. . .						
ATOM 7245	O	O	. HOH HOH HOH S	. 592 592	. 66.800	97.159	-12.967	1.00
39.07	1	. . .						
ATOM 7246	O	O	. HOH HOH HOH S	. 593 593	. 107.002	92.056	46.679	1.00
20.29	1	. . .						
ATOM 7247	O	O	. HOH HOH HOH S	. 594 594	. 76.893	93.892	-15.192	1.00
40.51	1	. . .						
ATOM 7248	O	O	. HOH HOH HOH S	. 596 596	. 103.036	91.577	-1.079	1.00
27.26	1	. . .						
ATOM 7249	O	O	. HOH HOH HOH S	. 597 597	. 114.031	105.384	41.734	1.00
27.98	1	. . .						
ATOM 7250	O	O	. HOH HOH HOH S	. 598 598	. 72.021	81.163	-3.697	1.00
35.70	1	. . .						
ATOM 7251	O	O	. HOH HOH HOH S	. 599 599	. 105.706	98.723	8.857	1.00
20.98	1	. . .						

ATOM 7252	O	O	. HOH HOH HOH S	. 601 601	. 87.884 81.939	-0.159	1.00
25.25	1	. . .					
ATOM 7253	O	O	. HOH HOH HOH S	. 602 602	. 94.043 101.137	-17.398	1.00
21.38	1	. . .					
ATOM 7254	O	O	. HOH HOH HOH S	. 603 603	. 106.346 124.141	-4.116	1.00
29.62	1	. . .					
ATOM 7255	O	O	. HOH HOH HOH S	. 604 604	. 98.127 90.579	-12.905	1.00
28.45	1	. . .					
ATOM 7256	O	O	. HOH HOH HOH S	. 605 605	. 90.610 122.028	-27.170	1.00
51.40	1	. . .					
ATOM 7257	O	O	. HOH HOH HOH S	. 606 606	. 80.941 110.249	43.226	1.00
21.64	1	. . .					
ATOM 7258	O	O	. HOH HOH HOH S	. 607 607	. 76.725 93.150	16.417	1.00
21.94	1	. . .					
ATOM 7259	O	O	. HOH HOH HOH S	. 608 608	. 74.086 96.791	21.417	1.00
35.32	1	. . .					
ATOM 7260	O	O	. HOH HOH HOH S	. 609 609	. 71.764 92.895	36.994	1.00
15.94	1	. . .					
ATOM 7261	O	O	. HOH HOH HOH S	. 612 612	. 76.514 83.033	-0.757	1.00
33.86	1	. . .					
ATOM 7262	O	O	. HOH HOH HOH S	. 613 613	. 110.224 98.817	-2.901	1.00
37.21	1	. . .					
ATOM 7263	O	O	. HOH HOH HOH S	. 614 614	. 93.958 123.661	19.810	1.00
41.67	1	. . .					
ATOM 7264	O	O	. HOH HOH HOH S	. 615 615	. 114.310 101.025	39.362	1.00
56.14	1	. . .					
ATOM 7265	O	O	. HOH HOH HOH S	. 616 616	. 102.740 116.325	37.412	1.00
29.73	1	. . .					
ATOM 7266	O	O	. HOH HOH HOH S	. 617 617	. 114.474 118.072	26.255	1.00
28.97	1	. . .					
ATOM 7267	O	O	. HOH HOH HOH S	. 618 618	. 96.778 120.832	13.622	1.00
30.49	1	. . .					
ATOM 7268	O	O	. HOH HOH HOH S	. 620 620	. 84.049 83.100	39.195	1.00
54.88	1	. . .					
ATOM 7269	O	O	. HOH HOH HOH S	. 621 621	. 96.055 111.246	-27.057	1.00
27.03	1	. . .					
ATOM 7270	O	O	. HOH HOH HOH S	. 623 623	. 77.708 107.605	-21.565	1.00
16.01	1	. . .					
ATOM 7271	O	O	. HOH HOH HOH S	. 626 626	. 57.235 108.921	20.480	1.00
40.26	1	. . .					
ATOM 7272	O	O	. HOH HOH HOH S	. 630 630	. 86.486 83.524	41.720	1.00
24.46	1	. . .					
ATOM 7273	O	O	. HOH HOH HOH S	. 632 632	. 79.714 88.416	-7.070	1.00
53.33	1	. . .					
ATOM 7274	O	O	. HOH HOH HOH S	. 633 633	. 72.628 89.814	38.882	1.00
26.51	1	. . .					
ATOM 7275	O	O	. HOH HOH HOH S	. 634 634	. 102.678 118.634	-17.871	1.00
35.37	1	. . .					
ATOM 7276	O	O	. HOH HOH HOH S	. 635 635	. 71.672 96.815	7.681	1.00
27.17	1	. . .					
ATOM 7277	O	O	. HOH HOH HOH S	. 636 636	. 84.477 92.639	-15.393	1.00
26.28	1	. . .					

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loop\_

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0.0076 -0.0099 1 .
2  CA CA . SER SER SER A A 1 1 . 0.2077 0.1588 0.2098 -0.0061
0.0142 -0.0030 1 .
3  CB CB . SER SER SER A A 1 1 . 0.2097 0.1802 0.2318 -0.0163
0.0107 0.0036 1 .
4  OG OG . SER SER SER A A 1 1 . 0.2973 0.1943 0.2270 -0.0501 -
0.0178 0.0184 1 .
5  C  C  . SER SER SER A A 1 1 . 0.1686 0.1478 0.1952 0.0020
0.0120 0.0034 1 .
6  O  O  . SER SER SER A A 1 1 . 0.1863 0.1011 0.1786 0.0172
0.0192 -0.0134 1 .
7  N  N  . ILE ILE ILE A A 2 2 . 0.1811 0.1225 0.1631 0.0040
0.0245 0.0003 1 .
8  CA CA . ILE ILE ILE A A 2 2 . 0.1195 0.0794 0.1222 0.0006
0.0131 -0.0010 1 .
9  CB CB . ILE ILE ILE A A 2 2 . 0.1403 0.0649 0.1211 -0.0055
0.0175 0.0154 1 .
10 CG1 CG1 . ILE ILE ILE A A 2 2 . 0.1124 0.0900 0.0989 -0.0043
0.0241 -0.0243 1 .
11 CD1 CD1 . ILE ILE ILE A A 2 2 . 0.1237 0.0746 0.1566 0.0040
0.0134 -0.0263 1 .
12 CG2 CG2 . ILE ILE ILE A A 2 2 . 0.0933 0.0429 0.1058 0.0066
0.0184 0.0205 1 .
13 C  C  . ILE ILE ILE A A 2 2 . 0.1215 0.0987 0.1354 -0.0038
0.0108 0.0007 1 .
14 O  O  . ILE ILE ILE A A 2 2 . 0.0886 0.0740 0.1220 -0.0225
0.0276 -0.0053 1 .
15 N  N  . GLN GLN GLN A A 3 3 . 0.0945 0.0787 0.1410 0.0007
0.0045 0.0018 1 .
16 CA CA . GLN GLN GLN A A 3 3 . 0.1052 0.0744 0.1401 -0.0016
0.0035 -0.0051 1 .
17 CB CB . GLN GLN GLN A A 3 3 . 0.1231 0.0720 0.1532 0.0068
0.0027 -0.0023 1 .

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45	CD1	CD1	. TRP TRP TRP A A 6 6 .	0.1479	0.1209	0.1120	-0.0339	-
	0.0007	-0.0067	1 .					
46	NE1	NE1	. TRP TRP TRP A A 6 6 .	0.0885	0.1364	0.0674	-0.0193	-
	0.0349	0.0030	1 .					
47	CE2	CE2	. TRP TRP TRP A A 6 6 .	0.1310	0.1170	0.1417	0.0254	
	0.0109	-0.0037	1 .					
48	CD2	CD2	. TRP TRP TRP A A 6 6 .	0.0952	0.0775	0.0817	-0.0345	-
	0.0197	-0.0252	1 .					
49	CE3	CE3	. TRP TRP TRP A A 6 6 .	0.1542	0.0718	0.1064	0.0010	-
	0.0001	0.0218	1 .					
50	CZ3	CZ3	. TRP TRP TRP A A 6 6 .	0.0994	0.0802	0.1678	-0.0358	-
	0.0161	-0.0147	1 .					
51	CH2	CH2	. TRP TRP TRP A A 6 6 .	0.1280	0.1100	0.1155	-0.0001	-
	0.0221	-0.0193	1 .					
52	CZ2	CZ2	. TRP TRP TRP A A 6 6 .	0.1417	0.1060	0.0880	-0.0192	-
	0.0094	-0.0259	1 .					
53	C	C	. TRP TRP TRP A A 6 6 .	0.0267	0.0253	0.0263	0.0000	
	0.0012	0.0000	1 .					
54	O	O	. TRP TRP TRP A A 6 6 .	0.0325	0.0273	0.0598	-0.0012	
	0.0099	-0.0077	1 .					
55	N	N	. ALA ALA ALA A A 7 7 .	0.0410	0.0404	0.0473	-0.0147	-
	0.0032	0.0083	1 .					
56	CA	CA	. ALA ALA ALA A A 7 7 .	0.0335	0.0275	0.0309	-0.0043	-
	0.0068	0.0035	1 .					
57	CB	CB	. ALA ALA ALA A A 7 7 .	0.0575	0.0514	0.0420	-0.0126	-
	0.0202	0.0171	1 .					
58	C	C	. ALA ALA ALA A A 7 7 .	0.0353	0.0265	0.0293	-0.0035	-
	0.0063	0.0022	1 .					
59	O	O	. ALA ALA ALA A A 7 7 .	0.0423	0.0283	0.0271	0.0066	-
	0.0050	-0.0015	1 .					
60	N	N	. ARG ARG ARG A A 8 8 .	0.0290	0.0254	0.0280	0.0000	-
	0.0030	-0.0001	1 .					
61	CA	CA	. ARG ARG ARG A A 8 8 .	0.0262	0.0254	0.0273	-0.0002	
	0.0013	-0.0004	1 .					
62	CB	CB	. ARG ARG ARG A A 8 8 .	0.0253	0.0253	0.0253	0.0000	
	0.0000	0.0000	1 .					
63	CG	CG	. ARG ARG ARG A A 8 8 .	0.0722	0.0285	0.0431	0.0048	
	0.0002	0.0069	1 .					
64	CD	CD	. ARG ARG ARG A A 8 8 .	0.0337	0.0264	0.0325	-0.0029	-
	0.0078	0.0027	1 .					
65	NE	NE	. ARG ARG ARG A A 8 8 .	0.0323	0.0357	0.0255	-0.0016	-
	0.0001	0.0015	1 .					
66	CZ	CZ	. ARG ARG ARG A A 8 8 .	0.0259	0.0336	0.0276	0.0023	-
	0.0005	-0.0023	1 .					
67	NH1	NH1	. ARG ARG ARG A A 8 8 .	0.0416	0.0328	0.0814	-0.0005	-
	0.0248	-0.0108	1 .					
68	NH2	NH2	. ARG ARG ARG A A 8 8 .	0.0414	0.0541	0.0493	0.0058	
	0.0021	0.0070	1 .					
69	C	C	. ARG ARG ARG A A 8 8 .	0.0272	0.0392	0.0309	0.0050	
	0.0013	0.0046	1 .					
70	O	O	. ARG ARG ARG A A 8 8 .	0.0293	0.0269	0.0259	-0.0025	
	0.0015	-0.0009	1 .					
71	N	N	. GLU GLU GLU A A 9 9 .	0.0302	0.0341	0.0341	0.0050	
	0.0001	0.0057	1 .					



























369	CA	CA	. ARG ARG ARG A A 49 49 .	0.0649	0.0530	0.0443	-0.0015	
			0.0117 -0.0052 1 .					
370	CB	CB	. ARG ARG ARG A A 49 49 .	0.0816	0.0325	0.0620	0.0137	
			0.0022 -0.0056 1 .					
371	CG	CG	. ARG ARG ARG A A 49 49 .	0.1384	0.0385	0.1078	-0.0148	
			0.0216 -0.0325 1 .					
372	CD	CD	. ARG ARG ARG A A 49 49 .	0.1255	0.1220	0.1517	0.0560	
			0.0065 -0.0492 1 .					
373	NE	NE	. ARG ARG ARG A A 49 49 .	0.0858	0.0685	0.0808	0.0286	-
			0.0012 -0.0305 1 .					
374	CZ	CZ	. ARG ARG ARG A A 49 49 .	0.0661	0.0708	0.0619	0.0260	-
			0.0006 -0.0329 1 .					
375	NH1	NH1	. ARG ARG ARG A A 49 49 .	0.0594	0.0482	0.1027	-0.0094	
			0.0000 -0.0103 1 .					
376	NH2	NH2	. ARG ARG ARG A A 49 49 .	0.0703	0.0591	0.0799	0.0109	-
			0.0041 -0.0421 1 .					
377	C	C	. ARG ARG ARG A A 49 49 .	0.0580	0.0437	0.0472	0.0177	
			0.0050 0.0014 1 .					
378	O	O	. ARG ARG ARG A A 49 49 .	0.0904	0.0609	0.0548	0.0337	-
			0.0067 -0.0083 1 .					
379	N	N	. ASP ASP ASP A A 50 50 .	0.0569	0.0310	0.0397	0.0044	
			0.0106 -0.0059 1 .					
380	CA	CA	. ASP ASP ASP A A 50 50 .	0.0608	0.0570	0.0539	0.0108	-
			0.0046 -0.0150 1 .					
381	CB	CB	. ASP ASP ASP A A 50 50 .	0.0426	0.0269	0.0289	-0.0041	
			0.0007 -0.0017 1 .					
382	CG	CG	. ASP ASP ASP A A 50 50 .	0.0255	0.0356	0.0314	-0.0015	
			0.0012 -0.0079 1 .					
383	OD1	OD1	. ASP ASP ASP A A 50 50 .	0.0345	0.0258	0.0264	-0.0021	
			0.0032 -0.0007 1 .					
384	OD2	OD2	. ASP ASP ASP A A 50 50 .	0.0782	0.0483	0.0305	-0.0029	
			0.0109 -0.0087 1 .					
385	C	C	. ASP ASP ASP A A 50 50 .	0.0766	0.0428	0.0818	0.0126	
			0.0100 -0.0055 1 .					
386	O	O	. ASP ASP ASP A A 50 50 .	0.1081	0.0314	0.0715	0.0181	
			0.0281 0.0066 1 .					
387	N	N	. GLY GLY GLY A A 51 51 .	0.0952	0.0913	0.1122	-0.0025	-
			0.0036 0.0000 1 .					
388	CA	CA	. GLY GLY GLY A A 51 51 .	0.0990	0.0961	0.1058	0.0080	
			0.0127 -0.0062 1 .					
389	C	C	. GLY GLY GLY A A 51 51 .	0.1121	0.1114	0.1199	0.0220	
			0.0142 0.0108 1 .					
390	O	O	. GLY GLY GLY A A 51 51 .	0.1685	0.1567	0.1569	0.0266	
			0.0447 0.0147 1 .					
391	N	N	. ASP ASP ASP A A 52 52 .	0.1236	0.0975	0.1008	0.0222	-
			0.0026 0.0100 1 .					
392	CA	CA	. ASP ASP ASP A A 52 52 .	0.1291	0.1263	0.1391	0.0148	
			0.0137 0.0034 1 .					
393	CB	CB	. ASP ASP ASP A A 52 52 .	0.1387	0.1215	0.1320	0.0208	-
			0.0042 -0.0029 1 .					
394	CG	CG	. ASP ASP ASP A A 52 52 .	0.1596	0.1596	0.1442	0.0163	
			0.0183 0.0046 1 .					
395	OD1	OD1	. ASP ASP ASP A A 52 52 .	0.2286	0.2472	0.0450	0.0026	
			0.0189 -0.0497 1 .					































774	CD	CD	.	LYS	LYS	LYS	A	A	102	102	.	0.0354	0.0426	0.0254	0.0132	-
												0.0011	-0.0014	1	.	
775	CE	CE	.	LYS	LYS	LYS	A	A	102	102	.	0.0299	0.0585	0.0460	0.0102	
												0.0096	0.0239	1	.	
776	NZ	NZ	.	LYS	LYS	LYS	A	A	102	102	.	0.0284	0.0346	0.0476	0.0035	
												0.0047	-0.0034	1	.	
777	C	C	.	LYS	LYS	LYS	A	A	102	102	.	0.0364	0.0254	0.0360	-0.0001	
												0.0074	-0.0008	1	.	
778	O	O	.	LYS	LYS	LYS	A	A	102	102	.	0.0297	0.0331	0.0324	0.0058	-
												0.0056	-0.0074	1	.	
779	N	N	.	SER	SER	SER	A	A	103	103	.	0.0444	0.0394	0.0263	0.0164	-
												0.0043	-0.0037	1	.	
780	CA	CA	.	SER	SER	SER	A	A	103	103	.	0.0377	0.0334	0.0580	0.0081	
												0.0087	-0.0028	1	.	
781	CB	CB	.	SER	SER	SER	A	A	103	103	.	0.0634	0.0644	0.0513	0.0223	
												0.0062	-0.0217	1	.	
782	OG	OG	.	SER	SER	SER	A	A	103	103	.	0.0695	0.1533	0.1612	0.0354	
												0.0670	-0.0047	1	.	
783	C	C	.	SER	SER	SER	A	A	103	103	.	0.0587	0.0608	0.0428	-0.0076	
												0.0057	-0.0076	1	.	
784	O	O	.	SER	SER	SER	A	A	103	103	.	0.0557	0.0593	0.0758	-0.0031	
												0.0128	-0.0402	1	.	
785	N	N	.	LYS	LYS	LYS	A	A	104	104	.	0.0567	0.0264	0.0466	-0.0057	
												0.0062	0.0000	1	.	
786	CA	CA	.	LYS	LYS	LYS	A	A	104	104	.	0.0776	0.0538	0.0588	0.0069	
												0.0069	-0.0056	1	.	
787	CB	CB	.	LYS	LYS	LYS	A	A	104	104	.	0.0808	0.0335	0.0300	0.0200	-
												0.0039	0.0005	1	.	
788	CG	CG	.	LYS	LYS	LYS	A	A	104	104	.	0.0433	0.0515	0.0943	-0.0207	
												0.0018	0.0083	1	.	
789	CD	CD	.	LYS	LYS	LYS	A	A	104	104	.	0.0988	0.1121	0.1599	-0.0400	-
												0.0533	0.0201	1	.	
790	CE	CE	.	LYS	LYS	LYS	A	A	104	104	.	0.1589	0.1039	0.1619	-0.0321	
												0.0063	0.0356	1	.	
791	NZ	NZ	.	LYS	LYS	LYS	A	A	104	104	.	0.1512	0.0874	0.0555	-0.0200	
												0.0270	-0.0422	1	.	
792	C	C	.	LYS	LYS	LYS	A	A	104	104	.	0.0393	0.0678	0.0315	0.0018	-
												0.0043	-0.0135	1	.	
793	O	O	.	LYS	LYS	LYS	A	A	104	104	.	0.0724	0.0747	0.0544	0.0140	
												0.0039	0.0088	1	.	
794	N	N	.	PHE	PHE	PHE	A	A	105	105	.	0.0258	0.0266	0.0361	0.0008	-
												0.0023	-0.0037	1	.	
795	CA	CA	.	PHE	PHE	PHE	A	A	105	105	.	0.0429	0.0277	0.0262	-0.0064	-
												0.0039	0.0014	1	.	
796	CB	CB	.	PHE	PHE	PHE	A	A	105	105	.	0.0595	0.0327	0.0529	0.0087	-
												0.0037	0.0108	1	.	
797	CG	CG	.	PHE	PHE	PHE	A	A	105	105	.	0.0814	0.0326	0.0579	-0.0009	-
												0.0107	-0.0148	1	.	
798	CD1	CD1	.	PHE	PHE	PHE	A	A	105	105	.	0.1065	0.0293	0.0843	-0.0159	-
												0.0221	0.0113	1	.	
799	CE1	CE1	.	PHE	PHE	PHE	A	A	105	105	.	0.0401	0.0873	0.0726	-0.0303	-
												0.0018	0.0037	1	.	
800	CZ	CZ	.	PHE	PHE	PHE	A	A	105	105	.	0.0328	0.0754	0.1033	0.0161	
												0.0085	-0.0143	1	.	











909	N	N	. ALA ALA ALA A A 123 123 .	0.0621	0.0423	0.0771	-0.0064	-
			0.0099 0.0106 1 .					
910	CA	CA	. ALA ALA ALA A A 123 123 .	0.0959	0.0647	0.1061	0.0111	-
			0.0004 -0.0023 1 .					
911	CB	CB	. ALA ALA ALA A A 123 123 .	0.1143	0.0598	0.1017	-0.0084	
			0.0223 -0.0056 1 .					
912	C	C	. ALA ALA ALA A A 123 123 .	0.0867	0.1013	0.1068	0.0058	
			0.0027 0.0078 1 .					
913	O	O	. ALA ALA ALA A A 123 123 .	0.0988	0.0936	0.1274	0.0011	
			0.0217 0.0278 1 .					
914	N	N	. GLU GLU GLU A A 124 124 .	0.0967	0.0903	0.1456	-0.0113	
			0.0249 0.0009 1 .					
915	CA	CA	. GLU GLU GLU A A 124 124 .	0.1140	0.1116	0.1344	-0.0095	
			0.0146 -0.0007 1 .					
916	CB	CB	. GLU GLU GLU A A 124 124 .	0.1178	0.1153	0.1595	-0.0080	
			0.0119 -0.0234 1 .					
917	CG	CG	. GLU GLU GLU A A 124 124 .	0.1976	0.1695	0.1832	-0.0464	
			0.0000 -0.0108 1 .					
918	CD	CD	. GLU GLU GLU A A 124 124 .	0.2119	0.2625	0.2372	-0.0133	-
			0.0265 -0.0129 1 .					
919	OE1	OE1	. GLU GLU GLU A A 124 124 .	0.1788	0.2504	0.2259	-0.0656	-
			0.0345 -0.0284 1 .					
920	OE2	OE2	. GLU GLU GLU A A 124 124 .	0.2523	0.3800	0.3117	0.0092	
			0.0320 -0.0401 1 .					
921	C	C	. GLU GLU GLU A A 124 124 .	0.1099	0.1190	0.1381	-0.0005	
			0.0100 -0.0222 1 .					
922	O	O	. GLU GLU GLU A A 124 124 .	0.1029	0.1399	0.1458	-0.0170	
			0.0035 -0.0297 1 .					
923	N	N	. ARG ARG ARG A A 125 125 .	0.1050	0.1213	0.1141	0.0171	-
			0.0116 -0.0194 1 .					
924	CA	CA	. ARG ARG ARG A A 125 125 .	0.1111	0.1375	0.1125	0.0058	
			0.0136 -0.0076 1 .					
925	CB	CB	. ARG ARG ARG A A 125 125 .	0.0984	0.1215	0.1043	0.0099	
			0.0011 -0.0018 1 .					
926	CG	CG	. ARG ARG ARG A A 125 125 .	0.1146	0.1567	0.1405	-0.0009	
			0.0291 0.0131 1 .					
927	CD	CD	. ARG ARG ARG A A 125 125 .	0.1251	0.0461	0.0873	-0.0441	
			0.0259 -0.0027 1 .					
928	NE	NE	. ARG ARG ARG A A 125 125 .	0.1840	0.1279	0.0968	-0.0304	
			0.0078 0.0243 1 .					
929	CZ	CZ	. ARG ARG ARG A A 125 125 .	0.1488	0.0803	0.1008	-0.0284	-
			0.0072 -0.0159 1 .					
930	NH1	NH1	. ARG ARG ARG A A 125 125 .	0.2159	0.1435	0.1575	-0.0230	-
			0.0075 -0.0212 1 .					
931	NH2	NH2	. ARG ARG ARG A A 125 125 .	0.1415	0.1392	0.0899	0.0361	-
			0.0027 -0.0098 1 .					
932	C	C	. ARG ARG ARG A A 125 125 .	0.1077	0.1259	0.1113	-0.0009	
			0.0002 -0.0174 1 .					
933	O	O	. ARG ARG ARG A A 125 125 .	0.1336	0.1498	0.1466	-0.0099	
			0.0202 -0.0152 1 .					
934	N	N	. GLU GLU GLU A A 126 126 .	0.1306	0.1169	0.1349	0.0074	
			0.0031 -0.0131 1 .					
935	CA	CA	. GLU GLU GLU A A 126 126 .	0.1482	0.1403	0.1679	0.0053	
			0.0035 -0.0098 1 .					















1098	N	N	. PRO PRO PRO A A 147 147 .	0.0253	0.0253	0.0253	0.0000	
0.0000	0.0000	1 .						
1099	CA	CA	. PRO PRO PRO A A 147 147 .	0.0271	0.0253	0.0260	0.0000	
0.0011	0.0000	1 .						
1100	CB	CB	. PRO PRO PRO A A 147 147 .	0.0357	0.0269	0.0256	0.0041	-
0.0019	-0.0007	1 .						
1101	CG	CG	. PRO PRO PRO A A 147 147 .	0.0750	0.0255	0.0546	-0.0030	
0.0011	0.0005	1 .						
1102	CD	CD	. PRO PRO PRO A A 147 147 .	0.0330	0.0318	0.0281	0.0070	-
0.0046	-0.0043	1 .						
1103	C	C	. PRO PRO PRO A A 147 147 .	0.0445	0.0279	0.0327	-0.0006	
0.0115	0.0008	1 .						
1104	O	O	. PRO PRO PRO A A 147 147 .	0.0382	0.0266	0.0277	-0.0041	-
0.0055	0.0017	1 .						
1105	N	N	. ALA ALA ALA A A 148 148 .	0.0297	0.0263	0.0289	0.0021	
0.0039	0.0019	1 .						
1106	CA	CA	. ALA ALA ALA A A 148 148 .	0.0548	0.0368	0.0295	-0.0104	-
0.0107	0.0023	1 .						
1107	CB	CB	. ALA ALA ALA A A 148 148 .	0.0311	0.0271	0.0255	-0.0032	-
0.0009	0.0005	1 .						
1108	C	C	. ALA ALA ALA A A 148 148 .	0.0430	0.0298	0.0292	-0.0056	
0.0083	-0.0028	1 .						
1109	O	O	. ALA ALA ALA A A 148 148 .	0.0343	0.0256	0.0261	0.0016	-
0.0026	-0.0005	1 .						
1110	N	N	. PHE PHE PHE A A 149 149 .	0.0495	0.0287	0.0255	0.0090	-
0.0021	-0.0008	1 .						
1111	CA	CA	. PHE PHE PHE A A 149 149 .	0.0283	0.0254	0.0302	0.0006	-
0.0038	-0.0008	1 .						
1112	CB	CB	. PHE PHE PHE A A 149 149 .	0.0307	0.0255	0.0304	-0.0010	-
0.0052	0.0009	1 .						
1113	CG	CG	. PHE PHE PHE A A 149 149 .	0.0270	0.0278	0.0270	0.0011	
0.0017	0.0013	1 .						
1114	CD1	CD1	. PHE PHE PHE A A 149 149 .	0.0426	0.0253	0.0302	0.0007	-
0.0092	-0.0004	1 .						
1115	CE1	CE1	. PHE PHE PHE A A 149 149 .	0.0387	0.0270	0.0302	-0.0048	
0.0080	-0.0029	1 .						
1116	CZ	CZ	. PHE PHE PHE A A 149 149 .	0.0476	0.0339	0.0543	0.0138	-
0.0254	-0.0158	1 .						
1117	CE2	CE2	. PHE PHE PHE A A 149 149 .	0.0253	0.0253	0.0253	0.0000	
0.0000	0.0000	1 .						
1118	CD2	CD2	. PHE PHE PHE A A 149 149 .	0.0253	0.0253	0.0253	0.0000	
0.0000	0.0000	1 .						
1119	C	C	. PHE PHE PHE A A 149 149 .	0.0275	0.0257	0.0256	-0.0009	
0.0008	-0.0003	1 .						
1120	O	O	. PHE PHE PHE A A 149 149 .	0.0309	0.0260	0.0274	-0.0019	
0.0034	-0.0012	1 .						
1121	N	N	. ASN ASN ASN A A 150 150 .	0.0253	0.0253	0.0253	0.0000	
0.0000	0.0000	1 .						
1122	CA	CA	. ASN ASN ASN A A 150 150 .	0.0268	0.0254	0.0264	-0.0004	
0.0013	-0.0003	1 .						
1123	CB	CB	. ASN ASN ASN A A 150 150 .	0.0253	0.0253	0.0253	0.0000	
0.0000	0.0000	1 .						
1124	CG	CG	. ASN ASN ASN A A 150 150 .	0.0303	0.0316	0.0318	0.0055	-
0.0056	-0.0063	1 .						





1179	C	C	. ALA ALA ALA A A 158 158 .	0.0703	0.0714	0.0848	-0.0039
0.0138	-0.0184	1 .					
1180	O	O	. ALA ALA ALA A A 158 158 .	0.0941	0.0935	0.1309	-0.0115
0.0116	-0.0296	1 .					
1181	N	N	. GLY GLY GLY A A 159 159 .	0.0929	0.0842	0.0917	-0.0271
0.0309	-0.0089	1 .					
1182	CA	CA	. GLY GLY GLY A A 159 159 .	0.0709	0.0917	0.1056	-0.0081
0.0351	-0.0077	1 .					
1183	C	C	. GLY GLY GLY A A 159 159 .	0.0992	0.1056	0.1166	-0.0166
0.0116	0.0014	1 .					
1184	O	O	. GLY GLY GLY A A 159 159 .	0.1428	0.0765	0.1083	-0.0114
0.0227	-0.0133	1 .					
1185	N	N	. ASN ASN ASN A A 160 160 .	0.0536	0.0944	0.1078	-0.0165
0.0039	0.0041	1 .					
1186	CA	CA	. ASN ASN ASN A A 160 160 .	0.0730	0.0675	0.0939	-0.0053
0.0121	-0.0272	1 .					
1187	CB	CB	. ASN ASN ASN A A 160 160 .	0.0528	0.0912	0.0944	-0.0176
0.0230	-0.0141	1 .					
1188	CG	CG	. ASN ASN ASN A A 160 160 .	0.0416	0.0458	0.0505	-0.0014
0.0021	-0.0033	1 .					
1189	OD1	OD1	. ASN ASN ASN A A 160 160 .	0.0420	0.0474	0.0797	0.0029
0.0132	-0.0284	1 .					
1190	ND2	ND2	. ASN ASN ASN A A 160 160 .	0.0456	0.0497	0.0671	-0.0155
0.0079	-0.0280	1 .					
1191	C	C	. ASN ASN ASN A A 160 160 .	0.0837	0.0916	0.0967	-0.0047
0.0140	-0.0079	1 .					
1192	O	O	. ASN ASN ASN A A 160 160 .	0.0851	0.0585	0.0702	0.0028
0.0181	-0.0243	1 .					
1193	N	N	. LYS LYS LYS A A 161 161 .	0.1080	0.0963	0.1102	0.0004
0.0118	-0.0254	1 .					
1194	CA	CA	. LYS LYS LYS A A 161 161 .	0.0889	0.1074	0.1070	-0.0078
0.0108	-0.0081	1 .					
1195	CB	CB	. LYS LYS LYS A A 161 161 .	0.1070	0.1378	0.1396	-0.0265
0.0425	-0.0055	1 .					
1196	CG	CG	. LYS LYS LYS A A 161 161 .	0.0925	0.1664	0.1106	-0.0223
0.0094	-0.0272	1 .					
1197	CD	CD	. LYS LYS LYS A A 161 161 .	0.1248	0.2447	0.2302	-0.0575
0.0165	-0.0133	1 .					
1198	CE	CE	. LYS LYS LYS A A 161 161 .	0.1706	0.2668	0.1964	-0.0866 -
0.0245	-0.0354	1 .					
1199	NZ	NZ	. LYS LYS LYS A A 161 161 .	0.1939	0.3240	0.3435	-0.1126 -
0.0373	-0.0242	1 .					
1200	C	C	. LYS LYS LYS A A 161 161 .	0.0882	0.0818	0.1065	0.0076
0.0149	-0.0058	1 .					
1201	O	O	. LYS LYS LYS A A 161 161 .	0.1089	0.1076	0.1082	-0.0004
0.0040	0.0068	1 .					
1202	N	N	. LEU LEU LEU A A 162 162 .	0.0749	0.0770	0.1004	-0.0013
0.0214	-0.0027	1 .					
1203	CA	CA	. LEU LEU LEU A A 162 162 .	0.0473	0.0582	0.0714	0.0137 -
0.0055	0.0087	1 .					
1204	CB	CB	. LEU LEU LEU A A 162 162 .	0.0400	0.0794	0.0722	0.0223
0.0019	0.0093	1 .					
1205	CG	CG	. LEU LEU LEU A A 162 162 .	0.0254	0.0411	0.0413	0.0014 -
0.0014	-0.0158	1 .					

1206	CD1	CD1	. LEU LEU LEU A A 162 162 .	0.0267	0.0835	0.0390	0.0089	-
	0.0043	-0.0282	1 .					
1207	CD2	CD2	. LEU LEU LEU A A 162 162 .	0.0600	0.0411	0.0768	0.0231	-
	0.0178	-0.0075	1 .					
1208	C	C	. LEU LEU LEU A A 162 162 .	0.0531	0.0483	0.0690	-0.0069	-
	0.0095	-0.0146	1 .					
1209	O	O	. LEU LEU LEU A A 162 162 .	0.0502	0.0585	0.0785	-0.0050	-
	0.0178	-0.0190	1 .					
1210	N	N	. ALA ALA ALA A A 163 163 .	0.0338	0.0378	0.0637	0.0096	-
	0.0039	-0.0121	1 .					
1211	CA	CA	. ALA ALA ALA A A 163 163 .	0.0345	0.0470	0.0468	0.0073	-
	0.0131	-0.0037	1 .					
1212	CB	CB	. ALA ALA ALA A A 163 163 .	0.0390	0.0405	0.0592	0.0009	-
	0.0214	-0.0039	1 .					
1213	C	C	. ALA ALA ALA A A 163 163 .	0.0255	0.0393	0.0368	0.0019	-
	0.0017	-0.0127	1 .					
1214	O	O	. ALA ALA ALA A A 163 163 .	0.0518	0.0696	0.0734	0.0052	
	0.0151	-0.0035	1 .					
1215	N	N	. MET MET MET A A 164 164 .	0.0342	0.0443	0.0445	-0.0090	
	0.0014	-0.0150	1 .					
1216	CA	CA	. MET MET MET A A 164 164 .	0.0323	0.0514	0.0441	0.0058	-
	0.0088	-0.0201	1 .					
1217	CB	CB	. MET MET MET A A 164 164 .	0.0310	0.0441	0.0405	-0.0045	-
	0.0046	-0.0094	1 .					
1218	CG	CG	. MET MET MET A A 164 164 .	0.0752	0.0412	0.0373	0.0212	-
	0.0174	-0.0010	1 .					
1219	SD	SD	. MET MET MET A A 164 164 .	0.0895	0.0767	0.0978	-0.0029	-
	0.0172	-0.0294	1 .					
1220	CE	CE	. MET MET MET A A 164 164 .	0.0850	0.0399	0.1021	-0.0009	-
	0.0394	-0.0265	1 .					
1221	C	C	. MET MET MET A A 164 164 .	0.0330	0.0451	0.0526	-0.0076	-
	0.0051	0.0139	1 .					
1222	O	O	. MET MET MET A A 164 164 .	0.0432	0.0516	0.0623	-0.0150	-
	0.0044	0.0097	1 .					
1223	N	N	. GLN GLN GLN A A 165 165 .	0.0269	0.0338	0.0638	-0.0037	
	0.0050	-0.0103	1 .					
1224	CA	CA	. GLN GLN GLN A A 165 165 .	0.0334	0.0311	0.0382	0.0050	-
	0.0043	-0.0080	1 .					
1225	CB	CB	. GLN GLN GLN A A 165 165 .	0.0257	0.0273	0.0324	0.0008	-
	0.0016	-0.0037	1 .					
1226	CG	CG	. GLN GLN GLN A A 165 165 .	0.0374	0.0452	0.0288	-0.0155	
	0.0065	-0.0083	1 .					
1227	CD	CD	. GLN GLN GLN A A 165 165 .	0.0260	0.0365	0.0450	0.0014	
	0.0001	-0.0124	1 .					
1228	OE1	OE1	. GLN GLN GLN A A 165 165 .	0.0391	0.0413	0.0703	-0.0116	-
	0.0028	-0.0141	1 .					
1229	NE2	NE2	. GLN GLN GLN A A 165 165 .	0.0253	0.0353	0.0371	0.0000	
	0.0000	-0.0109	1 .					
1230	C	C	. GLN GLN GLN A A 165 165 .	0.0254	0.0253	0.0258	0.0000	-
	0.0002	0.0000	1 .					
1231	O	O	. GLN GLN GLN A A 165 165 .	0.0542	0.0457	0.0372	-0.0024	
	0.0185	-0.0023	1 .					
1232	N	N	. GLU GLU GLU A A 166 166 .	0.0522	0.0281	0.0418	0.0047	-
	0.0068	-0.0066	1 .					





1260	N	N	. ILE ILE ILE A A 169 169 .	0.0332	0.0286	0.0310	0.0012	
0.0003	0.0042	1 .						
1261	CA	CA	. ILE ILE ILE A A 169 169 .	0.0436	0.0285	0.0256	0.0066	
0.0018	0.0003	1 .						
1262	CB	CB	. ILE ILE ILE A A 169 169 .	0.0273	0.0303	0.0311	-0.0031	-
0.0034	0.0054	1 .						
1263	CG1	CG1	. ILE ILE ILE A A 169 169 .	0.0257	0.0305	0.0281	-0.0015	-
0.0011	0.0038	1 .						
1264	CD1	CD1	. ILE ILE ILE A A 169 169 .	0.0312	0.0261	0.0382	0.0022	-
0.0087	-0.0033	1 .						
1265	CG2	CG2	. ILE ILE ILE A A 169 169 .	0.0642	0.0536	0.0420	-0.0298	
0.0006	0.0090	1 .						
1266	C	C	. ILE ILE ILE A A 169 169 .	0.0289	0.0270	0.0391	0.0025	-
0.0070	-0.0049	1 .						
1267	O	O	. ILE ILE ILE A A 169 169 .	0.0318	0.0306	0.0384	0.0057	-
0.0083	-0.0065	1 .						
1268	N	N	. LEU LEU LEU A A 170 170 .	0.0258	0.0271	0.0274	0.0009	-
0.0010	-0.0019	1 .						
1269	CA	CA	. LEU LEU LEU A A 170 170 .	0.0519	0.0416	0.0268	-0.0001	-
0.0020	-0.0048	1 .						
1270	CB	CB	. LEU LEU LEU A A 170 170 .	0.0424	0.0253	0.0332	-0.0001	-
0.0116	0.0001	1 .						
1271	CG	CG	. LEU LEU LEU A A 170 170 .	0.0418	0.0300	0.0662	0.0042	
0.0253	0.0091	1 .						
1272	CD1	CD1	. LEU LEU LEU A A 170 170 .	0.0422	0.0434	0.0668	0.0175	
0.0265	0.0274	1 .						
1273	CD2	CD2	. LEU LEU LEU A A 170 170 .	0.1222	0.0795	0.0585	0.0160	
0.0038	0.0407	1 .						
1274	C	C	. LEU LEU LEU A A 170 170 .	0.0311	0.0261	0.0258	0.0021	-
0.0017	-0.0006	1 .						
1275	O	O	. LEU LEU LEU A A 170 170 .	0.0404	0.0253	0.0307	-0.0005	-
0.0090	0.0003	1 .						
1276	N	N	. PRO PRO PRO A A 171 171 .	0.0254	0.0419	0.0300	-0.0014	
0.0007	-0.0088	1 .						
1277	CA	CA	. PRO PRO PRO A A 171 171 .	0.0314	0.0390	0.0310	0.0013	-
0.0051	-0.0054	1 .						
1278	CB	CB	. PRO PRO PRO A A 171 171 .	0.0253	0.0253	0.0253	0.0000	
0.0000	0.0000	1 .						
1279	CG	CG	. PRO PRO PRO A A 171 171 .	0.0732	0.0430	0.0457	0.0180	
0.0027	-0.0138	1 .						
1280	CD	CD	. PRO PRO PRO A A 171 171 .	0.0260	0.0255	0.0265	0.0004	-
0.0009	-0.0005	1 .						
1281	C	C	. PRO PRO PRO A A 171 171 .	0.0253	0.0253	0.0253	0.0000	
0.0000	0.0000	1 .						
1282	O	O	. PRO PRO PRO A A 171 171 .	0.0299	0.0356	0.0373	-0.0068	
0.0074	-0.0111	1 .						
1283	N	N	. VAL VAL VAL A A 172 172 .	0.0283	0.0262	0.0327	-0.0013	
0.0041	-0.0011	1 .						
1284	CA	CA	. VAL VAL VAL A A 172 172 .	0.0371	0.0282	0.0287	-0.0058	-
0.0063	0.0031	1 .						
1285	CB	CB	. VAL VAL VAL A A 172 172 .	0.0729	0.0368	0.0503	0.0197	-
0.0057	0.0019	1 .						
1286	CG1	CG1	. VAL VAL VAL A A 172 172 .	0.0304	0.0348	0.0256	0.0069	-
0.0013	-0.0018	1 .						



1314	N	N	. PHE PHE PHE A A 177 177 .	0.0253	0.0253	0.0253	0.0000	
0.0000	0.0000	1 .						
1315	CA	CA	. PHE PHE PHE A A 177 177 .	0.0364	0.0362	0.0304	0.0043	-
0.0020	-0.0073	1 .						
1316	CB	CB	. PHE PHE PHE A A 177 177 .	0.0645	0.0332	0.0318	0.0046	
0.0069	0.0021	1 .						
1317	CG	CG	. PHE PHE PHE A A 177 177 .	0.0263	0.0424	0.0288	0.0041	-
0.0018	-0.0078	1 .						
1318	CD1	CD1	. PHE PHE PHE A A 177 177 .	0.0706	0.0447	0.0899	0.0079	
0.0168	0.0353	1 .						
1319	CE1	CE1	. PHE PHE PHE A A 177 177 .	0.0472	0.0284	0.0262	-0.0081	-
0.0028	0.0012	1 .						
1320	CZ	CZ	. PHE PHE PHE A A 177 177 .	0.0472	0.0274	0.0453	-0.0018	
0.0009	-0.0063	1 .						
1321	CE2	CE2	. PHE PHE PHE A A 177 177 .	0.0324	0.0270	0.0292	-0.0035	-
0.0052	0.0026	1 .						
1322	CD2	CD2	. PHE PHE PHE A A 177 177 .	0.0259	0.0267	0.0271	-0.0009	-
0.0010	0.0016	1 .						
1323	C	C	. PHE PHE PHE A A 177 177 .	0.0253	0.0278	0.0273	0.0000	
0.0000	-0.0022	1 .						
1324	O	O	. PHE PHE PHE A A 177 177 .	0.0467	0.0350	0.0337	0.0070	
0.0092	0.0087	1 .						
1325	N	N	. ARG ARG ARG A A 178 178 .	0.0323	0.0276	0.0253	-0.0040	
0.0003	-0.0002	1 .						
1326	CA	CA	. ARG ARG ARG A A 178 178 .	0.0286	0.0342	0.0355	0.0051	
0.0045	0.0055	1 .						
1327	CB	CB	. ARG ARG ARG A A 178 178 .	0.0261	0.0268	0.0283	0.0011	
0.0015	0.0021	1 .						
1328	CG	CG	. ARG ARG ARG A A 178 178 .	0.1445	0.0765	0.1231	0.0130	-
0.0089	0.0264	1 .						
1329	CD	CD	. ARG ARG ARG A A 178 178 .	0.1706	0.1953	0.2579	-0.0211	-
0.0219	0.0055	1 .						
1330	NE	NE	. ARG ARG ARG A A 178 178 .	0.3190	0.2787	0.3114	-0.0081	-
0.0163	0.0205	1 .						
1331	CZ	CZ	. ARG ARG ARG A A 178 178 .	0.3017	0.2673	0.3118	-0.0070	-
0.0050	-0.0046	1 .						
1332	NH1	NH1	. ARG ARG ARG A A 178 178 .	0.3048	0.2291	0.3320	0.0133	-
0.0342	-0.0157	1 .						
1333	NH2	NH2	. ARG ARG ARG A A 178 178 .	0.1835	0.3171	0.3241	-0.0423	-
0.0131	-0.0099	1 .						
1334	C	C	. ARG ARG ARG A A 178 178 .	0.0389	0.0337	0.0349	0.0098	
0.0056	0.0011	1 .						
1335	O	O	. ARG ARG ARG A A 178 178 .	0.0325	0.0312	0.0332	0.0065	
0.0075	0.0068	1 .						
1336	N	N	. ASP ASP ASP A A 179 179 .	0.0342	0.0348	0.0412	0.0067	
0.0011	-0.0075	1 .						
1337	CA	CA	. ASP ASP ASP A A 179 179 .	0.0280	0.0346	0.0320	0.0025	
0.0015	-0.0049	1 .						
1338	CB	CB	. ASP ASP ASP A A 179 179 .	0.0567	0.0261	0.0584	-0.0050	
0.0322	-0.0051	1 .						
1339	CG	CG	. ASP ASP ASP A A 179 179 .	0.0961	0.0759	0.0558	0.0062	
0.0095	-0.0311	1 .						
1340	OD1	OD1	. ASP ASP ASP A A 179 179 .	0.1115	0.1268	0.0648	-0.0270	-
0.0196	-0.0179	1 .						



1368	N	N	. LEU LEU LEU A A 183 183 .	0.0253	0.0253	0.0253	0.0000	
0.0000	0.0000	1 .						
1369	CA	CA	. LEU LEU LEU A A 183 183 .	0.0268	0.0262	0.0319	0.0011	-
0.0031	-0.0025	1 .						
1370	CB	CB	. LEU LEU LEU A A 183 183 .	0.0388	0.0297	0.0392	0.0070	-
0.0105	-0.0075	1 .						
1371	CG	CG	. LEU LEU LEU A A 183 183 .	0.0454	0.0290	0.0258	0.0086	
0.0031	0.0013	1 .						
1372	CD1	CD1	. LEU LEU LEU A A 183 183 .	0.0438	0.0577	0.0416	-0.0244	
0.0010	-0.0026	1 .						
1373	CD2	CD2	. LEU LEU LEU A A 183 183 .	0.1108	0.0381	0.0467	-0.0285	-
0.0314	0.0048	1 .						
1374	C	C	. LEU LEU LEU A A 183 183 .	0.0487	0.0319	0.0274	-0.0124	
0.0069	-0.0037	1 .						
1375	O	O	. LEU LEU LEU A A 183 183 .	0.0334	0.0410	0.0569	-0.0070	
0.0157	-0.0170	1 .						
1376	N	N	. GLY GLY GLY A A 184 184 .	0.0351	0.0256	0.0383	-0.0016	
0.0112	-0.0019	1 .						
1377	CA	CA	. GLY GLY GLY A A 184 184 .	0.0537	0.0295	0.0305	-0.0036	
0.0116	-0.0028	1 .						
1378	C	C	. GLY GLY GLY A A 184 184 .	0.0386	0.0308	0.0345	0.0079	
0.0019	-0.0014	1 .						
1379	O	O	. GLY GLY GLY A A 184 184 .	0.0364	0.0253	0.0371	-0.0006	
0.0114	-0.0006	1 .						
1380	N	N	. ALA ALA ALA A A 185 185 .	0.0343	0.0331	0.0399	-0.0026	
0.0022	-0.0106	1 .						
1381	CA	CA	. ALA ALA ALA A A 185 185 .	0.0349	0.0270	0.0486	-0.0034	
0.0109	-0.0014	1 .						
1382	CB	CB	. ALA ALA ALA A A 185 185 .	0.0524	0.0281	0.0561	0.0087	-
0.0030	0.0001	1 .						
1383	C	C	. ALA ALA ALA A A 185 185 .	0.0396	0.0280	0.0534	-0.0014	
0.0127	-0.0078	1 .						
1384	O	O	. ALA ALA ALA A A 185 185 .	0.0754	0.0258	0.0394	0.0048	
0.0265	0.0025	1 .						
1385	N	N	. GLU GLU GLU A A 186 186 .	0.0323	0.0263	0.0254	-0.0026	-
0.0009	0.0003	1 .						
1386	CA	CA	. GLU GLU GLU A A 186 186 .	0.0253	0.0253	0.0255	0.0000	
0.0000	0.0000	1 .						
1387	CB	CB	. GLU GLU GLU A A 186 186 .	0.0433	0.0284	0.0306	0.0074	
0.0098	0.0040	1 .						
1388	CG	CG	. GLU GLU GLU A A 186 186 .	0.0263	0.0391	0.0488	0.0037	-
0.0048	-0.0180	1 .						
1389	CD	CD	. GLU GLU GLU A A 186 186 .	0.0438	0.0537	0.0556	0.0197	
0.0106	-0.0020	1 .						
1390	OE1	OE1	. GLU GLU GLU A A 186 186 .	0.0864	0.0650	0.0690	-0.0007	-
0.0099	-0.0074	1 .						
1391	OE2	OE2	. GLU GLU GLU A A 186 186 .	0.0489	0.0574	0.0651	0.0048	-
0.0247	-0.0202	1 .						
1392	C	C	. GLU GLU GLU A A 186 186 .	0.0304	0.0290	0.0266	-0.0043	
0.0025	-0.0021	1 .						
1393	O	O	. GLU GLU GLU A A 186 186 .	0.0512	0.0331	0.0466	-0.0034	
0.0143	-0.0118	1 .						
1394	N	N	. VAL VAL VAL A A 187 187 .	0.0308	0.0274	0.0316	-0.0033	
0.0058	-0.0036	1 .						





















































































































2772	CG	CG	. TRP TRP TRP A A 364 364 .	0.0987	0.0702	0.0609	0.0080	-
	0.0173	-0.0327	1 .					
2773	CD1	CD1	. TRP TRP TRP A A 364 364 .	0.0975	0.0747	0.0691	0.0208	-
	0.0345	-0.0442	1 .					
2774	NE1	NE1	. TRP TRP TRP A A 364 364 .	0.1067	0.1120	0.0532	0.0088	-
	0.0075	-0.0386	1 .					
2775	CE2	CE2	. TRP TRP TRP A A 364 364 .	0.1126	0.0934	0.0627	0.0484	-
	0.0079	-0.0320	1 .					
2776	CD2	CD2	. TRP TRP TRP A A 364 364 .	0.0674	0.0338	0.0394	-0.0073	
	0.0182	0.0035	1 .					
2777	CE3	CE3	. TRP TRP TRP A A 364 364 .	0.0655	0.0767	0.0487	0.0068	-
	0.0289	-0.0164	1 .					
2778	CZ3	CZ3	. TRP TRP TRP A A 364 364 .	0.0679	0.0432	0.0878	0.0020	-
	0.0449	0.0142	1 .					
2779	CH2	CH2	. TRP TRP TRP A A 364 364 .	0.0807	0.0554	0.0946	-0.0044	-
	0.0558	-0.0152	1 .					
2780	CZ2	CZ2	. TRP TRP TRP A A 364 364 .	0.1093	0.0797	0.0395	0.0158	
	0.0259	0.0226	1 .					
2781	C	C	. TRP TRP TRP A A 364 364 .	0.0653	0.0573	0.0490	-0.0004	
	0.0185	-0.0222	1 .					
2782	O	O	. TRP TRP TRP A A 364 364 .	0.0743	0.0667	0.0478	0.0021	
	0.0042	-0.0255	1 .					
2783	N	N	. GLY GLY GLY A A 365 365 .	0.0938	0.0508	0.0544	0.0385	-
	0.0037	0.0037	1 .					
2784	CA	CA	. GLY GLY GLY A A 365 365 .	0.0450	0.0616	0.0371	0.0228	-
	0.0071	-0.0016	1 .					
2785	C	C	. GLY GLY GLY A A 365 365 .	0.0443	0.0410	0.0648	-0.0008	-
	0.0130	-0.0037	1 .					
2786	O	O	. GLY GLY GLY A A 365 365 .	0.0386	0.0356	0.0484	0.0117	-
	0.0175	-0.0154	1 .					
2787	N	N	. VAL VAL VAL A A 366 366 .	0.0498	0.0521	0.0350	-0.0136	
	0.0003	-0.0138	1 .					
2788	CA	CA	. VAL VAL VAL A A 366 366 .	0.0322	0.0515	0.0261	-0.0127	
	0.0020	-0.0044	1 .					
2789	CB	CB	. VAL VAL VAL A A 366 366 .	0.0387	0.0495	0.0378	-0.0053	-
	0.0062	-0.0120	1 .					
2790	CG1	CG1	. VAL VAL VAL A A 366 366 .	0.0341	0.0773	0.0503	0.0129	-
	0.0143	-0.0137	1 .					
2791	CG2	CG2	. VAL VAL VAL A A 366 366 .	0.0297	0.0300	0.0270	-0.0045	
	0.0027	-0.0028	1 .					
2792	C	C	. VAL VAL VAL A A 366 366 .	0.0380	0.0394	0.0381	0.0033	
	0.0030	-0.0022	1 .					
2793	O	O	. VAL VAL VAL A A 366 366 .	0.0262	0.0264	0.0253	0.0009	-
	0.0001	-0.0001	1 .					
2794	N	N	. MET MET MET A A 367 367 .	0.0316	0.0299	0.0286	0.0054	
	0.0046	0.0039	1 .					
2795	CA	CA	. MET MET MET A A 367 367 .	0.0483	0.0306	0.0308	-0.0099	-
	0.0106	0.0038	1 .					
2796	CB	CB	. MET MET MET A A 367 367 .	0.0376	0.0304	0.0292	0.0079	
	0.0069	0.0045	1 .					
2797	CG	CG	. MET MET MET A A 367 367 .	0.0401	0.0426	0.0344	0.0160	-
	0.0116	-0.0125	1 .					
2798	SD	SD	. MET MET MET A A 367 367 .	0.0721	0.0501	0.0339	-0.0012	-
	0.0088	-0.0084	1 .					



2826	CA	CA	. ARG ARG ARG A A	371 371	. 0.0305 0.0256 0.0334 -0.0013 -
	0.0065	0.0016	1 .		
2827	CB	CB	. ARG ARG ARG A A	371 371	. 0.0256 0.0271 0.0265 -0.0007
	0.0006	-0.0014	1 .		
2828	CG	CG	. ARG ARG ARG A A	371 371	. 0.0253 0.0253 0.0253 0.0000
	0.0000	0.0000	1 .		
2829	CD	CD	. ARG ARG ARG A A	371 371	. 0.0253 0.0253 0.0253 0.0000
	0.0000	0.0000	1 .		
2830	NE	NE	. ARG ARG ARG A A	371 371	. 0.0289 0.0396 0.0303 0.0069 -
	0.0041	-0.0084	1 .		
2831	CZ	CZ	. ARG ARG ARG A A	371 371	. 0.0253 0.0253 0.0253 0.0000
	0.0000	0.0000	1 .		
2832	NH1	NH1	. ARG ARG ARG A A	371 371	. 0.0253 0.0253 0.0253 0.0000
	0.0000	0.0000	1 .		
2833	NH2	NH2	. ARG ARG ARG A A	371 371	. 0.0329 0.0253 0.0259 -0.0006 -
	0.0022	0.0001	1 .		
2834	C	C	. ARG ARG ARG A A	371 371	. 0.0290 0.0308 0.0271 -0.0045 -
	0.0026	0.0031	1 .		
2835	O	O	. ARG ARG ARG A A	371 371	. 0.0256 0.0253 0.0253 0.0000
	0.0001	0.0000	1 .		
2836	N	N	. SER SER SER A A	372 372	. 0.0253 0.0374 0.0254 -0.0005
	0.0000	0.0013	1 .		
2837	CA	CA	. SER SER SER A A	372 372	. 0.0869 0.0332 0.0536 0.0040 -
	0.0060	0.0113	1 .		
2838	CB	CB	. SER SER SER A A	372 372	. 0.0632 0.0936 0.0373 -0.0376 -
	0.0015	0.0207	1 .		
2839	OG	OG	. SER SER SER A A	372 372	. 0.2631 0.2267 0.1281 -0.0630 -
	0.0385	0.0292	1 .		
2840	C	C	. SER SER SER A A	372 372	. 0.0536 0.0354 0.0255 -0.0024
	0.0021	-0.0010	1 .		
2841	O	O	. SER SER SER A A	372 372	. 0.0253 0.0253 0.0253 0.0000
	0.0000	0.0000	1 .		
2842	N	N	. GLY GLY GLY A A	373 373	. 0.0433 0.0451 0.0276 -0.0157
	0.0047	-0.0015	1 .		
2843	CA	CA	. GLY GLY GLY A A	373 373	. 0.0259 0.0253 0.0256 0.0000 -
	0.0004	0.0000	1 .		
2844	C	C	. GLY GLY GLY A A	373 373	. 0.0264 0.0288 0.0255 -0.0019
	0.0005	-0.0009	1 .		
2845	O	O	. GLY GLY GLY A A	373 373	. 0.0447 0.0320 0.0410 0.0114
	0.0174	0.0102	1 .		
2846	N	N	. GLU GLU GLU A A	374 374	. 0.0332 0.0270 0.0256 -0.0037
	0.0016	-0.0007	1 .		
2847	CA	CA	. GLU GLU GLU A A	374 374	. 0.0451 0.0253 0.0253 -0.0008
	0.0000	0.0000	1 .		
2848	CB	CB	. GLU GLU GLU A A	374 374	. 0.0461 0.0259 0.0262 -0.0034
	0.0043	-0.0007	1 .		
2849	CG	CG	. GLU GLU GLU A A	374 374	. 0.0253 0.0253 0.0253 0.0000
	0.0000	0.0000	1 .		
2850	CD	CD	. GLU GLU GLU A A	374 374	. 0.0256 0.0296 0.0307 -0.0012
	0.0013	-0.0048	1 .		
2851	OE1	OE1	. GLU GLU GLU A A	374 374	. 0.0253 0.0253 0.0253 0.0000
	0.0000	0.0000	1 .		
2852	OE2	OE2	. GLU GLU GLU A A	374 374	. 0.0253 0.0253 0.0253 0.0000
	0.0000	0.0000	1 .		





























3177	CG	CG	. LEU LEU LEU A A 416 416 .	0.1217	0.1590	0.0470	0.0029	
0.0287	0.0428	1 .						
3178	CD1	CD1	. LEU LEU LEU A A 416 416 .	0.1184	0.2153	0.1575	0.0649	
0.0182	0.0018	1 .						
3179	CD2	CD2	. LEU LEU LEU A A 416 416 .	0.1875	0.1266	0.2152	-0.0325	
0.0217	0.0455	1 .						
3180	C	C	. LEU LEU LEU A A 416 416 .	0.1914	0.1765	0.1541	-0.0102	
0.0378	0.0041	1 .						
3181	O	O	. LEU LEU LEU A A 416 416 .	0.2044	0.2066	0.1374	-0.0288	
0.0464	0.0002	1 .						
3182	N	N	. GLY GLY GLY A A 417 417 .	0.2252	0.2142	0.1818	-0.0009	
0.0399	0.0216	1 .						
3183	CA	CA	. GLY GLY GLY A A 417 417 .	0.2872	0.2723	0.2681	-0.0017	
0.0337	-0.0035	1 .						
3184	C	C	. GLY GLY GLY A A 417 417 .	0.3087	0.3210	0.3097	-0.0093	
0.0157	-0.0046	1 .						
3185	O	O	. GLY GLY GLY A A 417 417 .	0.3182	0.3505	0.3274	-0.0153	
0.0358	-0.0194	1 .						
3186	N	N	. ASP ASP ASP A A 418 418 .	0.3498	0.3627	0.3440	-0.0077	
0.0160	-0.0149	1 .						
3187	CA	CA	. ASP ASP ASP A A 418 418 .	0.3704	0.3941	0.3771	-0.0099	
0.0011	-0.0085	1 .						
3188	CB	CB	. ASP ASP ASP A A 418 418 .	0.3879	0.4022	0.3776	-0.0095	
0.0046	-0.0095	1 .						
3189	CG	CG	. ASP ASP ASP A A 418 418 .	0.4300	0.4274	0.4327	-0.0211	-
0.0065	0.0059	1 .						
3190	OD1	OD1	. ASP ASP ASP A A 418 418 .	0.4497	0.4404	0.4473	-0.0134	-
0.0269	0.0041	1 .						
3191	OD2	OD2	. ASP ASP ASP A A 418 418 .	0.5007	0.4922	0.4387	-0.0434	-
0.0053	0.0369	1 .						
3192	C	C	. ASP ASP ASP A A 418 418 .	0.3698	0.3894	0.3785	-0.0100	
0.0042	-0.0066	1 .						
3193	O	O	. ASP ASP ASP A A 418 418 .	0.3892	0.4102	0.4017	-0.0070	
0.0065	-0.0063	1 .						
3194	N	N	. GLU GLU GLU A A 419 419 .	0.3647	0.3902	0.3755	-0.0086	
0.0068	-0.0056	1 .						
3195	CA	CA	. GLU GLU GLU A A 419 419 .	0.3637	0.3785	0.3667	-0.0050	
0.0071	-0.0042	1 .						
3196	CB	CB	. GLU GLU GLU A A 419 419 .	0.3652	0.3944	0.3742	-0.0073	
0.0113	-0.0043	1 .						
3197	CG	CG	. GLU GLU GLU A A 419 419 .	0.4342	0.4299	0.4266	0.0125	
0.0273	0.0066	1 .						
3198	CD	CD	. GLU GLU GLU A A 419 419 .	0.5191	0.4893	0.5013	-0.0102	
0.0333	0.0002	1 .						
3199	OE1	OE1	. GLU GLU GLU A A 419 419 .	0.5432	0.5099	0.5287	0.0093	
0.0621	0.0088	1 .						
3200	OE2	OE2	. GLU GLU GLU A A 419 419 .	0.5323	0.4884	0.5125	0.0200	
0.0421	-0.0119	1 .						
3201	C	C	. GLU GLU GLU A A 419 419 .	0.3426	0.3461	0.3417	-0.0117	
0.0039	-0.0087	1 .						
3202	O	O	. GLU GLU GLU A A 419 419 .	0.3374	0.3266	0.3205	-0.0212	-
0.0084	0.0066	1 .						
3203	N	N	. ALA ALA ALA A A 420 420 .	0.3175	0.3167	0.3097	-0.0021	-
0.0036	-0.0133	1 .						









3312	CD2	CD2	. LEU LEU LEU A A 433 433 .	0.2306	0.1939	0.1021	-0.0202
0.0770	-0.0375	1 .					
3313	C	C	. LEU LEU LEU A A 433 433 .	0.2253	0.2232	0.1649	-0.0179 -
0.0118	0.0059	1 .					
3314	O	O	. LEU LEU LEU A A 433 433 .	0.2510	0.2593	0.1943	-0.0197 -
0.0326	-0.0140	1 .					
3315	MG+2	MG+2	. MG2 MG2 MG2 A . 600 600 .	0.0260	0.0266	0.0361	0.0009 -
0.0028	-0.0037	1 .					
3316	MG+2	MG+2	. MG2 MG2 MG2 A . 601 601 .	0.0254	0.0303	0.0440	0.0007 -
0.0013	-0.0096	1 .					
3317	O4P	O4P	. 2PG 2PG 2PG A . 602 602 .	0.0330	0.0325	0.0446	-0.0074 -
0.0121	0.0117	1 .					
3318	P	P	. 2PG 2PG 2PG A . 602 602 .	0.0253	0.0253	0.0253	0.0000
0.0000	0.0000	1 .					
3319	O2P	O2P	. 2PG 2PG 2PG A . 602 602 .	0.0283	0.0270	0.0463	-0.0005
0.0028	-0.0058	1 .					
3320	O3P	O3P	. 2PG 2PG 2PG A . 602 602 .	0.0258	0.0276	0.0260	0.0010
0.0005	0.0012	1 .					
3321	O1P	O1P	. 2PG 2PG 2PG A . 602 602 .	0.0353	0.0337	0.0336	-0.0023
0.0038	-0.0082	1 .					
3322	C2	C2	. 2PG 2PG 2PG A . 602 602 .	0.0700	0.0734	0.0746	0.0022
0.0320	-0.0085	1 .					
3323	C1	C1	. 2PG 2PG 2PG A . 602 602 .	0.0527	0.1013	0.0902	0.0018
0.0274	-0.0098	1 .					
3324	O2	O2	. 2PG 2PG 2PG A . 602 602 .	0.0499	0.0513	0.0733	0.0027
0.0238	-0.0225	1 .					
3325	O1	O1	. 2PG 2PG 2PG A . 602 602 .	0.0330	0.0280	0.0737	0.0030 -
0.0079	-0.0108	1 .					
3326	C3	C3	. 2PG 2PG 2PG A . 602 602 .	0.0535	0.1264	0.1576	-0.0094 -
0.0155	-0.0085	1 .					
3327	O3	O3	. 2PG 2PG 2PG A . 602 602 .	0.0965	0.1145	0.0880	0.0224 -
0.0161	0.0238	1 .					
3328	O	O	. HOH HOH HOH A . 603 603 .	0.0259	0.0351	0.0312	0.0024 -
0.0019	-0.0076	1 .					
3329	O	O	. HOH HOH HOH A . 604 604 .	0.0285	0.0362	0.0439	0.0059 -
0.0077	-0.0142	1 .					
3330	O	O	. HOH HOH HOH A . 605 605 .	0.0281	0.0274	0.0483	-0.0017 -
0.0026	-0.0029	1 .					
3331	O3	O3	. TRS TRS TRS A . 606 606 .	0.3116	0.2822	0.3373	-0.0471
0.0208	-0.0055	1 .					
3332	C3	C3	. TRS TRS TRS A . 606 606 .	0.2979	0.2807	0.3250	-0.0137
0.0112	-0.0137	1 .					
3333	C	C	. TRS TRS TRS A . 606 606 .	0.2823	0.2634	0.2975	-0.0221
0.0088	-0.0189	1 .					
3334	N	N	. TRS TRS TRS A . 606 606 .	0.2921	0.2533	0.2860	-0.0145
0.0079	-0.0154	1 .					
3335	C2	C2	. TRS TRS TRS A . 606 606 .	0.2977	0.2816	0.3009	-0.0114
0.0083	-0.0206	1 .					
3336	O2	O2	. TRS TRS TRS A . 606 606 .	0.2286	0.2754	0.3276	-0.0673
0.0187	-0.0217	1 .					
3337	C1	C1	. TRS TRS TRS A . 606 606 .	0.2792	0.2581	0.2843	-0.0163
0.0009	-0.0205	1 .					
3338	O1	O1	. TRS TRS TRS A . 606 606 .	0.2289	0.1798	0.2329	-0.0175 -
0.0189	-0.0796	1 .					

3339	N	N	. SER SER SER B B 1	1	. 0.2658 0.2741 0.2524 0.0007
0.0014	-0.0015	1 .			
3340	CA	CA	. SER SER SER B B 1	1	. 0.2535 0.2637 0.2546 -0.0041
0.0058	0.0048	1 .			
3341	CB	CB	. SER SER SER B B 1	1	. 0.2629 0.2696 0.2597 -0.0136
0.0159	0.0055	1 .			
3342	OG	OG	. SER SER SER B B 1	1	. 0.3120 0.3270 0.2485 -0.0461
0.0207	0.0248	1 .			
3343	C	C	. SER SER SER B B 1	1	. 0.2426 0.2419 0.2396 0.0071
0.0055	0.0070	1 .			
3344	O	O	. SER SER SER B B 1	1	. 0.2568 0.2559 0.2320 0.0132
0.0040	0.0096	1 .			
3345	N	N	. ILE ILE ILE B B 2	2	. 0.2046 0.1969 0.2025 0.0202
0.0080	0.0009	1 .			
3346	CA	CA	. ILE ILE ILE B B 2	2	. 0.1772 0.1613 0.1742 0.0220
0.0116	0.0008	1 .			
3347	CB	CB	. ILE ILE ILE B B 2	2	. 0.1711 0.1584 0.1628 0.0137
0.0275	-0.0051	1 .			
3348	CG1	CG1	. ILE ILE ILE B B 2	2	. 0.1654 0.1344 0.1420 0.0082
0.0352	0.0275	1 .			
3349	CD1	CD1	. ILE ILE ILE B B 2	2	. 0.1614 0.1042 0.1891 0.0096 -
0.0392	0.0129	1 .			
3350	CG2	CG2	. ILE ILE ILE B B 2	2	. 0.1550 0.1771 0.1666 0.0501 -
0.0021	-0.0375	1 .			
3351	C	C	. ILE ILE ILE B B 2	2	. 0.1670 0.1656 0.1798 0.0188
0.0139	0.0007	1 .			
3352	O	O	. ILE ILE ILE B B 2	2	. 0.1194 0.1615 0.1761 0.0196 -
0.0006	0.0088	1 .			
3353	N	N	. GLN GLN GLN B B 3	3	. 0.1514 0.1395 0.1597 0.0204
0.0106	0.0107	1 .			
3354	CA	CA	. GLN GLN GLN B B 3	3	. 0.1836 0.1857 0.1860 0.0124
0.0128	0.0150	1 .			
3355	CB	CB	. GLN GLN GLN B B 3	3	. 0.1767 0.1827 0.2029 0.0189
0.0052	0.0074	1 .			
3356	CG	CG	. GLN GLN GLN B B 3	3	. 0.2098 0.2113 0.2342 0.0024
0.0065	0.0037	1 .			
3357	CD	CD	. GLN GLN GLN B B 3	3	. 0.2489 0.2302 0.2869 0.0204 -
0.0239	-0.0015	1 .			
3358	OE1	OE1	. GLN GLN GLN B B 3	3	. 0.2510 0.2357 0.2832 0.0492 -
0.0408	-0.0062	1 .			
3359	NE2	NE2	. GLN GLN GLN B B 3	3	. 0.2729 0.2945 0.3512 -0.0007 -
0.0109	0.0007	1 .			
3360	C	C	. GLN GLN GLN B B 3	3	. 0.1640 0.1805 0.1668 0.0184
0.0139	0.0130	1 .			
3361	O	O	. GLN GLN GLN B B 3	3	. 0.1737 0.2086 0.1695 0.0353
0.0284	0.0132	1 .			
3362	N	N	. LYS LYS LYS B B 4	4	. 0.1356 0.1654 0.1407 0.0232
0.0218	0.0109	1 .			
3363	CA	CA	. LYS LYS LYS B B 4	4	. 0.1320 0.1431 0.1089 0.0166
0.0244	0.0160	1 .			
3364	CB	CB	. LYS LYS LYS B B 4	4	. 0.1071 0.1382 0.1098 0.0180
0.0398	0.0422	1 .			
3365	CG	CG	. LYS LYS LYS B B 4	4	. 0.1787 0.2178 0.1287 0.0115
0.0329	0.0335	1 .			































3717	N	N	. ASP ASP ASP B B 50 50 .	0.0947	0.0580	0.0347	0.0285	
0.0023	-0.0129	1 .						
3718	CA	CA	. ASP ASP ASP B B 50 50 .	0.1133	0.0603	0.0905	0.0176	
0.0034	-0.0248	1 .						
3719	CB	CB	. ASP ASP ASP B B 50 50 .	0.0833	0.0636	0.0472	0.0250	-
0.0083	-0.0013	1 .						
3720	CG	CG	. ASP ASP ASP B B 50 50 .	0.0863	0.0716	0.0752	0.0348	-
0.0033	-0.0381	1 .						
3721	OD1	OD1	. ASP ASP ASP B B 50 50 .	0.0478	0.0700	0.0472	0.0316	
0.0195	0.0262	1 .						
3722	OD2	OD2	. ASP ASP ASP B B 50 50 .	0.0999	0.0704	0.0281	0.0388	-
0.0044	-0.0102	1 .						
3723	C	C	. ASP ASP ASP B B 50 50 .	0.1236	0.0865	0.1007	0.0127	-
0.0100	-0.0069	1 .						
3724	O	O	. ASP ASP ASP B B 50 50 .	0.1640	0.0962	0.1065	0.0332	-
0.0128	-0.0158	1 .						
3725	N	N	. GLY GLY GLY B B 51 51 .	0.1256	0.0786	0.0921	0.0161	
0.0091	-0.0089	1 .						
3726	CA	CA	. GLY GLY GLY B B 51 51 .	0.1306	0.1032	0.1395	0.0095	-
0.0115	0.0071	1 .						
3727	C	C	. GLY GLY GLY B B 51 51 .	0.1784	0.1179	0.1670	-0.0001	
0.0005	-0.0065	1 .						
3728	O	O	. GLY GLY GLY B B 51 51 .	0.2007	0.1029	0.1587	-0.0262	-
0.0194	-0.0196	1 .						
3729	N	N	. ASP ASP ASP B B 52 52 .	0.1630	0.1282	0.1508	0.0026	
0.0041	-0.0042	1 .						
3730	CA	CA	. ASP ASP ASP B B 52 52 .	0.1840	0.1392	0.1592	0.0040	
0.0041	-0.0171	1 .						
3731	CB	CB	. ASP ASP ASP B B 52 52 .	0.1799	0.1574	0.1567	0.0059	-
0.0028	-0.0231	1 .						
3732	CG	CG	. ASP ASP ASP B B 52 52 .	0.2006	0.1559	0.1396	0.0038	
0.0093	-0.0357	1 .						
3733	OD1	OD1	. ASP ASP ASP B B 52 52 .	0.1510	0.1409	0.1429	0.0224	-
0.0674	-0.0247	1 .						
3734	OD2	OD2	. ASP ASP ASP B B 52 52 .	0.1400	0.1478	0.1212	0.0378	
0.0558	-0.0597	1 .						
3735	C	C	. ASP ASP ASP B B 52 52 .	0.1909	0.1464	0.1721	0.0017	
0.0068	-0.0073	1 .						
3736	O	O	. ASP ASP ASP B B 52 52 .	0.2091	0.1418	0.1854	0.0252	
0.0253	-0.0336	1 .						
3737	N	N	. LYS LYS LYS B B 53 53 .	0.2118	0.1736	0.1971	-0.0072	
0.0018	-0.0174	1 .						
3738	CA	CA	. LYS LYS LYS B B 53 53 .	0.2282	0.1942	0.2117	-0.0161	-
0.0072	0.0021	1 .						
3739	CB	CB	. LYS LYS LYS B B 53 53 .	0.2322	0.1918	0.2329	-0.0322	-
0.0109	0.0038	1 .						
3740	CG	CG	. LYS LYS LYS B B 53 53 .	0.2768	0.2619	0.2481	-0.0318	-
0.0296	-0.0030	1 .						
3741	CD	CD	. LYS LYS LYS B B 53 53 .	0.3234	0.3088	0.2979	-0.0489	
0.0005	0.0068	1 .						
3742	CE	CE	. LYS LYS LYS B B 53 53 .	0.3626	0.3446	0.3471	-0.0466	-
0.0270	0.0121	1 .						
3743	NZ	NZ	. LYS LYS LYS B B 53 53 .	0.3939	0.3398	0.3960	-0.0444	-
0.0373	0.0211	1 .						

















































































4689	CB	CB	. MET MET MET B B 181 181 .	0.0323	0.0274	0.0320	0.0038	
0.0068	0.0037	1 .						
4690	CG	CG	. MET MET MET B B 181 181 .	0.0253	0.0380	0.0393	-0.0006	
0.0007	-0.0133	1 .						
4691	SD	SD	. MET MET MET B B 181 181 .	0.0529	0.0350	0.0401	0.0135	
0.0021	0.0053	1 .						
4692	CE	CE	. MET MET MET B B 181 181 .	0.1214	0.0690	0.0781	-0.0055	-
0.0096	-0.0339	1 .						
4693	C	C	. MET MET MET B B 181 181 .	0.0253	0.0253	0.0253	0.0000	
0.0000	0.0000	1 .						
4694	O	O	. MET MET MET B B 181 181 .	0.0259	0.0254	0.0260	0.0003	
0.0006	0.0003	1 .						
4695	N	N	. ARG ARG ARG B B 182 182 .	0.0313	0.0280	0.0262	0.0040	
0.0023	0.0015	1 .						
4696	CA	CA	. ARG ARG ARG B B 182 182 .	0.0316	0.0309	0.0390	0.0015	
0.0064	-0.0045	1 .						
4697	CB	CB	. ARG ARG ARG B B 182 182 .	0.0382	0.0344	0.0253	0.0108	-
0.0005	-0.0004	1 .						
4698	CG	CG	. ARG ARG ARG B B 182 182 .	0.0556	0.0649	0.0679	0.0235	
0.0053	0.0252	1 .						
4699	CD	CD	. ARG ARG ARG B B 182 182 .	0.1399	0.0786	0.1227	0.0065	-
0.0130	0.0331	1 .						
4700	NE	NE	. ARG ARG ARG B B 182 182 .	0.1763	0.1265	0.1834	0.0307	-
0.0019	-0.0205	1 .						
4701	CZ	CZ	. ARG ARG ARG B B 182 182 .	0.2238	0.2109	0.2273	0.0283	
0.0154	0.0349	1 .						
4702	NH1	NH1	. ARG ARG ARG B B 182 182 .	0.1954	0.2011	0.2518	0.0179	
0.1111	-0.0025	1 .						
4703	NH2	NH2	. ARG ARG ARG B B 182 182 .	0.2194	0.2966	0.2656	0.0331	
0.0427	-0.0343	1 .						
4704	C	C	. ARG ARG ARG B B 182 182 .	0.0253	0.0253	0.0253	0.0000	
0.0000	0.0000	1 .						
4705	O	O	. ARG ARG ARG B B 182 182 .	0.0276	0.0256	0.0264	0.0009	
0.0015	0.0006	1 .						
4706	N	N	. LEU LEU LEU B B 183 183 .	0.0352	0.0273	0.0462	0.0032	
0.0051	-0.0026	1 .						
4707	CA	CA	. LEU LEU LEU B B 183 183 .	0.0485	0.0345	0.0277	0.0123	-
0.0025	-0.0038	1 .						
4708	CB	CB	. LEU LEU LEU B B 183 183 .	0.0709	0.0425	0.0376	0.0249	-
0.0142	-0.0024	1 .						
4709	CG	CG	. LEU LEU LEU B B 183 183 .	0.1471	0.0604	0.0554	-0.0057	-
0.0249	0.0025	1 .						
4710	CD1	CD1	. LEU LEU LEU B B 183 183 .	0.1128	0.0742	0.0625	0.0214	
0.0224	-0.0315	1 .						
4711	CD2	CD2	. LEU LEU LEU B B 183 183 .	0.1580	0.0999	0.0518	0.0174	
0.0177	0.0074	1 .						
4712	C	C	. LEU LEU LEU B B 183 183 .	0.0308	0.0296	0.0253	-0.0048	-
0.0004	0.0003	1 .						
4713	O	O	. LEU LEU LEU B B 183 183 .	0.0375	0.0552	0.0279	0.0191	-
0.0056	-0.0089	1 .						
4714	N	N	. GLY GLY GLY B B 184 184 .	0.0359	0.0275	0.0275	0.0047	
0.0048	0.0022	1 .						
4715	CA	CA	. GLY GLY GLY B B 184 184 .	0.0267	0.0288	0.0276	0.0022	
0.0017	0.0028	1 .						

4716	C	C	. GLY GLY GLY B B 184 184 .	0.0256	0.0254	0.0266	0.0001	
0.0006	0.0003	1 .						
4717	O	O	. GLY GLY GLY B B 184 184 .	0.0311	0.0305	0.0429	0.0053	
0.0045	0.0062	1 .						
4718	N	N	. ALA ALA ALA B B 185 185 .	0.0358	0.0280	0.0289	0.0052	-
0.0002	0.0006	1 .						
4719	CA	CA	. ALA ALA ALA B B 185 185 .	0.0403	0.0337	0.0265	0.0112	
0.0042	0.0031	1 .						
4720	CB	CB	. ALA ALA ALA B B 185 185 .	0.0376	0.0329	0.0281	0.0096	
0.0058	0.0045	1 .						
4721	C	C	. ALA ALA ALA B B 185 185 .	0.0310	0.0279	0.0253	0.0037	-
0.0001	-0.0001	1 .						
4722	O	O	. ALA ALA ALA B B 185 185 .	0.0663	0.0503	0.0527	0.0043	
0.0237	-0.0157	1 .						
4723	N	N	. GLU GLU GLU B B 186 186 .	0.0537	0.0338	0.0288	0.0123	-
0.0041	-0.0048	1 .						
4724	CA	CA	. GLU GLU GLU B B 186 186 .	0.0320	0.0349	0.0290	0.0074	
0.0035	0.0024	1 .						
4725	CB	CB	. GLU GLU GLU B B 186 186 .	0.0448	0.0366	0.0300	0.0101	
0.0081	0.0013	1 .						
4726	CG	CG	. GLU GLU GLU B B 186 186 .	0.0536	0.0260	0.0329	0.0046	
0.0146	0.0023	1 .						
4727	CD	CD	. GLU GLU GLU B B 186 186 .	0.1269	0.0531	0.0560	0.0073	
0.0338	0.0126	1 .						
4728	OE1	OE1	. GLU GLU GLU B B 186 186 .	0.1368	0.0912	0.1116	0.0279	
0.0771	0.0204	1 .						
4729	OE2	OE2	. GLU GLU GLU B B 186 186 .	0.0986	0.0362	0.0713	-0.0110	
0.0316	0.0020	1 .						
4730	C	C	. GLU GLU GLU B B 186 186 .	0.0373	0.0330	0.0265	0.0096	-
0.0022	-0.0016	1 .						
4731	O	O	. GLU GLU GLU B B 186 186 .	0.0414	0.0450	0.0329	-0.0085	
0.0070	-0.0058	1 .						
4732	N	N	. VAL VAL VAL B B 187 187 .	0.0360	0.0333	0.0407	-0.0023	
0.0125	-0.0050	1 .						
4733	CA	CA	. VAL VAL VAL B B 187 187 .	0.0413	0.0348	0.0299	-0.0060	-
0.0015	0.0062	1 .						
4734	CB	CB	. VAL VAL VAL B B 187 187 .	0.0622	0.0414	0.0339	0.0045	-
0.0168	0.0018	1 .						
4735	CG1	CG1	. VAL VAL VAL B B 187 187 .	0.0352	0.0400	0.0302	-0.0002	
0.0030	-0.0077	1 .						
4736	CG2	CG2	. VAL VAL VAL B B 187 187 .	0.0595	0.0488	0.0276	0.0248	
0.0063	0.0021	1 .						
4737	C	C	. VAL VAL VAL B B 187 187 .	0.0253	0.0254	0.0388	0.0000	
0.0003	-0.0011	1 .						
4738	O	O	. VAL VAL VAL B B 187 187 .	0.0362	0.0295	0.0509	0.0022	
0.0139	-0.0024	1 .						
4739	N	N	. TYR TYR TYR B B 188 188 .	0.0554	0.0295	0.0255	0.0009	
0.0019	0.0006	1 .						
4740	CA	CA	. TYR TYR TYR B B 188 188 .	0.0322	0.0538	0.0379	-0.0027	
0.0057	-0.0115	1 .						
4741	CB	CB	. TYR TYR TYR B B 188 188 .	0.0432	0.0351	0.0474	0.0073	
0.0041	-0.0102	1 .						
4742	CG	CG	. TYR TYR TYR B B 188 188 .	0.0904	0.0592	0.0350	-0.0005	
0.0250	0.0011	1 .						



































5148	CD1	CD1	. ILE ILE ILE B B 241 241 .	0.0844	0.0566	0.0944	0.0266	-
0.0415	-0.0091	1 .						
5149	CG2	CG2	. ILE ILE ILE B B 241 241 .	0.0415	0.0351	0.0431	-0.0041	
0.0153	-0.0091	1 .						
5150	C	C	. ILE ILE ILE B B 241 241 .	0.0542	0.0551	0.0276	0.0121	-
0.0064	-0.0075	1 .						
5151	O	O	. ILE ILE ILE B B 241 241 .	0.0855	0.0423	0.0380	0.0298	
0.0275	0.0131	1 .						
5152	N	N	. GLY GLY GLY B B 242 242 .	0.0486	0.0652	0.0368	0.0275	
0.0088	0.0026	1 .						
5153	CA	CA	. GLY GLY GLY B B 242 242 .	0.0253	0.0253	0.0253	0.0000	
0.0000	0.0000	1 .						
5154	C	C	. GLY GLY GLY B B 242 242 .	0.0375	0.0367	0.0277	-0.0043	
0.0053	-0.0020	1 .						
5155	O	O	. GLY GLY GLY B B 242 242 .	0.0400	0.0261	0.0275	0.0033	-
0.0057	-0.0013	1 .						
5156	N	N	. MET MET MET B B 243 243 .	0.0259	0.0303	0.0314	0.0017	
0.0018	0.0055	1 .						
5157	CA	CA	. MET MET MET B B 243 243 .	0.0708	0.0581	0.0500	0.0176	
0.0105	-0.0017	1 .						
5158	CB	CB	. MET MET MET B B 243 243 .	0.0627	0.0586	0.0853	0.0170	-
0.0036	0.0085	1 .						
5159	CG	CG	. MET MET MET B B 243 243 .	0.0690	0.0937	0.0433	-0.0035	
0.0243	-0.0193	1 .						
5160	SD	SD	. MET MET MET B B 243 243 .	0.0817	0.0641	0.0654	-0.0121	
0.0121	-0.0178	1 .						
5161	CE	CE	. MET MET MET B B 243 243 .	0.0902	0.1225	0.0989	-0.0397	-
0.0257	-0.0522	1 .						
5162	C	C	. MET MET MET B B 243 243 .	0.0467	0.0353	0.0362	0.0146	-
0.0127	-0.0085	1 .						
5163	O	O	. MET MET MET B B 243 243 .	0.0513	0.0690	0.0361	0.0073	-
0.0066	-0.0213	1 .						
5164	N	N	. ASP ASP ASP B B 244 244 .	0.0645	0.0623	0.0286	0.0194	
0.0092	-0.0009	1 .						
5165	CA	CA	. ASP ASP ASP B B 244 244 .	0.0412	0.0290	0.0254	0.0074	
0.0010	0.0006	1 .						
5166	CB	CB	. ASP ASP ASP B B 244 244 .	0.0559	0.0422	0.0460	0.0221	
0.0194	0.0113	1 .						
5167	CG	CG	. ASP ASP ASP B B 244 244 .	0.0577	0.0306	0.0273	0.0131	
0.0080	0.0032	1 .						
5168	OD1	OD1	. ASP ASP ASP B B 244 244 .	0.0288	0.0396	0.0301	0.0064	
0.0030	0.0031	1 .						
5169	OD2	OD2	. ASP ASP ASP B B 244 244 .	0.0277	0.0265	0.0361	-0.0017	
0.0051	-0.0035	1 .						
5170	C	C	. ASP ASP ASP B B 244 244 .	0.0474	0.0294	0.0269	0.0030	-
0.0025	-0.0025	1 .						
5171	O	O	. ASP ASP ASP B B 244 244 .	0.0423	0.0292	0.0489	0.0058	-
0.0200	-0.0063	1 .						
5172	N	N	. VAL VAL VAL B B 245 245 .	0.0258	0.0393	0.0293	0.0026	
0.0014	0.0075	1 .						
5173	CA	CA	. VAL VAL VAL B B 245 245 .	0.0357	0.0273	0.0284	0.0027	-
0.0056	-0.0014	1 .						
5174	CB	CB	. VAL VAL VAL B B 245 245 .	0.0384	0.0318	0.0460	0.0029	
0.0016	0.0112	1 .						





















5418	CG	CG	. LEU LEU LEU B B 275 275 .	0.1291	0.1039	0.1183	0.0136	
	0.0174	-0.0113	1 .					
5419	CD1	CD1	. LEU LEU LEU B B 275 275 .	0.1422	0.0597	0.1897	-0.0095	-
	0.0029	0.0061	1 .					
5420	CD2	CD2	. LEU LEU LEU B B 275 275 .	0.0874	0.0621	0.0648	0.0098	
	0.0492	0.0038	1 .					
5421	C	C	. LEU LEU LEU B B 275 275 .	0.1062	0.0878	0.1155	0.0075	-
	0.0023	-0.0027	1 .					
5422	O	O	. LEU LEU LEU B B 275 275 .	0.1149	0.0863	0.1145	0.0122	-
	0.0108	0.0113	1 .					
5423	N	N	. GLY GLY GLY B B 276 276 .	0.0605	0.0673	0.1193	-0.0018	
	0.0046	0.0026	1 .					
5424	CA	CA	. GLY GLY GLY B B 276 276 .	0.1016	0.0858	0.0934	0.0077	
	0.0063	0.0061	1 .					
5425	C	C	. GLY GLY GLY B B 276 276 .	0.1085	0.0727	0.1089	0.0074	
	0.0068	0.0059	1 .					
5426	O	O	. GLY GLY GLY B B 276 276 .	0.1343	0.0754	0.1324	0.0186	-
	0.0030	0.0473	1 .					
5427	N	N	. ALA ALA ALA B B 277 277 .	0.0938	0.0871	0.1192	0.0039	
	0.0221	0.0200	1 .					
5428	CA	CA	. ALA ALA ALA B B 277 277 .	0.0910	0.0759	0.1172	-0.0067	
	0.0271	0.0324	1 .					
5429	CB	CB	. ALA ALA ALA B B 277 277 .	0.1157	0.1032	0.1677	-0.0059	
	0.0212	0.0322	1 .					
5430	C	C	. ALA ALA ALA B B 277 277 .	0.0995	0.0852	0.1070	0.0035	
	0.0065	0.0118	1 .					
5431	O	O	. ALA ALA ALA B B 277 277 .	0.1076	0.1255	0.1567	0.0030	
	0.0068	0.0137	1 .					
5432	N	N	. LEU LEU LEU B B 278 278 .	0.0896	0.0797	0.1285	-0.0069	-
	0.0113	0.0029	1 .					
5433	CA	CA	. LEU LEU LEU B B 278 278 .	0.0900	0.0903	0.1033	-0.0022	-
	0.0048	0.0040	1 .					
5434	CB	CB	. LEU LEU LEU B B 278 278 .	0.1087	0.1069	0.1023	0.0061	-
	0.0034	0.0009	1 .					
5435	CG	CG	. LEU LEU LEU B B 278 278 .	0.0745	0.1823	0.1486	0.0041	-
	0.0215	-0.0107	1 .					
5436	CD1	CD1	. LEU LEU LEU B B 278 278 .	0.1224	0.2435	0.2297	0.0342	
	0.0093	-0.0511	1 .					
5437	CD2	CD2	. LEU LEU LEU B B 278 278 .	0.0845	0.2242	0.1710	0.0087	-
	0.0901	-0.0168	1 .					
5438	C	C	. LEU LEU LEU B B 278 278 .	0.0728	0.0591	0.0912	0.0023	-
	0.0064	-0.0032	1 .					
5439	O	O	. LEU LEU LEU B B 278 278 .	0.0870	0.0616	0.1160	0.0016	-
	0.0136	-0.0187	1 .					
5440	N	N	. TYR TYR TYR B B 279 279 .	0.0974	0.0842	0.0778	0.0079	-
	0.0001	0.0024	1 .					
5441	CA	CA	. TYR TYR TYR B B 279 279 .	0.0894	0.0731	0.0625	0.0097	-
	0.0008	0.0001	1 .					
5442	CB	CB	. TYR TYR TYR B B 279 279 .	0.0840	0.0549	0.0460	0.0014	-
	0.0027	0.0014	1 .					
5443	CG	CG	. TYR TYR TYR B B 279 279 .	0.0253	0.0253	0.0253	0.0000	
	0.0000	0.0000	1 .					
5444	CD1	CD1	. TYR TYR TYR B B 279 279 .	0.0254	0.0256	0.0450	0.0002	-
	0.0013	-0.0018	1 .					

5445	CE1	CE1	. TYR TYR TYR B B 279 279 .	0.0359	0.0265	0.0305	0.0035	
	0.0074	0.0024	1 .					
5446	CZ	CZ	. TYR TYR TYR B B 279 279 .	0.0588	0.0414	0.0425	0.0067	-
	0.0233	-0.0084	1 .					
5447	OH	OH	. TYR TYR TYR B B 279 279 .	0.0484	0.0566	0.0444	0.0184	-
	0.0078	-0.0004	1 .					
5448	CE2	CE2	. TYR TYR TYR B B 279 279 .	0.0439	0.0361	0.0259	0.0131	-
	0.0023	-0.0009	1 .					
5449	CD2	CD2	. TYR TYR TYR B B 279 279 .	0.0618	0.0530	0.0326	0.0318	-
	0.0163	-0.0142	1 .					
5450	C	C	. TYR TYR TYR B B 279 279 .	0.0763	0.0544	0.0439	0.0050	-
	0.0066	0.0051	1 .					
5451	O	O	. TYR TYR TYR B B 279 279 .	0.1030	0.0738	0.0575	0.0126	
	0.0044	-0.0203	1 .					
5452	N	N	. GLN GLN GLN B B 280 280 .	0.0808	0.1015	0.0301	0.0090	
	0.0131	-0.0073	1 .					
5453	CA	CA	. GLN GLN GLN B B 280 280 .	0.0801	0.0589	0.0674	0.0118	
	0.0124	-0.0156	1 .					
5454	CB	CB	. GLN GLN GLN B B 280 280 .	0.1024	0.0631	0.0589	0.0013	-
	0.0003	-0.0113	1 .					
5455	CG	CG	. GLN GLN GLN B B 280 280 .	0.1265	0.1307	0.1507	0.0400	
	0.0008	-0.0253	1 .					
5456	CD	CD	. GLN GLN GLN B B 280 280 .	0.1922	0.1461	0.1963	0.0379	-
	0.0104	-0.0063	1 .					
5457	OE1	OE1	. GLN GLN GLN B B 280 280 .	0.2974	0.1840	0.1768	0.0399	
	0.0366	-0.0003	1 .					
5458	NE2	NE2	. GLN GLN GLN B B 280 280 .	0.1355	0.1801	0.2233	0.0325	-
	0.0436	-0.0316	1 .					
5459	C	C	. GLN GLN GLN B B 280 280 .	0.0795	0.0524	0.0705	0.0030	
	0.0106	-0.0061	1 .					
5460	O	O	. GLN GLN GLN B B 280 280 .	0.0799	0.0637	0.0867	0.0086	
	0.0196	-0.0336	1 .					
5461	N	N	. ASP ASP ASP B B 281 281 .	0.1099	0.0808	0.0502	0.0069	
	0.0009	-0.0004	1 .					
5462	CA	CA	. ASP ASP ASP B B 281 281 .	0.1026	0.0952	0.0987	-0.0016	
	0.0052	-0.0062	1 .					
5463	CB	CB	. ASP ASP ASP B B 281 281 .	0.1153	0.1145	0.1328	-0.0146	
	0.0105	0.0059	1 .					
5464	CG	CG	. ASP ASP ASP B B 281 281 .	0.1739	0.1833	0.1557	-0.0285	
	0.0037	0.0272	1 .					
5465	OD1	OD1	. ASP ASP ASP B B 281 281 .	0.2945	0.2256	0.1448	-0.0569	
	0.0263	0.1427	1 .					
5466	OD2	OD2	. ASP ASP ASP B B 281 281 .	0.1544	0.2313	0.3263	-0.0711	
	0.0315	0.0132	1 .					
5467	C	C	. ASP ASP ASP B B 281 281 .	0.0923	0.1002	0.0919	-0.0052	-
	0.0015	-0.0081	1 .					
5468	O	O	. ASP ASP ASP B B 281 281 .	0.1163	0.0883	0.0880	0.0176	-
	0.0105	-0.0044	1 .					
5469	N	N	. PHE PHE PHE B B 282 282 .	0.0787	0.0695	0.0658	0.0012	
	0.0075	-0.0186	1 .					
5470	CA	CA	. PHE PHE PHE B B 282 282 .	0.0825	0.0645	0.0824	-0.0072	
	0.0058	-0.0098	1 .					
5471	CB	CB	. PHE PHE PHE B B 282 282 .	0.0886	0.0740	0.0609	-0.0174	
	0.0077	-0.0162	1 .					































5823	CB	CB	. ARG ARG ARG B B 326 326 .	0.0539	0.0649	0.0690	-0.0050	-
	0.0178	-0.0323	1 .					
5824	CG	CG	. ARG ARG ARG B B 326 326 .	0.0489	0.0748	0.0854	-0.0010	
	0.0112	-0.0475	1 .					
5825	CD	CD	. ARG ARG ARG B B 326 326 .	0.0655	0.0676	0.1286	-0.0202	
	0.0570	-0.0017	1 .					
5826	NE	NE	. ARG ARG ARG B B 326 326 .	0.0528	0.0645	0.1121	0.0219	
	0.0142	-0.0133	1 .					
5827	CZ	CZ	. ARG ARG ARG B B 326 326 .	0.0801	0.0505	0.0536	0.0149	
	0.0137	0.0266	1 .					
5828	NH1	NH1	. ARG ARG ARG B B 326 326 .	0.0479	0.0465	0.0696	0.0188	
	0.0016	-0.0140	1 .					
5829	NH2	NH2	. ARG ARG ARG B B 326 326 .	0.0310	0.0369	0.0316	0.0082	
	0.0060	0.0085	1 .					
5830	C	C	. ARG ARG ARG B B 326 326 .	0.0690	0.0507	0.0555	-0.0095	-
	0.0091	0.0031	1 .					
5831	O	O	. ARG ARG ARG B B 326 326 .	0.0760	0.0583	0.0312	-0.0095	
	0.0000	0.0135	1 .					
5832	N	N	. ILE ILE ILE B B 327 327 .	0.0712	0.0256	0.0521	-0.0010	-
	0.0188	0.0017	1 .					
5833	CA	CA	. ILE ILE ILE B B 327 327 .	0.0500	0.0328	0.0271	-0.0039	-
	0.0066	0.0008	1 .					
5834	CB	CB	. ILE ILE ILE B B 327 327 .	0.0645	0.0451	0.0394	-0.0087	-
	0.0225	0.0049	1 .					
5835	CG1	CG1	. ILE ILE ILE B B 327 327 .	0.0399	0.0259	0.0253	0.0031	
	0.0004	0.0000	1 .					
5836	CD1	CD1	. ILE ILE ILE B B 327 327 .	0.0932	0.0380	0.0536	-0.0170	
	0.0172	0.0099	1 .					
5837	CG2	CG2	. ILE ILE ILE B B 327 327 .	0.0859	0.0340	0.0573	0.0084	
	0.0083	-0.0137	1 .					
5838	C	C	. ILE ILE ILE B B 327 327 .	0.0562	0.0735	0.0359	0.0111	-
	0.0154	0.0006	1 .					
5839	O	O	. ILE ILE ILE B B 327 327 .	0.0393	0.0292	0.0258	0.0073	-
	0.0026	-0.0013	1 .					
5840	N	N	. GLU GLU GLU B B 328 328 .	0.0724	0.0614	0.0493	0.0011	-
	0.0170	0.0094	1 .					
5841	CA	CA	. GLU GLU GLU B B 328 328 .	0.0715	0.0819	0.0642	0.0103	-
	0.0005	0.0019	1 .					
5842	CB	CB	. GLU GLU GLU B B 328 328 .	0.0710	0.0672	0.1096	0.0332	-
	0.0056	0.0190	1 .					
5843	CG	CG	. GLU GLU GLU B B 328 328 .	0.1466	0.1590	0.1508	-0.0001	
	0.0078	0.0327	1 .					
5844	CD	CD	. GLU GLU GLU B B 328 328 .	0.2621	0.2540	0.2477	-0.0339	
	0.0277	-0.0280	1 .					
5845	OE1	OE1	. GLU GLU GLU B B 328 328 .	0.3330	0.3388	0.2081	-0.0333	
	0.0230	-0.0413	1 .					
5846	OE2	OE2	. GLU GLU GLU B B 328 328 .	0.2622	0.2812	0.2797	-0.0217	
	0.0385	-0.0026	1 .					
5847	C	C	. GLU GLU GLU B B 328 328 .	0.0456	0.0815	0.0745	0.0105	-
	0.0065	0.0010	1 .					
5848	O	O	. GLU GLU GLU B B 328 328 .	0.0581	0.0668	0.0464	-0.0028	
	0.0226	-0.0170	1 .					
5849	N	N	. ARG ARG ARG B B 329 329 .	0.0400	0.0702	0.0491	0.0208	-
	0.0068	-0.0077	1 .					













5985	CD1	CD1	. ILE ILE ILE B B 346 346 .	0.0936	0.0516	0.0934	-0.0157	-
	0.0324	-0.0021	1 .					
5986	CG2	CG2	. ILE ILE ILE B B 346 346 .	0.0528	0.0353	0.0532	0.0144	-
	0.0129	-0.0140	1 .					
5987	C	C	. ILE ILE ILE B B 346 346 .	0.0709	0.0417	0.0518	0.0267	
	0.0121	0.0048	1 .					
5988	O	O	. ILE ILE ILE B B 346 346 .	0.0667	0.0516	0.0600	0.0321	
	0.0062	-0.0021	1 .					
5989	N	N	. GLY GLY GLY B B 347 347 .	0.0841	0.0435	0.0479	0.0034	
	0.0224	0.0099	1 .					
5990	CA	CA	. GLY GLY GLY B B 347 347 .	0.0448	0.0343	0.0406	0.0124	
	0.0097	0.0095	1 .					
5991	C	C	. GLY GLY GLY B B 347 347 .	0.0407	0.0338	0.0260	0.0055	-
	0.0031	-0.0018	1 .					
5992	O	O	. GLY GLY GLY B B 347 347 .	0.0814	0.0797	0.0562	0.0007	
	0.0229	-0.0039	1 .					
5993	N	N	. SER SER SER B B 348 348 .	0.0590	0.0259	0.0291	-0.0044	-
	0.0113	0.0015	1 .					
5994	CA	CA	. SER SER SER B B 348 348 .	0.0429	0.0322	0.0370	0.0104	-
	0.0106	-0.0044	1 .					
5995	CB	CB	. SER SER SER B B 348 348 .	0.0565	0.0456	0.0433	0.0142	-
	0.0074	0.0115	1 .					
5996	OG	OG	. SER SER SER B B 348 348 .	0.0680	0.0351	0.0607	0.0187	
	0.0091	0.0074	1 .					
5997	C	C	. SER SER SER B B 348 348 .	0.0517	0.0546	0.0309	0.0075	-
	0.0119	-0.0014	1 .					
5998	O	O	. SER SER SER B B 348 348 .	0.0450	0.0524	0.0354	0.0188	-
	0.0095	-0.0020	1 .					
5999	N	N	. VAL VAL VAL B B 349 349 .	0.0841	0.0644	0.0261	-0.0062	-
	0.0013	0.0056	1 .					
6000	CA	CA	. VAL VAL VAL B B 349 349 .	0.0803	0.0563	0.0450	-0.0086	
	0.0030	0.0178	1 .					
6001	CB	CB	. VAL VAL VAL B B 349 349 .	0.0638	0.0357	0.0407	0.0034	
	0.0115	0.0120	1 .					
6002	CG1	CG1	. VAL VAL VAL B B 349 349 .	0.0896	0.0507	0.0907	-0.0250	-
	0.0127	0.0363	1 .					
6003	CG2	CG2	. VAL VAL VAL B B 349 349 .	0.1003	0.0839	0.0525	-0.0099	-
	0.0053	0.0228	1 .					
6004	C	C	. VAL VAL VAL B B 349 349 .	0.0643	0.0571	0.0386	0.0193	
	0.0028	0.0025	1 .					
6005	O	O	. VAL VAL VAL B B 349 349 .	0.0751	0.0693	0.0386	0.0010	
	0.0062	0.0236	1 .					
6006	N	N	. THR THR THR B B 350 350 .	0.0588	0.0763	0.0302	-0.0072	
	0.0007	0.0078	1 .					
6007	CA	CA	. THR THR THR B B 350 350 .	0.0650	0.0827	0.0702	0.0073	-
	0.0014	0.0148	1 .					
6008	CB	CB	. THR THR THR B B 350 350 .	0.0658	0.0865	0.0463	-0.0094	
	0.0150	0.0073	1 .					
6009	OG1	OG1	. THR THR THR B B 350 350 .	0.0919	0.0470	0.0823	0.0299	-
	0.0053	-0.0143	1 .					
6010	CG2	CG2	. THR THR THR B B 350 350 .	0.0255	0.1625	0.1305	-0.0056	
	0.0016	0.0042	1 .					
6011	C	C	. THR THR THR B B 350 350 .	0.0588	0.0747	0.0600	0.0049	-
	0.0120	0.0058	1 .					



















6228	CD1	CD1	. PHE PHE PHE B B 379 379 .	0.0545	0.0439	0.0498	0.0231	
0.0018	0.0038	1 .						
6229	CE1	CE1	. PHE PHE PHE B B 379 379 .	0.0424	0.0367	0.0508	0.0125	-
0.0052	-0.0111	1 .						
6230	CZ	CZ	. PHE PHE PHE B B 379 379 .	0.0762	0.0303	0.0549	-0.0045	
0.0150	-0.0120	1 .						
6231	CE2	CE2	. PHE PHE PHE B B 379 379 .	0.0829	0.0312	0.0872	-0.0152	
0.0001	-0.0106	1 .						
6232	CD2	CD2	. PHE PHE PHE B B 379 379 .	0.0737	0.0757	0.0657	0.0384	-
0.0106	0.0190	1 .						
6233	C	C	. PHE PHE PHE B B 379 379 .	0.0284	0.0258	0.0335	0.0012	-
0.0050	-0.0020	1 .						
6234	O	O	. PHE PHE PHE B B 379 379 .	0.0368	0.0468	0.0317	0.0015	
0.0059	0.0092	1 .						
6235	N	N	. ILE ILE ILE B B 380 380 .	0.0271	0.0302	0.0289	0.0030	
0.0025	0.0042	1 .						
6236	CA	CA	. ILE ILE ILE B B 380 380 .	0.0446	0.0375	0.0260	0.0153	-
0.0037	-0.0029	1 .						
6237	CB	CB	. ILE ILE ILE B B 380 380 .	0.0315	0.0314	0.0254	0.0061	-
0.0009	-0.0009	1 .						
6238	CG1	CG1	. ILE ILE ILE B B 380 380 .	0.0274	0.0432	0.0270	0.0061	-
0.0019	-0.0056	1 .						
6239	CD1	CD1	. ILE ILE ILE B B 380 380 .	0.0354	0.0254	0.0283	-0.0011	
0.0055	-0.0006	1 .						
6240	CG2	CG2	. ILE ILE ILE B B 380 380 .	0.0752	0.0541	0.0515	0.0187	-
0.0171	0.0145	1 .						
6241	C	C	. ILE ILE ILE B B 380 380 .	0.0628	0.0283	0.0558	0.0105	
0.0004	0.0008	1 .						
6242	O	O	. ILE ILE ILE B B 380 380 .	0.0507	0.0471	0.0275	0.0234	
0.0008	0.0013	1 .						
6243	N	N	. ALA ALA ALA B B 381 381 .	0.0362	0.0293	0.0286	0.0065	
0.0023	0.0009	1 .						
6244	CA	CA	. ALA ALA ALA B B 381 381 .	0.0466	0.0337	0.0288	0.0111	
0.0024	-0.0016	1 .						
6245	CB	CB	. ALA ALA ALA B B 381 381 .	0.0295	0.0289	0.0253	0.0038	-
0.0004	-0.0004	1 .						
6246	C	C	. ALA ALA ALA B B 381 381 .	0.0259	0.0253	0.0255	-0.0001	
0.0003	0.0000	1 .						
6247	O	O	. ALA ALA ALA B B 381 381 .	0.0991	0.0302	0.0721	0.0148	
0.0163	0.0123	1 .						
6248	N	N	. ASP ASP ASP B B 382 382 .	0.0706	0.0309	0.0343	0.0088	-
0.0052	0.0047	1 .						
6249	CA	CA	. ASP ASP ASP B B 382 382 .	0.0457	0.0300	0.0292	0.0095	
0.0044	0.0029	1 .						
6250	CB	CB	. ASP ASP ASP B B 382 382 .	0.0564	0.0529	0.0578	0.0040	
0.0113	0.0292	1 .						
6251	CG	CG	. ASP ASP ASP B B 382 382 .	0.0470	0.0412	0.0854	-0.0129	
0.0031	0.0202	1 .						
6252	OD1	OD1	. ASP ASP ASP B B 382 382 .	0.1140	0.0806	0.0498	0.0343	-
0.0405	0.0001	1 .						
6253	OD2	OD2	. ASP ASP ASP B B 382 382 .	0.0829	0.0486	0.0863	0.0151	-
0.0022	0.0037	1 .						
6254	C	C	. ASP ASP ASP B B 382 382 .	0.0672	0.0309	0.0281	-0.0007	-
0.0062	0.0033	1 .						



6282	N	N	. LEU LEU LEU B B 387 387 .	0.0970	0.0512	0.0570	0.0118	-
	0.0045	0.0037	1 .					
6283	CA	CA	. LEU LEU LEU B B 387 387 .	0.0912	0.0404	0.0613	0.0135	-
	0.0036	0.0147	1 .					
6284	CB	CB	. LEU LEU LEU B B 387 387 .	0.0596	0.0548	0.0742	0.0314	-
	0.0085	-0.0022	1 .					
6285	CG	CG	. LEU LEU LEU B B 387 387 .	0.0775	0.1048	0.0452	-0.0226	-
	0.0192	-0.0214	1 .					
6286	CD1	CD1	. LEU LEU LEU B B 387 387 .	0.0982	0.0406	0.0737	0.0092	-
	0.0091	-0.0031	1 .					
6287	CD2	CD2	. LEU LEU LEU B B 387 387 .	0.0662	0.0982	0.0630	0.0484	
	0.0157	-0.0036	1 .					
6288	C	C	. LEU LEU LEU B B 387 387 .	0.0986	0.0552	0.0619	0.0180	-
	0.0099	0.0123	1 .					
6289	O	O	. LEU LEU LEU B B 387 387 .	0.1325	0.0855	0.0682	0.0286	-
	0.0114	-0.0003	1 .					
6290	N	N	. CYS CYS CYS B B 388 388 .	0.1019	0.0742	0.0593	0.0137	-
	0.0099	0.0123	1 .					
6291	CA	CA	. CYS CYS CYS B B 388 388 .	0.1335	0.0978	0.0893	0.0010	-
	0.0019	0.0101	1 .					
6292	CB	CB	. CYS CYS CYS B B 388 388 .	0.1328	0.0806	0.0800	0.0059	-
	0.0114	-0.0037	1 .					
6293	SG	SG	. CYS CYS CYS B B 388 388 .	0.3006	0.2336	0.1545	-0.0161	-
	0.0393	0.0105	1 .					
6294	C	C	. CYS CYS CYS B B 388 388 .	0.1303	0.0939	0.0968	-0.0032	-
	0.0017	0.0031	1 .					
6295	O	O	. CYS CYS CYS B B 388 388 .	0.1808	0.1310	0.0974	0.0020	-
	0.0018	0.0119	1 .					
6296	N	N	. THR THR THR B B 389 389 .	0.0889	0.0595	0.0595	-0.0055	-
	0.0018	0.0057	1 .					
6297	CA	CA	. THR THR THR B B 389 389 .	0.0582	0.0491	0.0581	-0.0006	-
	0.0019	0.0208	1 .					
6298	CB	CB	. THR THR THR B B 389 389 .	0.0485	0.0664	0.0312	-0.0087	-
	0.0090	-0.0023	1 .					
6299	OG1	OG1	. THR THR THR B B 389 389 .	0.0433	0.0519	0.0378	0.0128	
	0.0018	0.0159	1 .					
6300	CG2	CG2	. THR THR THR B B 389 389 .	0.0359	0.0559	0.0420	0.0033	
	0.0047	0.0222	1 .					
6301	C	C	. THR THR THR B B 389 389 .	0.0721	0.0692	0.0380	0.0001	
	0.0014	0.0033	1 .					
6302	O	O	. THR THR THR B B 389 389 .	0.0891	0.0613	0.0636	-0.0246	
	0.0028	0.0178	1 .					
6303	N	N	. GLY GLY GLY B B 390 390 .	0.0366	0.0262	0.0277	-0.0032	-
	0.0052	0.0015	1 .					
6304	CA	CA	. GLY GLY GLY B B 390 390 .	0.0538	0.0262	0.0438	-0.0040	-
	0.0110	-0.0005	1 .					
6305	C	C	. GLY GLY GLY B B 390 390 .	0.0318	0.0369	0.0265	0.0087	
	0.0028	0.0038	1 .					
6306	O	O	. GLY GLY GLY B B 390 390 .	0.0455	0.0295	0.0257	-0.0081	-
	0.0014	0.0011	1 .					
6307	N	N	. GLN GLN GLN B B 391 391 .	0.0388	0.0286	0.0295	-0.0066	-
	0.0074	0.0036	1 .					
6308	CA	CA	. GLN GLN GLN B B 391 391 .	0.0353	0.0528	0.0298	-0.0045	
	0.0028	0.0084	1 .					







6390	CB	CB	. ARG ARG ARG B B 402 402 .	0.0405	0.0317	0.0301	-0.0053	-
	0.0040	-0.0026	1 .					
6391	CG	CG	. ARG ARG ARG B B 402 402 .	0.0488	0.0254	0.0260	-0.0016	-
	0.0041	0.0002	1 .					
6392	CD	CD	. ARG ARG ARG B B 402 402 .	0.0256	0.0274	0.0273	0.0008	-
	0.0007	-0.0020	1 .					
6393	NE	NE	. ARG ARG ARG B B 402 402 .	0.0253	0.0253	0.0253	0.0000	
	0.0000	0.0000	1 .					
6394	CZ	CZ	. ARG ARG ARG B B 402 402 .	0.0253	0.0253	0.0253	0.0000	
	0.0000	0.0000	1 .					
6395	NH1	NH1	. ARG ARG ARG B B 402 402 .	0.0333	0.0484	0.0358	-0.0136	
	0.0091	-0.0155	1 .					
6396	NH2	NH2	. ARG ARG ARG B B 402 402 .	0.0350	0.0253	0.0280	0.0000	-
	0.0051	0.0000	1 .					
6397	C	C	. ARG ARG ARG B B 402 402 .	0.0253	0.0253	0.0259	0.0000	
	0.0000	0.0001	1 .					
6398	O	O	. ARG ARG ARG B B 402 402 .	0.0253	0.0253	0.0253	0.0000	
	0.0000	0.0000	1 .					
6399	N	N	. LEU LEU LEU B B 403 403 .	0.0384	0.0309	0.0273	0.0085	
	0.0051	0.0033	1 .					
6400	CA	CA	. LEU LEU LEU B B 403 403 .	0.0257	0.0257	0.0255	-0.0004	
	0.0003	-0.0003	1 .					
6401	CB	CB	. LEU LEU LEU B B 403 403 .	0.0253	0.0253	0.0253	0.0000	
	0.0000	0.0000	1 .					
6402	CG	CG	. LEU LEU LEU B B 403 403 .	0.0304	0.0323	0.0295	-0.0060	-
	0.0046	0.0054	1 .					
6403	CD1	CD1	. LEU LEU LEU B B 403 403 .	0.0253	0.0253	0.0253	0.0000	
	0.0000	0.0000	1 .					
6404	CD2	CD2	. LEU LEU LEU B B 403 403 .	0.0323	0.0254	0.0348	-0.0007	-
	0.0081	0.0009	1 .					
6405	C	C	. LEU LEU LEU B B 403 403 .	0.0253	0.0284	0.0262	0.0000	
	0.0000	-0.0017	1 .					
6406	O	O	. LEU LEU LEU B B 403 403 .	0.0254	0.0253	0.0253	0.0000	
	0.0000	0.0000	1 .					
6407	N	N	. ALA ALA ALA B B 404 404 .	0.0253	0.0253	0.0253	0.0000	
	0.0000	0.0000	1 .					
6408	CA	CA	. ALA ALA ALA B B 404 404 .	0.0256	0.0315	0.0256	-0.0013	
	0.0002	-0.0013	1 .					
6409	CB	CB	. ALA ALA ALA B B 404 404 .	0.0253	0.0517	0.0354	0.0012	-
	0.0007	-0.0163	1 .					
6410	C	C	. ALA ALA ALA B B 404 404 .	0.0268	0.0354	0.0520	0.0037	-
	0.0046	-0.0142	1 .					
6411	O	O	. ALA ALA ALA B B 404 404 .	0.0280	0.0309	0.0253	-0.0038	
	0.0000	0.0000	1 .					
6412	N	N	. LYS LYS LYS B B 405 405 .	0.0253	0.0253	0.0253	0.0000	
	0.0000	0.0000	1 .					
6413	CA	CA	. LYS LYS LYS B B 405 405 .	0.0253	0.0253	0.0253	0.0000	
	0.0000	0.0000	1 .					
6414	CB	CB	. LYS LYS LYS B B 405 405 .	0.0294	0.0290	0.0294	0.0039	
	0.0040	0.0039	1 .					
6415	CG	CG	. LYS LYS LYS B B 405 405 .	0.0262	0.0262	0.0350	0.0009	-
	0.0029	-0.0029	1 .					
6416	CD	CD	. LYS LYS LYS B B 405 405 .	0.0341	0.0262	0.0258	-0.0028	-
	0.0022	0.0007	1 .					













6552	CZ	CZ	. ARG ARG ARG B B 421 421 .	0.4536	0.4226	0.4500	0.0242	
0.0153	-0.0174	1 .						
6553	NH1	NH1	. ARG ARG ARG B B 421 421 .	0.4636	0.4512	0.4764	0.0293	
0.0285	-0.0247	1 .						
6554	NH2	NH2	. ARG ARG ARG B B 421 421 .	0.4297	0.4067	0.4527	0.0277	
0.0292	-0.0271	1 .						
6555	C	C	. ARG ARG ARG B B 421 421 .	0.1907	0.1718	0.2064	-0.0018	
0.0023	-0.0089	1 .						
6556	O	O	. ARG ARG ARG B B 421 421 .	0.2127	0.1969	0.2279	-0.0116	-
0.0046	-0.0281	1 .						
6557	N	N	. PHE PHE PHE B B 422 422 .	0.1686	0.1277	0.1606	-0.0133	-
0.0114	-0.0019	1 .						
6558	CA	CA	. PHE PHE PHE B B 422 422 .	0.1264	0.0810	0.1056	0.0051	-
0.0121	-0.0125	1 .						
6559	CB	CB	. PHE PHE PHE B B 422 422 .	0.1067	0.1008	0.1010	0.0059	-
0.0246	-0.0066	1 .						
6560	CG	CG	. PHE PHE PHE B B 422 422 .	0.1201	0.0650	0.0700	0.0002	-
0.0027	-0.0175	1 .						
6561	CD1	CD1	. PHE PHE PHE B B 422 422 .	0.1033	0.0363	0.0269	0.0253	
0.0000	0.0021	1 .						
6562	CE1	CE1	. PHE PHE PHE B B 422 422 .	0.0495	0.0660	0.0270	0.0314	
0.0063	0.0082	1 .						
6563	CZ	CZ	. PHE PHE PHE B B 422 422 .	0.0320	0.0631	0.0348	0.0085	-
0.0046	-0.0189	1 .						
6564	CE2	CE2	. PHE PHE PHE B B 422 422 .	0.1286	0.0712	0.0680	0.0096	-
0.0247	-0.0289	1 .						
6565	CD2	CD2	. PHE PHE PHE B B 422 422 .	0.0968	0.1516	0.0694	0.0022	-
0.0201	-0.0158	1 .						
6566	C	C	. PHE PHE PHE B B 422 422 .	0.1113	0.0650	0.0762	0.0002	-
0.0013	-0.0038	1 .						
6567	O	O	. PHE PHE PHE B B 422 422 .	0.1404	0.0660	0.0981	0.0010	
0.0000	-0.0032	1 .						
6568	N	N	. ALA ALA ALA B B 423 423 .	0.1108	0.0416	0.0659	-0.0213	
0.0057	0.0026	1 .						
6569	CA	CA	. ALA ALA ALA B B 423 423 .	0.0989	0.0576	0.0485	-0.0092	-
0.0002	0.0080	1 .						
6570	CB	CB	. ALA ALA ALA B B 423 423 .	0.0877	0.0484	0.0629	-0.0183	
0.0011	0.0255	1 .						
6571	C	C	. ALA ALA ALA B B 423 423 .	0.1190	0.0289	0.0789	-0.0070	
0.0045	0.0124	1 .						
6572	O	O	. ALA ALA ALA B B 423 423 .	0.1548	0.0561	0.0604	-0.0023	
0.0091	0.0013	1 .						
6573	N	N	. GLY GLY GLY B B 424 424 .	0.1060	0.0530	0.0872	-0.0244	
0.0079	0.0328	1 .						
6574	CA	CA	. GLY GLY GLY B B 424 424 .	0.1523	0.0651	0.0896	0.0103	
0.0167	0.0218	1 .						
6575	C	C	. GLY GLY GLY B B 424 424 .	0.1889	0.1087	0.1046	-0.0005	
0.0284	0.0156	1 .						
6576	O	O	. GLY GLY GLY B B 424 424 .	0.2152	0.0863	0.1010	-0.0031	
0.0324	-0.0034	1 .						
6577	N	N	. HIS HIS HIS B B 425 425 .	0.1761	0.0984	0.0941	0.0047	
0.0238	-0.0098	1 .						
6578	CA	CA	. HIS HIS HIS B B 425 425 .	0.1851	0.1399	0.1079	0.0111	
0.0260	-0.0119	1 .						



6606	N	N	. ARG ARG ARG B B 428 428 .	0.0801	0.0737	0.0701	0.0104	-
	0.0154	0.0104	1 .					
6607	CA	CA	. ARG ARG ARG B B 428 428 .	0.1243	0.0754	0.0877	-0.0059	-
	0.0143	0.0121	1 .					
6608	CB	CB	. ARG ARG ARG B B 428 428 .	0.0863	0.0838	0.0909	0.0099	
	0.0050	-0.0002	1 .					
6609	CG	CG	. ARG ARG ARG B B 428 428 .	0.1341	0.1236	0.0847	-0.0218	
	0.0221	0.0201	1 .					
6610	CD	CD	. ARG ARG ARG B B 428 428 .	0.1002	0.0832	0.0636	-0.0163	
	0.0361	-0.0038	1 .					
6611	NE	NE	. ARG ARG ARG B B 428 428 .	0.1026	0.0696	0.0316	-0.0105	
	0.0141	-0.0146	1 .					
6612	CZ	CZ	. ARG ARG ARG B B 428 428 .	0.0858	0.0748	0.0481	-0.0302	-
	0.0075	-0.0237	1 .					
6613	NH1	NH1	. ARG ARG ARG B B 428 428 .	0.1168	0.0867	0.0714	-0.0477	-
	0.0062	-0.0376	1 .					
6614	NH2	NH2	. ARG ARG ARG B B 428 428 .	0.1513	0.1324	0.0816	-0.0213	
	0.0118	0.0161	1 .					
6615	C	C	. ARG ARG ARG B B 428 428 .	0.1353	0.0928	0.1219	-0.0055	-
	0.0188	-0.0082	1 .					
6616	O	O	. ARG ARG ARG B B 428 428 .	0.1969	0.1367	0.1686	-0.0052	-
	0.0204	-0.0028	1 .					
6617	N	N	. ASN ASN ASN B B 429 429 .	0.1887	0.1138	0.1450	-0.0071	-
	0.0212	0.0157	1 .					
6618	CA	CA	. ASN ASN ASN B B 429 429 .	0.1907	0.1331	0.1527	-0.0203	-
	0.0142	0.0130	1 .					
6619	CB	CB	. ASN ASN ASN B B 429 429 .	0.2165	0.1492	0.1621	-0.0245	-
	0.0231	0.0327	1 .					
6620	CG	CG	. ASN ASN ASN B B 429 429 .	0.2539	0.1683	0.2028	-0.0320	-
	0.0314	0.0216	1 .					
6621	OD1	OD1	. ASN ASN ASN B B 429 429 .	0.3595	0.2344	0.2162	-0.1034	-
	0.0609	0.0337	1 .					
6622	ND2	ND2	. ASN ASN ASN B B 429 429 .	0.2966	0.1303	0.2648	-0.0453	-
	0.0609	0.0636	1 .					
6623	C	C	. ASN ASN ASN B B 429 429 .	0.2056	0.1562	0.1663	-0.0165	-
	0.0185	0.0057	1 .					
6624	O	O	. ASN ASN ASN B B 429 429 .	0.2328	0.1364	0.1569	0.0020	-
	0.0374	-0.0020	1 .					
6625	N	N	. PRO PRO PRO B B 430 430 .	0.2106	0.1845	0.1520	-0.0159	-
	0.0069	-0.0014	1 .					
6626	CA	CA	. PRO PRO PRO B B 430 430 .	0.2300	0.2101	0.1767	-0.0146	-
	0.0103	0.0059	1 .					
6627	CB	CB	. PRO PRO PRO B B 430 430 .	0.2317	0.2083	0.1671	-0.0169	
	0.0078	0.0005	1 .					
6628	CG	CG	. PRO PRO PRO B B 430 430 .	0.2406	0.2234	0.1327	-0.0258	-
	0.0246	0.0184	1 .					
6629	CD	CD	. PRO PRO PRO B B 430 430 .	0.1926	0.1798	0.1434	-0.0214	-
	0.0133	0.0004	1 .					
6630	C	C	. PRO PRO PRO B B 430 430 .	0.2585	0.2403	0.2250	-0.0198	-
	0.0038	0.0021	1 .					
6631	O	O	. PRO PRO PRO B B 430 430 .	0.2535	0.2539	0.2241	-0.0337	-
	0.0057	0.0104	1 .					
6632	N	N	. SER SER SER B B 431 431 .	0.2850	0.2777	0.2691	-0.0101	-
	0.0082	-0.0040	1 .					







6687	C	C	. GLY GLY GLY B B 559 559 .	0.1569	0.1432	0.1291	-0.0030	
0.0019	-0.0096	1 .						
6688	O	O	. GLY GLY GLY B B 559 559 .	0.1648	0.1467	0.1037	0.0140	
0.0085	-0.0002	1 .						
6689	O	O	. HOH HOH HOH S . 1 1 .	0.0258	0.0345	0.0254	-0.0021	
0.0002	-0.0008	1 .						
6690	O	O	. HOH HOH HOH S . 2 2 .	0.0262	0.0253	0.0273	-0.0002	
0.0013	-0.0003	1 .						
6691	O	O	. HOH HOH HOH S . 3 3 .	0.0277	0.0413	0.0302	0.0023	
0.0033	0.0050	1 .						
6692	O	O	. HOH HOH HOH S . 4 4 .	0.0402	0.0296	0.0352	0.0080	-
0.0121	-0.0065	1 .						
6693	O	O	. HOH HOH HOH S . 5 5 .	0.0293	0.0287	0.0256	-0.0036	
0.0010	-0.0009	1 .						
6694	O	O	. HOH HOH HOH S . 6 6 .	0.0271	0.0306	0.0255	-0.0030	-
0.0006	0.0011	1 .						
6695	O	O	. HOH HOH HOH S . 7 7 .	0.0406	0.0302	0.0365	0.0074	
0.0076	0.0007	1 .						
6696	O	O	. HOH HOH HOH S . 8 8 .	0.0350	0.0379	0.0318	0.0110	-
0.0078	-0.0090	1 .						
6697	O	O	. HOH HOH HOH S . 9 9 .	0.0380	0.0302	0.0384	0.0079	-
0.0129	-0.0080	1 .						
6698	O	O	. HOH HOH HOH S . 10 10 .	0.0281	0.0369	0.0255	0.0024	-
0.0002	0.0009	1 .						
6699	O	O	. HOH HOH HOH S . 11 11 .	0.0790	0.0519	0.0582	-0.0121	-
0.0108	-0.0246	1 .						
6700	O	O	. HOH HOH HOH S . 12 12 .	0.0561	0.0295	0.0638	-0.0004	-
0.0042	-0.0125	1 .						
6701	O	O	. HOH HOH HOH S . 13 13 .	0.0406	0.0603	0.0508	0.0187	
0.0013	-0.0157	1 .						
6702	O	O	. HOH HOH HOH S . 14 14 .	0.0388	0.0296	0.0537	-0.0061	-
0.0108	-0.0004	1 .						
6703	O	O	. HOH HOH HOH S . 15 15 .	0.0543	0.0275	0.0425	-0.0080	
0.0223	-0.0061	1 .						
6704	O	O	. HOH HOH HOH S . 16 16 .	0.0889	0.0481	0.0460	-0.0005	
0.0120	0.0204	1 .						
6705	O	O	. HOH HOH HOH S . 17 17 .	0.0483	0.0296	0.0404	0.0099	-
0.0186	-0.0080	1 .						
6706	O	O	. HOH HOH HOH S . 18 18 .	0.0316	0.0372	0.0253	0.0086	-
0.0006	-0.0008	1 .						
6707	O	O	. HOH HOH HOH S . 19 19 .	0.0422	0.0436	0.0704	-0.0163	
0.0235	-0.0170	1 .						
6708	O	O	. HOH HOH HOH S . 20 20 .	0.0375	0.0283	0.0324	-0.0060	-
0.0092	0.0046	1 .						
6709	O	O	. HOH HOH HOH S . 21 21 .	0.0426	0.0592	0.0372	-0.0178	
0.0118	-0.0198	1 .						
6710	O	O	. HOH HOH HOH S . 22 22 .	0.0477	0.0259	0.0257	0.0022	-
0.0029	-0.0003	1 .						
6711	O	O	. HOH HOH HOH S . 23 23 .	0.1113	0.1226	0.0606	0.0054	
0.0054	-0.0081	1 .						
6712	O	O	. HOH HOH HOH S . 24 24 .	0.0788	0.0390	0.1043	0.0253	
0.0062	0.0144	1 .						
6713	O	O	. HOH HOH HOH S . 25 25 .	0.1063	0.1177	0.0700	0.0232	
0.0309	-0.0326	1 .						













































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7254 O      O      . HOH HOH HOH S . 603 603 . 0.3548 0.1643 0.6062 -0.0756 -
0.1588 0.0790 1 .
7255 O      O      . HOH HOH HOH S . 604 604 . 0.5580 0.1770 0.3457 0.1062
0.1640 0.1305 1 .
7256 O      O      . HOH HOH HOH S . 605 605 . 0.6646 0.3213 0.9668 0.3971 -
0.1281 -0.2920 1 .
7257 O      O      . HOH HOH HOH S . 606 606 . 0.1986 0.2911 0.3323 0.0715 -
0.0883 0.1089 1 .
7258 O      O      . HOH HOH HOH S . 607 607 . 0.4670 0.0658 0.3008 0.0754
0.0807 0.0642 1 .
7259 O      O      . HOH HOH HOH S . 608 608 . 0.3150 0.5952 0.4318 -0.2350
0.0518 -0.4302 1 .
7260 O      O      . HOH HOH HOH S . 609 609 . 0.1760 0.2238 0.2056 -0.0135
0.0717 0.0227 1 .
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0.3484 0.0107 1 .
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0.1430 0.0663 1 .
7263 O      O      . HOH HOH HOH S . 614 614 . 0.5864 0.2894 0.7072 0.1136
0.1080 -0.1047 1 .
7264 O      O      . HOH HOH HOH S . 615 615 . 0.6686 0.8497 0.6147 -0.2584
0.3138 -0.4359 1 .
7265 O      O      . HOH HOH HOH S . 616 616 . 0.3092 0.2064 0.6139 -0.0784 -
0.1832 -0.2231 1 .
7266 O      O      . HOH HOH HOH S . 617 617 . 0.4392 0.2245 0.4369 -0.0948
0.1902 -0.1291 1 .
7267 O      O      . HOH HOH HOH S . 618 618 . 0.6926 0.1350 0.3307 0.0671 -
0.2738 0.0191 1 .
7268 O      O      . HOH HOH HOH S . 620 620 . 0.9974 0.8164 0.2713 -0.1267
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7269 O      O      . HOH HOH HOH S . 621 621 . 0.4903 0.2002 0.3364 -0.1037
0.2087 -0.1121 1 .
7270 O      O      . HOH HOH HOH S . 623 623 . 0.1997 0.2911 0.1174 -0.1442
0.0353 0.0209 1 .
7271 O      O      . HOH HOH HOH S . 626 626 . 0.4173 0.6067 0.5057 -0.0824 -
0.0169 0.2753 1 .
7272 O      O      . HOH HOH HOH S . 630 630 . 0.4411 0.2889 0.1995 -0.1854
0.0918 -0.0653 1 .
7273 O      O      . HOH HOH HOH S . 632 632 . 0.7251 0.9997 0.3012 -0.0186
0.0157 0.0857 1 .
7274 O      O      . HOH HOH HOH S . 633 633 . 0.3053 0.4627 0.2391 -0.0193 -
0.0336 0.0786 1 .
7275 O      O      . HOH HOH HOH S . 634 634 . 0.3259 0.4306 0.5874 -0.2582
0.2576 -0.0137 1 .
7276 O      O      . HOH HOH HOH S . 635 635 . 0.0713 0.4508 0.5102 -0.1399
0.0366 -0.0993 1 .
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REMARK 3
REMARK 3 REFINEMENT.
REMARK 3   PROGRAM      : REFMAC 5.5.0109
REMARK 3   AUTHORS     : MURSHUDOV,VAGIN,DODSON
REMARK 3
REMARK 3   REFINEMENT TARGET : MAXIMUM LIKELIHOOD
REMARK 3
REMARK 3 DATA USED IN REFINEMENT.
REMARK 3   RESOLUTION RANGE HIGH (ANGSTROMS) : 1.40
REMARK 3   RESOLUTION RANGE LOW  (ANGSTROMS) : 81.25
REMARK 3   DATA CUTOFF          (SIGMA(F)) : NONE
REMARK 3   COMPLETENESS FOR RANGE (%)      : 77.74
REMARK 3   NUMBER OF REFLECTIONS          : 131411
REMARK 3
REMARK 3 FIT TO DATA USED IN REFINEMENT.

```

REMARK 3 CROSS-VALIDATION METHOD : THROUGHOUT  
REMARK 3 FREE R VALUE TEST SET SELECTION : RANDOM  
REMARK 3 R VALUE (WORKING + TEST SET) : 0.21821  
REMARK 3 R VALUE (WORKING SET) : 0.21630  
REMARK 3 FREE R VALUE : 0.25467  
REMARK 3 FREE R VALUE TEST SET SIZE (%) : 5.0  
REMARK 3 FREE R VALUE TEST SET COUNT : 6887  
REMARK 3  
REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.  
REMARK 3 TOTAL NUMBER OF BINS USED : 20  
REMARK 3 BIN RESOLUTION RANGE HIGH : 1.400  
REMARK 3 BIN RESOLUTION RANGE LOW : 1.437  
REMARK 3 REFLECTION IN BIN (WORKING SET) : 4829  
REMARK 3 BIN COMPLETENESS (WORKING+TEST) (%) : 38.83  
REMARK 3 BIN R VALUE (WORKING SET) : 0.275  
REMARK 3 BIN FREE R VALUE SET COUNT : 238  
REMARK 3 BIN FREE R VALUE : 0.342  
REMARK 3  
REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.  
REMARK 3 ALL ATOMS : 7277  
REMARK 3  
REMARK 3 B VALUES.  
REMARK 3 FROM WILSON PLOT (A\*\*2) : NULL  
REMARK 3 MEAN B VALUE (OVERALL, A\*\*2) : 9.170  
REMARK 3 OVERALL ANISOTROPIC B VALUE.  
REMARK 3 B11 (A\*\*2) : 1.17  
REMARK 3 B22 (A\*\*2) : -0.68  
REMARK 3 B33 (A\*\*2) : -0.50  
REMARK 3 B12 (A\*\*2) : 0.00  
REMARK 3 B13 (A\*\*2) : 0.00  
REMARK 3 B23 (A\*\*2) : 0.00  
REMARK 3  
REMARK 3 ESTIMATED OVERALL COORDINATE ERROR.  
REMARK 3 ESU BASED ON R VALUE (A) : 0.111  
REMARK 3 ESU BASED ON FREE R VALUE (A) : 0.093  
REMARK 3 ESU BASED ON MAXIMUM LIKELIHOOD (A) : 0.057  
REMARK 3 ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A\*\*2) : 3.136  
REMARK 3  
REMARK 3 CORRELATION COEFFICIENTS.  
REMARK 3 CORRELATION COEFFICIENT FO-FC : 0.889  
REMARK 3 CORRELATION COEFFICIENT FO-FC FREE : 0.862  
REMARK 3  
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES COUNT RMS WEIGHT  
REMARK 3 BOND LENGTHS REFINED ATOMS (A) : 6785 ; 0.023 ; 0.022  
REMARK 3 BOND ANGLES REFINED ATOMS (DEGREES) : 9178 ; 1.987 ; 1.971  
REMARK 3 TORSION ANGLES, PERIOD 1 (DEGREES) : 867 ; 6.114 ; 5.000  
REMARK 3 TORSION ANGLES, PERIOD 2 (DEGREES) : 309 ; 39.979 ; 24.984  
REMARK 3 TORSION ANGLES, PERIOD 3 (DEGREES) : 1164 ; 14.912 ; 15.000  
REMARK 3 TORSION ANGLES, PERIOD 4 (DEGREES) : 40 ; 20.098 ; 15.000  
REMARK 3 CHIRAL-CENTER RESTRAINTS (A\*\*3) : 1027 ; 0.138 ; 0.200  
REMARK 3 GENERAL PLANES REFINED ATOMS (A) : 5134 ; 0.012 ; 0.021  
REMARK 3  
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT  
REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A\*\*2) : 4301 ; 1.813 ; 1.500

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REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A**2): 6872 ; 2.509 ; 2.000
REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A**2): 2484 ; 4.111 ; 3.000
REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A**2): 2306 ; 5.716 ; 4.500
REMARK 3
REMARK 3 ANISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT
REMARK 3 RIGID-BOND RESTRAINTS (A**2): 6785 ; 2.244 ; 3.000
REMARK 3
REMARK 3 NCS RESTRAINTS STATISTICS
REMARK 3 NUMBER OF NCS GROUPS : NULL
REMARK 3
REMARK 3 TWIN DETAILS
REMARK 3 NUMBER OF TWIN DOMAINS : NULL
REMARK 3
REMARK 3
REMARK 3 TLS DETAILS
REMARK 3 NUMBER OF TLS GROUPS : NULL
REMARK 3
REMARK 3
REMARK 3 BULK SOLVENT MODELLING.
REMARK 3 METHOD USED : MASK
REMARK 3 PARAMETERS FOR MASK CALCULATION
REMARK 3 VDW PROBE RADIUS : 1.40
REMARK 3 ION PROBE RADIUS : 0.80
REMARK 3 SHRINKAGE RADIUS : 0.80
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS:
REMARK 3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
REMARK 3 U VALUES : REFINED INDIVIDUALLY
REMARK 3

```

```

;
#
_entity_poly.entity_id 1
_entity_poly.pdbx_seq_one_letter_code
;SIQKIWAREILDSRGNPTVEVDLYTAKGLFRAAVPSGASTGIYEALELRDGDQRYLKGK
VLKAVDHINSTIAPALISSGLSVVEQEKLDNLMLELDGTENKSKFGANAILGVSLAVCKA
GAAERELPLYRHIAQLAGNSDLILPVPFAFNVINGGSHAGNKLAMQEFMILPVGAEFRDA
MRLGAEVYHTLKGVIKDKYKDATNVGDEGGFAPNILENSEALELVKEAIDKAGYTEKIV
IGMDVAASEFYRDGKYDLDFKSPTDPSRYITGDQLGALYQDFVRDYPVVSIEDPFDQDDW
AAWSKFTANVGIQIVGDDLTVTNPKRIERAVEEKACNCLLLKVNQIGSVTEAIQACKLAQ
ENGGWVMVSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEELGDEA
RFAGHNFRNPSVL

```

```

;
_entity_poly.pdbx_strand_id A,B
_entity_poly.type 'polypeptide(L)'
_entity_poly.pdbx_target_identifier ?
#

```

```

_entry.id UNNAMED
#

```

```

_exptl.crystals_number 1
_exptl.entry_id UNNAMED
_exptl.method 'X-RAY DIFFRACTION'
#

```

```

_exptl_crystal.id 1
_exptl_crystal.pdbx_mosaicity 0.503

```

_exptl_crystal.pdbx_mosaicity_esd	?
_exptl_crystal.density_Matthews	?
_exptl_crystal.density_diffrn	?
_exptl_crystal.density_meas	?
_exptl_crystal.density_meas_temp	?
_exptl_crystal.density_percent_sol	?
_exptl_crystal.size_max	?
_exptl_crystal.size_mid	?
_exptl_crystal.size_min	?
_exptl_crystal.size_rad	?
#	
_refine.entry_id	UNNAMED
_refine.pdbx_refine_id	'X-RAY DIFFRACTION'
_refine.ls_d_res_high	1.4000
_refine.ls_d_res_low	81.2500
_refine.pdbx_ls_sigma_F	0.000
_refine.pdbx_data_cutoff_high_absF	?
_refine.pdbx_data_cutoff_low_absF	?
_refine.ls_percent_reflns_obs	77.7400
_refine.ls_number_reflns_obs	138298
_refine.ls_number_reflns_all	?
_refine.pdbx_ls_cross_valid_method	THROUGHOUT
_refine.ls_matrix_type	?
_refine.pdbx_R_Free_selection_details	RANDOM
_refine.details	
' HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS U VALUES	: REFINED
INDIVIDUALLY '	
_refine.ls_R_factor_all	?
_refine.ls_R_factor_obs	0.2182
_refine.ls_R_factor_R_work	0.2163
_refine.ls_wR_factor_R_work	0.1951
_refine.ls_R_factor_R_free	0.2547
_refine.ls_wR_factor_R_free	0.2254
_refine.ls_percent_reflns_R_free	5.0000
_refine.ls_number_reflns_R_free	6887
_refine.ls_number_reflns_R_work	131411
_refine.ls_R_factor_R_free_error	?
_refine.B_iso_mean	9.1705
_refine.solvent_model_param_bsol	?
_refine.solvent_model_param_ksol	?
_refine.pdbx_isotropic_thermal_model	?
_refine.aniso_B[1][1]	1.1700
_refine.aniso_B[2][2]	-0.6800
_refine.aniso_B[3][3]	-0.5000
_refine.aniso_B[1][2]	0.0000
_refine.aniso_B[1][3]	0.0000
_refine.aniso_B[2][3]	0.0000
_refine.correlation_coeff_Fo_to_Fc	0.8890
_refine.correlation_coeff_Fo_to_Fc_free	0.8620
_refine.overall_SU_R_Cruickshank_DPI	0.1113
_refine.pdbx_overall_SU_R_free_Cruickshank_DPI	?
_refine.pdbx_overall_SU_R_Blow_DPI	?
_refine.pdbx_overall_SU_R_free_Blow_DPI	?
_refine.overall_SU_R_free	0.0928

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_refine.pdbx_overall_ESU_R          0.1110
_refine.pdbx_overall_ESU_R_Free     0.0930
_refine.overall_SU_ML               0.0570
_refine.overall_SU_B                3.1360
_refine.solvent_model_details       MASK
_refine.pdbx_solvent_vdw_probe_radii 1.4000
_refine.pdbx_solvent_ion_probe_radii 0.8000
_refine.pdbx_solvent_shrinkage_radii 0.8000
_refine.ls_number_parameters        ?
_refine.ls_number_restraints        ?
_refine.pdbx_starting_model         ?
_refine.pdbx_method_to_determine_struct ?
_refine.pdbx_stereochemistry_target_values 'MAXIMUM LIKELIHOOD'
_refine.pdbx_stereochem_target_val_spec_case ?
_refine.overall_FOM_work_R_set      0.8861
_refine.B_iso_max                   123.610
_refine.B_iso_min                   2.000
_refine.pdbx_overall_phase_error    ?
_refine.occupancy_max               1.000
_refine.occupancy_min               0.500
#
loop_
_refine_ls_restr.pdbx_refine_id
_refine_ls_restr.type
_refine_ls_restr.number
_refine_ls_restr.dev_ideal
_refine_ls_restr.dev_ideal_target
_refine_ls_restr.weight
_refine_ls_restr.pdbx_restraint_function
'X-RAY DIFFRACTION' r_bond_refined_d      6785 0.023 0.022 ? ?
'X-RAY DIFFRACTION' r_angle_refined_deg   9178 1.987 1.971 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_1_deg 867 6.114 5.000 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_2_deg 309 39.979 24.984 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_3_deg 1164 14.912 15.000 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_4_deg 40 20.098 15.000 ? ?
'X-RAY DIFFRACTION' r_chiral_restr        1027 0.138 0.200 ? ?
'X-RAY DIFFRACTION' r_gen_planes_refined  5134 0.012 0.021 ? ?
'X-RAY DIFFRACTION' r_mcbond_it           4301 1.813 1.500 ? ?
'X-RAY DIFFRACTION' r_mcbond_angle_it     6872 2.509 2.000 ? ?
'X-RAY DIFFRACTION' r_scbond_it           2484 4.111 3.000 ? ?
'X-RAY DIFFRACTION' r_scbond_angle_it     2306 5.716 4.500 ? ?
'X-RAY DIFFRACTION' r_rigid_bond_restr    6785 2.244 3.000 ? ?
#
_refine_ls_shell.d_res_high          1.4000
_refine_ls_shell.d_res_low           1.4370
_refine_ls_shell.pdbx_total_number_of_bins_used 20
_refine_ls_shell.percent_reflns_obs     38.8300
_refine_ls_shell.number_reflns_R_work   4829
_refine_ls_shell.R_factor_all          ?
_refine_ls_shell.R_factor_R_work       0.2750
_refine_ls_shell.R_factor_R_free       0.3420
_refine_ls_shell.percent_reflns_R_free  ?
_refine_ls_shell.number_reflns_R_free   238
_refine_ls_shell.R_factor_R_free_error  ?

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_refine_ls_shell.number_reflns_all      5067
_refine_ls_shell.number_reflns_obs      ?
_refine_ls_shell.pdbx_refine_id         'X-RAY DIFFRACTION'
#
_reflns.entry_id                        UNNAMED
_reflns.d_resolution_high                1.400
_reflns.d_resolution_low                 50.000
_reflns.pdbx_number_measured_all         778718
_reflns.number_obs                       150755
_reflns.pdbx_Rmerge_I_obs                0.097
_reflns.pdbx_netI_over_av_sigmaI         22.970
_reflns.pdbx_netI_over_sigmaI            7.700
_reflns.pdbx_chi_squared                  1.697
_reflns.pdbx_redundancy                   5.200
_reflns.percent_possible_obs             84.600
_reflns.pdbx_Rmeas_mean                   0.097
_reflns.pdbx_average_I_obs               1451.700
_reflns.pdbx_average_sigmaI_obs          63.200
#
loop_
_reflns_shell.d_res_high
_reflns_shell.d_res_low
_reflns_shell.number_measured_obs
_reflns_shell.number_measured_all
_reflns_shell.number_unique_obs
_reflns_shell.pdbx_rejects
_reflns_shell.Rmerge_I_obs
_reflns_shell.meanI_over_sigI_obs
_reflns_shell.pdbx_Rsym_value
_reflns_shell.pdbx_chi_squared
_reflns_shell.pdbx_redundancy
_reflns_shell.percent_possible_obs
_reflns_shell.pdbx_Rmeas_mean
_reflns_shell.pdbx_netI_over_sigmaI_obs
_reflns_shell.pdbx_number_centric
_reflns_shell.pdbx_number_anomalous
_reflns_shell.pdbx_Rmerge_I_anomalous
_reflns_shell.pdbx_meanI_over_sigI_anomalous
_reflns_shell.pdbx_PCV_mean
_reflns_shell.number_possible
_reflns_shell.number_unique_all
_reflns_shell.Rmerge_F_all
_reflns_shell.Rmerge_F_obs
_reflns_shell.Rmerge_I_all
_reflns_shell.meanI_over_sigI_all
_reflns_shell.percent_possible_all
_reflns_shell.pdbx_Rrim_I_all
_reflns_shell.pdbx_Rpim_I_all
1.400 1.450  ? ? ? ? 0.791 ? ? 0.724 3.500 ? ? ? ? ? ? ? ? ? 9000 ? ? ? ?
51.000 ? ?
1.450 1.510  ? ? ? ? 0.688 ? ? 0.748 4.300 ? ? ? ? ? ? ? ? ? 11077 ? ? ? ?
62.800 ? ?
1.510 1.580  ? ? ? ? 0.593 ? ? 0.802 4.800 ? ? ? ? ? ? ? ? ? 12536 ? ? ? ?
71.000 ? ?

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1.580 1.660 ? ? ? ? 0.508 ? ? 0.859 5.100 ? ? ? ? ? ? ? ? ? 14089 ? ? ? ?
79.600 ? ?
1.660 1.760 ? ? ? ? 0.382 ? ? 1.004 5.100 ? ? ? ? ? ? ? ? ? 15822 ? ? ? ?
89.500 ? ?
1.760 1.900 ? ? ? ? 0.284 ? ? 1.172 5.200 ? ? ? ? ? ? ? ? ? 17168 ? ? ? ?
96.600 ? ?
1.900 2.090 ? ? ? ? 0.192 ? ? 1.483 5.400 ? ? ? ? ? ? ? ? ? 17528 ? ? ? ?
98.600 ? ?
2.090 2.390 ? ? ? ? 0.130 ? ? 2.012 5.500 ? ? ? ? ? ? ? ? ? 17746 ? ? ? ?
99.400 ? ?
2.390 3.020 ? ? ? ? 0.091 ? ? 2.667 5.600 ? ? ? ? ? ? ? ? ? 17760 ? ? ? ?
98.900 ? ?
3.020 50.000 ? ? ? ? 0.057 ? ? 3.321 5.900 ? ? ? ? ? ? ? ? ? 18029 ? ? ? ?
97.300 ? ?
#
loop_
  _software.pdbx_ordinal
  _software.name
  _software.version
  _software.date
  _software.type
  _software.contact_author
  _software.contact_author_email
  _software.classification
  _software.location
  _software.language
1 HKL ? ? package 'Zbyszek Otwinowski' hkl@hkl-
xray.com
'data reduction' http://www.hkl-xray.com/ ?
2 REFMAC5 ? ? program 'Garib N. Murshudov'
garib@ysbl.york.ac.uk
refinement http://www.ccp4.ac.uk/dist/html/refmac5.html Fortran_77
3 pdb_extract 3.10 'June 10, 2010' package PDB
deposit@deposit.rcsb.org
'data extraction' http://sw-tools.pdb.org/apps/PDB_EXTRACT/ C++
#
_struct_biol.id 1
_struct_biol.details ?
#
_symmetry.space_group_name_H-M 'P 21 21 2'
_symmetry.entry_id UNNAMED
_symmetry.Int_Tables_number 18
#

```





ATOM 19	CD	CD	.	GLU	GLU	GLU	A	A	3	3	.	11.332	20.153	15.153	1.00	38.15	1	.
ATOM 20	OE1	OE1	.	GLU	GLU	GLU	A	A	3	3	.	11.678	21.004	14.267	1.00	40.65	1	.
ATOM 21	OE2	OE2	.	GLU	GLU	GLU	A	A	3	3	.	10.146	20.103	15.563	1.00	42.35	1	.
ATOM 22	C	C	.	GLU	GLU	GLU	A	A	3	3	.	15.784	17.983	14.288	1.00	18.73	1	.
ATOM 23	O	O	.	GLU	GLU	GLU	A	A	3	3	.	15.683	17.071	13.490	1.00	20.01	1	.
ATOM 24	N	N	.	LYS	LYS	LYS	A	A	4	4	.	16.760	18.901	14.217	1.00	16.27	1	.
ATOM 25	CA	CA	.	LYS	LYS	LYS	A	A	4	4	.	17.734	18.906	13.107	1.00	15.33	1	.
ATOM 26	CB	CB	.	LYS	LYS	LYS	A	A	4	4	.	17.101	19.469	11.832	1.00	16.13	1	.
ATOM 27	CG	CG	.	LYS	LYS	LYS	A	A	4	4	.	18.087	19.508	10.729	1.00	19.16	1	.
ATOM 28	CD	CD	.	LYS	LYS	LYS	A	A	4	4	.	17.450	20.150	9.473	1.00	24.57	1	.
ATOM 29	CE	CE	.	LYS	LYS	LYS	A	A	4	4	.	18.483	20.110	8.290	1.00	24.45	1	.
ATOM 30	NZ	NZ	.	LYS	LYS	LYS	A	A	4	4	.	17.781	20.625	7.059	1.00	34.71	1	.
ATOM 31	C	C	.	LYS	LYS	LYS	A	A	4	4	.	18.890	19.814	13.549	1.00	14.74	1	.
ATOM 32	O	O	.	LYS	LYS	LYS	A	A	4	4	.	18.642	20.798	14.298	1.00	15.00	1	.
ATOM 33	N	N	.	ILE	ILE	ILE	A	A	5	5	.	20.102	19.416	13.187	1.00	12.32	1	.
ATOM 34	CA	CA	.	ILE	ILE	ILE	A	A	5	5	.	21.294	20.252	13.407	1.00	13.31	1	.
ATOM 35	CB	CB	.	ILE	ILE	ILE	A	A	5	5	.	22.208	19.650	14.475	1.00	11.91	1	.
ATOM 36	CG1	CG1	.	ILE	ILE	ILE	A	A	5	5	.	21.558	19.881	15.848	1.00	11.87	1	.
ATOM 37	CD	CD	.	ILE	ILE	ILE	A	A	5	5	.	22.266	19.051	16.970	1.00	16.19	1	.
ATOM 38	CG2	CG2	.	ILE	ILE	ILE	A	A	5	5	.	23.646	20.226	14.392	1.00	14.15	1	.
ATOM 39	C	C	.	ILE	ILE	ILE	A	A	5	5	.	22.016	20.339	12.087	1.00	14.49	1	.
ATOM 40	O	O	.	ILE	ILE	ILE	A	A	5	5	.	22.273	19.300	11.373	1.00	16.48	1	.
ATOM 41	N	N	.	TRP	TRP	TRP	A	A	6	6	.	22.367	21.581	11.705	1.00	13.62	1	.
ATOM 42	CA	CA	.	TRP	TRP	TRP	A	A	6	6	.	23.161	21.751	10.502	1.00	13.06	1	.
ATOM 43	CB	CB	.	TRP	TRP	TRP	A	A	6	6	.	22.272	22.167	9.289	1.00	11.41	1	.
ATOM 44	CG	CG	.	TRP	TRP	TRP	A	A	6	6	.	23.092	22.196	8.014	1.00	14.43	1	.
ATOM 45	CD1	CD1	.	TRP	TRP	TRP	A	A	6	6	.	23.518	23.312	7.320	1.00	13.23	1	.
ATOM 46	NE1	NE1	.	TRP	TRP	TRP	A	A	6	6	.	24.254	22.947	6.241	1.00	16.64	1	.
ATOM 47	CE2	CE2	.	TRP	TRP	TRP	A	A	6	6	.	24.333	21.579	6.167	1.00	16.97	1	.
ATOM 48	CD2	CD2	.	TRP	TRP	TRP	A	A	6	6	.	23.647	21.057	7.293	1.00	15.22	1	.

ATOM 49	CE3	CE3	.	TRP	TRP	TRP	A	A	6	6	.	23.579	19.645	7.460	1.00	16.36	1	.
ATOM 50	CZ3	CZ3	.	TRP	TRP	TRP	A	A	6	6	.	24.231	18.822	6.496	1.00	16.47	1	.
ATOM 51	CH2	CH2	.	TRP	TRP	TRP	A	A	6	6	.	24.907	19.398	5.413	1.00	19.19	1	.
ATOM 52	CZ2	CZ2	.	TRP	TRP	TRP	A	A	6	6	.	24.976	20.764	5.235	1.00	19.41	1	.
ATOM 53	C	C	.	TRP	TRP	TRP	A	A	6	6	.	24.215	22.819	10.704	1.00	12.88	1	.
ATOM 54	O	O	.	TRP	TRP	TRP	A	A	6	6	.	23.895	23.963	11.083	1.00	14.19	1	.
ATOM 55	N	N	.	ALA	ALA	ALA	A	A	7	7	.	25.457	22.417	10.484	1.00	10.50	1	.
ATOM 56	CA	CA	.	ALA	ALA	ALA	A	A	7	7	.	26.599	23.296	10.603	1.00	11.98	1	.
ATOM 57	CB	CB	.	ALA	ALA	ALA	A	A	7	7	.	27.739	22.598	11.352	1.00	12.95	1	.
ATOM 58	C	C	.	ALA	ALA	ALA	A	A	7	7	.	27.123	23.743	9.247	1.00	11.45	1	.
ATOM 59	O	O	.	ALA	ALA	ALA	A	A	7	7	.	27.007	22.994	8.240	1.00	11.45	1	.
ATOM 60	N	N	.	ARG	ARG	ARG	A	A	8	8	.	27.837	24.882	9.248	1.00	10.88	1	.
ATOM 61	CA	CA	.	ARG	ARG	ARG	A	A	8	8	.	28.491	25.378	8.013	1.00	11.02	1	.
ATOM 62	CB	CB	.	ARG	ARG	ARG	A	A	8	8	.	27.520	26.280	7.235	1.00	10.43	1	.
ATOM 63	CG	CG	.	ARG	ARG	ARG	A	A	8	8	.	27.236	27.636	7.940	1.00	11.70	1	.
ATOM 64	CD	CD	.	ARG	ARG	ARG	A	A	8	8	.	26.280	28.566	7.135	1.00	12.33	1	.
ATOM 65	NE	NE	.	ARG	ARG	ARG	A	A	8	8	.	24.963	27.902	6.981	1.00	12.27	1	.
ATOM 66	CZ	CZ	.	ARG	ARG	ARG	A	A	8	8	.	24.045	27.808	7.935	1.00	12.45	1	.
ATOM 67	NH1	NH1	.	ARG	ARG	ARG	A	A	8	8	.	24.167	28.494	9.107	1.00	12.36	1	.
ATOM 68	NH2	NH2	.	ARG	ARG	ARG	A	A	8	8	.	22.938	27.085	7.705	1.00	14.58	1	.
ATOM 69	C	C	.	ARG	ARG	ARG	A	A	8	8	.	29.750	26.153	8.357	1.00	11.67	1	.
ATOM 70	O	O	.	ARG	ARG	ARG	A	A	8	8	.	29.944	26.524	9.522	1.00	12.43	1	.
ATOM 71	N	N	.	GLU	GLU	GLU	A	A	9	9	.	30.581	26.471	7.357	1.00	10.59	1	.
ATOM 72	CA	CA	.	GLU	GLU	GLU	A	A	9	9	.	31.753	27.309	7.535	1.00	12.62	1	.
ATOM 73	CB	CB	.	GLU	GLU	GLU	A	A	9	9	.	32.759	26.748	6.537	1.00	15.14	1	.
ATOM 74	CG	CG	.	GLU	GLU	GLU	A	A	9	9	.	34.097	27.192	6.546	1.00	20.31	1	.
ATOM 75	CD	CD	.	GLU	GLU	GLU	A	A	9	9	.	34.919	26.468	5.457	1.00	18.44	1	.
ATOM 76	OE1	OE1	.	GLU	GLU	GLU	A	A	9	9	.	35.975	25.865	5.797	1.00	15.33	1	.
ATOM 77	OE2	OE2	.	GLU	GLU	GLU	A	A	9	9	.	34.509	26.557	4.244	1.00	19.38	1	.
ATOM 78	C	C	.	GLU	GLU	GLU	A	A	9	9	.	31.268	28.748	7.183	1.00	12.29	1	.

ATOM 79	O	O	.	GLU	GLU	GLU	A	A	9	9	.	30.596	28.950	6.137	1.00	17.13	1	.
ATOM 80	N	N	.	ILE	ILE	ILE	A	A	10	10	.	31.564	29.680	8.085	1.00	10.79	1	.
ATOM 81	CA	CA	.	ILE	ILE	ILE	A	A	10	10	.	31.410	31.112	7.814	1.00	10.88	1	.
ATOM 82	CB	CB	.	ILE	ILE	ILE	A	A	10	10	.	30.365	31.756	8.757	1.00	10.05	1	.
ATOM 83	CG1	CG1	.	ILE	ILE	ILE	A	A	10	10	.	30.777	31.613	10.245	1.00	11.75	1	.
ATOM 84	CD	CD	.	ILE	ILE	ILE	A	A	10	10	.	29.967	32.567	11.133	1.00	14.23	1	.
ATOM 85	CG2	CG2	.	ILE	ILE	ILE	A	A	10	10	.	28.919	31.209	8.472	1.00	13.45	1	.
ATOM 86	C	C	.	ILE	ILE	ILE	A	A	10	10	.	32.779	31.739	7.958	1.00	11.54	1	.
ATOM 87	O	O	.	ILE	ILE	ILE	A	A	10	10	.	33.737	31.049	8.300	1.00	12.60	1	.
ATOM 88	N	N	.	LEU	LEU	LEU	A	A	11	11	.	32.897	33.045	7.675	1.00	9.67	1	.
ATOM 89	CA	CA	.	LEU	LEU	LEU	A	A	11	11	.	34.155	33.711	7.960	1.00	8.55	1	.
ATOM 90	CB	CB	.	LEU	LEU	LEU	A	A	11	11	.	34.602	34.647	6.797	1.00	9.61	1	.
ATOM 91	CG	CG	.	LEU	LEU	LEU	A	A	11	11	.	34.814	33.844	5.467	1.00	10.79	1	.
ATOM 92	CD1	CD1	.	LEU	LEU	LEU	A	A	11	11	.	35.417	34.879	4.465	1.00	13.38	1	.
ATOM 93	CD2	CD2	.	LEU	LEU	LEU	A	A	11	11	.	35.848	32.683	5.696	1.00	16.13	1	.
ATOM 94	C	C	.	LEU	LEU	LEU	A	A	11	11	.	34.056	34.533	9.230	1.00	8.49	1	.
ATOM 95	O	O	.	LEU	LEU	LEU	A	A	11	11	.	33.075	35.252	9.438	1.00	8.90	1	.
ATOM 96	N	N	.	ASP	ASP	ASP	A	A	12	12	.	35.140	34.485	9.979	1.00	9.54	1	.
ATOM 97	CA	CA	.	ASP	ASP	ASP	A	A	12	12	.	35.322	35.335	11.190	1.00	8.87	1	.
ATOM 98	CB	CB	.	ASP	ASP	ASP	A	A	12	12	.	36.204	34.598	12.280	1.00	8.93	1	.
ATOM 99	CG	CG	.	ASP	ASP	ASP	A	A	12	12	.	37.719	34.613	11.987	1.00	12.39	1	.
ATOM 100	OD1	OD1	.	ASP	ASP	ASP	A	A	12	12	.	38.176	35.325	11.074	1.00	11.93	1	.
ATOM 101	OD2	OD2	.	ASP	ASP	ASP	A	A	12	12	.	38.482	33.964	12.778	1.00	14.43	1	.
ATOM 102	C	C	.	ASP	ASP	ASP	A	A	12	12	.	35.816	36.728	10.879	1.00	10.34	1	.
ATOM 103	O	O	.	ASP	ASP	ASP	A	A	12	12	.	35.977	37.099	9.699	1.00	8.92	1	.
ATOM 104	N	N	.	SER	SER	SER	A	A	13	13	.	36.107	37.514	11.950	1.00	8.76	1	.
ATOM 105	CA	CA	.	SER	SER	SER	A	A	13	13	.	36.356	38.935	11.739	1.00	9.20	1	.
ATOM 106	CB	CB	.	SER	SER	SER	A	A	13	13	.	36.252	39.672	13.061	1.00	9.68	1	.
ATOM 107	OG	OG	.	SER	SER	SER	A	A	13	13	.	37.167	39.133	14.013	1.00	11.48	1	.
ATOM 108	C	C	.	SER	SER	SER	A	A	13	13	.	37.726	39.203	11.092	1.00	8.68	1	.



































































ATOM 979 O O . HIS HIS HIS A A 132 132 . 20.082 29.604 32.388 1.00 15.17 1 .  
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ATOM 980 N N . ILE ILE ILE A A 133 133 . 20.925 31.321 31.218 1.00 13.81 1 .  
.  
ATOM 981 CA CA . ILE ILE ILE A A 133 133 . 22.272 31.081 31.701 1.00 13.71 1 .  
.  
ATOM 982 CB CB . ILE ILE ILE A A 133 133 . 23.236 32.049 30.976 1.00 13.80 1 .  
.  
ATOM 983 CG1 CG1 . ILE ILE ILE A A 133 133 . 23.335 31.529 29.499 1.00 13.50 1 .  
.  
ATOM 984 CD CD . ILE ILE ILE A A 133 133 . 24.170 32.569 28.599 1.00 15.35 1 .  
.  
ATOM 985 CG2 CG2 . ILE ILE ILE A A 133 133 . 24.630 32.090 31.692 1.00 15.54 1 .  
.  
ATOM 986 C C . ILE ILE ILE A A 133 133 . 22.336 31.293 33.240 1.00 14.53 1 .  
.  
ATOM 987 O O . ILE ILE ILE A A 133 133 . 22.988 30.513 33.895 1.00 17.28 1 .  
.  
ATOM 988 N N . ALA ALA ALA A A 134 134 . 21.733 32.362 33.760 1.00 16.81 1 .  
.  
ATOM 989 CA CA . ALA ALA ALA A A 134 134 . 21.633 32.578 35.228 1.00 17.30 1 .  
.  
ATOM 990 CB CB . ALA ALA ALA A A 134 134 . 20.813 33.808 35.532 1.00 17.72 1 .  
.  
ATOM 991 C C . ALA ALA ALA A A 134 134 . 21.064 31.316 35.897 1.00 18.35 1 .  
.  
ATOM 992 O O . ALA ALA ALA A A 134 134 . 21.615 30.800 36.888 1.00 19.30 1 .  
.  
ATOM 993 N N . GLN GLN GLN A A 135 135 . 20.017 30.762 35.327 1.00 19.36 1 .  
.  
ATOM 994 CA CA . GLN GLN GLN A A 135 135 . 19.427 29.550 35.943 1.00 19.38 1 .  
.  
ATOM 995 CB CB . GLN GLN GLN A A 135 135 . 18.082 29.212 35.314 1.00 18.68 1 .  
.  
ATOM 996 CG CG . GLN GLN GLN A A 135 135 . 17.114 30.269 35.726 1.00 22.15 1 .  
.  
ATOM 997 CD CD . GLN GLN GLN A A 135 135 . 15.657 30.006 35.282 1.00 23.64 1 .  
.  
ATOM 998 OE1 OE1 . GLN GLN GLN A A 135 135 . 15.336 28.979 34.622 1.00 29.04 1 .  
.  
ATOM 999 NE2 NE2 . GLN GLN GLN A A 135 135 . 14.767 30.937 35.663 1.00 26.12 1 .  
.  
ATOM 1000 C C . GLN GLN GLN A A 135 135 . 20.371 28.351 35.903 1.00 20.06 1 .  
.  
ATOM 1001 O O . GLN GLN GLN A A 135 135 . 20.488 27.620 36.896 1.00 22.19 1 .  
.  
ATOM 1002 N N . LEU LEU LEU A A 136 136 . 21.052 28.148 34.763 1.00 18.55 1 .  
.  
ATOM 1003 CA CA . LEU LEU LEU A A 136 136 . 22.017 27.078 34.636 1.00 20.00 1 .  
.  
ATOM 1004 CB CB . LEU LEU LEU A A 136 136 . 22.695 27.060 33.254 1.00 18.55 1 .  
.  
ATOM 1005 CG CG . LEU LEU LEU A A 136 136 . 21.782 26.650 32.102 1.00 15.40 1 .  
.  
ATOM 1006 CD1 CD1 . LEU LEU LEU A A 136 136 . 22.521 26.817 30.767 1.00 16.65 1 .  
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ATOM 1007 CD2 CD2 . LEU LEU LEU A A 136 136 . 21.321 25.162 32.258 1.00 19.35 1 .  
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ATOM 1008 C C . LEU LEU LEU A A 136 136 . 23.121 27.222 35.686 1.00 20.86 1 .  
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ATOM 1099 O O . PHE PHE PHE A A 149 149 . 39.889 49.283 26.057 1.00 15.39 1 .  
.ATOM 1100 N N . ASN ASN ASN A A 150 150 . 39.595 47.553 24.614 1.00 15.21 1 .  
.ATOM 1101 CA CA . ASN ASN ASN A A 150 150 . 41.008 47.489 24.187 1.00 16.22 1 .  
.ATOM 1102 CB CB . ASN ASN ASN A A 150 150 . 41.221 46.050 23.613 1.00 17.50 1 .  
.ATOM 1103 CG CG . ASN ASN ASN A A 150 150 . 42.607 45.782 23.030 1.00 21.42 1 .  
.ATOM 1104 OD1 OD1 . ASN ASN ASN A A 150 150 . 42.816 44.716 22.386 1.00 24.81 1 .  
.ATOM 1105 ND2 ND2 . ASN ASN ASN A A 150 150 . 43.589 46.691 23.278 1.00 18.54 1 .  
.ATOM 1106 C C . ASN ASN ASN A A 150 150 . 41.257 48.552 23.140 1.00 18.34 1 .  
.ATOM 1107 O O . ASN ASN ASN A A 150 150 . 41.095 48.272 21.936 1.00 19.60 1 .  
.ATOM 1108 N N . VAL VAL VAL A A 151 151 . 41.746 49.735 23.561 1.00 16.78 1 .  
.ATOM 1109 CA CA . VAL VAL VAL A A 151 151 . 41.785 50.882 22.682 1.00 18.11 1 .  
.ATOM 1110 CB CB . VAL VAL VAL A A 151 151 . 41.256 52.124 23.393 1.00 19.63 1 .  
.ATOM 1111 CG1 CG1 . VAL VAL VAL A A 151 151 . 39.776 51.915 23.805 1.00 21.15 1 .  
.ATOM 1112 CG2 CG2 . VAL VAL VAL A A 151 151 . 42.191 52.532 24.587 1.00 19.06 1 .  
.ATOM 1113 C C . VAL VAL VAL A A 151 151 . 43.125 51.119 22.007 1.00 17.75 1 .  
.ATOM 1114 O O . VAL VAL VAL A A 151 151 . 43.132 51.964 21.078 1.00 18.41 1 .  
.ATOM 1115 N N . ILE ILE ILE A A 152 152 . 44.204 50.445 22.447 1.00 16.52 1 .  
.ATOM 1116 CA CA . ILE ILE ILE A A 152 152 . 45.442 50.414 21.737 1.00 20.02 1 .  
.ATOM 1117 CB CB . ILE ILE ILE A A 152 152 . 46.620 51.256 22.401 1.00 19.56 1 .  
.ATOM 1118 CG1 CG1 . ILE ILE ILE A A 152 152 . 46.180 52.729 22.394 1.00 21.74 1 .  
.ATOM 1119 CD CD . ILE ILE ILE A A 152 152 . 47.145 53.713 22.957 1.00 21.46 1 .  
.ATOM 1120 CG2 CG2 . ILE ILE ILE A A 152 152 . 47.952 50.987 21.608 1.00 21.48 1 .  
.ATOM 1121 C C . ILE ILE ILE A A 152 152 . 45.807 48.951 21.652 1.00 20.40 1 .  
.ATOM 1122 O O . ILE ILE ILE A A 152 152 . 45.872 48.247 22.673 1.00 21.19 1 .  
.ATOM 1123 N N . ASN ASN ASN A A 153 153 . 45.992 48.473 20.394 1.00 20.42 1 .  
.ATOM 1124 CA CA . ASN ASN ASN A A 153 153 . 46.286 47.089 20.174 1.00 20.35 1 .  
.ATOM 1125 CB CB . ASN ASN ASN A A 153 153 . 45.531 46.585 18.924 1.00 19.34 1 .  
.ATOM 1126 CG CG . ASN ASN ASN A A 153 153 . 44.004 46.443 19.147 1.00 23.02 1 .  
.ATOM 1127 OD1 OD1 . ASN ASN ASN A A 153 153 . 43.261 46.076 18.204 1.00 20.12 1 .  
.ATOM 1128 ND2 ND2 . ASN ASN ASN A A 153 153 . 43.525 46.758 20.374 1.00 25.45 1 .  
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ATOM 1129 C C . ASN ASN ASN A A 153 153 . 47.744 46.948 19.890 1.00 20.99 1 .  
.ATOM 1130 O O . ASN ASN ASN A A 153 153 . 48.312 47.778 19.125 1.00 21.93 1 .  
.ATOM 1131 N N . GLY GLY GLY A A 154 154 . 48.357 45.955 20.487 1.00 23.12 1 .  
.ATOM 1132 CA CA . GLY GLY GLY A A 154 154 . 49.757 45.609 20.193 1.00 22.65 1 .  
.ATOM 1133 C C . GLY GLY GLY A A 154 154 . 49.933 44.094 20.064 1.00 21.06 1 .  
.ATOM 1134 O O . GLY GLY GLY A A 154 154 . 48.983 43.380 19.722 1.00 20.81 1 .  
.ATOM 1135 N N . GLY GLY GLY A A 155 155 . 51.116 43.582 20.384 1.00 19.67 1 .  
.ATOM 1136 CA CA . GLY GLY GLY A A 155 155 . 51.394 42.166 20.335 1.00 21.63 1 .  
.ATOM 1137 C C . GLY GLY GLY A A 155 155 . 51.028 41.506 19.012 1.00 23.48 1 .  
.ATOM 1138 O O . GLY GLY GLY A A 155 155 . 51.220 42.083 17.908 1.00 22.67 1 .  
.ATOM 1139 N N . SER SER SER A A 156 156 . 50.422 40.319 19.116 1.00 23.09 1 .  
.ATOM 1140 CA CA . SER SER SER A A 156 156 . 50.100 39.548 17.936 1.00 25.03 1 .  
.ATOM 1141 CB CB . SER SER SER A A 156 156 . 49.913 38.078 18.364 1.00 25.22 1 .  
.ATOM 1142 OG OG . SER SER SER A A 156 156 . 51.183 37.508 18.765 1.00 27.17 1 .  
.ATOM 1143 C C . SER SER SER A A 156 156 . 48.835 40.047 17.229 1.00 23.13 1 .  
.ATOM 1144 O O . SER SER SER A A 156 156 . 48.406 39.422 16.239 1.00 24.90 1 .  
.ATOM 1145 N N . HIS HIS HIS A A 157 157 . 48.251 41.158 17.718 1.00 21.27 1 .  
.ATOM 1146 CA CA . HIS HIS HIS A A 157 157 . 47.037 41.689 17.101 1.00 20.21 1 .  
.ATOM 1147 CB CB . HIS HIS HIS A A 157 157 . 46.036 42.125 18.189 1.00 21.05 1 .  
.ATOM 1148 CG CG . HIS HIS HIS A A 157 157 . 45.529 40.990 19.022 1.00 19.58 1 .  
.ATOM 1149 ND1 ND1 . HIS HIS HIS A A 157 157 . 44.778 41.182 20.173 1.00 20.97 1 .  
.ATOM 1150 CE1 CE1 . HIS HIS HIS A A 157 157 . 44.496 40.000 20.707 1.00 23.20 1 .  
.ATOM 1151 NE2 NE2 . HIS HIS HIS A A 157 157 . 45.048 39.052 19.950 1.00 20.86 1 .  
.ATOM 1152 CD2 CD2 . HIS HIS HIS A A 157 157 . 45.707 39.650 18.894 1.00 22.16 1 .  
.ATOM 1153 C C . HIS HIS HIS A A 157 157 . 47.245 42.906 16.276 1.00 20.42 1 .  
.ATOM 1154 O O . HIS HIS HIS A A 157 157 . 46.245 43.438 15.737 1.00 18.43 1 .  
.ATOM 1155 N N . ALA ALA ALA A A 158 158 . 48.509 43.380 16.122 1.00 20.71 1 .  
.ATOM 1156 CA CA . ALA ALA ALA A A 158 158 . 48.685 44.618 15.348 1.00 21.20 1 .  
.ATOM 1157 CB CB . ALA ALA ALA A A 158 158 . 48.418 45.878 16.208 1.00 21.98 1 .  
.ATOM 1158 C C . ALA ALA ALA A A 158 158 . 50.081 44.653 14.689 1.00 21.28 1 .  
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ATOM 1159 O O . ALA ALA ALA A A 158 158 . 51.000 43.969 15.162 1.00 23.06 1 .  
.  
ATOM 1160 N N . GLY GLY GLY A A 159 159 . 50.140 45.388 13.596 1.00 22.84 1 .  
.  
ATOM 1161 CA CA . GLY GLY GLY A A 159 159 . 51.372 45.667 12.858 1.00 25.69 1 .  
.  
ATOM 1162 C C . GLY GLY GLY A A 159 159 . 51.997 46.912 13.508 1.00 26.51 1 .  
.  
ATOM 1163 O O . GLY GLY GLY A A 159 159 . 51.732 48.054 13.115 1.00 30.37 1 .  
.  
ATOM 1164 N N . ASN ASN ASN A A 160 160 . 52.768 46.695 14.552 1.00 27.41 1 .  
.  
ATOM 1165 CA CA . ASN ASN ASN A A 160 160 . 53.532 47.786 15.193 1.00 25.66 1 .  
.  
ATOM 1166 CB CB . ASN ASN ASN A A 160 160 . 52.636 48.795 15.970 1.00 24.31 1 .  
.  
ATOM 1167 CG CG . ASN ASN ASN A A 160 160 . 51.687 48.126 17.020 1.00 25.70 1 .  
.  
ATOM 1168 OD1 OD1 . ASN ASN ASN A A 160 160 . 51.781 46.915 17.330 1.00 21.24 1 .  
.  
ATOM 1169 ND2 ND2 . ASN ASN ASN A A 160 160 . 50.791 48.976 17.624 1.00 24.16 1 .  
.  
ATOM 1170 C C . ASN ASN ASN A A 160 160 . 54.571 47.067 16.025 1.00 23.79 1 .  
.  
ATOM 1171 O O . ASN ASN ASN A A 160 160 . 54.570 45.843 16.010 1.00 24.11 1 .  
.  
ATOM 1172 N N . LYS LYS LYS A A 161 161 . 55.508 47.769 16.682 1.00 23.28 1 .  
.  
ATOM 1173 CA CA . LYS LYS LYS A A 161 161 . 56.495 47.062 17.513 1.00 23.98 1 .  
.  
ATOM 1174 CB CB . LYS LYS LYS A A 161 161 . 57.764 47.901 17.671 1.00 24.15 1 .  
.  
ATOM 1175 CG CG . LYS LYS LYS A A 161 161 . 58.362 48.384 16.265 1.00 30.08 1 .  
.  
ATOM 1176 CD CD . LYS LYS LYS A A 161 161 . 59.847 48.828 16.446 1.00 35.48 1 .  
.  
ATOM 1177 CE CE . LYS LYS LYS A A 161 161 . 60.430 49.328 15.155 1.00 38.10 1 .  
.  
ATOM 1178 NZ NZ . LYS LYS LYS A A 161 161 . 61.689 50.121 15.472 1.00 40.34 1 .  
.  
ATOM 1179 C C . LYS LYS LYS A A 161 161 . 55.967 46.782 18.904 1.00 23.96 1 .  
.  
ATOM 1180 O O . LYS LYS LYS A A 161 161 . 56.466 45.892 19.560 1.00 25.33 1 .  
.  
ATOM 1181 N N . LEU LEU LEU A A 162 162 . 54.963 47.572 19.329 1.00 25.16 1 .  
.  
ATOM 1182 CA CA . LEU LEU LEU A A 162 162 . 54.359 47.495 20.688 1.00 23.88 1 .  
.  
ATOM 1183 CB CB . LEU LEU LEU A A 162 162 . 53.070 48.290 20.646 1.00 23.39 1 .  
.  
ATOM 1184 CG CG . LEU LEU LEU A A 162 162 . 52.315 48.495 21.996 1.00 23.40 1 .  
.  
ATOM 1185 CD1 CD1 . LEU LEU LEU A A 162 162 . 53.125 49.409 22.919 1.00 27.59 1 .  
.  
ATOM 1186 CD2 CD2 . LEU LEU LEU A A 162 162 . 51.013 49.210 21.651 1.00 24.56 1 .  
.  
ATOM 1187 C C . LEU LEU LEU A A 162 162 . 54.139 45.999 21.069 1.00 23.26 1 .  
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ATOM 1188 O O . LEU LEU LEU A A 162 162 . 53.370 45.300 20.363 1.00 24.18 1 .  
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ATOM 1399 O O . HIS HIS HIS A A 189 189 . 39.189 60.694 19.120 1.00 18.68 1 .  
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ATOM 1400 N N . THR THR THR A A 190 190 . 38.559 60.486 21.302 1.00 16.39 1 .  
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ATOM 1401 CA CA . THR THR THR A A 190 190 . 39.519 61.506 21.756 1.00 17.88 1 .  
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ATOM 1402 CB CB . THR THR THR A A 190 190 . 39.263 61.828 23.270 1.00 17.39 1 .  
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ATOM 1403 OG1 OG1 . THR THR THR A A 190 190 . 37.962 62.330 23.391 1.00 20.46 1 .  
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ATOM 1404 CG2 CG2 . THR THR THR A A 190 190 . 40.299 62.921 23.743 1.00 20.75 1 .  
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ATOM 1405 C C . THR THR THR A A 190 190 . 40.941 60.981 21.536 1.00 17.25 1 .  
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ATOM 1406 O O . THR THR THR A A 190 190 . 41.842 61.670 21.022 1.00 19.10 1 .  
.  
ATOM 1407 N N . LEU LEU LEU A A 191 191 . 41.151 59.706 21.855 1.00 18.43 1 .  
.  
ATOM 1408 CA CA . LEU LEU LEU A A 191 191 . 42.408 59.002 21.673 1.00 17.41 1 .  
.  
ATOM 1409 CB CB . LEU LEU LEU A A 191 191 . 42.311 57.556 22.152 1.00 17.69 1 .  
.  
ATOM 1410 CG CG . LEU LEU LEU A A 191 191 . 43.571 56.695 22.003 1.00 16.50 1 .  
.  
ATOM 1411 CD1 CD1 . LEU LEU LEU A A 191 191 . 44.906 57.311 22.679 1.00 17.35 1 .  
.  
ATOM 1412 CD2 CD2 . LEU LEU LEU A A 191 191 . 43.324 55.209 22.516 1.00 19.25 1 .  
.  
ATOM 1413 C C . LEU LEU LEU A A 191 191 . 42.842 59.030 20.211 1.00 17.16 1 .  
.  
ATOM 1414 O O . LEU LEU LEU A A 191 191 . 44.029 59.185 19.899 1.00 17.81 1 .  
.  
ATOM 1415 N N . LYS LYS LYS A A 192 192 . 41.897 58.869 19.311 1.00 17.11 1 .  
.  
ATOM 1416 CA CA . LYS LYS LYS A A 192 192 . 42.263 58.938 17.848 1.00 17.99 1 .  
.  
ATOM 1417 CB CB . LYS LYS LYS A A 192 192 . 41.028 58.753 16.931 1.00 18.26 1 .  
.  
ATOM 1418 CG CG . LYS LYS LYS A A 192 192 . 41.484 58.398 15.497 1.00 20.27 1 .  
.  
ATOM 1419 CD CD . LYS LYS LYS A A 192 192 . 40.238 58.095 14.635 1.00 23.42 1 .  
.  
ATOM 1420 CE CE . LYS LYS LYS A A 192 192 . 40.613 57.519 13.267 1.00 26.78 1 .  
.  
ATOM 1421 NZ NZ . LYS LYS LYS A A 192 192 . 39.362 57.504 12.349 1.00 23.95 1 .  
.  
ATOM 1422 C C . LYS LYS LYS A A 192 192 . 42.954 60.278 17.547 1.00 19.06 1 .  
.  
ATOM 1423 O O . LYS LYS LYS A A 192 192 . 43.906 60.333 16.752 1.00 19.35 1 .  
.  
ATOM 1424 N N . GLY GLY GLY A A 193 193 . 42.395 61.354 18.124 1.00 18.82 1 .  
.  
ATOM 1425 CA CA . GLY GLY GLY A A 193 193 . 42.889 62.719 17.824 1.00 20.04 1 .  
.  
ATOM 1426 C C . GLY GLY GLY A A 193 193 . 44.208 62.948 18.547 1.00 19.55 1 .  
.  
ATOM 1427 O O . GLY GLY GLY A A 193 193 . 45.139 63.544 17.976 1.00 21.22 1 .  
.  
ATOM 1428 N N . VAL VAL VAL A A 194 194 . 44.343 62.382 19.746 1.00 18.91 1 .  
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ATOM 1459 O O . ASP ASP ASP A A 197 197 . 50.604 65.382 16.407 1.00 29.49 1 .  
.  
ATOM 1460 N N . LYS LYS LYS A A 198 198 . 49.939 63.569 17.503 1.00 27.97 1 .  
.  
ATOM 1461 CA CA . LYS LYS LYS A A 198 198 . 51.277 63.239 17.844 1.00 28.83 1 .  
.  
ATOM 1462 CB CB . LYS LYS LYS A A 198 198 . 51.271 62.428 19.118 1.00 29.09 1 .  
.  
ATOM 1463 CG CG . LYS LYS LYS A A 198 198 . 52.596 62.280 19.712 1.00 31.35 1 .  
.  
ATOM 1464 CD CD . LYS LYS LYS A A 198 198 . 52.474 62.006 21.156 1.00 34.50 1 .  
.  
ATOM 1465 CE CE . LYS LYS LYS A A 198 198 . 53.879 62.086 21.771 1.00 35.68 1 .  
.  
ATOM 1466 NZ NZ . LYS LYS LYS A A 198 198 . 53.969 61.240 23.006 1.00 35.89 1 .  
.  
ATOM 1467 C C . LYS LYS LYS A A 198 198 . 52.061 62.486 16.777 1.00 30.10 1 .  
.  
ATOM 1468 O O . LYS LYS LYS A A 198 198 . 53.301 62.705 16.594 1.00 30.93 1 .  
.  
ATOM 1469 N N . TYR TYR TYR A A 199 199 . 51.405 61.547 16.107 1.00 27.75 1 .  
.  
ATOM 1470 CA CA . TYR TYR TYR A A 199 199 . 52.136 60.572 15.323 1.00 28.66 1 .  
.  
ATOM 1471 CB CB . TYR TYR TYR A A 199 199 . 51.901 59.118 15.811 1.00 26.74 1 .  
.  
ATOM 1472 CG CG . TYR TYR TYR A A 199 199 . 52.485 58.830 17.126 1.00 29.18 1 .  
.  
ATOM 1473 CD1 CD1 . TYR TYR TYR A A 199 199 . 51.696 58.749 18.267 1.00 25.93 1 .  
.  
ATOM 1474 CE1 CE1 . TYR TYR TYR A A 199 199 . 52.271 58.465 19.509 1.00 29.39 1 .  
.  
ATOM 1475 CZ CZ . TYR TYR TYR A A 199 199 . 53.636 58.353 19.613 1.00 30.06 1 .  
.  
ATOM 1476 OH OH . TYR TYR TYR A A 199 199 . 54.228 58.128 20.831 1.00 33.43 1 .  
.  
ATOM 1477 CE2 CE2 . TYR TYR TYR A A 199 199 . 54.448 58.455 18.507 1.00 32.88 1 .  
.  
ATOM 1478 CD2 CD2 . TYR TYR TYR A A 199 199 . 53.883 58.686 17.269 1.00 31.23 1 .  
.  
ATOM 1479 C C . TYR TYR TYR A A 199 199 . 51.687 60.670 13.859 1.00 29.55 1 .  
.  
ATOM 1480 O O . TYR TYR TYR A A 199 199 . 52.289 60.000 13.014 1.00 32.92 1 .  
.  
ATOM 1481 N N . GLY GLY GLY A A 200 200 . 50.683 61.486 13.548 1.00 29.70 1 .  
.  
ATOM 1482 CA CA . GLY GLY GLY A A 200 200 . 50.209 61.664 12.152 1.00 28.13 1 .  
.  
ATOM 1483 C C . GLY GLY GLY A A 200 200 . 48.922 60.818 11.868 1.00 27.70 1 .  
.  
ATOM 1484 O O . GLY GLY GLY A A 200 200 . 48.658 59.840 12.603 1.00 25.85 1 .  
.  
ATOM 1485 N N . LYS LYS LYS A A 201 201 . 48.166 61.152 10.802 1.00 27.71 1 .  
.  
ATOM 1486 CA CA . LYS LYS LYS A A 201 201 . 46.957 60.368 10.489 1.00 28.23 1 .  
.  
ATOM 1487 CB CB . LYS LYS LYS A A 201 201 . 46.112 60.996 9.353 1.00 31.11 1 .  
.  
ATOM 1488 CG CG . LYS LYS LYS A A 201 201 . 44.541 60.667 9.436 1.00 35.28 1 .  
.





ATOM 1549 O O . GLU GLU GLU A A 209 209 . 38.992 45.886 18.948 1.00 13.12 1 .  
.ATOM 1550 N N . GLY GLY GLY A A 210 210 . 40.149 46.311 17.046 1.00 11.84 1 .  
.ATOM 1551 CA CA . GLY GLY GLY A A 210 210 . 39.574 47.651 16.838 1.00 12.96 1 .  
.ATOM 1552 C C . GLY GLY GLY A A 210 210 . 40.372 48.774 17.522 1.00 12.17 1 .  
.ATOM 1553 O O . GLY GLY GLY A A 210 210 . 39.976 49.929 17.423 1.00 15.02 1 .  
.ATOM 1554 N N . GLY GLY GLY A A 211 211 . 41.383 48.421 18.294 1.00 14.00 1 .  
.ATOM 1555 CA CA . GLY GLY GLY A A 211 211 . 42.174 49.454 19.002 1.00 13.30 1 .  
.ATOM 1556 C C . GLY GLY GLY A A 211 211 . 43.178 50.051 18.050 1.00 15.68 1 .  
.ATOM 1557 O O . GLY GLY GLY A A 211 211 . 43.632 49.373 17.052 1.00 16.29 1 .  
.ATOM 1558 N N . PHE PHE PHE A A 212 212 . 43.541 51.323 18.284 1.00 17.09 1 .  
.ATOM 1559 CA CA . PHE PHE PHE A A 212 212 . 44.465 51.930 17.332 1.00 17.41 1 .  
.ATOM 1560 CB CB . PHE PHE PHE A A 212 212 . 44.635 53.376 17.682 1.00 16.62 1 .  
.ATOM 1561 CG CG . PHE PHE PHE A A 212 212 . 43.361 54.104 17.619 1.00 20.06 1 .  
.ATOM 1562 CD1 CD1 . PHE PHE PHE A A 212 212 . 42.725 54.506 18.795 1.00 17.47 1 .  
.ATOM 1563 CE1 CE1 . PHE PHE PHE A A 212 212 . 41.530 55.198 18.729 1.00 19.90 1 .  
.ATOM 1564 CZ CZ . PHE PHE PHE A A 212 212 . 40.893 55.427 17.460 1.00 20.18 1 .  
.ATOM 1565 CE2 CE2 . PHE PHE PHE A A 212 212 . 41.517 55.004 16.260 1.00 20.40 1 .  
.ATOM 1566 CD2 CD2 . PHE PHE PHE A A 212 212 . 42.718 54.299 16.357 1.00 15.69 1 .  
.ATOM 1567 C C . PHE PHE PHE A A 212 212 . 45.796 51.242 17.430 1.00 18.09 1 .  
.ATOM 1568 O O . PHE PHE PHE A A 212 212 . 46.207 50.671 18.458 1.00 20.23 1 .  
.ATOM 1569 N N . ALA ALA ALA A A 213 213 . 46.500 51.261 16.288 1.00 20.58 1 .  
.ATOM 1570 CA CA . ALA ALA ALA A A 213 213 . 47.756 50.538 16.203 1.00 21.54 1 .  
.ATOM 1571 CB CB . ALA ALA ALA A A 213 213 . 47.569 49.429 15.175 1.00 23.43 1 .  
.ATOM 1572 C C . ALA ALA ALA A A 213 213 . 48.917 51.472 15.782 1.00 24.08 1 .  
.ATOM 1573 O O . ALA ALA ALA A A 213 213 . 49.636 51.155 14.857 1.00 23.67 1 .  
.ATOM 1574 N N . PRO PRO PRO A A 214 214 . 49.140 52.556 16.531 1.00 22.38 1 .  
.ATOM 1575 CA CA . PRO PRO PRO A A 214 214 . 50.290 53.475 16.240 1.00 24.78 1 .  
.ATOM 1576 CB CB . PRO PRO PRO A A 214 214 . 50.220 54.501 17.381 1.00 24.80 1 .  
.ATOM 1577 CG CG . PRO PRO PRO A A 214 214 . 49.627 53.604 18.568 1.00 23.01 1 .  
.ATOM 1578 CD CD . PRO PRO PRO A A 214 214 . 48.567 52.779 17.899 1.00 23.90 1 .  
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ATOM 1669 CA CA . LYS LYS LYS A A 227 227 . 45.837 58.439 30.274 1.00 22.06 1 .  
.  
ATOM 1670 CB CB . LYS LYS LYS A A 227 227 . 47.049 58.430 31.240 1.00 23.13 1 .  
.  
ATOM 1671 CG CG . LYS LYS LYS A A 227 227 . 46.829 59.201 32.565 1.00 27.21 1 .  
.  
ATOM 1672 CD CD . LYS LYS LYS A A 227 227 . 45.303 59.045 32.999 1.00 36.75 1 .  
.  
ATOM 1673 CE CE . LYS LYS LYS A A 227 227 . 44.915 59.739 34.334 1.00 42.09 1 .  
.  
ATOM 1674 NZ NZ . LYS LYS LYS A A 227 227 . 46.109 59.998 35.201 1.00 45.50 1 .  
.  
ATOM 1675 C C . LYS LYS LYS A A 227 227 . 45.518 59.812 29.754 1.00 21.05 1 .  
.  
ATOM 1676 O O . LYS LYS LYS A A 227 227 . 44.567 60.431 30.185 1.00 20.14 1 .  
.  
ATOM 1677 N N . GLU GLU GLU A A 228 228 . 46.294 60.277 28.741 1.00 22.42 1 .  
.  
ATOM 1678 CA CA . GLU GLU GLU A A 228 228 . 45.990 61.570 28.028 1.00 21.26 1 .  
.  
ATOM 1679 CB CB . GLU GLU GLU A A 228 228 . 47.085 61.960 26.950 1.00 23.18 1 .  
.  
ATOM 1680 C C . GLU GLU GLU A A 228 228 . 44.587 61.673 27.459 1.00 21.79 1 .  
.  
ATOM 1681 O O . GLU GLU GLU A A 228 228 . 43.888 62.682 27.652 1.00 22.25 1 .  
.  
ATOM 1682 N N . ALA ALA ALA A A 229 229 . 44.138 60.613 26.734 1.00 21.43 1 .  
.  
ATOM 1683 CA CA . ALA ALA ALA A A 229 229 . 42.813 60.668 26.134 1.00 20.78 1 .  
.  
ATOM 1684 CB CB . ALA ALA ALA A A 229 229 . 42.631 59.474 25.215 1.00 20.58 1 .  
.  
ATOM 1685 C C . ALA ALA ALA A A 229 229 . 41.696 60.655 27.237 1.00 18.60 1 .  
.  
ATOM 1686 O O . ALA ALA ALA A A 229 229 . 40.705 61.335 27.094 1.00 19.64 1 .  
.  
ATOM 1687 N N . ILE ILE ILE A A 230 230 . 41.894 59.879 28.302 1.00 18.74 1 .  
.  
ATOM 1688 CA CA . ILE ILE ILE A A 230 230 . 40.922 59.845 29.438 1.00 18.47 1 .  
.  
ATOM 1689 CB CB . ILE ILE ILE A A 230 230 . 41.348 58.907 30.559 1.00 16.41 1 .  
.  
ATOM 1690 CG1 CG1 . ILE ILE ILE A A 230 230 . 41.261 57.443 30.104 1.00 16.25 1 .  
.  
ATOM 1691 CD CD . ILE ILE ILE A A 230 230 . 41.850 56.421 31.045 1.00 20.09 1 .  
.  
ATOM 1692 CG2 CG2 . ILE ILE ILE A A 230 230 . 40.491 59.195 31.849 1.00 20.54 1 .  
.  
ATOM 1693 C C . ILE ILE ILE A A 230 230 . 40.750 61.273 30.034 1.00 18.91 1 .  
.  
ATOM 1694 O O . ILE ILE ILE A A 230 230 . 39.614 61.796 30.164 1.00 18.81 1 .  
.  
ATOM 1695 N N . ASP ASP ASP A A 231 231 . 41.908 61.919 30.290 1.00 21.36 1 .  
.  
ATOM 1696 CA CA . ASP ASP ASP A A 231 231 . 41.939 63.287 30.851 1.00 23.36 1 .  
.  
ATOM 1697 CB CB . ASP ASP ASP A A 231 231 . 43.353 63.631 31.250 1.00 24.75 1 .  
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ATOM 1698 CG CG . ASP ASP ASP A A 231 231 . 43.945 62.671 32.321 1.00 31.87 1 .  
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ATOM 2329 O O . VAL VAL VAL A A 310 310 . 48.567 42.830 45.511 1.00 28.00 1 .  
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ATOM 2330 N N . GLY GLY GLY A A 311 311 . 48.277 44.969 44.890 1.00 25.48 1 .  
.  
ATOM 2331 CA CA . GLY GLY GLY A A 311 311 . 46.916 45.057 45.443 1.00 25.42 1 .  
.  
ATOM 2332 C C . GLY GLY GLY A A 311 311 . 45.912 45.166 44.307 1.00 24.93 1 .  
.  
ATOM 2333 O O . GLY GLY GLY A A 311 311 . 44.740 45.520 44.531 1.00 25.62 1 .  
.  
ATOM 2334 N N . ILE ILE ILE A A 312 312 . 46.361 44.842 43.095 1.00 22.99 1 .  
.  
ATOM 2335 CA CA . ILE ILE ILE A A 312 312 . 45.447 44.925 41.910 1.00 20.56 1 .  
.  
ATOM 2336 CB CB . ILE ILE ILE A A 312 312 . 46.095 45.682 40.750 1.00 19.24 1 .  
.  
ATOM 2337 CG1 CG1 . ILE ILE ILE A A 312 312 . 47.293 44.898 40.167 1.00 20.70 1 .  
.  
ATOM 2338 CD CD . ILE ILE ILE A A 312 312 . 47.670 45.461 38.726 1.00 21.88 1 .  
.  
ATOM 2339 CG2 CG2 . ILE ILE ILE A A 312 312 . 46.413 47.131 41.181 1.00 20.38 1 .  
.  
ATOM 2340 C C . ILE ILE ILE A A 312 312 . 44.960 43.581 41.423 1.00 19.16 1 .  
.  
ATOM 2341 O O . ILE ILE ILE A A 312 312 . 45.314 42.511 41.962 1.00 18.61 1 .  
.  
ATOM 2342 N N . GLN GLN GLN A A 313 313 . 44.048 43.634 40.430 1.00 18.18 1 .  
.  
ATOM 2343 CA CA . GLN GLN GLN A A 313 313 . 43.530 42.370 39.859 1.00 16.95 1 .  
.  
ATOM 2344 CB CB . GLN GLN GLN A A 313 313 . 42.253 42.665 39.037 1.00 15.83 1 .  
.  
ATOM 2345 CG CG . GLN GLN GLN A A 313 313 . 41.789 41.451 38.223 1.00 16.29 1 .  
.  
ATOM 2346 CD CD . GLN GLN GLN A A 313 313 . 40.331 41.640 37.797 1.00 17.60 1 .  
.  
ATOM 2347 OE1 OE1 . GLN GLN GLN A A 313 313 . 39.424 41.273 38.561 1.00 16.69 1 .  
.  
ATOM 2348 NE2 NE2 . GLN GLN GLN A A 313 313 . 40.103 42.237 36.617 1.00 15.61 1 .  
.  
ATOM 2349 C C . GLN GLN GLN A A 313 313 . 44.616 41.810 38.929 1.00 16.90 1 .  
.  
ATOM 2350 O O . GLN GLN GLN A A 313 313 . 45.193 42.579 38.148 1.00 18.50 1 .  
.  
ATOM 2351 N N . ILE ILE ILE A A 314 314 . 44.847 40.514 39.023 1.00 17.55 1 .  
.  
ATOM 2352 CA CA . ILE ILE ILE A A 314 314 . 45.860 39.787 38.197 1.00 16.37 1 .  
.  
ATOM 2353 CB CB . ILE ILE ILE A A 314 314 . 46.988 39.185 39.043 1.00 19.38 1 .  
.  
ATOM 2354 CG1 CG1 . ILE ILE ILE A A 314 314 . 47.766 40.352 39.743 1.00 20.00 1 .  
.  
ATOM 2355 CD CD . ILE ILE ILE A A 314 314 . 48.393 41.507 38.734 1.00 18.47 1 .  
.  
ATOM 2356 CG2 CG2 . ILE ILE ILE A A 314 314 . 47.887 38.244 38.178 1.00 18.66 1 .  
.  
ATOM 2357 C C . ILE ILE ILE A A 314 314 . 45.042 38.678 37.551 1.00 15.96 1 .  
.  
ATOM 2358 O O . ILE ILE ILE A A 314 314 . 44.459 37.834 38.207 1.00 15.57 1 .  
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ATOM 2509 C C . LYS LYS LYS A A 334 334 . 48.342 32.528 43.406 1.00 27.18 1 .  
.  
ATOM 2510 O O . LYS LYS LYS A A 334 334 . 48.968 33.588 43.585 1.00 27.07 1 .  
.  
ATOM 2511 N N . ALA ALA ALA A A 335 335 . 48.193 31.951 42.202 1.00 24.92 1 .  
.  
ATOM 2512 CA CA . ALA ALA ALA A A 335 335 . 48.890 32.506 41.044 1.00 24.94 1 .  
.  
ATOM 2513 CB CB . ALA ALA ALA A A 335 335 . 48.945 31.537 39.941 1.00 25.00 1 .  
.  
ATOM 2514 C C . ALA ALA ALA A A 335 335 . 48.300 33.800 40.562 1.00 24.54 1 .  
.  
ATOM 2515 O O . ALA ALA ALA A A 335 335 . 49.016 34.634 39.975 1.00 24.90 1 .  
.  
ATOM 2516 N N . CYS CYS CYS A A 336 336 . 47.001 33.994 40.790 1.00 22.77 1 .  
.  
ATOM 2517 CA CA . CYS CYS CYS A A 336 336 . 46.325 35.172 40.229 1.00 22.13 1 .  
.  
ATOM 2518 CB CB . CYS CYS CYS A A 336 336 . 45.979 34.966 38.697 1.00 20.70 1 .  
.  
ATOM 2519 SG SG . CYS CYS CYS A A 336 336 . 45.044 33.359 38.342 1.00 24.23 1 .  
.  
ATOM 2520 C C . CYS CYS CYS A A 336 336 . 45.040 35.221 41.007 1.00 20.95 1 .  
.  
ATOM 2521 O O . CYS CYS CYS A A 336 336 . 44.805 34.346 41.891 1.00 23.51 1 .  
.  
ATOM 2522 N N . ASN ASN ASN A A 337 337 . 44.204 36.220 40.723 1.00 19.41 1 .  
.  
ATOM 2523 CA CA . ASN ASN ASN A A 337 337 . 42.980 36.366 41.509 1.00 17.88 1 .  
.  
ATOM 2524 CB CB . ASN ASN ASN A A 337 337 . 43.158 37.494 42.559 1.00 19.29 1 .  
.  
ATOM 2525 CG CG . ASN ASN ASN A A 337 337 . 43.653 38.832 41.964 1.00 20.47 1 .  
.  
ATOM 2526 OD1 OD1 . ASN ASN ASN A A 337 337 . 44.555 39.526 42.528 1.00 26.37 1 .  
.  
ATOM 2527 ND2 ND2 . ASN ASN ASN A A 337 337 . 43.079 39.230 40.888 1.00 15.20 1 .  
.  
ATOM 2528 C C . ASN ASN ASN A A 337 337 . 41.755 36.633 40.631 1.00 18.10 1 .  
.  
ATOM 2529 O O . ASN ASN ASN A A 337 337 . 40.719 37.111 41.121 1.00 17.40 1 .  
.  
ATOM 2530 N N . CYS CYS CYS A A 338 338 . 41.881 36.364 39.326 1.00 17.05 1 .  
.  
ATOM 2531 CA CA . CYS CYS CYS A A 338 338 . 40.726 36.532 38.456 1.00 16.19 1 .  
.  
ATOM 2532 CB CB . CYS CYS CYS A A 338 338 . 40.727 37.984 37.939 1.00 15.78 1 .  
.  
ATOM 2533 SG SG . CYS CYS CYS A A 338 338 . 39.348 38.410 36.785 1.00 17.59 1 .  
.  
ATOM 2534 C C . CYS CYS CYS A A 338 338 . 40.918 35.571 37.289 1.00 15.43 1 .  
.  
ATOM 2535 O O . CYS CYS CYS A A 338 338 . 42.038 35.371 36.858 1.00 15.12 1 .  
.  
ATOM 2536 N N . LEU LEU LEU A A 339 339 . 39.834 35.014 36.783 1.00 14.44 1 .  
.  
ATOM 2537 CA CA . LEU LEU LEU A A 339 339 . 39.839 34.098 35.643 1.00 13.49 1 .  
.  
ATOM 2538 CB CB . LEU LEU LEU A A 339 339 . 38.860 32.932 35.980 1.00 13.96 1 .  
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ATOM 2599 C C . ILE ILE ILE A A 346 346 . 36.575 23.815 26.283 1.00 15.24 1 .  
.  
ATOM 2600 O O . ILE ILE ILE A A 346 346 . 36.704 22.591 26.227 1.00 16.04 1 .  
.  
ATOM 2601 N N . GLY GLY GLY A A 347 347 . 35.693 24.485 25.524 1.00 14.80 1 .  
.  
ATOM 2602 CA CA . GLY GLY GLY A A 347 347 . 34.958 23.865 24.429 1.00 12.68 1 .  
.  
ATOM 2603 C C . GLY GLY GLY A A 347 347 . 33.509 23.524 24.706 1.00 13.23 1 .  
.  
ATOM 2604 O O . GLY GLY GLY A A 347 347 . 32.858 22.875 23.882 1.00 15.08 1 .  
.  
ATOM 2605 N N . SER SER SER A A 348 348 . 32.974 23.914 25.838 1.00 12.99 1 .  
.  
ATOM 2606 CA CA . SER SER SER A A 348 348 . 31.535 23.752 26.079 1.00 13.60 1 .  
.  
ATOM 2607 CB CB . SER SER SER A A 348 348 . 31.194 22.317 26.535 1.00 15.78 1 .  
.  
ATOM 2608 OG OG . SER SER SER A A 348 348 . 31.588 22.081 27.931 1.00 18.38 1 .  
.  
ATOM 2609 C C . SER SER SER A A 348 348 . 30.992 24.782 27.051 1.00 12.95 1 .  
.  
ATOM 2610 O O . SER SER SER A A 348 348 . 31.729 25.306 27.907 1.00 15.67 1 .  
.  
ATOM 2611 N N . VAL VAL VAL A A 349 349 . 29.716 25.065 26.936 1.00 12.58 1 .  
.  
ATOM 2612 CA CA . VAL VAL VAL A A 349 349 . 29.046 26.040 27.811 1.00 12.87 1 .  
.  
ATOM 2613 CB CB . VAL VAL VAL A A 349 349 . 27.617 26.289 27.358 1.00 16.14 1 .  
.  
ATOM 2614 CG1 CG1 . VAL VAL VAL A A 349 349 . 26.884 27.125 28.401 1.00 15.54 1 .  
.  
ATOM 2615 CG2 CG2 . VAL VAL VAL A A 349 349 . 27.585 27.061 26.067 1.00 13.50 1 .  
.  
ATOM 2616 C C . VAL VAL VAL A A 349 349 . 29.050 25.501 29.269 1.00 15.35 1 .  
.  
ATOM 2617 O O . VAL VAL VAL A A 349 349 . 29.425 26.218 30.219 1.00 13.74 1 .  
.  
ATOM 2618 N N . THR THR THR A A 350 350 . 28.747 24.224 29.440 1.00 14.20 1 .  
.  
ATOM 2619 CA CA . THR THR THR A A 350 350 . 28.712 23.634 30.788 1.00 15.16 1 .  
.  
ATOM 2620 CB CB . THR THR THR A A 350 350 . 28.366 22.129 30.725 1.00 15.64 1 .  
.  
ATOM 2621 OG1 OG1 . THR THR THR A A 350 350 . 27.014 22.004 30.305 1.00 17.29 1 .  
.  
ATOM 2622 CG2 CG2 . THR THR THR A A 350 350 . 28.434 21.547 32.133 1.00 18.89 1 .  
.  
ATOM 2623 C C . THR THR THR A A 350 350 . 30.081 23.726 31.454 1.00 15.58 1 .  
.  
ATOM 2624 O O . THR THR THR A A 350 350 . 30.182 24.167 32.626 1.00 16.20 1 .  
.  
ATOM 2625 N N . GLU GLU GLU A A 351 351 . 31.137 23.357 30.736 1.00 15.48 1 .  
.  
ATOM 2626 CA CA . GLU GLU GLU A A 351 351 . 32.484 23.443 31.360 1.00 15.57 1 .  
.  
ATOM 2627 CB CB . GLU GLU GLU A A 351 351 . 33.550 22.812 30.463 1.00 16.98 1 .  
.  
ATOM 2628 CG CG . GLU GLU GLU A A 351 351 . 33.415 21.280 30.418 1.00 17.99 1 .  
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ATOM 2659 C C . ALA ALA ALA A A 355 355 . 34.808 28.415 36.204 1.00 16.40 1 .  
.ATOM 2660 O O . ALA ALA ALA A A 355 355 . 35.500 28.759 37.184 1.00 16.79 1 .  
.ATOM 2661 N N . CYS CYS CYS A A 356 356 . 33.781 29.151 35.749 1.00 15.44 1 .  
.ATOM 2662 CA CA . CYS CYS CYS A A 356 356 . 33.350 30.404 36.386 1.00 14.87 1 .  
.ATOM 2663 CB CB . CYS CYS CYS A A 356 356 . 32.137 30.961 35.625 1.00 14.64 1 .  
.ATOM 2664 SG SG . CYS CYS CYS A A 356 356 . 31.630 32.532 36.282 1.00 17.64 1 .  
.ATOM 2665 C C . CYS CYS CYS A A 356 356 . 32.987 30.169 37.869 1.00 17.37 1 .  
.ATOM 2666 O O . CYS CYS CYS A A 356 356 . 33.523 30.866 38.784 1.00 17.15 1 .  
.ATOM 2667 N N . LYS LYS LYS A A 357 357 . 32.195 29.148 38.129 1.00 16.66 1 .  
.ATOM 2668 CA CA . LYS LYS LYS A A 357 357 . 31.693 28.957 39.535 1.00 19.11 1 .  
.ATOM 2669 CB CB . LYS LYS LYS A A 357 357 . 30.608 27.939 39.555 1.00 20.31 1 .  
.ATOM 2670 CG CG . LYS LYS LYS A A 357 357 . 29.314 28.471 38.829 1.00 24.64 1 .  
.ATOM 2671 CD CD . LYS LYS LYS A A 357 357 . 28.186 27.455 38.820 1.00 30.17 1 .  
.ATOM 2672 CE CE . LYS LYS LYS A A 357 357 . 27.755 27.202 40.245 1.00 35.14 1 .  
.ATOM 2673 NZ NZ . LYS LYS LYS A A 357 357 . 26.591 26.298 40.346 1.00 37.34 1 .  
.ATOM 2674 C C . LYS LYS LYS A A 357 357 . 32.865 28.526 40.445 1.00 19.18 1 .  
.ATOM 2675 O O . LYS LYS LYS A A 357 357 . 32.968 28.997 41.606 1.00 19.38 1 .  
.ATOM 2676 N N . LEU LEU LEU A A 358 358 . 33.774 27.707 39.908 1.00 19.06 1 .  
.ATOM 2677 CA CA . LEU LEU LEU A A 358 358 . 35.006 27.342 40.635 1.00 19.63 1 .  
.ATOM 2678 CB CB . LEU LEU LEU A A 358 358 . 35.849 26.307 39.845 1.00 20.67 1 .  
.ATOM 2679 CG CG . LEU LEU LEU A A 358 358 . 37.224 25.910 40.421 1.00 21.89 1 .  
.ATOM 2680 CD1 CD1 . LEU LEU LEU A A 358 358 . 36.972 25.268 41.803 1.00 25.25 1 .  
.ATOM 2681 CD2 CD2 . LEU LEU LEU A A 358 358 . 37.973 24.973 39.492 1.00 25.24 1 .  
.ATOM 2682 C C . LEU LEU LEU A A 358 358 . 35.838 28.572 40.980 1.00 19.98 1 .  
.ATOM 2683 O O . LEU LEU LEU A A 358 358 . 36.232 28.756 42.166 1.00 21.46 1 .  
.ATOM 2684 N N . ALA ALA ALA A A 359 359 . 36.056 29.487 40.025 1.00 17.87 1 .  
.ATOM 2685 CA CA . ALA ALA ALA A A 359 359 . 36.744 30.734 40.375 1.00 17.34 1 .  
.ATOM 2686 CB CB . ALA ALA ALA A A 359 359 . 36.953 31.586 39.098 1.00 15.38 1 .  
.ATOM 2687 C C . ALA ALA ALA A A 359 359 . 35.962 31.544 41.463 1.00 18.37 1 .  
.ATOM 2688 O O . ALA ALA ALA A A 359 359 . 36.565 32.017 42.446 1.00 17.70 1 .  
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ATOM 2719 N N . TRP TRP TRP A A 364 364 . 37.830 34.546 43.499 1.00 19.82 1 .  
.  
ATOM 2720 CA CA . TRP TRP TRP A A 364 364 . 38.379 35.260 42.348 1.00 18.81 1 .  
.  
ATOM 2721 CB CB . TRP TRP TRP A A 364 364 . 38.899 34.258 41.340 1.00 18.06 1 .  
.  
ATOM 2722 CG CG . TRP TRP TRP A A 364 364 . 40.148 33.519 41.675 1.00 20.72 1 .  
.  
ATOM 2723 CD1 CD1 . TRP TRP TRP A A 364 364 . 40.818 33.405 42.897 1.00 22.06 1 .  
.  
ATOM 2724 NE1 NE1 . TRP TRP TRP A A 364 364 . 41.924 32.567 42.733 1.00 22.02 1 .  
.  
ATOM 2725 CE2 CE2 . TRP TRP TRP A A 364 364 . 42.018 32.224 41.393 1.00 21.30 1 .  
.  
ATOM 2726 CD2 CD2 . TRP TRP TRP A A 364 364 . 40.898 32.795 40.725 1.00 21.67 1 .  
.  
ATOM 2727 CE3 CE3 . TRP TRP TRP A A 364 364 . 40.722 32.570 39.339 1.00 20.80 1 .  
.  
ATOM 2728 CZ3 CZ3 . TRP TRP TRP A A 364 364 . 41.595 31.836 38.693 1.00 19.40 1 .  
.  
ATOM 2729 CH2 CH2 . TRP TRP TRP A A 364 364 . 42.719 31.259 39.364 1.00 23.01 1 .  
.  
ATOM 2730 CZ2 CZ2 . TRP TRP TRP A A 364 364 . 42.946 31.450 40.719 1.00 23.85 1 .  
.  
ATOM 2731 C C . TRP TRP TRP A A 364 364 . 37.331 36.032 41.587 1.00 17.90 1 .  
.  
ATOM 2732 O O . TRP TRP TRP A A 364 364 . 36.153 35.736 41.693 1.00 18.55 1 .  
.  
ATOM 2733 N N . GLY GLY GLY A A 365 365 . 37.774 37.077 40.897 1.00 16.87 1 .  
.  
ATOM 2734 CA CA . GLY GLY GLY A A 365 365 . 36.947 37.739 39.861 1.00 15.80 1 .  
.  
ATOM 2735 C C . GLY GLY GLY A A 365 365 . 36.882 36.871 38.647 1.00 14.17 1 .  
.  
ATOM 2736 O O . GLY GLY GLY A A 365 365 . 37.648 35.894 38.509 1.00 14.58 1 .  
.  
ATOM 2737 N N . VAL VAL VAL A A 366 366 . 35.956 37.191 37.749 1.00 13.29 1 .  
.  
ATOM 2738 CA CA . VAL VAL VAL A A 366 366 . 35.915 36.457 36.475 1.00 14.00 1 .  
.  
ATOM 2739 CB CB . VAL VAL VAL A A 366 366 . 34.736 35.414 36.429 1.00 12.65 1 .  
.  
ATOM 2740 CG1 CG1 . VAL VAL VAL A A 366 366 . 34.633 34.725 34.997 1.00 15.37 1 .  
.  
ATOM 2741 CG2 CG2 . VAL VAL VAL A A 366 366 . 34.946 34.258 37.489 1.00 13.23 1 .  
.  
ATOM 2742 C C . VAL VAL VAL A A 366 366 . 35.628 37.532 35.448 1.00 13.91 1 .  
.  
ATOM 2743 O O . VAL VAL VAL A A 366 366 . 34.731 38.364 35.646 1.00 14.18 1 .  
.  
ATOM 2744 N N . MET MET MET A A 367 367 . 36.463 37.587 34.389 1.00 13.03 1 .  
.  
ATOM 2745 CA CA . MET MET MET A A 367 367 . 36.206 38.545 33.309 1.00 12.41 1 .  
.  
ATOM 2746 CB CB . MET MET MET A A 367 367 . 37.416 39.438 33.086 1.00 13.76 1 .  
.  
ATOM 2747 CG CG . MET MET MET A A 367 367 . 37.226 40.325 31.868 1.00 12.34 1 .  
.  
ATOM 2748 SD SD . MET MET MET A A 367 367 . 38.637 41.382 31.494 1.00 17.32 1 .  
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ATOM 2779 CD CD . ARG ARG ARG A A 371 371 . 39.133 33.434 22.491 1.00 13.57 1 .  
.  
ATOM 2780 NE NE . ARG ARG ARG A A 371 371 . 40.598 33.364 22.363 1.00 13.50 1 .  
.  
ATOM 2781 CZ CZ . ARG ARG ARG A A 371 371 . 41.357 32.295 22.588 1.00 14.05 1 .  
.  
ATOM 2782 NH1 NH1 . ARG ARG ARG A A 371 371 . 40.779 31.085 22.831 1.00 12.75 1 .  
.  
ATOM 2783 NH2 NH2 . ARG ARG ARG A A 371 371 . 42.722 32.451 22.576 1.00 13.52 1 .  
.  
ATOM 2784 C C . ARG ARG ARG A A 371 371 . 39.047 37.112 20.061 1.00 9.80 1 .  
.  
ATOM 2785 O O . ARG ARG ARG A A 371 371 . 38.179 37.869 19.652 1.00 10.02 1 .  
.  
ATOM 2786 N N . SER SER SER A A 372 372 . 40.317 37.185 19.677 1.00 10.14 1 .  
.  
ATOM 2787 CA CA . SER SER SER A A 372 372 . 40.654 38.162 18.644 1.00 11.02 1 .  
.  
ATOM 2788 CB CB . SER SER SER A A 372 372 . 42.193 38.308 18.526 1.00 11.99 1 .  
.  
ATOM 2789 OG OG . SER SER SER A A 372 372 . 42.764 37.068 18.147 1.00 13.67 1 .  
.  
ATOM 2790 C C . SER SER SER A A 372 372 . 40.044 37.884 17.287 1.00 12.43 1 .  
.  
ATOM 2791 O O . SER SER SER A A 372 372 . 39.869 38.811 16.506 1.00 11.79 1 .  
.  
ATOM 2792 N N . GLY GLY GLY A A 373 373 . 39.691 36.623 17.012 1.00 11.04 1 .  
.  
ATOM 2793 CA CA . GLY GLY GLY A A 373 373 . 38.903 36.309 15.755 1.00 10.82 1 .  
.  
ATOM 2794 C C . GLY GLY GLY A A 373 373 . 37.476 36.101 16.242 1.00 11.28 1 .  
.  
ATOM 2795 O O . GLY GLY GLY A A 373 373 . 37.182 35.129 16.959 1.00 13.82 1 .  
.  
ATOM 2796 N N . GLU GLU GLU A A 374 374 . 36.625 37.078 16.034 1.00 11.34 1 .  
.  
ATOM 2797 CA CA . GLU GLU GLU A A 374 374 . 35.276 37.015 16.543 1.00 10.88 1 .  
.  
ATOM 2798 CB CB . GLU GLU GLU A A 374 374 . 34.920 38.267 17.425 1.00 11.17 1 .  
.  
ATOM 2799 CG CG . GLU GLU GLU A A 374 374 . 35.107 37.983 18.919 1.00 11.60 1 .  
.  
ATOM 2800 CD CD . GLU GLU GLU A A 374 374 . 34.183 36.881 19.467 1.00 11.35 1 .  
.  
ATOM 2801 OE1 OE1 . GLU GLU GLU A A 374 374 . 33.083 36.600 18.908 1.00 13.47 1 .  
.  
ATOM 2802 OE2 OE2 . GLU GLU GLU A A 374 374 . 34.571 36.308 20.505 1.00 14.17 1 .  
.  
ATOM 2803 C C . GLU GLU GLU A A 374 374 . 34.284 36.904 15.386 1.00 9.96 1 .  
.  
ATOM 2804 O O . GLU GLU GLU A A 374 374 . 34.640 36.856 14.205 1.00 10.37 1 .  
.  
ATOM 2805 N N . THR THR THR A A 375 375 . 33.044 36.753 15.739 1.00 9.30 1 .  
.  
ATOM 2806 CA CA . THR THR THR A A 375 375 . 31.986 36.774 14.726 1.00 9.62 1 .  
.  
ATOM 2807 CB CB . THR THR THR A A 375 375 . 31.337 35.368 14.520 1.00 9.67 1 .  
.  
ATOM 2808 OG1 OG1 . THR THR THR A A 375 375 . 30.568 34.989 15.732 1.00 12.57 1 .  
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ATOM 2809 CG2 CG2 . THR THR THR A A 375 375 . 32.459 34.310 14.243 1.00 14.46 1 .  
.  
ATOM 2810 C C . THR THR THR A A 375 375 . 30.886 37.746 15.170 1.00 10.65 1 .  
.  
ATOM 2811 O O . THR THR THR A A 375 375 . 30.954 38.378 16.262 1.00 10.52 1 .  
.  
ATOM 2812 N N . GLU GLU GLU A A 376 376 . 29.813 37.771 14.368 1.00 12.99 1 .  
.  
ATOM 2813 CA CA . GLU GLU GLU A A 376 376 . 28.609 38.557 14.712 1.00 13.73 1 .  
.  
ATOM 2814 CB CB . GLU GLU GLU A A 376 376 . 27.757 38.795 13.400 1.00 14.72 1 .  
.  
ATOM 2815 CG CG . GLU GLU GLU A A 376 376 . 27.332 37.461 12.624 1.00 15.34 1 .  
.  
ATOM 2816 CD CD . GLU GLU GLU A A 376 376 . 28.313 37.019 11.557 1.00 16.38 1 .  
.  
ATOM 2817 OE1 OE1 . GLU GLU GLU A A 376 376 . 29.544 37.044 11.783 1.00 19.18 1 .  
.  
ATOM 2818 OE2 OE2 . GLU GLU GLU A A 376 376 . 27.890 36.529 10.497 1.00 12.82 1 .  
.  
ATOM 2819 C C . GLU GLU GLU A A 376 376 . 27.788 37.908 15.843 1.00 12.87 1 .  
.  
ATOM 2820 O O . GLU GLU GLU A A 376 376 . 26.774 38.515 16.288 1.00 13.76 1 .  
.  
ATOM 2821 N N . ASP ASP ASP A A 377 377 . 28.229 36.742 16.372 1.00 10.11 1 .  
.  
ATOM 2822 CA CA . ASP ASP ASP A A 377 377 . 27.499 36.095 17.502 1.00 11.39 1 .  
.  
ATOM 2823 CB CB . ASP ASP ASP A A 377 377 . 28.182 34.761 17.719 1.00 12.78 1 .  
.  
ATOM 2824 CG CG . ASP ASP ASP A A 377 377 . 27.574 33.970 18.818 1.00 17.11 1 .  
.  
ATOM 2825 OD1 OD1 . ASP ASP ASP A A 377 377 . 27.958 34.192 19.984 1.00 22.74 1 .  
.  
ATOM 2826 OD2 OD2 . ASP ASP ASP A A 377 377 . 26.901 32.980 18.518 1.00 18.57 1 .  
.  
ATOM 2827 C C . ASP ASP ASP A A 377 377 . 27.568 36.983 18.788 1.00 13.79 1 .  
.  
ATOM 2828 O O . ASP ASP ASP A A 377 377 . 28.631 37.607 19.049 1.00 14.70 1 .  
.  
ATOM 2829 N N . THR THR THR A A 378 378 . 26.525 37.046 19.583 1.00 11.71 1 .  
.  
ATOM 2830 CA CA . THR THR THR A A 378 378 . 26.583 37.906 20.748 1.00 11.06 1 .  
.  
ATOM 2831 CB CB . THR THR THR A A 378 378 . 25.501 39.005 20.718 1.00 11.41 1 .  
.  
ATOM 2832 OG1 OG1 . THR THR THR A A 378 378 . 24.218 38.399 20.691 1.00 13.20 1 .  
.  
ATOM 2833 CG2 CG2 . THR THR THR A A 378 378 . 25.669 39.893 19.453 1.00 13.25 1 .  
.  
ATOM 2834 C C . THR THR THR A A 378 378 . 26.417 37.105 22.026 1.00 10.18 1 .  
.  
ATOM 2835 O O . THR THR THR A A 378 378 . 26.146 37.708 23.114 1.00 11.91 1 .  
.  
ATOM 2836 N N . PHE PHE PHE A A 379 379 . 26.582 35.770 21.925 1.00 9.88 1 .  
.  
ATOM 2837 CA CA . PHE PHE PHE A A 379 379 . 26.381 34.915 23.131 1.00 10.94 1 .  
.  
ATOM 2838 CB CB . PHE PHE PHE A A 379 379 . 26.924 33.519 22.824 1.00 11.27 1 .  
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ATOM 3019 N N . ALA ALA ALA A A 404 404 . 28.732 44.355 18.353 1.00 9.79 1 .  
.  
ATOM 3020 CA CA . ALA ALA ALA A A 404 404 . 27.521 43.531 18.442 1.00 8.58 1 .  
.  
ATOM 3021 CB CB . ALA ALA ALA A A 404 404 . 27.632 42.341 17.466 1.00 9.77 1 .  
.  
ATOM 3022 C C . ALA ALA ALA A A 404 404 . 27.302 43.100 19.918 1.00 9.85 1 .  
.  
ATOM 3023 O O . ALA ALA ALA A A 404 404 . 26.166 43.096 20.389 1.00 9.82 1 .  
.  
ATOM 3024 N N . LYS LYS LYS A A 405 405 . 28.400 42.812 20.620 1.00 9.23 1 .  
.  
ATOM 3025 CA CA . LYS LYS LYS A A 405 405 . 28.263 42.383 22.047 1.00 9.26 1 .  
.  
ATOM 3026 CB CB . LYS LYS LYS A A 405 405 . 29.603 41.840 22.590 1.00 9.27 1 .  
.  
ATOM 3027 CG CG . LYS LYS LYS A A 405 405 . 29.913 40.370 22.201 1.00 10.45 1 .  
.  
ATOM 3028 CD CD . LYS LYS LYS A A 405 405 . 30.221 40.272 20.706 1.00 9.56 1 .  
.  
ATOM 3029 CE CE . LYS LYS LYS A A 405 405 . 31.029 38.956 20.446 1.00 10.94 1 .  
.  
ATOM 3030 NZ NZ . LYS LYS LYS A A 405 405 . 31.223 38.690 19.002 1.00 9.99 1 .  
.  
ATOM 3031 C C . LYS LYS LYS A A 405 405 . 27.871 43.613 22.881 1.00 9.78 1 .  
.  
ATOM 3032 O O . LYS LYS LYS A A 405 405 . 27.004 43.521 23.739 1.00 9.57 1 .  
.  
ATOM 3033 N N . TYR TYR TYR A A 406 406 . 28.572 44.738 22.712 1.00 11.21 1 .  
.  
ATOM 3034 CA CA . TYR TYR TYR A A 406 406 . 28.289 45.932 23.527 1.00 10.78 1 .  
.  
ATOM 3035 CB CB . TYR TYR TYR A A 406 406 . 29.271 47.056 23.216 1.00 10.27 1 .  
.  
ATOM 3036 CG CG . TYR TYR TYR A A 406 406 . 30.656 46.732 23.681 1.00 9.19 1 .  
.  
ATOM 3037 CD1 CD1 . TYR TYR TYR A A 406 406 . 30.905 46.306 24.978 1.00 9.64 1 .  
.  
ATOM 3038 CE1 CE1 . TYR TYR TYR A A 406 406 . 32.196 46.010 25.401 1.00 8.73 1 .  
.  
ATOM 3039 CZ CZ . TYR TYR TYR A A 406 406 . 33.303 46.110 24.507 1.00 9.60 1 .  
.  
ATOM 3040 OH OH . TYR TYR TYR A A 406 406 . 34.559 45.770 24.916 1.00 13.33 1 .  
.  
ATOM 3041 CE2 CE2 . TYR TYR TYR A A 406 406 . 33.069 46.496 23.178 1.00 9.30 1 .  
.  
ATOM 3042 CD2 CD2 . TYR TYR TYR A A 406 406 . 31.763 46.796 22.760 1.00 12.23 1 .  
.  
ATOM 3043 C C . TYR TYR TYR A A 406 406 . 26.861 46.407 23.282 1.00 11.58 1 .  
.  
ATOM 3044 O O . TYR TYR TYR A A 406 406 . 26.190 46.808 24.208 1.00 9.82 1 .  
.  
ATOM 3045 N N . ASN ASN ASN A A 407 407 . 26.424 46.374 22.028 1.00 8.82 1 .  
.  
ATOM 3046 CA CA . ASN ASN ASN A A 407 407 . 25.052 46.754 21.734 1.00 10.09 1 .  
.  
ATOM 3047 CB CB . ASN ASN ASN A A 407 407 . 24.791 46.773 20.206 1.00 9.98 1 .  
.  
ATOM 3048 CG CG . ASN ASN ASN A A 407 407 . 25.473 47.951 19.519 1.00 10.83 1 .  
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ATOM 3139 O O . ASP ASP ASP A A 418 418 . 15.881 48.551 38.966 1.00 38.96 1 .  
.  
ATOM 3140 N N . GLU GLU GLU A A 419 419 . 15.311 47.060 37.438 1.00 34.31 1 .  
.  
ATOM 3141 CA CA . GLU GLU GLU A A 419 419 . 16.057 45.952 37.999 1.00 32.89 1 .  
.  
ATOM 3142 CB CB . GLU GLU GLU A A 419 419 . 15.388 44.586 37.732 1.00 32.10 1 .  
.  
ATOM 3143 C C . GLU GLU GLU A A 419 419 . 17.538 45.891 37.476 1.00 32.50 1 .  
.  
ATOM 3144 O O . GLU GLU GLU A A 419 419 . 18.326 44.989 37.916 1.00 32.34 1 .  
.  
ATOM 3145 N N . ALA ALA ALA A A 420 420 . 17.905 46.765 36.502 1.00 33.24 1 .  
.  
ATOM 3146 CA CA . ALA ALA ALA A A 420 420 . 19.329 46.729 36.025 1.00 31.59 1 .  
.  
ATOM 3147 CB CB . ALA ALA ALA A A 420 420 . 19.483 47.541 34.627 1.00 31.25 1 .  
.  
ATOM 3148 C C . ALA ALA ALA A A 420 420 . 20.253 47.246 37.176 1.00 32.03 1 .  
.  
ATOM 3149 O O . ALA ALA ALA A A 420 420 . 19.882 48.229 37.812 1.00 34.84 1 .  
.  
ATOM 3150 N N . ARG ARG ARG A A 421 421 . 21.358 46.551 37.505 1.00 30.77 1 .  
.  
ATOM 3151 CA CA . ARG ARG ARG A A 421 421 . 22.417 47.105 38.410 1.00 25.74 1 .  
.  
ATOM 3152 CB CB . ARG ARG ARG A A 421 421 . 22.547 46.402 39.737 1.00 26.62 1 .  
.  
ATOM 3153 CG CG . ARG ARG ARG A A 421 421 . 21.348 46.698 40.743 1.00 30.01 1 .  
.  
ATOM 3154 C C . ARG ARG ARG A A 421 421 . 23.750 46.995 37.698 1.00 23.17 1 .  
.  
ATOM 3155 O O . ARG ARG ARG A A 421 421 . 24.159 45.888 37.218 1.00 23.79 1 .  
.  
ATOM 3156 N N . PHE PHE PHE A A 422 422 . 24.441 48.117 37.655 1.00 18.75 1 .  
.  
ATOM 3157 CA CA . PHE PHE PHE A A 422 422 . 25.723 48.141 36.967 1.00 16.03 1 .  
.  
ATOM 3158 CB CB . PHE PHE PHE A A 422 422 . 25.830 49.504 36.294 1.00 15.89 1 .  
.  
ATOM 3159 CG CG . PHE PHE PHE A A 422 422 . 27.161 49.792 35.655 1.00 13.89 1 .  
.  
ATOM 3160 CD1 CD1 . PHE PHE PHE A A 422 422 . 27.557 49.115 34.510 1.00 14.36 1 .  
.  
ATOM 3161 CE1 CE1 . PHE PHE PHE A A 422 422 . 28.734 49.433 33.892 1.00 14.44 1 .  
.  
ATOM 3162 CZ CZ . PHE PHE PHE A A 422 422 . 29.602 50.378 34.373 1.00 15.35 1 .  
.  
ATOM 3163 CE2 CE2 . PHE PHE PHE A A 422 422 . 29.222 51.132 35.514 1.00 17.27 1 .  
.  
ATOM 3164 CD2 CD2 . PHE PHE PHE A A 422 422 . 27.977 50.827 36.141 1.00 16.43 1 .  
.  
ATOM 3165 C C . PHE PHE PHE A A 422 422 . 26.844 47.920 37.958 1.00 16.10 1 .  
.  
ATOM 3166 O O . PHE PHE PHE A A 422 422 . 26.796 48.484 39.089 1.00 16.18 1 .  
.  
ATOM 3167 N N . ALA ALA ALA A A 423 423 . 27.833 47.075 37.607 1.00 14.55 1 .  
.  
ATOM 3168 CA CA . ALA ALA ALA A A 423 423 . 28.883 46.654 38.557 1.00 14.87 1 .  
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ATOM 3349 OE2 OE2 . GLU GLU GLU B B 9 9 . 22.715 57.403 22.472 1.00 22.51 1 .  
.  
ATOM 3350 C C . GLU GLU GLU B B 9 9 . 21.723 53.187 20.191 1.00 14.69 1 .  
.  
ATOM 3351 O O . GLU GLU GLU B B 9 9 . 21.745 52.682 21.322 1.00 18.57 1 .  
.  
ATOM 3352 N N . ILE ILE ILE B B 10 10 . 22.387 52.692 19.199 1.00 12.61 1 .  
.  
ATOM 3353 CA CA . ILE ILE ILE B B 10 10 . 23.435 51.645 19.367 1.00 11.36 1 .  
.  
ATOM 3354 CB CB . ILE ILE ILE B B 10 10 . 23.074 50.340 18.566 1.00 12.57 1 .  
.  
ATOM 3355 CG1 CG1 . ILE ILE ILE B B 10 10 . 22.882 50.664 17.027 1.00 12.25 1 .  
.  
ATOM 3356 CD CD . ILE ILE ILE B B 10 10 . 22.810 49.384 16.131 1.00 15.62 1 .  
.  
ATOM 3357 CG2 CG2 . ILE ILE ILE B B 10 10 . 21.856 49.609 19.239 1.00 15.24 1 .  
.  
ATOM 3358 C C . ILE ILE ILE B B 10 10 . 24.690 52.265 18.733 1.00 13.13 1 .  
.  
ATOM 3359 O O . ILE ILE ILE B B 10 10 . 24.612 53.375 18.187 1.00 13.64 1 .  
.  
ATOM 3360 N N . LEU LEU LEU B B 11 11 . 25.806 51.598 18.834 1.00 10.60 1 .  
.  
ATOM 3361 CA CA . LEU LEU LEU B B 11 11 . 27.059 52.056 18.171 1.00 10.29 1 .  
.  
ATOM 3362 CB CB . LEU LEU LEU B B 11 11 . 28.243 51.865 19.121 1.00 12.23 1 .  
.  
ATOM 3363 CG CG . LEU LEU LEU B B 11 11 . 28.119 52.724 20.391 1.00 13.39 1 .  
.  
ATOM 3364 CD1 CD1 . LEU LEU LEU B B 11 11 . 29.511 52.704 21.071 1.00 15.23 1 .  
.  
ATOM 3365 CD2 CD2 . LEU LEU LEU B B 11 11 . 27.681 54.168 20.065 1.00 15.80 1 .  
.  
ATOM 3366 C C . LEU LEU LEU B B 11 11 . 27.274 51.345 16.867 1.00 9.99 1 .  
.  
ATOM 3367 O O . LEU LEU LEU B B 11 11 . 27.135 50.109 16.768 1.00 10.22 1 .  
.  
ATOM 3368 N N . ASP ASP ASP B B 12 12 . 27.623 52.108 15.854 1.00 10.33 1 .  
.  
ATOM 3369 CA CA . ASP ASP ASP B B 12 12 . 28.091 51.507 14.579 1.00 9.74 1 .  
.  
ATOM 3370 CB CB . ASP ASP ASP B B 12 12 . 27.775 52.512 13.428 1.00 11.46 1 .  
.  
ATOM 3371 CG CG . ASP ASP ASP B B 12 12 . 28.819 53.734 13.301 1.00 12.13 1 .  
.  
ATOM 3372 OD1 OD1 . ASP ASP ASP B B 12 12 . 29.862 53.756 13.946 1.00 11.61 1 .  
.  
ATOM 3373 OD2 OD2 . ASP ASP ASP B B 12 12 . 28.570 54.631 12.412 1.00 14.93 1 .  
.  
ATOM 3374 C C . ASP ASP ASP B B 12 12 . 29.505 51.073 14.579 1.00 9.89 1 .  
.  
ATOM 3375 O O . ASP ASP ASP B B 12 12 . 30.235 51.170 15.609 1.00 9.66 1 .  
.  
ATOM 3376 N N . SER SER SER B B 13 13 . 29.995 50.602 13.409 1.00 8.49 1 .  
.  
ATOM 3377 CA CA . SER SER SER B B 13 13 . 31.292 49.998 13.359 1.00 9.33 1 .  
.  
ATOM 3378 CB CB . SER SER SER B B 13 13 . 31.427 49.236 12.015 1.00 10.24 1 .  
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ATOM 3469 O O . TYR TYR TYR B B 24 24 . 4.612 44.655 15.977 1.00 19.27 1 .  
.  
ATOM 3470 N N . THR THR THR B B 25 25 . 5.164 42.484 15.702 1.00 18.82 1 .  
.  
ATOM 3471 CA CA . THR THR THR B B 25 25 . 3.812 42.087 15.204 1.00 20.63 1 .  
.  
ATOM 3472 CB CB . THR THR THR B B 25 25 . 3.800 41.830 13.680 1.00 19.36 1 .  
.  
ATOM 3473 OG1 OG1 . THR THR THR B B 25 25 . 4.576 40.643 13.442 1.00 21.48 1 .  
.  
ATOM 3474 CG2 CG2 . THR THR THR B B 25 25 . 4.414 42.987 12.885 1.00 21.18 1 .  
.  
ATOM 3475 C C . THR THR THR B B 25 25 . 3.437 40.776 15.905 1.00 20.81 1 .  
.  
ATOM 3476 O O . THR THR THR B B 25 25 . 4.182 40.264 16.781 1.00 21.55 1 .  
.  
ATOM 3477 N N . ALA ALA ALA B B 26 26 . 2.293 40.200 15.531 1.00 22.43 1 .  
.  
ATOM 3478 CA CA . ALA ALA ALA B B 26 26 . 1.891 38.942 16.073 1.00 24.77 1 .  
.  
ATOM 3479 CB CB . ALA ALA ALA B B 26 26 . 0.476 38.612 15.624 1.00 26.57 1 .  
.  
ATOM 3480 C C . ALA ALA ALA B B 26 26 . 2.887 37.831 15.684 1.00 25.67 1 .  
.  
ATOM 3481 O O . ALA ALA ALA B B 26 26 . 2.932 36.764 16.332 1.00 27.59 1 .  
.  
ATOM 3482 N N . LYS LYS LYS B B 27 27 . 3.709 38.056 14.667 1.00 24.14 1 .  
.  
ATOM 3483 CA CA . LYS LYS LYS B B 27 27 . 4.750 37.064 14.341 1.00 23.61 1 .  
.  
ATOM 3484 CB CB . LYS LYS LYS B B 27 27 . 5.119 37.076 12.836 1.00 24.77 1 .  
.  
ATOM 3485 CG CG . LYS LYS LYS B B 27 27 . 3.959 36.938 11.846 1.00 26.84 1 .  
.  
ATOM 3486 CD CD . LYS LYS LYS B B 27 27 . 3.560 35.598 11.713 1.00 30.57 1 .  
.  
ATOM 3487 CE CE . LYS LYS LYS B B 27 27 . 2.972 35.317 10.337 1.00 34.64 1 .  
.  
ATOM 3488 NZ NZ . LYS LYS LYS B B 27 27 . 2.364 33.962 10.570 1.00 40.27 1 .  
.  
ATOM 3489 C C . LYS LYS LYS B B 27 27 . 6.040 37.225 15.150 1.00 22.37 1 .  
.  
ATOM 3490 O O . LYS LYS LYS B B 27 27 . 6.930 36.369 15.024 1.00 24.35 1 .  
.  
ATOM 3491 N N . GLY GLY GLY B B 28 28 . 6.144 38.271 15.974 1.00 20.88 1 .  
.  
ATOM 3492 CA CA . GLY GLY GLY B B 28 28 . 7.321 38.454 16.836 1.00 20.49 1 .  
.  
ATOM 3493 C C . GLY GLY GLY B B 28 28 . 8.076 39.747 16.603 1.00 19.77 1 .  
.  
ATOM 3494 O O . GLY GLY GLY B B 28 28 . 7.473 40.759 16.253 1.00 18.67 1 .  
.  
ATOM 3495 N N . LEU LEU LEU B B 29 29 . 9.378 39.736 16.889 1.00 18.00 1 .  
.  
ATOM 3496 CA CA . LEU LEU LEU B B 29 29 . 10.200 40.969 16.914 1.00 18.96 1 .  
.  
ATOM 3497 CB CB . LEU LEU LEU B B 29 29 . 11.129 40.918 18.169 1.00 17.85 1 .  
.  
ATOM 3498 CG CG . LEU LEU LEU B B 29 29 . 12.365 41.784 18.214 1.00 21.45 1 .  
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ATOM 4069 O O . PHE PHE PHE B B 105 105 . 14.716 62.230 11.903 1.00 17.37 1 .  
.ATOM 4070 N N . GLY GLY GLY B B 106 106 . 14.786 63.070 9.805 1.00 17.02 1 .  
.ATOM 4071 CA CA . GLY GLY GLY B B 106 106 . 16.066 62.449 9.486 1.00 16.02 1 .  
.ATOM 4072 C C . GLY GLY GLY B B 106 106 . 15.795 61.230 8.635 1.00 15.05 1 .  
.ATOM 4073 O O . GLY GLY GLY B B 106 106 . 14.879 60.427 8.922 1.00 17.12 1 .  
.ATOM 4074 N N . ALA ALA ALA B B 107 107 . 16.604 61.076 7.609 1.00 14.24 1 .  
.ATOM 4075 CA CA . ALA ALA ALA B B 107 107 . 16.527 59.865 6.764 1.00 14.85 1 .  
.ATOM 4076 CB CB . ALA ALA ALA B B 107 107 . 17.479 59.976 5.576 1.00 14.67 1 .  
.ATOM 4077 C C . ALA ALA ALA B B 107 107 . 16.843 58.639 7.641 1.00 15.25 1 .  
.ATOM 4078 O O . ALA ALA ALA B B 107 107 . 16.370 57.522 7.340 1.00 15.30 1 .  
.ATOM 4079 N N . ASN ASN ASN B B 108 108 . 17.662 58.856 8.672 1.00 14.14 1 .  
.ATOM 4080 CA CA . ASN ASN ASN B B 108 108 . 18.052 57.746 9.608 1.00 14.08 1 .  
.ATOM 4081 CB CB . ASN ASN ASN B B 108 108 . 19.318 58.038 10.433 1.00 14.93 1 .  
.ATOM 4082 CG CG . ASN ASN ASN B B 108 108 . 19.324 59.399 11.110 1.00 15.60 1 .  
.ATOM 4083 OD1 OD1 . ASN ASN ASN B B 108 108 . 18.635 60.342 10.660 1.00 18.18 1 .  
.ATOM 4084 ND2 ND2 . ASN ASN ASN B B 108 108 . 20.200 59.529 12.132 1.00 14.82 1 .  
.ATOM 4085 C C . ASN ASN ASN B B 108 108 . 16.868 57.270 10.433 1.00 15.98 1 .  
.ATOM 4086 O O . ASN ASN ASN B B 108 108 . 16.738 56.062 10.678 1.00 18.30 1 .  
.ATOM 4087 N N . ALA ALA ALA B B 109 109 . 15.962 58.191 10.780 1.00 13.48 1 .  
.ATOM 4088 CA CA . ALA ALA ALA B B 109 109 . 14.755 57.783 11.508 1.00 13.83 1 .  
.ATOM 4089 CB CB . ALA ALA ALA B B 109 109 . 13.971 59.002 12.072 1.00 13.83 1 .  
.ATOM 4090 C C . ALA ALA ALA B B 109 109 . 13.854 56.997 10.557 1.00 14.65 1 .  
.ATOM 4091 O O . ALA ALA ALA B B 109 109 . 13.360 55.900 10.882 1.00 17.17 1 .  
.ATOM 4092 N N . ILE ILE ILE B B 110 110 . 13.553 57.581 9.396 1.00 14.23 1 .  
.ATOM 4093 CA CA . ILE ILE ILE B B 110 110 . 12.593 56.943 8.532 1.00 13.82 1 .  
.ATOM 4094 CB CB . ILE ILE ILE B B 110 110 . 12.253 57.869 7.332 1.00 14.20 1 .  
.ATOM 4095 CG1 CG1 . ILE ILE ILE B B 110 110 . 11.581 59.148 7.860 1.00 14.16 1 .  
.ATOM 4096 CD CD . ILE ILE ILE B B 110 110 . 11.480 60.250 6.776 1.00 18.84 1 .  
.ATOM 4097 CG2 CG2 . ILE ILE ILE B B 110 110 . 11.461 57.144 6.274 1.00 15.06 1 .  
.ATOM 4098 C C . ILE ILE ILE B B 110 110 . 13.124 55.572 8.060 1.00 12.39 1 .  
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ATOM 4099 O O . ILE ILE ILE B B 110 110 . 12.372 54.621 8.003 1.00 13.56 1 .  
.  
ATOM 4100 N N . LEU LEU LEU B B 111 111 . 14.403 55.517 7.694 1.00 11.22 1 .  
.  
ATOM 4101 CA CA . LEU LEU LEU B B 111 111 . 14.911 54.258 7.130 1.00 11.00 1 .  
.  
ATOM 4102 CB CB . LEU LEU LEU B B 111 111 . 16.336 54.409 6.618 1.00 10.96 1 .  
.  
ATOM 4103 CG CG . LEU LEU LEU B B 111 111 . 16.936 53.112 6.038 1.00 13.50 1 .  
.  
ATOM 4104 CD1 CD1 . LEU LEU LEU B B 111 111 . 16.060 52.576 4.807 1.00 12.71 1 .  
.  
ATOM 4105 CD2 CD2 . LEU LEU LEU B B 111 111 . 18.401 53.398 5.615 1.00 12.10 1 .  
.  
ATOM 4106 C C . LEU LEU LEU B B 111 111 . 14.881 53.115 8.191 1.00 12.07 1 .  
.  
ATOM 4107 O O . LEU LEU LEU B B 111 111 . 14.562 51.954 7.832 1.00 14.13 1 .  
.  
ATOM 4108 N N . GLY GLY GLY B B 112 112 . 15.234 53.464 9.419 1.00 12.11 1 .  
.  
ATOM 4109 CA CA . GLY GLY GLY B B 112 112 . 15.245 52.456 10.502 1.00 12.83 1 .  
.  
ATOM 4110 C C . GLY GLY GLY B B 112 112 . 13.870 51.716 10.565 1.00 13.87 1 .  
.  
ATOM 4111 O O . GLY GLY GLY B B 112 112 . 13.772 50.447 10.660 1.00 12.83 1 .  
.  
ATOM 4112 N N . VAL VAL VAL B B 113 113 . 12.796 52.492 10.506 1.00 14.42 1 .  
.  
ATOM 4113 CA CA . VAL VAL VAL B B 113 113 . 11.491 51.914 10.544 1.00 13.08 1 .  
.  
ATOM 4114 CB CB . VAL VAL VAL B B 113 113 . 10.416 53.021 10.793 1.00 13.82 1 .  
.  
ATOM 4115 CG1 CG1 . VAL VAL VAL B B 113 113 . 8.999 52.378 10.756 1.00 13.23 1 .  
.  
ATOM 4116 CG2 CG2 . VAL VAL VAL B B 113 113 . 10.633 53.632 12.134 1.00 15.54 1 .  
.  
ATOM 4117 C C . VAL VAL VAL B B 113 113 . 11.194 51.172 9.240 1.00 13.49 1 .  
.  
ATOM 4118 O O . VAL VAL VAL B B 113 113 . 10.612 50.088 9.253 1.00 13.09 1 .  
.  
ATOM 4119 N N . SER SER SER B B 114 114 . 11.533 51.779 8.108 1.00 12.32 1 .  
.  
ATOM 4120 CA CA . SER SER SER B B 114 114 . 11.266 51.166 6.794 1.00 13.00 1 .  
.  
ATOM 4121 CB CB . SER SER SER B B 114 114 . 11.823 52.096 5.684 1.00 12.58 1 .  
.  
ATOM 4122 OG OG . SER SER SER B B 114 114 . 11.436 51.584 4.428 1.00 14.95 1 .  
.  
ATOM 4123 C C . SER SER SER B B 114 114 . 11.877 49.728 6.728 1.00 12.80 1 .  
.  
ATOM 4124 O O . SER SER SER B B 114 114 . 11.241 48.806 6.207 1.00 13.94 1 .  
.  
ATOM 4125 N N . LEU LEU LEU B B 115 115 . 13.135 49.593 7.203 1.00 12.33 1 .  
.  
ATOM 4126 CA CA . LEU LEU LEU B B 115 115 . 13.823 48.287 7.124 1.00 12.10 1 .  
.  
ATOM 4127 CB CB . LEU LEU LEU B B 115 115 . 15.285 48.460 7.609 1.00 12.04 1 .  
.  
ATOM 4128 CG CG . LEU LEU LEU B B 115 115 . 16.206 49.378 6.761 1.00 11.19 1 .  
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ATOM 4309 CB CB . SER SER SER B B 140 140 . 9.575 35.516 -10.553 1.00 35.43 1 .  
.ATOM 4310 OG OG . SER SER SER B B 140 140 . 9.800 35.776 -11.917 1.00 39.81 1 .  
.ATOM 4311 C C . SER SER SER B B 140 140 . 11.991 35.273 -9.964 1.00 36.51 1 .  
.ATOM 4312 O O . SER SER SER B B 140 140 . 11.945 34.054 -9.837 1.00 40.05 1 .  
.ATOM 4313 N N . ASP ASP ASP B B 141 141 . 13.104 35.907 -10.302 1.00 36.38 1 .  
.ATOM 4314 CA CA . ASP ASP ASP B B 141 141 . 14.356 35.186 -10.342 1.00 34.51 1 .  
.ATOM 4315 CB CB . ASP ASP ASP B B 141 141 . 15.119 35.454 -11.651 1.00 36.03 1 .  
.ATOM 4316 CG CG . ASP ASP ASP B B 141 141 . 14.445 34.799 -12.892 1.00 37.04 1 .  
.ATOM 4317 C C . ASP ASP ASP B B 141 141 . 15.129 35.697 -9.091 1.00 32.73 1 .  
.ATOM 4318 O O . ASP ASP ASP B B 141 141 . 14.701 36.719 -8.432 1.00 34.04 1 .  
.ATOM 4319 N N . LEU LEU LEU B B 142 142 . 16.194 34.976 -8.729 1.00 28.68 1 .  
.ATOM 4320 CA CA . LEU LEU LEU B B 142 142 . 17.068 35.363 -7.616 1.00 24.78 1 .  
.ATOM 4321 CB CB . LEU LEU LEU B B 142 142 . 16.707 34.554 -6.386 1.00 22.42 1 .  
.ATOM 4322 CG CG . LEU LEU LEU B B 142 142 . 15.279 34.650 -5.784 1.00 22.68 1 .  
.ATOM 4323 CD1 CD1 . LEU LEU LEU B B 142 142 . 15.098 33.542 -4.745 1.00 27.99 1 .  
.ATOM 4324 CD2 CD2 . LEU LEU LEU B B 142 142 . 15.041 35.977 -5.073 1.00 25.46 1 .  
.ATOM 4325 C C . LEU LEU LEU B B 142 142 . 18.451 35.015 -8.128 1.00 23.61 1 .  
.ATOM 4326 O O . LEU LEU LEU B B 142 142 . 18.613 34.034 -8.873 1.00 26.60 1 .  
.ATOM 4327 N N . ILE ILE ILE B B 143 143 . 19.426 35.862 -7.863 1.00 20.97 1 .  
.ATOM 4328 CA CA . ILE ILE ILE B B 143 143 . 20.744 35.626 -8.337 1.00 19.84 1 .  
.ATOM 4329 CB CB . ILE ILE ILE B B 143 143 . 21.082 36.611 -9.514 1.00 22.04 1 .  
.ATOM 4330 CG1 CG1 . ILE ILE ILE B B 143 143 . 19.988 36.538 -10.585 1.00 26.61 1 .  
.ATOM 4331 CD CD . ILE ILE ILE B B 143 143 . 20.241 35.465 -11.645 1.00 31.96 1 .  
.ATOM 4332 CG2 CG2 . ILE ILE ILE B B 143 143 . 22.416 36.221 -10.130 1.00 28.41 1 .  
.ATOM 4333 C C . ILE ILE ILE B B 143 143 . 21.692 35.982 -7.211 1.00 17.32 1 .  
.ATOM 4334 O O . ILE ILE ILE B B 143 143 . 21.472 36.981 -6.520 1.00 17.21 1 .  
.ATOM 4335 N N . LEU LEU LEU B B 144 144 . 22.703 35.149 -6.981 1.00 14.57 1 .  
.ATOM 4336 CA CA . LEU LEU LEU B B 144 144 . 23.778 35.542 -6.027 1.00 13.19 1 .  
.ATOM 4337 CB CB . LEU LEU LEU B B 144 144 . 24.558 34.290 -5.501 1.00 14.79 1 .  
.ATOM 4338 CG CG . LEU LEU LEU B B 144 144 . 23.935 33.537 -4.304 1.00 15.42 1 .  
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ATOM 4489 C C . GLN GLN GLN B B 165 165 . 39.292 54.435 -1.978 1.00 16.46 1 .  
.ATOM 4490 O O . GLN GLN GLN B B 165 165 . 39.686 53.953 -0.897 1.00 18.28 1 .  
.ATOM 4491 N N . GLU GLU GLU B B 166 166 . 38.911 53.655 -2.991 1.00 15.25 1 .  
.ATOM 4492 CA CA . GLU GLU GLU B B 166 166 . 38.843 52.215 -2.753 1.00 15.03 1 .  
.ATOM 4493 CB CB . GLU GLU GLU B B 166 166 . 37.382 51.745 -2.619 1.00 16.76 1 .  
.ATOM 4494 CG CG . GLU GLU GLU B B 166 166 . 36.575 52.486 -1.585 1.00 20.88 1 .  
.ATOM 4495 CD CD . GLU GLU GLU B B 166 166 . 35.053 52.201 -1.601 1.00 21.41 1 .  
.ATOM 4496 OE1 OE1 . GLU GLU GLU B B 166 166 . 34.558 51.266 -2.280 1.00 19.61 1 .  
.ATOM 4497 OE2 OE2 . GLU GLU GLU B B 166 166 . 34.320 52.938 -0.845 1.00 27.79 1 .  
.ATOM 4498 C C . GLU GLU GLU B B 166 166 . 39.346 51.477 -3.991 1.00 13.94 1 .  
.ATOM 4499 O O . GLU GLU GLU B B 166 166 . 39.012 51.831 -5.127 1.00 13.54 1 .  
.ATOM 4500 N N . PHE PHE PHE B B 167 167 . 40.131 50.445 -3.729 1.00 12.20 1 .  
.ATOM 4501 CA CA . PHE PHE PHE B B 167 167 . 40.570 49.463 -4.772 1.00 11.90 1 .  
.ATOM 4502 CB CB . PHE PHE PHE B B 167 167 . 42.101 49.468 -4.841 1.00 13.00 1 .  
.ATOM 4503 CG CG . PHE PHE PHE B B 167 167 . 42.642 50.796 -5.266 1.00 14.52 1 .  
.ATOM 4504 CD1 CD1 . PHE PHE PHE B B 167 167 . 42.806 51.869 -4.322 1.00 15.71 1 .  
.ATOM 4505 CE1 CE1 . PHE PHE PHE B B 167 167 . 43.272 53.153 -4.758 1.00 15.50 1 .  
.ATOM 4506 CZ CZ . PHE PHE PHE B B 167 167 . 43.585 53.357 -6.112 1.00 16.66 1 .  
.ATOM 4507 CE2 CE2 . PHE PHE PHE B B 167 167 . 43.386 52.288 -7.041 1.00 15.39 1 .  
.ATOM 4508 CD2 CD2 . PHE PHE PHE B B 167 167 . 42.945 50.988 -6.567 1.00 16.13 1 .  
.ATOM 4509 C C . PHE PHE PHE B B 167 167 . 40.015 48.121 -4.387 1.00 12.27 1 .  
.ATOM 4510 O O . PHE PHE PHE B B 167 167 . 40.351 47.641 -3.282 1.00 15.20 1 .  
.ATOM 4511 N N . MET MET MET B B 168 168 . 39.142 47.511 -5.224 1.00 12.31 1 .  
.ATOM 4512 CA CA . MET MET MET B B 168 168 . 38.351 46.332 -4.887 1.00 12.29 1 .  
.ATOM 4513 CB CB . MET MET MET B B 168 168 . 36.846 46.630 -5.178 1.00 14.28 1 .  
.ATOM 4514 CG CG . MET MET MET B B 168 168 . 36.308 47.715 -4.113 1.00 13.69 1 .  
.ATOM 4515 SD SD . MET MET MET B B 168 168 . 34.579 48.089 -4.544 1.00 21.08 1 .  
.ATOM 4516 CE CE . MET MET MET B B 168 168 . 34.845 49.557 -5.601 1.00 18.74 1 .  
.ATOM 4517 C C . MET MET MET B B 168 168 . 38.728 45.177 -5.773 1.00 12.84 1 .  
.ATOM 4518 O O . MET MET MET B B 168 168 . 39.136 45.373 -6.920 1.00 12.80 1 .  
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ATOM 4549 N N . GLY GLY GLY B B 173 173 . 35.325 34.947 -11.687 1.00 15.41 1 .  
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ATOM 4550 CA CA . GLY GLY GLY B B 173 173 . 35.579 33.559 -12.231 1.00 16.19 1 .  
.  
ATOM 4551 C C . GLY GLY GLY B B 173 173 . 35.285 32.494 -11.199 1.00 17.47 1 .  
.  
ATOM 4552 O O . GLY GLY GLY B B 173 173 . 35.547 31.273 -11.445 1.00 18.66 1 .  
.  
ATOM 4553 N N . ALA ALA ALA B B 174 174 . 34.753 32.897 -10.029 1.00 15.63 1 .  
.  
ATOM 4554 CA CA . ALA ALA ALA B B 174 174 . 34.425 31.866 -9.010 1.00 15.71 1 .  
.  
ATOM 4555 CB CB . ALA ALA ALA B B 174 174 . 34.002 32.615 -7.694 1.00 14.61 1 .  
.  
ATOM 4556 C C . ALA ALA ALA B B 174 174 . 33.313 30.894 -9.424 1.00 16.10 1 .  
.  
ATOM 4557 O O . ALA ALA ALA B B 174 174 . 32.451 31.209 -10.214 1.00 17.12 1 .  
.  
ATOM 4558 N N . GLU GLU GLU B B 175 175 . 33.282 29.703 -8.808 1.00 16.80 1 .  
.  
ATOM 4559 CA CA . GLU GLU GLU B B 175 175 . 32.227 28.756 -9.115 1.00 18.62 1 .  
.  
ATOM 4560 CB CB . GLU GLU GLU B B 175 175 . 32.696 27.305 -8.726 1.00 18.85 1 .  
.  
ATOM 4561 CG CG . GLU GLU GLU B B 175 175 . 34.043 27.001 -9.383 1.00 24.72 1 .  
.  
ATOM 4562 CD CD . GLU GLU GLU B B 175 175 . 33.888 26.624 -10.845 1.00 33.14 1 .  
.  
ATOM 4563 C C . GLU GLU GLU B B 175 175 . 30.883 29.014 -8.496 1.00 17.67 1 .  
.  
ATOM 4564 O O . GLU GLU GLU B B 175 175 . 29.860 28.475 -8.968 1.00 20.36 1 .  
.  
ATOM 4565 N N . SER SER SER B B 176 176 . 30.866 29.821 -7.412 1.00 14.57 1 .  
.  
ATOM 4566 CA CA . SER SER SER B B 176 176 . 29.633 29.953 -6.621 1.00 13.84 1 .  
.  
ATOM 4567 CB CB . SER SER SER B B 176 176 . 29.412 28.721 -5.697 1.00 13.24 1 .  
.  
ATOM 4568 OG OG . SER SER SER B B 176 176 . 30.491 28.560 -4.832 1.00 14.10 1 .  
.  
ATOM 4569 C C . SER SER SER B B 176 176 . 29.924 31.213 -5.760 1.00 12.99 1 .  
.  
ATOM 4570 O O . SER SER SER B B 176 176 . 31.078 31.681 -5.730 1.00 12.65 1 .  
.  
ATOM 4571 N N . PHE PHE PHE B B 177 177 . 28.915 31.652 -4.992 1.00 13.22 1 .  
.  
ATOM 4572 CA CA . PHE PHE PHE B B 177 177 . 29.147 32.723 -4.021 1.00 12.08 1 .  
.  
ATOM 4573 CB CB . PHE PHE PHE B B 177 177 . 27.831 33.238 -3.399 1.00 10.59 1 .  
.  
ATOM 4574 CG CG . PHE PHE PHE B B 177 177 . 28.080 34.481 -2.642 1.00 9.80 1 .  
.  
ATOM 4575 CD1 CD1 . PHE PHE PHE B B 177 177 . 28.239 35.683 -3.307 1.00 12.20 1 .  
.  
ATOM 4576 CE1 CE1 . PHE PHE PHE B B 177 177 . 28.628 36.832 -2.621 1.00 12.79 1 .  
.  
ATOM 4577 CZ CZ . PHE PHE PHE B B 177 177 . 28.989 36.764 -1.308 1.00 14.11 1 .  
.  
ATOM 4578 CE2 CE2 . PHE PHE PHE B B 177 177 . 28.907 35.532 -0.605 1.00 10.31 1 .  
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ATOM 4669 O O . TYR TYR TYR B B 188 188 . 45.266 39.880 2.121 1.00 11.28 1 .  
.ATOM 4670 N N . HIS HIS HIS B B 189 189 . 44.401 37.816 2.266 1.00 12.17 1 .  
.ATOM 4671 CA CA . HIS HIS HIS B B 189 189 . 45.534 37.340 3.127 1.00 14.93 1 .  
.ATOM 4672 CB CB . HIS HIS HIS B B 189 189 . 45.239 35.921 3.586 1.00 14.76 1 .  
.ATOM 4673 CG CG . HIS HIS HIS B B 189 189 . 44.039 35.830 4.489 1.00 17.81 1 .  
.ATOM 4674 ND1 ND1 . HIS HIS HIS B B 189 189 . 43.017 34.907 4.349 1.00 23.75 1 .  
.ATOM 4675 CE1 CE1 . HIS HIS HIS B B 189 189 . 42.108 35.131 5.297 1.00 23.86 1 .  
.ATOM 4676 NE2 NE2 . HIS HIS HIS B B 189 189 . 42.482 36.205 5.985 1.00 25.52 1 .  
.ATOM 4677 CD2 CD2 . HIS HIS HIS B B 189 189 . 43.678 36.644 5.494 1.00 22.31 1 .  
.ATOM 4678 C C . HIS HIS HIS B B 189 189 . 46.860 37.413 2.352 1.00 13.96 1 .  
.ATOM 4679 O O . HIS HIS HIS B B 189 189 . 47.910 37.783 2.892 1.00 15.56 1 .  
.ATOM 4680 N N . THR THR THR B B 190 190 . 46.825 37.085 1.062 1.00 12.87 1 .  
.ATOM 4681 CA CA . THR THR THR B B 190 190 . 48.052 37.191 0.230 1.00 13.41 1 .  
.ATOM 4682 CB CB . THR THR THR B B 190 190 . 47.777 36.655 -1.167 1.00 12.05 1 .  
.ATOM 4683 OG1 OG1 . THR THR THR B B 190 190 . 47.410 35.295 -1.040 1.00 15.83 1 .  
.ATOM 4684 CG2 CG2 . THR THR THR B B 190 190 . 49.067 36.757 -2.020 1.00 14.95 1 .  
.ATOM 4685 C C . THR THR THR B B 190 190 . 48.515 38.615 0.116 1.00 12.62 1 .  
.ATOM 4686 O O . THR THR THR B B 190 190 . 49.720 38.924 0.302 1.00 13.94 1 .  
.ATOM 4687 N N . LEU LEU LEU B B 191 191 . 47.563 39.536 -0.028 1.00 12.71 1 .  
.ATOM 4688 CA CA . LEU LEU LEU B B 191 191 . 47.922 40.960 -0.130 1.00 11.91 1 .  
.ATOM 4689 CB CB . LEU LEU LEU B B 191 191 . 46.623 41.747 -0.448 1.00 11.78 1 .  
.ATOM 4690 CG CG . LEU LEU LEU B B 191 191 . 46.843 43.273 -0.462 1.00 13.32 1 .  
.ATOM 4691 CD1 CD1 . LEU LEU LEU B B 191 191 . 45.399 43.981 -0.620 1.00 14.93 1 .  
.ATOM 4692 CD2 CD2 . LEU LEU LEU B B 191 191 . 47.802 43.804 -1.601 1.00 16.79 1 .  
.ATOM 4693 C C . LEU LEU LEU B B 191 191 . 48.545 41.485 1.154 1.00 12.69 1 .  
.ATOM 4694 O O . LEU LEU LEU B B 191 191 . 49.427 42.312 1.096 1.00 14.06 1 .  
.ATOM 4695 N N . LYS LYS LYS B B 192 192 . 48.041 41.033 2.322 1.00 12.48 1 .  
.ATOM 4696 CA CA . LYS LYS LYS B B 192 192 . 48.651 41.432 3.577 1.00 12.07 1 .  
.ATOM 4697 CB CB . LYS LYS LYS B B 192 192 . 47.974 40.738 4.791 1.00 14.26 1 .  
.ATOM 4698 CG CG . LYS LYS LYS B B 192 192 . 48.275 41.443 6.085 1.00 13.24 1 .  
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ATOM 4759 N N . GLY GLY GLY B B 200 200 . 56.510 46.861 5.234 1.00 20.02 1 .  
.  
ATOM 4760 CA CA . GLY GLY GLY B B 200 200 . 56.767 46.580 6.662 1.00 20.98 1 .  
.  
ATOM 4761 C C . GLY GLY GLY B B 200 200 . 55.466 46.171 7.336 1.00 23.62 1 .  
.  
ATOM 4762 O O . GLY GLY GLY B B 200 200 . 54.361 46.453 6.845 1.00 21.87 1 .  
.  
ATOM 4763 N N . LYS LYS LYS B B 201 201 . 55.620 45.448 8.436 1.00 27.02 1 .  
.  
ATOM 4764 CA CA . LYS LYS LYS B B 201 201 . 54.450 45.049 9.296 1.00 28.89 1 .  
.  
ATOM 4765 CB CB . LYS LYS LYS B B 201 201 . 55.001 44.482 10.572 1.00 29.76 1 .  
.  
ATOM 4766 C C . LYS LYS LYS B B 201 201 . 53.595 46.244 9.665 1.00 29.29 1 .  
.  
ATOM 4767 O O . LYS LYS LYS B B 201 201 . 52.328 46.164 9.720 1.00 30.00 1 .  
.  
ATOM 4768 N N . ASP ASP ASP B B 202 202 . 54.266 47.345 10.004 1.00 28.73 1 .  
.  
ATOM 4769 CA CA . ASP ASP ASP B B 202 202 . 53.576 48.543 10.391 1.00 30.53 1 .  
.  
ATOM 4770 CB CB . ASP ASP ASP B B 202 202 . 54.578 49.706 10.821 1.00 34.01 1 .  
.  
ATOM 4771 CG CG . ASP ASP ASP B B 202 202 . 55.300 49.413 12.197 1.00 41.60 1 .  
.  
ATOM 4772 OD1 OD1 . ASP ASP ASP B B 202 202 . 55.789 48.240 12.366 1.00 47.10 1 .  
.  
ATOM 4773 OD2 OD2 . ASP ASP ASP B B 202 202 . 55.399 50.318 13.137 1.00 53.23 1 .  
.  
ATOM 4774 C C . ASP ASP ASP B B 202 202 . 52.540 49.019 9.395 1.00 27.41 1 .  
.  
ATOM 4775 O O . ASP ASP ASP B B 202 202 . 51.728 49.840 9.790 1.00 28.74 1 .  
.  
ATOM 4776 N N . ALA ALA ALA B B 203 203 . 52.524 48.517 8.130 1.00 23.83 1 .  
.  
ATOM 4777 CA CA . ALA ALA ALA B B 203 203 . 51.632 49.015 7.044 1.00 21.03 1 .  
.  
ATOM 4778 CB CB . ALA ALA ALA B B 203 203 . 52.330 49.005 5.697 1.00 21.71 1 .  
.  
ATOM 4779 C C . ALA ALA ALA B B 203 203 . 50.393 48.078 6.909 1.00 19.45 1 .  
.  
ATOM 4780 O O . ALA ALA ALA B B 203 203 . 49.602 48.206 5.956 1.00 19.27 1 .  
.  
ATOM 4781 N N . THR THR THR B B 204 204 . 50.257 47.125 7.824 1.00 17.52 1 .  
.  
ATOM 4782 CA CA . THR THR THR B B 204 204 . 49.223 46.113 7.619 1.00 17.76 1 .  
.  
ATOM 4783 CB CB . THR THR THR B B 204 204 . 49.789 44.673 7.701 1.00 18.71 1 .  
.  
ATOM 4784 OG1 OG1 . THR THR THR B B 204 204 . 50.330 44.440 9.034 1.00 22.63 1 .  
.  
ATOM 4785 CG2 CG2 . THR THR THR B B 204 204 . 50.904 44.508 6.627 1.00 22.23 1 .  
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ATOM 4786 C C . THR THR THR B B 204 204 . 48.054 46.166 8.594 1.00 15.25 1 .  
.  
ATOM 4787 O O . THR THR THR B B 204 204 . 47.271 45.209 8.663 1.00 16.54 1 .  
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ATOM 4788 N N . ASN ASN ASN B B 205 205 . 47.872 47.266 9.264 1.00 16.28 1 .  
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ATOM 4879 N N . GLU GLU GLU B B 218 218 . 50.812 57.191 -5.286 1.00 22.81 1 .  
.  
ATOM 4880 CA CA . GLU GLU GLU B B 218 218 . 50.461 56.878 -6.685 1.00 20.19 1 .  
.  
ATOM 4881 CB CB . GLU GLU GLU B B 218 218 . 51.689 56.338 -7.482 1.00 22.26 1 .  
.  
ATOM 4882 CG CG . GLU GLU GLU B B 218 218 . 52.821 57.381 -7.523 1.00 27.94 1 .  
.  
ATOM 4883 CD CD . GLU GLU GLU B B 218 218 . 52.564 58.461 -8.570 1.00 38.71 1 .  
.  
ATOM 4884 OE1 OE1 . GLU GLU GLU B B 218 218 . 53.242 59.529 -8.508 1.00 45.75 1 .  
.  
ATOM 4885 OE2 OE2 . GLU GLU GLU B B 218 218 . 51.665 58.275 -9.456 1.00 42.62 1 .  
.  
ATOM 4886 C C . GLU GLU GLU B B 218 218 . 49.330 55.868 -6.718 1.00 20.87 1 .  
.  
ATOM 4887 O O . GLU GLU GLU B B 218 218 . 49.427 54.761 -6.141 1.00 20.05 1 .  
.  
ATOM 4888 N N . ASN ASN ASN B B 219 219 . 48.246 56.229 -7.409 1.00 19.11 1 .  
.  
ATOM 4889 CA CA . ASN ASN ASN B B 219 219 . 47.156 55.287 -7.516 1.00 19.27 1 .  
.  
ATOM 4890 CB CB . ASN ASN ASN B B 219 219 . 45.913 55.988 -8.085 1.00 19.40 1 .  
.  
ATOM 4891 CG CG . ASN ASN ASN B B 219 219 . 45.465 57.107 -7.183 1.00 19.53 1 .  
.  
ATOM 4892 OD1 OD1 . ASN ASN ASN B B 219 219 . 45.771 58.280 -7.482 1.00 24.60 1 .  
.  
ATOM 4893 ND2 ND2 . ASN ASN ASN B B 219 219 . 44.884 56.790 -6.040 1.00 14.24 1 .  
.  
ATOM 4894 C C . ASN ASN ASN B B 219 219 . 47.551 54.031 -8.274 1.00 17.83 1 .  
.  
ATOM 4895 O O . ASN ASN ASN B B 219 219 . 47.003 52.928 -8.000 1.00 18.44 1 .  
.  
ATOM 4896 N N . SER SER SER B B 220 220 . 48.468 54.186 -9.219 1.00 19.01 1 .  
.  
ATOM 4897 CA CA . SER SER SER B B 220 220 . 48.969 53.032 -9.965 1.00 19.65 1 .  
.  
ATOM 4898 CB CB . SER SER SER B B 220 220 . 49.885 53.451 -11.120 1.00 20.79 1 .  
.  
ATOM 4899 OG OG . SER SER SER B B 220 220 . 51.029 54.098 -10.625 1.00 24.62 1 .  
.  
ATOM 4900 C C . SER SER SER B B 220 220 . 49.695 52.042 -9.045 1.00 18.30 1 .  
.  
ATOM 4901 O O . SER SER SER B B 220 220 . 49.641 50.838 -9.279 1.00 18.80 1 .  
.  
ATOM 4902 N N . GLU GLU GLU B B 221 221 . 50.332 52.508 -7.985 1.00 17.71 1 .  
.  
ATOM 4903 CA CA . GLU GLU GLU B B 221 221 . 50.951 51.582 -7.011 1.00 18.16 1 .  
.  
ATOM 4904 CB CB . GLU GLU GLU B B 221 221 . 51.897 52.405 -6.076 1.00 19.14 1 .  
.  
ATOM 4905 CG CG . GLU GLU GLU B B 221 221 . 52.501 51.551 -4.967 1.00 24.72 1 .  
.  
ATOM 4906 CD CD . GLU GLU GLU B B 221 221 . 53.364 50.364 -5.430 1.00 32.42 1 .  
.  
ATOM 4907 OE1 OE1 . GLU GLU GLU B B 221 221 . 53.783 49.599 -4.526 1.00 38.60 1 .  
.  
ATOM 4908 OE2 OE2 . GLU GLU GLU B B 221 221 . 53.634 50.154 -6.647 1.00 35.58 1 .  
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ATOM 4909 C C . GLU GLU GLU B B 221 221 . 49.898 50.731 -6.246 1.00 17.51 1 .  
.ATOM 4910 O O . GLU GLU GLU B B 221 221 . 50.122 49.522 -5.973 1.00 16.37 1 .  
.ATOM 4911 N N . ALA ALA ALA B B 222 222 . 48.741 51.331 -5.891 1.00 16.21 1 .  
.ATOM 4912 CA CA . ALA ALA ALA B B 222 222 . 47.648 50.529 -5.369 1.00 16.22 1 .  
.ATOM 4913 CB CB . ALA ALA ALA B B 222 222 . 46.441 51.389 -4.949 1.00 16.56 1 .  
.ATOM 4914 C C . ALA ALA ALA B B 222 222 . 47.237 49.405 -6.305 1.00 15.10 1 .  
.ATOM 4915 O O . ALA ALA ALA B B 222 222 . 46.995 48.256 -5.893 1.00 15.12 1 .  
.ATOM 4916 N N . LEU LEU LEU B B 223 223 . 47.063 49.754 -7.564 1.00 14.12 1 .  
.ATOM 4917 CA CA . LEU LEU LEU B B 223 223 . 46.682 48.773 -8.567 1.00 14.30 1 .  
.ATOM 4918 CB CB . LEU LEU LEU B B 223 223 . 46.410 49.436 -9.922 1.00 14.81 1 .  
.ATOM 4919 CG CG . LEU LEU LEU B B 223 223 . 45.106 50.290 -9.848 1.00 13.45 1 .  
.ATOM 4920 CD1 CD1 . LEU LEU LEU B B 223 223 . 45.000 51.227 -11.104 1.00 16.08 1 .  
.ATOM 4921 CD2 CD2 . LEU LEU LEU B B 223 223 . 43.893 49.347 -9.799 1.00 16.61 1 .  
.ATOM 4922 C C . LEU LEU LEU B B 223 223 . 47.764 47.665 -8.710 1.00 15.21 1 .  
.ATOM 4923 O O . LEU LEU LEU B B 223 223 . 47.441 46.466 -8.811 1.00 16.20 1 .  
.ATOM 4924 N N . GLU GLU GLU B B 224 224 . 49.019 48.100 -8.712 1.00 15.25 1 .  
.ATOM 4925 CA CA . GLU GLU GLU B B 224 224 . 50.100 47.138 -8.816 1.00 17.14 1 .  
.ATOM 4926 CB CB . GLU GLU GLU B B 224 224 . 51.424 47.857 -8.811 1.00 19.63 1 .  
.ATOM 4927 CG CG . GLU GLU GLU B B 224 224 . 52.484 46.931 -9.361 1.00 27.83 1 .  
.ATOM 4928 CD CD . GLU GLU GLU B B 224 224 . 52.374 46.942 -10.922 1.00 37.96 1 .  
.ATOM 4929 OE1 OE1 . GLU GLU GLU B B 224 224 . 52.120 45.923 -11.525 1.00 43.22 1 .  
.ATOM 4930 OE2 OE2 . GLU GLU GLU B B 224 224 . 52.491 48.025 -11.550 1.00 46.13 1 .  
.ATOM 4931 C C . GLU GLU GLU B B 224 224 . 50.081 46.134 -7.630 1.00 18.03 1 .  
.ATOM 4932 O O . GLU GLU GLU B B 224 224 . 50.322 44.928 -7.818 1.00 17.59 1 .  
.ATOM 4933 N N . LEU LEU LEU B B 225 225 . 49.896 46.643 -6.406 1.00 17.01 1 .  
.ATOM 4934 CA CA . LEU LEU LEU B B 225 225 . 49.823 45.724 -5.251 1.00 15.01 1 .  
.ATOM 4935 CB CB . LEU LEU LEU B B 225 225 . 49.575 46.581 -3.963 1.00 16.63 1 .  
.ATOM 4936 CG CG . LEU LEU LEU B B 225 225 . 50.775 47.429 -3.540 1.00 17.26 1 .  
.ATOM 4937 CD1 CD1 . LEU LEU LEU B B 225 225 . 50.383 48.401 -2.451 1.00 18.20 1 .  
.ATOM 4938 CD2 CD2 . LEU LEU LEU B B 225 225 . 51.912 46.457 -3.001 1.00 19.58 1 .  
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ATOM 4939 C C . LEU LEU LEU B B 225 225 . 48.704 44.746 -5.350 1.00 13.92 1 .  
.ATOM 4940 O O . LEU LEU LEU B B 225 225 . 48.834 43.569 -5.005 1.00 15.81 1 .  
.ATOM 4941 N N . VAL VAL VAL B B 226 226 . 47.514 45.238 -5.724 1.00 13.73 1 .  
.ATOM 4942 CA CA . VAL VAL VAL B B 226 226 . 46.376 44.334 -5.902 1.00 12.16 1 .  
.ATOM 4943 CB CB . VAL VAL VAL B B 226 226 . 45.097 45.141 -6.160 1.00 14.50 1 .  
.ATOM 4944 CG1 CG1 . VAL VAL VAL B B 226 226 . 43.955 44.229 -6.488 1.00 14.51 1 .  
.ATOM 4945 CG2 CG2 . VAL VAL VAL B B 226 226 . 44.761 46.015 -4.914 1.00 15.96 1 .  
.ATOM 4946 C C . VAL VAL VAL B B 226 226 . 46.621 43.284 -6.991 1.00 12.79 1 .  
.ATOM 4947 O O . VAL VAL VAL B B 226 226 . 46.304 42.123 -6.791 1.00 14.23 1 .  
.ATOM 4948 N N . LYS LYS LYS B B 227 227 . 47.092 43.714 -8.156 1.00 14.54 1 .  
.ATOM 4949 CA CA . LYS LYS LYS B B 227 227 . 47.415 42.804 -9.215 1.00 16.72 1 .  
.ATOM 4950 CB CB . LYS LYS LYS B B 227 227 . 47.858 43.581 -10.465 1.00 17.44 1 .  
.ATOM 4951 CG CG . LYS LYS LYS B B 227 227 . 48.128 42.607 -11.666 1.00 21.64 1 .  
.ATOM 4952 C C . LYS LYS LYS B B 227 227 . 48.485 41.766 -8.753 1.00 16.14 1 .  
.ATOM 4953 O O . LYS LYS LYS B B 227 227 . 48.308 40.602 -9.057 1.00 17.54 1 .  
.ATOM 4954 N N . GLU GLU GLU B B 228 228 . 49.506 42.172 -8.001 1.00 18.68 1 .  
.ATOM 4955 CA CA . GLU GLU GLU B B 228 228 . 50.553 41.234 -7.458 1.00 17.18 1 .  
.ATOM 4956 CB CB . GLU GLU GLU B B 228 228 . 51.700 41.953 -6.723 1.00 18.11 1 .  
.ATOM 4957 CG CG . GLU GLU GLU B B 228 228 . 52.791 41.032 -6.139 1.00 20.04 1 .  
.ATOM 4958 CD CD . GLU GLU GLU B B 228 228 . 54.133 41.798 -5.801 1.00 29.59 1 .  
.ATOM 4959 C C . GLU GLU GLU B B 228 228 . 49.867 40.190 -6.548 1.00 18.01 1 .  
.ATOM 4960 O O . GLU GLU GLU B B 228 228 . 50.127 38.958 -6.645 1.00 18.83 1 .  
.ATOM 4961 N N . ALA ALA ALA B B 229 229 . 48.948 40.672 -5.692 1.00 14.84 1 .  
.ATOM 4962 CA CA . ALA ALA ALA B B 229 229 . 48.298 39.735 -4.804 1.00 14.97 1 .  
.ATOM 4963 CB CB . ALA ALA ALA B B 229 229 . 47.464 40.472 -3.761 1.00 14.07 1 .  
.ATOM 4964 C C . ALA ALA ALA B B 229 229 . 47.423 38.698 -5.547 1.00 15.12 1 .  
.ATOM 4965 O O . ALA ALA ALA B B 229 229 . 47.388 37.519 -5.194 1.00 15.29 1 .  
.ATOM 4966 N N . ILE ILE ILE B B 230 230 . 46.653 39.159 -6.536 1.00 13.66 1 .  
.ATOM 4967 CA CA . ILE ILE ILE B B 230 230 . 45.800 38.271 -7.287 1.00 14.79 1 .  
.ATOM 4968 CB CB . ILE ILE ILE B B 230 230 . 45.072 39.047 -8.368 1.00 13.80 1 .  
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ATOM 4969 CG1 CG1 . ILE ILE ILE B B 230 230 . 43.935 39.916 -7.735 1.00 13.66 1 .  
.  
ATOM 4970 CD CD . ILE ILE ILE B B 230 230 . 43.331 41.041 -8.642 1.00 15.03 1 .  
.  
ATOM 4971 CG2 CG2 . ILE ILE ILE B B 230 230 . 44.450 38.031 -9.403 1.00 16.24 1 .  
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ATOM 4972 C C . ILE ILE ILE B B 230 230 . 46.701 37.191 -7.934 1.00 18.09 1 .  
.  
ATOM 4973 O O . ILE ILE ILE B B 230 230 . 46.432 35.956 -7.890 1.00 17.51 1 .  
.  
ATOM 4974 N N . ASP ASP ASP B B 231 231 . 47.803 37.678 -8.483 1.00 17.61 1 .  
.  
ATOM 4975 CA CA . ASP ASP ASP B B 231 231 . 48.726 36.760 -9.216 1.00 21.03 1 .  
.  
ATOM 4976 CB CB . ASP ASP ASP B B 231 231 . 49.734 37.559 -10.043 1.00 22.29 1 .  
.  
ATOM 4977 CG CG . ASP ASP ASP B B 231 231 . 49.026 38.457 -11.215 1.00 29.62 1 .  
.  
ATOM 4978 OD1 OD1 . ASP ASP ASP B B 231 231 . 49.804 39.242 -11.898 1.00 38.55 1 .  
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ATOM 4979 OD2 OD2 . ASP ASP ASP B B 231 231 . 47.722 38.401 -11.489 1.00 32.13 1 .  
.  
ATOM 4980 C C . ASP ASP ASP B B 231 231 . 49.382 35.735 -8.276 1.00 21.24 1 .  
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ATOM 4981 O O . ASP ASP ASP B B 231 231 . 49.409 34.506 -8.579 1.00 22.21 1 .  
.  
ATOM 4982 N N . LYS LYS LYS B B 232 232 . 49.910 36.232 -7.155 1.00 21.78 1 .  
.  
ATOM 4983 CA CA . LYS LYS LYS B B 232 232 . 50.564 35.409 -6.135 1.00 22.62 1 .  
.  
ATOM 4984 CB CB . LYS LYS LYS B B 232 232 . 51.266 36.303 -5.097 1.00 23.83 1 .  
.  
ATOM 4985 CG CG . LYS LYS LYS B B 232 232 . 52.069 35.639 -4.117 1.00 27.86 1 .  
.  
ATOM 4986 CD CD . LYS LYS LYS B B 232 232 . 52.861 36.694 -3.295 1.00 35.89 1 .  
.  
ATOM 4987 CE CE . LYS LYS LYS B B 232 232 . 53.564 36.039 -2.067 1.00 38.45 1 .  
.  
ATOM 4988 NZ NZ . LYS LYS LYS B B 232 232 . 54.222 37.065 -1.152 1.00 43.30 1 .  
.  
ATOM 4989 C C . LYS LYS LYS B B 232 232 . 49.597 34.359 -5.536 1.00 22.72 1 .  
.  
ATOM 4990 O O . LYS LYS LYS B B 232 232 . 50.014 33.210 -5.234 1.00 23.98 1 .  
.  
ATOM 4991 N N . ALA ALA ALA B B 233 233 . 48.316 34.699 -5.426 1.00 19.73 1 .  
.  
ATOM 4992 CA CA . ALA ALA ALA B B 233 233 . 47.278 33.762 -4.922 1.00 18.70 1 .  
.  
ATOM 4993 CB CB . ALA ALA ALA B B 233 233 . 45.974 34.565 -4.465 1.00 18.47 1 .  
.  
ATOM 4994 C C . ALA ALA ALA B B 233 233 . 46.878 32.709 -5.934 1.00 18.85 1 .  
.  
ATOM 4995 O O . ALA ALA ALA B B 233 233 . 46.194 31.733 -5.577 1.00 22.15 1 .  
.  
ATOM 4996 N N . GLY GLY GLY B B 234 234 . 47.306 32.888 -7.183 1.00 19.27 1 .  
.  
ATOM 4997 CA CA . GLY GLY GLY B B 234 234 . 46.937 31.976 -8.276 1.00 20.76 1 .  
.  
ATOM 4998 C C . GLY GLY GLY B B 234 234 . 45.663 32.242 -9.031 1.00 20.67 1 .  
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ATOM 5029 CA CA . LYS LYS LYS B B 238 238 . 39.314 34.629 -12.088 1.00 18.42 1 .  
.ATOM 5030 CB CB . LYS LYS LYS B B 238 238 . 39.278 33.419 -11.154 1.00 19.85 1 .  
.ATOM 5031 CG CG . LYS LYS LYS B B 238 238 . 39.287 32.024 -11.920 1.00 21.04 1 .  
.ATOM 5032 CD CD . LYS LYS LYS B B 238 238 . 39.382 30.887 -10.898 1.00 29.90 1 .  
.ATOM 5033 CE CE . LYS LYS LYS B B 238 238 . 39.353 29.571 -11.696 1.00 34.12 1 .  
.ATOM 5034 NZ NZ . LYS LYS LYS B B 238 238 . 38.458 28.609 -10.954 1.00 44.05 1 .  
.ATOM 5035 C C . LYS LYS LYS B B 238 238 . 38.943 35.873 -11.307 1.00 16.11 1 .  
.ATOM 5036 O O . LYS LYS LYS B B 238 238 . 37.802 35.941 -10.849 1.00 16.44 1 .  
.ATOM 5037 N N . ILE ILE ILE B B 239 239 . 39.883 36.828 -11.169 1.00 15.05 1 .  
.ATOM 5038 CA CA . ILE ILE ILE B B 239 239 . 39.585 38.032 -10.341 1.00 14.82 1 .  
.ATOM 5039 CB CB . ILE ILE ILE B B 239 239 . 40.389 37.978 -9.058 1.00 15.24 1 .  
.ATOM 5040 CG1 CG1 . ILE ILE ILE B B 239 239 . 39.920 36.659 -8.298 1.00 17.07 1 .  
.ATOM 5041 CD CD . ILE ILE ILE B B 239 239 . 40.577 36.493 -7.002 1.00 16.66 1 .  
.ATOM 5042 CG2 CG2 . ILE ILE ILE B B 239 239 . 40.124 39.251 -8.159 1.00 13.14 1 .  
.ATOM 5043 C C . ILE ILE ILE B B 239 239 . 39.915 39.260 -11.102 1.00 14.78 1 .  
.ATOM 5044 O O . ILE ILE ILE B B 239 239 . 41.017 39.357 -11.683 1.00 15.88 1 .  
.ATOM 5045 N N . VAL VAL VAL B B 240 240 . 38.984 40.211 -11.103 1.00 12.10 1 .  
.ATOM 5046 CA CA . VAL VAL VAL B B 240 240 . 39.233 41.470 -11.766 1.00 12.81 1 .  
.ATOM 5047 CB CB . VAL VAL VAL B B 240 240 . 38.257 41.728 -12.857 1.00 12.06 1 .  
.ATOM 5048 CG1 CG1 . VAL VAL VAL B B 240 240 . 38.548 40.727 -14.058 1.00 14.97 1 .  
.ATOM 5049 CG2 CG2 . VAL VAL VAL B B 240 240 . 36.781 41.719 -12.360 1.00 12.42 1 .  
.ATOM 5050 C C . VAL VAL VAL B B 240 240 . 39.149 42.615 -10.686 1.00 13.11 1 .  
.ATOM 5051 O O . VAL VAL VAL B B 240 240 . 38.843 42.338 -9.502 1.00 13.25 1 .  
.ATOM 5052 N N . ILE ILE ILE B B 241 241 . 39.399 43.854 -11.099 1.00 12.32 1 .  
.ATOM 5053 CA CA . ILE ILE ILE B B 241 241 . 39.515 44.982 -10.140 1.00 12.58 1 .  
.ATOM 5054 CB CB . ILE ILE ILE B B 241 241 . 40.901 45.645 -10.247 1.00 11.48 1 .  
.ATOM 5055 CG1 CG1 . ILE ILE ILE B B 241 241 . 41.945 44.607 -9.873 1.00 15.23 1 .  
.ATOM 5056 CD CD . ILE ILE ILE B B 241 241 . 43.395 45.063 -10.210 1.00 16.95 1 .  
.ATOM 5057 CG2 CG2 . ILE ILE ILE B B 241 241 . 41.052 46.976 -9.445 1.00 12.21 1 .  
.ATOM 5058 C C . ILE ILE ILE B B 241 241 . 38.413 45.992 -10.387 1.00 12.23 1 .  
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ATOM 5059 O O . ILE ILE ILE B B 241 241 . 38.034 46.283 -11.497 1.00 12.50 1 .  
.  
ATOM 5060 N N . GLY GLY GLY B B 242 242 . 37.899 46.574 -9.309 1.00 11.10 1 .  
.  
ATOM 5061 CA CA . GLY GLY GLY B B 242 242 . 36.975 47.711 -9.426 1.00 12.31 1 .  
.  
ATOM 5062 C C . GLY GLY GLY B B 242 242 . 37.567 48.834 -8.605 1.00 11.08 1 .  
.  
ATOM 5063 O O . GLY GLY GLY B B 242 242 . 38.375 48.627 -7.703 1.00 13.22 1 .  
.  
ATOM 5064 N N . MET MET MET B B 243 243 . 37.182 50.078 -8.908 1.00 10.76 1 .  
.  
ATOM 5065 CA CA . MET MET MET B B 243 243 . 37.711 51.201 -8.149 1.00 12.60 1 .  
.  
ATOM 5066 CB CB . MET MET MET B B 243 243 . 38.647 52.054 -9.035 1.00 12.74 1 .  
.  
ATOM 5067 CG CG . MET MET MET B B 243 243 . 39.928 51.287 -9.395 1.00 16.99 1 .  
.  
ATOM 5068 SD SD . MET MET MET B B 243 243 . 40.822 52.300 -10.666 1.00 17.62 1 .  
.  
ATOM 5069 CE CE . MET MET MET B B 243 243 . 41.223 53.702 -9.612 1.00 21.51 1 .  
.  
ATOM 5070 C C . MET MET MET B B 243 243 . 36.542 52.082 -7.696 1.00 12.87 1 .  
.  
ATOM 5071 O O . MET MET MET B B 243 243 . 35.526 52.234 -8.450 1.00 11.87 1 .  
.  
ATOM 5072 N N . ASP ASP ASP B B 244 244 . 36.660 52.711 -6.487 1.00 11.00 1 .  
.  
ATOM 5073 CA CA . ASP ASP ASP B B 244 244 . 35.754 53.825 -6.177 1.00 11.57 1 .  
.  
ATOM 5074 CB CB . ASP ASP ASP B B 244 244 . 34.969 53.587 -4.924 1.00 11.82 1 .  
.  
ATOM 5075 CG CG . ASP ASP ASP B B 244 244 . 34.068 54.777 -4.547 1.00 12.06 1 .  
.  
ATOM 5076 OD1 OD1 . ASP ASP ASP B B 244 244 . 34.044 55.780 -5.298 1.00 13.13 1 .  
.  
ATOM 5077 OD2 OD2 . ASP ASP ASP B B 244 244 . 33.245 54.656 -3.593 1.00 13.94 1 .  
.  
ATOM 5078 C C . ASP ASP ASP B B 244 244 . 36.680 55.024 -5.971 1.00 12.74 1 .  
.  
ATOM 5079 O O . ASP ASP ASP B B 244 244 . 37.459 55.110 -5.009 1.00 14.12 1 .  
.  
ATOM 5080 N N . VAL VAL VAL B B 245 245 . 36.659 55.943 -6.929 1.00 11.01 1 .  
.  
ATOM 5081 CA CA . VAL VAL VAL B B 245 245 . 37.577 57.038 -6.894 1.00 11.26 1 .  
.  
ATOM 5082 CB CB . VAL VAL VAL B B 245 245 . 37.592 57.711 -8.284 1.00 11.41 1 .  
.  
ATOM 5083 CG1 CG1 . VAL VAL VAL B B 245 245 . 38.436 59.053 -8.270 1.00 12.20 1 .  
.  
ATOM 5084 CG2 CG2 . VAL VAL VAL B B 245 245 . 38.232 56.706 -9.286 1.00 12.15 1 .  
.  
ATOM 5085 C C . VAL VAL VAL B B 245 245 . 37.060 58.051 -5.815 1.00 11.85 1 .  
.  
ATOM 5086 O O . VAL VAL VAL B B 245 245 . 37.912 58.738 -5.182 1.00 13.52 1 .  
.  
ATOM 5087 N N . ALA ALA ALA B B 246 246 . 35.726 58.161 -5.740 1.00 11.27 1 .  
.  
ATOM 5088 CA CA . ALA ALA ALA B B 246 246 . 35.062 59.213 -4.891 1.00 10.87 1 .  
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ATOM 5089 CB CB . ALA ALA ALA B B 246 246 . 35.214 58.887 -3.348 1.00 14.03 1 .  
.ATOM 5090 C C . ALA ALA ALA B B 246 246 . 35.655 60.590 -5.240 1.00 12.84 1 .  
.ATOM 5091 O O . ALA ALA ALA B B 246 246 . 36.063 61.391 -4.360 1.00 13.96 1 .  
.ATOM 5092 N N . ALA ALA ALA B B 247 247 . 35.573 60.965 -6.520 1.00 12.56 1 .  
.ATOM 5093 CA CA . ALA ALA ALA B B 247 247 . 36.302 62.156 -7.045 1.00 12.65 1 .  
.ATOM 5094 CB CB . ALA ALA ALA B B 247 247 . 36.202 62.228 -8.585 1.00 11.71 1 .  
.ATOM 5095 C C . ALA ALA ALA B B 247 247 . 35.708 63.462 -6.422 1.00 13.60 1 .  
.ATOM 5096 O O . ALA ALA ALA B B 247 247 . 36.392 64.469 -6.476 1.00 14.44 1 .  
.ATOM 5097 N N . SER SER SER B B 248 248 . 34.463 63.413 -5.895 1.00 12.87 1 .  
.ATOM 5098 CA CA . SER SER SER B B 248 248 . 33.877 64.655 -5.283 1.00 15.34 1 .  
.ATOM 5099 CB CB . SER SER SER B B 248 248 . 32.439 64.432 -4.828 1.00 15.37 1 .  
.ATOM 5100 OG OG . SER SER SER B B 248 248 . 31.583 64.069 -5.924 1.00 14.38 1 .  
.ATOM 5101 C C . SER SER SER B B 248 248 . 34.681 65.086 -4.089 1.00 16.95 1 .  
.ATOM 5102 O O . SER SER SER B B 248 248 . 34.626 66.286 -3.719 1.00 18.05 1 .  
.ATOM 5103 N N . GLU GLU GLU B B 249 249 . 35.395 64.154 -3.465 1.00 15.88 1 .  
.ATOM 5104 CA CA . GLU GLU GLU B B 249 249 . 36.276 64.473 -2.303 1.00 16.13 1 .  
.ATOM 5105 CB CB . GLU GLU GLU B B 249 249 . 36.651 63.165 -1.540 1.00 14.48 1 .  
.ATOM 5106 CG CG . GLU GLU GLU B B 249 249 . 35.409 62.389 -0.970 1.00 16.46 1 .  
.ATOM 5107 CD CD . GLU GLU GLU B B 249 249 . 34.691 63.107 0.115 1.00 23.16 1 .  
.ATOM 5108 OE1 OE1 . GLU GLU GLU B B 249 249 . 35.426 63.686 0.927 1.00 29.70 1 .  
.ATOM 5109 OE2 OE2 . GLU GLU GLU B B 249 249 . 33.409 63.072 0.221 1.00 25.10 1 .  
.ATOM 5110 C C . GLU GLU GLU B B 249 249 . 37.549 65.271 -2.689 1.00 16.71 1 .  
.ATOM 5111 O O . GLU GLU GLU B B 249 249 . 38.195 65.931 -1.808 1.00 20.83 1 .  
.ATOM 5112 N N . PHE PHE PHE B B 250 250 . 37.944 65.265 -3.943 1.00 17.12 1 .  
.ATOM 5113 CA CA . PHE PHE PHE B B 250 250 . 39.185 65.954 -4.341 1.00 16.49 1 .  
.ATOM 5114 CB CB . PHE PHE PHE B B 250 250 . 40.409 65.042 -4.576 1.00 18.21 1 .  
.ATOM 5115 CG CG . PHE PHE PHE B B 250 250 . 40.212 63.930 -5.577 1.00 15.08 1 .  
.ATOM 5116 CD1 CD1 . PHE PHE PHE B B 250 250 . 40.013 62.594 -5.127 1.00 19.37 1 .  
.ATOM 5117 CE1 CE1 . PHE PHE PHE B B 250 250 . 39.874 61.585 -6.021 1.00 18.68 1 .  
.ATOM 5118 CZ CZ . PHE PHE PHE B B 250 250 . 39.964 61.854 -7.422 1.00 17.89 1 .  
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ATOM 5119 CE2 CE2 . PHE PHE PHE B B 250 250 . 40.171 63.174 -7.904 1.00 17.79 1 .  
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ATOM 5120 CD2 CD2 . PHE PHE PHE B B 250 250 . 40.318 64.204 -6.948 1.00 17.18 1 .  
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ATOM 5121 C C . PHE PHE PHE B B 250 250 . 38.967 66.976 -5.474 1.00 16.04 1 .  
.  
ATOM 5122 O O . PHE PHE PHE B B 250 250 . 39.917 67.416 -6.102 1.00 17.77 1 .  
.  
ATOM 5123 N N . TYR TYR TYR B B 251 251 . 37.704 67.277 -5.739 1.00 16.94 1 .  
.  
ATOM 5124 CA CA . TYR TYR TYR B B 251 251 . 37.405 68.316 -6.746 1.00 17.37 1 .  
.  
ATOM 5125 CB CB . TYR TYR TYR B B 251 251 . 35.919 68.283 -6.991 1.00 17.72 1 .  
.  
ATOM 5126 CG CG . TYR TYR TYR B B 251 251 . 35.421 69.363 -7.935 1.00 18.50 1 .  
.  
ATOM 5127 CD1 CD1 . TYR TYR TYR B B 251 251 . 35.509 69.218 -9.329 1.00 19.09 1 .  
.  
ATOM 5128 CE1 CE1 . TYR TYR TYR B B 251 251 . 35.027 70.189 -10.163 1.00 22.21 1 .  
.  
ATOM 5129 CZ CZ . TYR TYR TYR B B 251 251 . 34.438 71.333 -9.598 1.00 26.75 1 .  
.  
ATOM 5130 OH OH . TYR TYR TYR B B 251 251 . 33.936 72.400 -10.369 1.00 30.08 1 .  
.  
ATOM 5131 CE2 CE2 . TYR TYR TYR B B 251 251 . 34.374 71.511 -8.245 1.00 28.00 1 .  
.  
ATOM 5132 CD2 CD2 . TYR TYR TYR B B 251 251 . 34.840 70.524 -7.415 1.00 24.71 1 .  
.  
ATOM 5133 C C . TYR TYR TYR B B 251 251 . 37.768 69.684 -6.103 1.00 17.73 1 .  
.  
ATOM 5134 O O . TYR TYR TYR B B 251 251 . 37.290 69.943 -4.977 1.00 20.49 1 .  
.  
ATOM 5135 N N . ARG ARG ARG B B 252 252 . 38.486 70.527 -6.834 1.00 16.83 1 .  
.  
ATOM 5136 CA CA . ARG ARG ARG B B 252 252 . 38.981 71.863 -6.324 1.00 18.63 1 .  
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ATOM 5137 CB CB . ARG ARG ARG B B 252 252 . 40.492 71.728 -5.897 1.00 19.42 1 .  
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ATOM 5138 CG CG . ARG ARG ARG B B 252 252 . 40.707 70.763 -4.752 1.00 23.22 1 .  
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ATOM 5139 CD CD . ARG ARG ARG B B 252 252 . 39.941 71.107 -3.498 1.00 26.22 1 .  
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ATOM 5140 NE NE . ARG ARG ARG B B 252 252 . 40.367 70.233 -2.387 1.00 30.30 1 .  
.  
ATOM 5141 CZ CZ . ARG ARG ARG B B 252 252 . 39.580 69.312 -1.835 1.00 26.96 1 .  
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ATOM 5142 NH1 NH1 . ARG ARG ARG B B 252 252 . 38.319 69.066 -2.309 1.00 29.35 1 .  
.  
ATOM 5143 NH2 NH2 . ARG ARG ARG B B 252 252 . 40.064 68.553 -0.878 1.00 28.82 1 .  
.  
ATOM 5144 C C . ARG ARG ARG B B 252 252 . 38.897 72.844 -7.426 1.00 18.63 1 .  
.  
ATOM 5145 O O . ARG ARG ARG B B 252 252 . 39.643 72.662 -8.447 1.00 17.96 1 .  
.  
ATOM 5146 N N . ASP ASP ASP B B 253 253 . 38.045 73.906 -7.294 1.00 20.60 1 .  
.  
ATOM 5147 CA CA . ASP ASP ASP B B 253 253 . 38.086 74.982 -8.284 1.00 21.82 1 .  
.  
ATOM 5148 CB CB . ASP ASP ASP B B 253 253 . 39.468 75.775 -8.221 1.00 23.96 1 .  
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ATOM 5149 CG CG . ASP ASP ASP B B 253 253 . 39.745 76.437 -6.850 1.00 30.59 1 .  
.ATOM 5150 OD1 OD1 . ASP ASP ASP B B 253 253 . 40.981 76.741 -6.599 1.00 38.69 1 .  
.ATOM 5151 OD2 OD2 . ASP ASP ASP B B 253 253 . 38.791 76.660 -6.044 1.00 32.72 1 .  
.ATOM 5152 C C . ASP ASP ASP B B 253 253 . 37.930 74.528 -9.716 1.00 20.80 1 .  
.ATOM 5153 O O . ASP ASP ASP B B 253 253 . 38.616 75.053 -10.590 1.00 20.17 1 .  
.ATOM 5154 N N . GLY GLY GLY B B 254 254 . 37.087 73.512 -9.941 1.00 17.70 1 .  
.ATOM 5155 CA CA . GLY GLY GLY B B 254 254 . 36.808 73.077 -11.321 1.00 18.58 1 .  
.ATOM 5156 C C . GLY GLY GLY B B 254 254 . 37.814 72.053 -11.867 1.00 18.21 1 .  
.ATOM 5157 O O . GLY GLY GLY B B 254 254 . 37.709 71.653 -13.008 1.00 19.94 1 .  
.ATOM 5158 N N . LYS LYS LYS B B 255 255 . 38.810 71.687 -11.031 1.00 17.59 1 .  
.ATOM 5159 CA CA . LYS LYS LYS B B 255 255 . 39.865 70.743 -11.400 1.00 18.48 1 .  
.ATOM 5160 CB CB . LYS LYS LYS B B 255 255 . 41.244 71.451 -11.575 1.00 19.67 1 .  
.ATOM 5161 CG CG . LYS LYS LYS B B 255 255 . 41.300 72.405 -12.756 1.00 21.53 1 .  
.ATOM 5162 CD CD . LYS LYS LYS B B 255 255 . 42.653 73.080 -12.782 1.00 27.54 1 .  
.ATOM 5163 CE CE . LYS LYS LYS B B 255 255 . 42.901 73.858 -14.074 1.00 33.94 1 .  
.ATOM 5164 NZ NZ . LYS LYS LYS B B 255 255 . 44.408 74.211 -14.201 1.00 39.95 1 .  
.ATOM 5165 C C . LYS LYS LYS B B 255 255 . 39.897 69.655 -10.325 1.00 18.39 1 .  
.ATOM 5166 O O . LYS LYS LYS B B 255 255 . 39.042 69.591 -9.421 1.00 18.81 1 .  
.ATOM 5167 N N . TYR TYR TYR B B 256 256 . 40.936 68.823 -10.370 1.00 18.11 1 .  
.ATOM 5168 CA CA . TYR TYR TYR B B 256 256 . 41.036 67.701 -9.463 1.00 17.73 1 .  
.ATOM 5169 CB CB . TYR TYR TYR B B 256 256 . 40.679 66.379 -10.205 1.00 16.92 1 .  
.ATOM 5170 CG CG . TYR TYR TYR B B 256 256 . 39.197 66.352 -10.631 1.00 13.82 1 .  
.ATOM 5171 CD1 CD1 . TYR TYR TYR B B 256 256 . 38.224 65.892 -9.753 1.00 14.32 1 .  
.ATOM 5172 CE1 CE1 . TYR TYR TYR B B 256 256 . 36.878 65.885 -10.073 1.00 12.71 1 .  
.ATOM 5173 CZ CZ . TYR TYR TYR B B 256 256 . 36.482 66.344 -11.357 1.00 13.15 1 .  
.ATOM 5174 OH OH . TYR TYR TYR B B 256 256 . 35.157 66.314 -11.663 1.00 11.57 1 .  
.ATOM 5175 CE2 CE2 . TYR TYR TYR B B 256 256 . 37.428 66.821 -12.263 1.00 13.48 1 .  
.ATOM 5176 CD2 CD2 . TYR TYR TYR B B 256 256 . 38.787 66.808 -11.893 1.00 14.78 1 .  
.ATOM 5177 C C . TYR TYR TYR B B 256 256 . 42.456 67.641 -8.901 1.00 18.36 1 .  
.ATOM 5178 O O . TYR TYR TYR B B 256 256 . 43.479 67.753 -9.626 1.00 19.26 1 .  
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ATOM 5299 CG2 CG2 . THR THR THR B B 271 271 . 42.473 70.634 -17.133 1.00 22.80 1 .  
.ATOM 5300 C C . THR THR THR B B 271 271 . 40.985 67.436 -15.456 1.00 20.89 1 .  
.ATOM 5301 O O . THR THR THR B B 271 271 . 41.597 66.339 -15.287 1.00 20.42 1 .  
.ATOM 5302 N N . GLY GLY GLY B B 272 272 . 39.671 67.496 -15.640 1.00 19.66 1 .  
.ATOM 5303 CA CA . GLY GLY GLY B B 272 272 . 38.917 66.254 -15.766 1.00 18.77 1 .  
.ATOM 5304 C C . GLY GLY GLY B B 272 272 . 39.418 65.421 -16.951 1.00 19.24 1 .  
.ATOM 5305 O O . GLY GLY GLY B B 272 272 . 39.338 64.195 -16.896 1.00 17.46 1 .  
.ATOM 5306 N N . ASP ASP ASP B B 273 273 . 39.887 66.079 -18.023 1.00 17.71 1 .  
.ATOM 5307 CA CA . ASP ASP ASP B B 273 273 . 40.398 65.388 -19.190 1.00 21.69 1 .  
.ATOM 5308 CB CB . ASP ASP ASP B B 273 273 . 40.689 66.446 -20.255 1.00 23.81 1 .  
.ATOM 5309 CG CG . ASP ASP ASP B B 273 273 . 41.160 65.835 -21.593 1.00 33.66 1 .  
.ATOM 5310 OD1 OD1 . ASP ASP ASP B B 273 273 . 40.328 65.192 -22.270 1.00 41.63 1 .  
.ATOM 5311 OD2 OD2 . ASP ASP ASP B B 273 273 . 42.326 66.084 -22.041 1.00 46.75 1 .  
.ATOM 5312 C C . ASP ASP ASP B B 273 273 . 41.659 64.604 -18.869 1.00 21.07 1 .  
.ATOM 5313 O O . ASP ASP ASP B B 273 273 . 41.849 63.426 -19.304 1.00 20.16 1 .  
.ATOM 5314 N N . GLN GLN GLN B B 274 274 . 42.506 65.234 -18.075 1.00 20.55 1 .  
.ATOM 5315 CA CA . GLN GLN GLN B B 274 274 . 43.770 64.618 -17.607 1.00 20.63 1 .  
.ATOM 5316 CB CB . GLN GLN GLN B B 274 274 . 44.644 65.623 -16.858 1.00 21.57 1 .  
.ATOM 5317 CG CG . GLN GLN GLN B B 274 274 . 45.214 66.620 -17.807 1.00 24.27 1 .  
.ATOM 5318 CD CD . GLN GLN GLN B B 274 274 . 45.951 67.708 -17.148 1.00 26.58 1 .  
.ATOM 5319 OE1 OE1 . GLN GLN GLN B B 274 274 . 45.421 68.448 -16.321 1.00 24.46 1 .  
.ATOM 5320 NE2 NE2 . GLN GLN GLN B B 274 274 . 47.220 67.861 -17.549 1.00 31.30 1 .  
.ATOM 5321 C C . GLN GLN GLN B B 274 274 . 43.441 63.390 -16.696 1.00 19.30 1 .  
.ATOM 5322 O O . GLN GLN GLN B B 274 274 . 44.032 62.322 -16.885 1.00 18.93 1 .  
.ATOM 5323 N N . LEU LEU LEU B B 275 275 . 42.454 63.552 -15.809 1.00 16.63 1 .  
.ATOM 5324 CA CA . LEU LEU LEU B B 275 275 . 42.049 62.499 -14.905 1.00 16.25 1 .  
.ATOM 5325 CB CB . LEU LEU LEU B B 275 275 . 41.031 63.024 -13.950 1.00 15.49 1 .  
.ATOM 5326 CG CG . LEU LEU LEU B B 275 275 . 40.546 62.135 -12.856 1.00 14.57 1 .  
.ATOM 5327 CD1 CD1 . LEU LEU LEU B B 275 275 . 41.663 61.461 -12.024 1.00 16.80 1 .  
.ATOM 5328 CD2 CD2 . LEU LEU LEU B B 275 275 . 39.497 62.933 -11.976 1.00 12.93 1 .  
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ATOM 5359 O O . TYR TYR TYR B B 279 279 . 41.949 53.986 -17.079 1.00 13.24 1 .  
.ATOM 5360 N N . GLN GLN GLN B B 280 280 . 42.022 55.852 -18.409 1.00 12.96 1 .  
.ATOM 5361 CA CA . GLN GLN GLN B B 280 280 . 42.309 55.031 -19.594 1.00 15.72 1 .  
.ATOM 5362 CB CB . GLN GLN GLN B B 280 280 . 42.291 55.885 -20.870 1.00 14.83 1 .  
.ATOM 5363 CG CG . GLN GLN GLN B B 280 280 . 40.771 56.241 -21.089 1.00 20.52 1 .  
.ATOM 5364 CD CD . GLN GLN GLN B B 280 280 . 40.520 56.952 -22.313 1.00 33.50 1 .  
.ATOM 5365 OE1 OE1 . GLN GLN GLN B B 280 280 . 39.615 56.571 -23.118 1.00 38.74 1 .  
.ATOM 5366 NE2 NE2 . GLN GLN GLN B B 280 280 . 41.268 58.034 -22.505 1.00 38.41 1 .  
.ATOM 5367 C C . GLN GLN GLN B B 280 280 . 43.588 54.248 -19.468 1.00 15.93 1 .  
.ATOM 5368 O O . GLN GLN GLN B B 280 280 . 43.617 53.073 -19.872 1.00 17.48 1 .  
.ATOM 5369 N N . ASP ASP ASP B B 281 281 . 44.598 54.824 -18.856 1.00 15.58 1 .  
.ATOM 5370 CA CA . ASP ASP ASP B B 281 281 . 45.859 54.068 -18.625 1.00 17.33 1 .  
.ATOM 5371 CB CB . ASP ASP ASP B B 281 281 . 46.987 54.974 -18.134 1.00 19.05 1 .  
.ATOM 5372 CG CG . ASP ASP ASP B B 281 281 . 47.469 56.003 -19.215 1.00 25.11 1 .  
.ATOM 5373 OD1 OD1 . ASP ASP ASP B B 281 281 . 47.256 55.855 -20.443 1.00 27.66 1 .  
.ATOM 5374 OD2 OD2 . ASP ASP ASP B B 281 281 . 48.075 57.004 -18.776 1.00 31.04 1 .  
.ATOM 5375 C C . ASP ASP ASP B B 281 281 . 45.670 52.911 -17.663 1.00 17.68 1 .  
.ATOM 5376 O O . ASP ASP ASP B B 281 281 . 46.133 51.767 -17.919 1.00 17.49 1 .  
.ATOM 5377 N N . PHE PHE PHE B B 282 282 . 44.882 53.151 -16.619 1.00 15.35 1 .  
.ATOM 5378 CA CA . PHE PHE PHE B B 282 282 . 44.614 52.075 -15.664 1.00 15.21 1 .  
.ATOM 5379 CB CB . PHE PHE PHE B B 282 282 . 43.716 52.579 -14.524 1.00 16.49 1 .  
.ATOM 5380 CG CG . PHE PHE PHE B B 282 282 . 44.390 53.588 -13.608 1.00 18.41 1 .  
.ATOM 5381 CD1 CD1 . PHE PHE PHE B B 282 282 . 43.600 54.264 -12.671 1.00 17.17 1 .  
.ATOM 5382 CE1 CE1 . PHE PHE PHE B B 282 282 . 44.231 55.190 -11.772 1.00 22.32 1 .  
.ATOM 5383 CZ CZ . PHE PHE PHE B B 282 282 . 45.621 55.426 -11.846 1.00 22.40 1 .  
.ATOM 5384 CE2 CE2 . PHE PHE PHE B B 282 282 . 46.415 54.771 -12.820 1.00 23.79 1 .  
.ATOM 5385 CD2 CD2 . PHE PHE PHE B B 282 282 . 45.798 53.869 -13.673 1.00 19.09 1 .  
.ATOM 5386 C C . PHE PHE PHE B B 282 282 . 43.905 50.913 -16.321 1.00 15.06 1 .  
.ATOM 5387 O O . PHE PHE PHE B B 282 282 . 44.207 49.744 -16.011 1.00 16.32 1 .  
.ATOM 5388 N N . VAL VAL VAL B B 283 283 . 42.946 51.203 -17.215 1.00 13.06 1 .  
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ATOM 5389 CA CA . VAL VAL VAL B B 283 283 . 42.123 50.168 -17.805 1.00 14.50 1 .  
.ATOM 5390 CB CB . VAL VAL VAL B B 283 283 . 40.894 50.750 -18.459 1.00 13.98 1 .  
.ATOM 5391 CG1 CG1 . VAL VAL VAL B B 283 283 . 40.092 49.675 -19.371 1.00 16.25 1 .  
.ATOM 5392 CG2 CG2 . VAL VAL VAL B B 283 283 . 39.937 51.288 -17.368 1.00 12.08 1 .  
.ATOM 5393 C C . VAL VAL VAL B B 283 283 . 42.987 49.368 -18.798 1.00 14.75 1 .  
.ATOM 5394 O O . VAL VAL VAL B B 283 283 . 42.764 48.172 -18.960 1.00 15.74 1 .  
.ATOM 5395 N N . ARG ARG ARG B B 284 284 . 43.922 50.050 -19.449 1.00 15.54 1 .  
.ATOM 5396 CA CA . ARG ARG ARG B B 284 284 . 44.798 49.364 -20.385 1.00 16.63 1 .  
.ATOM 5397 CB CB . ARG ARG ARG B B 284 284 . 45.572 50.419 -21.231 1.00 17.37 1 .  
.ATOM 5398 CG CG . ARG ARG ARG B B 284 284 . 46.628 49.833 -22.115 1.00 17.15 1 .  
.ATOM 5399 CD CD . ARG ARG ARG B B 284 284 . 46.079 48.909 -23.305 1.00 23.77 1 .  
.ATOM 5400 NE NE . ARG ARG ARG B B 284 284 . 45.077 49.524 -24.215 1.00 26.76 1 .  
.ATOM 5401 CZ CZ . ARG ARG ARG B B 284 284 . 45.384 50.282 -25.288 1.00 28.77 1 .  
.ATOM 5402 NH1 NH1 . ARG ARG ARG B B 284 284 . 46.681 50.489 -25.612 1.00 30.26 1 .  
.ATOM 5403 NH2 NH2 . ARG ARG ARG B B 284 284 . 44.403 50.800 -26.061 1.00 30.21 1 .  
.ATOM 5404 C C . ARG ARG ARG B B 284 284 . 45.808 48.459 -19.645 1.00 16.53 1 .  
.ATOM 5405 O O . ARG ARG ARG B B 284 284 . 46.107 47.340 -20.074 1.00 18.25 1 .  
.ATOM 5406 N N . ASP ASP ASP B B 285 285 . 46.288 48.916 -18.504 1.00 17.08 1 .  
.ATOM 5407 CA CA . ASP ASP ASP B B 285 285 . 47.407 48.283 -17.802 1.00 16.73 1 .  
.ATOM 5408 CB CB . ASP ASP ASP B B 285 285 . 48.257 49.355 -17.184 1.00 16.45 1 .  
.ATOM 5409 CG CG . ASP ASP ASP B B 285 285 . 49.036 50.167 -18.185 1.00 20.94 1 .  
.ATOM 5410 OD1 OD1 . ASP ASP ASP B B 285 285 . 49.109 49.780 -19.387 1.00 24.04 1 .  
.ATOM 5411 OD2 OD2 . ASP ASP ASP B B 285 285 . 49.615 51.210 -17.758 1.00 25.37 1 .  
.ATOM 5412 C C . ASP ASP ASP B B 285 285 . 47.017 47.249 -16.719 1.00 17.46 1 .  
.ATOM 5413 O O . ASP ASP ASP B B 285 285 . 47.896 46.471 -16.259 1.00 17.73 1 .  
.ATOM 5414 N N . TYR TYR TYR B B 286 286 . 45.778 47.289 -16.266 1.00 17.04 1 .  
.ATOM 5415 CA CA . TYR TYR TYR B B 286 286 . 45.308 46.483 -15.138 1.00 15.43 1 .  
.ATOM 5416 CB CB . TYR TYR TYR B B 286 286 . 45.210 47.348 -13.848 1.00 15.78 1 .  
.ATOM 5417 CG CG . TYR TYR TYR B B 286 286 . 46.554 47.853 -13.415 1.00 18.48 1 .  
.ATOM 5418 CD1 CD1 . TYR TYR TYR B B 286 286 . 47.451 46.989 -12.781 1.00 20.31 1 .  
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ATOM 5419 CE1 CE1 . TYR TYR TYR B B 286 286 . 48.728 47.423 -12.434 1.00 22.26 1 .  
.ATOM 5420 CZ CZ . TYR TYR TYR B B 286 286 . 49.106 48.745 -12.746 1.00 25.51 1 .  
.ATOM 5421 OH OH . TYR TYR TYR B B 286 286 . 50.342 49.185 -12.418 1.00 34.04 1 .  
.ATOM 5422 CE2 CE2 . TYR TYR TYR B B 286 286 . 48.237 49.637 -13.400 1.00 23.84 1 .  
.ATOM 5423 CD2 CD2 . TYR TYR TYR B B 286 286 . 46.957 49.167 -13.730 1.00 18.95 1 .  
.ATOM 5424 C C . TYR TYR TYR B B 286 286 . 43.907 46.029 -15.467 1.00 15.95 1 .  
.ATOM 5425 O O . TYR TYR TYR B B 286 286 . 43.206 46.627 -16.314 1.00 15.83 1 .  
.ATOM 5426 N N . PRO PRO PRO B B 287 287 . 43.460 44.929 -14.839 1.00 14.94 1 .  
.ATOM 5427 CA CA . PRO PRO PRO B B 287 287 . 42.156 44.413 -15.162 1.00 14.27 1 .  
.ATOM 5428 CB CB . PRO PRO PRO B B 287 287 . 42.224 42.904 -14.641 1.00 15.59 1 .  
.ATOM 5429 CG CG . PRO PRO PRO B B 287 287 . 43.198 43.020 -13.483 1.00 16.54 1 .  
.ATOM 5430 CD CD . PRO PRO PRO B B 287 287 . 44.212 44.055 -13.907 1.00 16.91 1 .  
.ATOM 5431 C C . PRO PRO PRO B B 287 287 . 41.033 45.182 -14.444 1.00 13.79 1 .  
.ATOM 5432 O O . PRO PRO PRO B B 287 287 . 40.197 44.597 -13.773 1.00 13.97 1 .  
.ATOM 5433 N N . VAL VAL VAL B B 288 288 . 40.972 46.496 -14.689 1.00 13.63 1 .  
.ATOM 5434 CA CA . VAL VAL VAL B B 288 288 . 39.961 47.334 -14.054 1.00 12.23 1 .  
.ATOM 5435 CB CB . VAL VAL VAL B B 288 288 . 40.460 48.805 -13.996 1.00 11.49 1 .  
.ATOM 5436 CG1 CG1 . VAL VAL VAL B B 288 288 . 39.326 49.746 -13.585 1.00 13.53 1 .  
.ATOM 5437 CG2 CG2 . VAL VAL VAL B B 288 288 . 41.682 48.910 -13.042 1.00 12.36 1 .  
.ATOM 5438 C C . VAL VAL VAL B B 288 288 . 38.728 47.226 -14.916 1.00 12.35 1 .  
.ATOM 5439 O O . VAL VAL VAL B B 288 288 . 38.785 47.579 -16.096 1.00 15.17 1 .  
.ATOM 5440 N N . VAL VAL VAL B B 289 289 . 37.616 46.801 -14.365 1.00 11.25 1 .  
.ATOM 5441 CA CA . VAL VAL VAL B B 289 289 . 36.362 46.577 -15.112 1.00 9.99 1 .  
.ATOM 5442 CB CB . VAL VAL VAL B B 289 289 . 35.859 45.126 -14.961 1.00 11.92 1 .  
.ATOM 5443 CG1 CG1 . VAL VAL VAL B B 289 289 . 36.962 44.133 -15.456 1.00 14.87 1 .  
.ATOM 5444 CG2 CG2 . VAL VAL VAL B B 289 289 . 35.451 44.789 -13.437 1.00 11.88 1 .  
.ATOM 5445 C C . VAL VAL VAL B B 289 289 . 35.271 47.559 -14.704 1.00 11.39 1 .  
.ATOM 5446 O O . VAL VAL VAL B B 289 289 . 34.201 47.564 -15.294 1.00 11.54 1 .  
.ATOM 5447 N N . SER SER SER B B 290 290 . 35.551 48.359 -13.637 1.00 12.13 1 .  
.ATOM 5448 CA CA . SER SER SER B B 290 290 . 34.469 49.211 -13.109 1.00 10.19 1 .  
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ATOM 5449 CB CB . SER SER SER B B 290 290 . 33.606 48.343 -12.081 1.00 10.73 1 .  
.ATOM 5450 OG OG . SER SER SER B B 290 290 . 32.575 49.174 -11.520 1.00 12.48 1 .  
.ATOM 5451 C C . SER SER SER B B 290 290 . 35.127 50.339 -12.379 1.00 9.47 1 .  
.ATOM 5452 O O . SER SER SER B B 290 290 . 36.087 50.082 -11.589 1.00 10.73 1 .  
.ATOM 5453 N N . ILE ILE ILE B B 291 291 . 34.640 51.557 -12.627 1.00 8.41 1 .  
.ATOM 5454 CA CA . ILE ILE ILE B B 291 291 . 35.147 52.749 -11.874 1.00 9.44 1 .  
.ATOM 5455 CB CB . ILE ILE ILE B B 291 291 . 36.093 53.701 -12.735 1.00 9.65 1 .  
.ATOM 5456 CG1 CG1 . ILE ILE ILE B B 291 291 . 37.331 52.916 -13.235 1.00 9.98 1 .  
.ATOM 5457 CD CD . ILE ILE ILE B B 291 291 . 38.204 53.719 -14.204 1.00 12.05 1 .  
.ATOM 5458 CG2 CG2 . ILE ILE ILE B B 291 291 . 36.484 54.938 -11.931 1.00 9.56 1 .  
.ATOM 5459 C C . ILE ILE ILE B B 291 291 . 33.894 53.496 -11.409 1.00 9.63 1 .  
.ATOM 5460 O O . ILE ILE ILE B B 291 291 . 33.037 53.876 -12.194 1.00 10.78 1 .  
.ATOM 5461 N N . GLU GLU GLU B B 292 292 . 33.847 53.749 -10.100 1.00 9.11 1 .  
.ATOM 5462 CA CA . GLU GLU GLU B B 292 292 . 32.728 54.464 -9.478 1.00 8.26 1 .  
.ATOM 5463 CB CB . GLU GLU GLU B B 292 292 . 32.365 53.694 -8.162 1.00 8.05 1 .  
.ATOM 5464 CG CG . GLU GLU GLU B B 292 292 . 31.318 54.431 -7.291 1.00 8.79 1 .  
.ATOM 5465 CD CD . GLU GLU GLU B B 292 292 . 31.234 53.764 -5.943 1.00 13.70 1 .  
.ATOM 5466 OE1 OE1 . GLU GLU GLU B B 292 292 . 31.573 52.530 -5.808 1.00 13.50 1 .  
.ATOM 5467 OE2 OE2 . GLU GLU GLU B B 292 292 . 30.837 54.469 -4.985 1.00 12.83 1 .  
.ATOM 5468 C C . GLU GLU GLU B B 292 292 . 33.208 55.903 -9.124 1.00 8.72 1 .  
.ATOM 5469 O O . GLU GLU GLU B B 292 292 . 34.348 56.144 -8.705 1.00 10.78 1 .  
.ATOM 5470 N N . ASP ASP ASP B B 293 293 . 32.277 56.830 -9.299 1.00 9.73 1 .  
.ATOM 5471 CA CA . ASP ASP ASP B B 293 293 . 32.525 58.278 -9.051 1.00 10.24 1 .  
.ATOM 5472 CB CB . ASP ASP ASP B B 293 293 . 32.415 58.588 -7.541 1.00 12.41 1 .  
.ATOM 5473 CG CG . ASP ASP ASP B B 293 293 . 30.963 58.801 -7.112 1.00 12.73 1 .  
.ATOM 5474 OD1 OD1 . ASP ASP ASP B B 293 293 . 30.009 58.891 -7.928 1.00 12.39 1 .  
.ATOM 5475 OD2 OD2 . ASP ASP ASP B B 293 293 . 30.723 58.780 -5.890 1.00 13.39 1 .  
.ATOM 5476 C C . ASP ASP ASP B B 293 293 . 33.841 58.743 -9.615 1.00 11.33 1 .  
.ATOM 5477 O O . ASP ASP ASP B B 293 293 . 34.662 59.337 -8.951 1.00 10.85 1 .  
.ATOM 5478 N N . PRO PRO PRO B B 294 294 . 34.023 58.567 -10.920 1.00 10.29 1 .  
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ATOM 5509 OE1 OE1 . GLN GLN GLN B B 297 297 . 28.193 65.144 -4.135 1.00 15.03 1 .  
.  
ATOM 5510 NE2 NE2 . GLN GLN GLN B B 297 297 . 29.615 66.850 -4.181 1.00 16.23 1 .  
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ATOM 5511 C C . GLN GLN GLN B B 297 297 . 28.113 65.829 -9.303 1.00 11.41 1 .  
.  
ATOM 5512 O O . GLN GLN GLN B B 297 297 . 26.951 65.612 -9.658 1.00 12.20 1 .  
.  
ATOM 5513 N N . ASP ASP ASP B B 298 298 . 28.777 66.979 -9.622 1.00 11.82 1 .  
.  
ATOM 5514 CA CA . ASP ASP ASP B B 298 298 . 28.157 67.996 -10.463 1.00 12.23 1 .  
.  
ATOM 5515 CB CB . ASP ASP ASP B B 298 298 . 28.202 69.389 -9.727 1.00 13.20 1 .  
.  
ATOM 5516 CG CG . ASP ASP ASP B B 298 298 . 27.233 69.484 -8.528 1.00 13.56 1 .  
.  
ATOM 5517 OD1 OD1 . ASP ASP ASP B B 298 298 . 26.025 69.174 -8.669 1.00 16.28 1 .  
.  
ATOM 5518 OD2 OD2 . ASP ASP ASP B B 298 298 . 27.687 69.966 -7.451 1.00 18.95 1 .  
.  
ATOM 5519 C C . ASP ASP ASP B B 298 298 . 28.846 68.114 -11.819 1.00 10.32 1 .  
.  
ATOM 5520 O O . ASP ASP ASP B B 298 298 . 28.412 68.954 -12.664 1.00 11.13 1 .  
.  
ATOM 5521 N N . ASP ASP ASP B B 299 299 . 29.918 67.347 -12.068 1.00 13.00 1 .  
.  
ATOM 5522 CA CA . ASP ASP ASP B B 299 299 . 30.710 67.520 -13.293 1.00 10.77 1 .  
.  
ATOM 5523 CB CB . ASP ASP ASP B B 299 299 . 32.156 67.201 -13.000 1.00 11.30 1 .  
.  
ATOM 5524 CG CG . ASP ASP ASP B B 299 299 . 33.124 67.522 -14.153 1.00 10.56 1 .  
.  
ATOM 5525 OD1 OD1 . ASP ASP ASP B B 299 299 . 32.768 67.994 -15.235 1.00 13.41 1 .  
.  
ATOM 5526 OD2 OD2 . ASP ASP ASP B B 299 299 . 34.312 67.287 -13.919 1.00 13.86 1 .  
.  
ATOM 5527 C C . ASP ASP ASP B B 299 299 . 30.121 66.633 -14.421 1.00 12.31 1 .  
.  
ATOM 5528 O O . ASP ASP ASP B B 299 299 . 30.791 65.734 -14.949 1.00 10.82 1 .  
.  
ATOM 5529 N N . TRP TRP TRP B B 300 300 . 28.865 66.919 -14.765 1.00 11.35 1 .  
.  
ATOM 5530 CA CA . TRP TRP TRP B B 300 300 . 28.102 66.087 -15.683 1.00 10.87 1 .  
.  
ATOM 5531 CB CB . TRP TRP TRP B B 300 300 . 26.737 66.714 -15.935 1.00 11.04 1 .  
.  
ATOM 5532 CG CG . TRP TRP TRP B B 300 300 . 25.858 66.597 -14.738 1.00 10.57 1 .  
.  
ATOM 5533 CD1 CD1 . TRP TRP TRP B B 300 300 . 25.677 67.571 -13.717 1.00 11.30 1 .  
.  
ATOM 5534 NE1 NE1 . TRP TRP TRP B B 300 300 . 24.800 67.093 -12.791 1.00 14.08 1 .  
.  
ATOM 5535 CE2 CE2 . TRP TRP TRP B B 300 300 . 24.410 65.810 -13.165 1.00 11.10 1 .  
.  
ATOM 5536 CD2 CD2 . TRP TRP TRP B B 300 300 . 25.080 65.488 -14.384 1.00 12.45 1 .  
.  
ATOM 5537 CE3 CE3 . TRP TRP TRP B B 300 300 . 24.831 64.244 -14.999 1.00 13.00 1 .  
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ATOM 5538 CZ3 CZ3 . TRP TRP TRP B B 300 300 . 23.961 63.296 -14.318 1.00 12.11 1 .  
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ATOM 5539 CH2 CH2 . TRP TRP TRP B B 300 300 . 23.304 63.642 -13.138 1.00 15.32 1 .  
.  
ATOM 5540 CZ2 CZ2 . TRP TRP TRP B B 300 300 . 23.497 64.922 -12.541 1.00 14.66 1 .  
.  
ATOM 5541 C C . TRP TRP TRP B B 300 300 . 28.843 65.881 -17.020 1.00 12.76 1 .  
.  
ATOM 5542 O O . TRP TRP TRP B B 300 300 . 28.778 64.769 -17.621 1.00 11.41 1 .  
.  
ATOM 5543 N N . ALA ALA ALA B B 301 301 . 29.464 66.941 -17.523 1.00 11.68 1 .  
.  
ATOM 5544 CA CA . ALA ALA ALA B B 301 301 . 30.147 66.846 -18.834 1.00 12.56 1 .  
.  
ATOM 5545 CB CB . ALA ALA ALA B B 301 301 . 30.771 68.241 -19.262 1.00 12.89 1 .  
.  
ATOM 5546 C C . ALA ALA ALA B B 301 301 . 31.209 65.774 -18.842 1.00 12.97 1 .  
.  
ATOM 5547 O O . ALA ALA ALA B B 301 301 . 31.354 65.015 -19.859 1.00 12.84 1 .  
.  
ATOM 5548 N N . ALA ALA ALA B B 302 302 . 31.983 65.684 -17.738 1.00 10.54 1 .  
.  
ATOM 5549 CA CA . ALA ALA ALA B B 302 302 . 33.051 64.686 -17.699 1.00 11.08 1 .  
.  
ATOM 5550 CB CB . ALA ALA ALA B B 302 302 . 34.002 64.930 -16.477 1.00 11.49 1 .  
.  
ATOM 5551 C C . ALA ALA ALA B B 302 302 . 32.503 63.256 -17.649 1.00 11.12 1 .  
.  
ATOM 5552 O O . ALA ALA ALA B B 302 302 . 33.041 62.363 -18.302 1.00 12.09 1 .  
.  
ATOM 5553 N N . TRP TRP TRP B B 303 303 . 31.460 63.044 -16.867 1.00 11.36 1 .  
.  
ATOM 5554 CA CA . TRP TRP TRP B B 303 303 . 30.805 61.740 -16.757 1.00 10.89 1 .  
.  
ATOM 5555 CB CB . TRP TRP TRP B B 303 303 . 29.572 61.815 -15.853 1.00 12.15 1 .  
.  
ATOM 5556 CG CG . TRP TRP TRP B B 303 303 . 29.943 61.822 -14.376 1.00 10.36 1 .  
.  
ATOM 5557 CD1 CD1 . TRP TRP TRP B B 303 303 . 30.163 62.948 -13.535 1.00 9.20 1 .  
.  
ATOM 5558 NE1 NE1 . TRP TRP TRP B B 303 303 . 30.408 62.515 -12.251 1.00 10.94 1 .  
.  
ATOM 5559 CE2 CE2 . TRP TRP TRP B B 303 303 . 30.198 61.153 -12.200 1.00 10.40 1 .  
.  
ATOM 5560 CD2 CD2 . TRP TRP TRP B B 303 303 . 29.983 60.681 -13.527 1.00 8.08 1 .  
.  
ATOM 5561 CE3 CE3 . TRP TRP TRP B B 303 303 . 29.709 59.308 -13.737 1.00 9.41 1 .  
.  
ATOM 5562 CZ3 CZ3 . TRP TRP TRP B B 303 303 . 29.721 58.415 -12.612 1.00 9.94 1 .  
.  
ATOM 5563 CH2 CH2 . TRP TRP TRP B B 303 303 . 29.994 58.916 -11.291 1.00 11.51 1 .  
.  
ATOM 5564 CZ2 CZ2 . TRP TRP TRP B B 303 303 . 30.259 60.290 -11.079 1.00 9.03 1 .  
.  
ATOM 5565 C C . TRP TRP TRP B B 303 303 . 30.313 61.276 -18.125 1.00 11.34 1 .  
.  
ATOM 5566 O O . TRP TRP TRP B B 303 303 . 30.652 60.171 -18.550 1.00 11.43 1 .  
.  
ATOM 5567 N N . SER SER SER B B 304 304 . 29.581 62.160 -18.841 1.00 10.29 1 .  
.  
ATOM 5568 CA CA . SER SER SER B B 304 304 . 28.977 61.725 -20.138 1.00 11.50 1 .  
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ATOM 5569 CB CB . SER SER SER B B 304 304 . 28.013 62.839 -20.603 1.00 12.89 1 .  
.ATOM 5570 OG OG . SER SER SER B B 304 304 . 26.864 62.930 -19.705 1.00 14.55 1 .  
.ATOM 5571 C C . SER SER SER B B 304 304 . 30.093 61.483 -21.133 1.00 12.55 1 .  
.ATOM 5572 O O . SER SER SER B B 304 304 . 30.038 60.498 -21.925 1.00 11.84 1 .  
.ATOM 5573 N N . LYS LYS LYS B B 305 305 . 31.120 62.322 -21.146 1.00 11.97 1 .  
.ATOM 5574 CA CA . LYS LYS LYS B B 305 305 . 32.189 62.173 -22.162 1.00 14.07 1 .  
.ATOM 5575 CB CB . LYS LYS LYS B B 305 305 . 33.134 63.358 -22.121 1.00 15.21 1 .  
.ATOM 5576 CG CG . LYS LYS LYS B B 305 305 . 34.250 63.290 -23.259 1.00 19.04 1 .  
.ATOM 5577 CD CD . LYS LYS LYS B B 305 305 . 34.888 64.686 -23.454 1.00 27.88 1 .  
.ATOM 5578 CE CE . LYS LYS LYS B B 305 305 . 35.870 64.713 -24.639 1.00 34.53 1 .  
.ATOM 5579 NZ NZ . LYS LYS LYS B B 305 305 . 37.019 63.896 -24.217 1.00 42.79 1 .  
.ATOM 5580 C C . LYS LYS LYS B B 305 305 . 32.952 60.878 -21.890 1.00 13.61 1 .  
.ATOM 5581 O O . LYS LYS LYS B B 305 305 . 33.239 60.062 -22.802 1.00 14.20 1 .  
.ATOM 5582 N N . PHE PHE PHE B B 306 306 . 33.270 60.666 -20.624 1.00 10.87 1 .  
.ATOM 5583 CA CA . PHE PHE PHE B B 306 306 . 34.035 59.453 -20.285 1.00 11.74 1 .  
.ATOM 5584 CB CB . PHE PHE PHE B B 306 306 . 34.445 59.521 -18.800 1.00 13.40 1 .  
.ATOM 5585 CG CG . PHE PHE PHE B B 306 306 . 35.415 58.429 -18.400 1.00 12.11 1 .  
.ATOM 5586 CD1 CD1 . PHE PHE PHE B B 306 306 . 36.707 58.417 -18.905 1.00 15.91 1 .  
.ATOM 5587 CE1 CE1 . PHE PHE PHE B B 306 306 . 37.674 57.432 -18.519 1.00 13.69 1 .  
.ATOM 5588 CZ CZ . PHE PHE PHE B B 306 306 . 37.274 56.451 -17.661 1.00 14.25 1 .  
.ATOM 5589 CE2 CE2 . PHE PHE PHE B B 306 306 . 36.006 56.478 -17.144 1.00 14.85 1 .  
.ATOM 5590 CD2 CD2 . PHE PHE PHE B B 306 306 . 35.054 57.478 -17.489 1.00 12.54 1 .  
.ATOM 5591 C C . PHE PHE PHE B B 306 306 . 33.241 58.192 -20.583 1.00 12.52 1 .  
.ATOM 5592 O O . PHE PHE PHE B B 306 306 . 33.808 57.271 -21.193 1.00 12.87 1 .  
.ATOM 5593 N N . THR THR THR B B 307 307 . 31.948 58.158 -20.222 1.00 11.60 1 .  
.ATOM 5594 CA CA . THR THR THR B B 307 307 . 31.158 56.945 -20.344 1.00 13.23 1 .  
.ATOM 5595 CB CB . THR THR THR B B 307 307 . 29.786 57.187 -19.706 1.00 13.00 1 .  
.ATOM 5596 OG1 OG1 . THR THR THR B B 307 307 . 30.007 57.251 -18.290 1.00 12.38 1 .  
.ATOM 5597 CG2 CG2 . THR THR THR B B 307 307 . 28.795 56.093 -19.964 1.00 14.70 1 .  
.ATOM 5598 C C . THR THR THR B B 307 307 . 31.054 56.649 -21.850 1.00 12.66 1 .  
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ATOM 5599 O O . THR THR THR B B 307 307 . 31.100 55.466 -22.251 1.00 12.68 1 .  
.  
ATOM 5600 N N . ALA ALA ALA B B 308 308 . 30.931 57.711 -22.664 1.00 13.07 1 .  
.  
ATOM 5601 CA CA . ALA ALA ALA B B 308 308 . 30.894 57.502 -24.133 1.00 14.55 1 .  
.  
ATOM 5602 CB CB . ALA ALA ALA B B 308 308 . 30.472 58.752 -24.843 1.00 14.97 1 .  
.  
ATOM 5603 C C . ALA ALA ALA B B 308 308 . 32.186 57.009 -24.759 1.00 13.79 1 .  
.  
ATOM 5604 O O . ALA ALA ALA B B 308 308 . 32.121 56.559 -25.938 1.00 17.48 1 .  
.  
ATOM 5605 N N . ASN ASN ASN B B 309 309 . 33.311 57.089 -24.063 1.00 12.53 1 .  
.  
ATOM 5606 CA CA . ASN ASN ASN B B 309 309 . 34.588 56.775 -24.637 1.00 13.72 1 .  
.  
ATOM 5607 CB CB . ASN ASN ASN B B 309 309 . 35.476 57.983 -24.404 1.00 16.86 1 .  
.  
ATOM 5608 CG CG . ASN ASN ASN B B 309 309 . 35.173 59.145 -25.368 1.00 24.70 1 .  
.  
ATOM 5609 OD1 OD1 . ASN ASN ASN B B 309 309 . 34.718 58.953 -26.488 1.00 32.88 1 .  
.  
ATOM 5610 ND2 ND2 . ASN ASN ASN B B 309 309 . 35.505 60.345 -24.942 1.00 32.53 1 .  
.  
ATOM 5611 C C . ASN ASN ASN B B 309 309 . 35.259 55.521 -24.044 1.00 13.06 1 .  
.  
ATOM 5612 O O . ASN ASN ASN B B 309 309 . 36.438 55.261 -24.317 1.00 16.04 1 .  
.  
ATOM 5613 N N . VAL VAL VAL B B 310 310 . 34.553 54.785 -23.186 1.00 12.29 1 .  
.  
ATOM 5614 CA CA . VAL VAL VAL B B 310 310 . 35.059 53.508 -22.613 1.00 12.86 1 .  
.  
ATOM 5615 CB CB . VAL VAL VAL B B 310 310 . 35.469 53.748 -21.106 1.00 13.80 1 .  
.  
ATOM 5616 CG1 CG1 . VAL VAL VAL B B 310 310 . 36.421 54.899 -21.017 1.00 17.43 1 .  
.  
ATOM 5617 CG2 CG2 . VAL VAL VAL B B 310 310 . 34.242 54.054 -20.258 1.00 13.10 1 .  
.  
ATOM 5618 C C . VAL VAL VAL B B 310 310 . 34.032 52.431 -22.653 1.00 11.70 1 .  
.  
ATOM 5619 O O . VAL VAL VAL B B 310 310 . 32.839 52.658 -22.913 1.00 12.18 1 .  
.  
ATOM 5620 N N . GLY GLY GLY B B 311 311 . 34.495 51.172 -22.413 1.00 12.79 1 .  
.  
ATOM 5621 CA CA . GLY GLY GLY B B 311 311 . 33.530 50.076 -22.351 1.00 11.16 1 .  
.  
ATOM 5622 C C . GLY GLY GLY B B 311 311 . 33.328 49.518 -20.957 1.00 12.74 1 .  
.  
ATOM 5623 O O . GLY GLY GLY B B 311 311 . 32.545 48.595 -20.751 1.00 13.03 1 .  
.  
ATOM 5624 N N . ILE ILE ILE B B 312 312 . 34.032 50.093 -20.005 1.00 11.30 1 .  
.  
ATOM 5625 CA CA . ILE ILE ILE B B 312 312 . 33.895 49.530 -18.629 1.00 10.60 1 .  
.  
ATOM 5626 CB CB . ILE ILE ILE B B 312 312 . 35.134 49.903 -17.738 1.00 8.62 1 .  
.  
ATOM 5627 CG1 CG1 . ILE ILE ILE B B 312 312 . 35.281 51.453 -17.697 1.00 11.15 1 .  
.  
ATOM 5628 CD CD . ILE ILE ILE B B 312 312 . 36.163 51.929 -16.461 1.00 15.41 1 .  
.

ATOM 5629 CG2 CG2 . ILE ILE ILE B B 312 312 . 36.452 49.372 -18.285 1.00 12.18 1 .  
.  
ATOM 5630 C C . ILE ILE ILE B B 312 312 . 32.619 49.998 -17.970 1.00 10.18 1 .  
.  
ATOM 5631 O O . ILE ILE ILE B B 312 312 . 31.945 50.939 -18.432 1.00 12.11 1 .  
.  
ATOM 5632 N N . GLN GLN GLN B B 313 313 . 32.326 49.359 -16.822 1.00 9.61 1 .  
.  
ATOM 5633 CA CA . GLN GLN GLN B B 313 313 . 31.224 49.816 -15.979 1.00 9.10 1 .  
.  
ATOM 5634 CB CB . GLN GLN GLN B B 313 313 . 30.942 48.728 -14.930 1.00 9.86 1 .  
.  
ATOM 5635 CG CG . GLN GLN GLN B B 313 313 . 29.898 49.225 -13.915 1.00 10.98 1 .  
.  
ATOM 5636 CD CD . GLN GLN GLN B B 313 313 . 29.331 48.093 -13.124 1.00 11.84 1 .  
.  
ATOM 5637 OE1 OE1 . GLN GLN GLN B B 313 313 . 28.312 47.476 -13.517 1.00 15.11 1 .  
.  
ATOM 5638 NE2 NE2 . GLN GLN GLN B B 313 313 . 30.012 47.775 -12.023 1.00 12.39 1 .  
.  
ATOM 5639 C C . GLN GLN GLN B B 313 313 . 31.629 51.149 -15.285 1.00 8.62 1 .  
.  
ATOM 5640 O O . GLN GLN GLN B B 313 313 . 32.737 51.275 -14.799 1.00 10.31 1 .  
.  
ATOM 5641 N N . ILE ILE ILE B B 314 314 . 30.674 52.106 -15.305 1.00 8.90 1 .  
.  
ATOM 5642 CA CA . ILE ILE ILE B B 314 314 . 30.893 53.439 -14.718 1.00 9.23 1 .  
.  
ATOM 5643 CB CB . ILE ILE ILE B B 314 314 . 30.800 54.540 -15.798 1.00 9.77 1 .  
.  
ATOM 5644 CG1 CG1 . ILE ILE ILE B B 314 314 . 31.942 54.379 -16.807 1.00 10.43 1 .  
.  
ATOM 5645 CD CD . ILE ILE ILE B B 314 314 . 33.342 54.435 -16.259 1.00 13.47 1 .  
.  
ATOM 5646 CG2 CG2 . ILE ILE ILE B B 314 314 . 30.805 55.976 -15.128 1.00 12.94 1 .  
.  
ATOM 5647 C C . ILE ILE ILE B B 314 314 . 29.767 53.639 -13.748 1.00 9.56 1 .  
.  
ATOM 5648 O O . ILE ILE ILE B B 314 314 . 28.572 53.670 -14.133 1.00 8.86 1 .  
.  
ATOM 5649 N N . VAL VAL VAL B B 315 315 . 30.152 53.743 -12.445 1.00 9.90 1 .  
.  
ATOM 5650 CA CA . VAL VAL VAL B B 315 315 . 29.136 53.675 -11.382 1.00 9.65 1 .  
.  
ATOM 5651 CB CB . VAL VAL VAL B B 315 315 . 29.621 52.705 -10.239 1.00 9.59 1 .  
.  
ATOM 5652 CG1 CG1 . VAL VAL VAL B B 315 315 . 28.474 52.532 -9.220 1.00 10.69 1 .  
.  
ATOM 5653 CG2 CG2 . VAL VAL VAL B B 315 315 . 30.032 51.335 -10.874 1.00 10.46 1 .  
.  
ATOM 5654 C C . VAL VAL VAL B B 315 315 . 28.841 55.024 -10.774 1.00 8.62 1 .  
.  
ATOM 5655 O O . VAL VAL VAL B B 315 315 . 29.780 55.672 -10.298 1.00 10.08 1 .  
.  
ATOM 5656 N N . GLY GLY GLY B B 316 316 . 27.557 55.427 -10.752 1.00 9.60 1 .  
.  
ATOM 5657 CA CA . GLY GLY GLY B B 316 316 . 27.130 56.636 -10.044 1.00 10.12 1 .  
.  
ATOM 5658 C C . GLY GLY GLY B B 316 316 . 26.938 56.288 -8.554 1.00 10.65 1 .  
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ATOM 5659 O O . GLY GLY GLY B B 316 316 . 26.204 55.368 -8.237 1.00 12.11 1 .  
.  
ATOM 5660 N N . ASP ASP ASP B B 317 317 . 27.545 57.104 -7.674 1.00 10.58 1 .  
.  
ATOM 5661 CA CA . ASP ASP ASP B B 317 317 . 27.293 56.926 -6.225 1.00 11.41 1 .  
.  
ATOM 5662 CB CB . ASP ASP ASP B B 317 317 . 28.574 56.433 -5.576 1.00 12.83 1 .  
.  
ATOM 5663 CG CG . ASP ASP ASP B B 317 317 . 28.467 56.411 -4.049 1.00 9.21 1 .  
.  
ATOM 5664 OD1 OD1 . ASP ASP ASP B B 317 317 . 27.313 56.518 -3.604 1.00 13.45 1 .  
.  
ATOM 5665 OD2 OD2 . ASP ASP ASP B B 317 317 . 29.545 56.374 -3.408 1.00 10.85 1 .  
.  
ATOM 5666 C C . ASP ASP ASP B B 317 317 . 26.886 58.325 -5.771 1.00 11.18 1 .  
.  
ATOM 5667 O O . ASP ASP ASP B B 317 317 . 25.708 58.559 -5.663 1.00 12.34 1 .  
.  
ATOM 5668 N N . ASP ASP ASP B B 318 318 . 27.848 59.216 -5.535 1.00 12.72 1 .  
.  
ATOM 5669 CA CA . ASP ASP ASP B B 318 318 . 27.511 60.626 -5.141 1.00 12.79 1 .  
.  
ATOM 5670 CB CB . ASP ASP ASP B B 318 318 . 28.762 61.366 -4.682 1.00 11.91 1 .  
.  
ATOM 5671 CG CG . ASP ASP ASP B B 318 318 . 29.284 60.797 -3.308 1.00 11.69 1 .  
.  
ATOM 5672 OD1 OD1 . ASP ASP ASP B B 318 318 . 28.459 60.139 -2.599 1.00 15.47 1 .  
.  
ATOM 5673 OD2 OD2 . ASP ASP ASP B B 318 318 . 30.478 60.955 -3.063 1.00 17.50 1 .  
.  
ATOM 5674 C C . ASP ASP ASP B B 318 318 . 26.856 61.390 -6.328 1.00 12.45 1 .  
.  
ATOM 5675 O O . ASP ASP ASP B B 318 318 . 26.037 62.235 -6.137 1.00 12.54 1 .  
.  
ATOM 5676 N N . LEU LEU LEU B B 319 319 . 27.081 60.892 -7.561 1.00 11.70 1 .  
.  
ATOM 5677 CA CA . LEU LEU LEU B B 319 319 . 26.365 61.529 -8.703 1.00 10.52 1 .  
.  
ATOM 5678 CB CB . LEU LEU LEU B B 319 319 . 26.819 60.792 -9.991 1.00 11.48 1 .  
.  
ATOM 5679 CG CG . LEU LEU LEU B B 319 319 . 26.100 61.337 -11.254 1.00 11.22 1 .  
.  
ATOM 5680 CD1 CD1 . LEU LEU LEU B B 319 319 . 26.617 62.732 -11.635 1.00 11.69 1 .  
.  
ATOM 5681 CD2 CD2 . LEU LEU LEU B B 319 319 . 26.365 60.355 -12.458 1.00 13.69 1 .  
.  
ATOM 5682 C C . LEU LEU LEU B B 319 319 . 24.834 61.298 -8.562 1.00 11.64 1 .  
.  
ATOM 5683 O O . LEU LEU LEU B B 319 319 . 24.011 62.216 -8.812 1.00 13.14 1 .  
.  
ATOM 5684 N N . THR THR THR B B 320 320 . 24.416 60.074 -8.217 1.00 11.74 1 .  
.  
ATOM 5685 CA CA . THR THR THR B B 320 320 . 23.017 59.672 -8.347 1.00 11.54 1 .  
.  
ATOM 5686 CB CB . THR THR THR B B 320 320 . 22.939 58.241 -9.004 1.00 12.38 1 .  
.  
ATOM 5687 OG1 OG1 . THR THR THR B B 320 320 . 24.034 57.477 -8.508 1.00 12.82 1 .  
.  
ATOM 5688 CG2 CG2 . THR THR THR B B 320 320 . 23.210 58.423 -10.515 1.00 13.19 1 .  
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ATOM 5719 O O . PRO PRO PRO B B 324 324 . 15.450 59.946 -10.983 1.00 18.99 1 .  
.  
ATOM 5720 N N . LYS LYS LYS B B 325 325 . 15.203 61.144 -9.082 1.00 19.93 1 .  
.  
ATOM 5721 CA CA . LYS LYS LYS B B 325 325 . 15.333 62.438 -9.815 1.00 19.10 1 .  
.  
ATOM 5722 CB CB . LYS LYS LYS B B 325 325 . 14.961 63.606 -8.894 1.00 21.28 1 .  
.  
ATOM 5723 CG CG . LYS LYS LYS B B 325 325 . 13.455 63.611 -8.622 1.00 24.79 1 .  
.  
ATOM 5724 C C . LYS LYS LYS B B 325 325 . 16.728 62.651 -10.497 1.00 18.44 1 .  
.  
ATOM 5725 O O . LYS LYS LYS B B 325 325 . 16.893 63.081 -11.694 1.00 18.81 1 .  
.  
ATOM 5726 N N . ARG ARG ARG B B 326 326 . 17.757 62.294 -9.752 1.00 17.23 1 .  
.  
ATOM 5727 CA CA . ARG ARG ARG B B 326 326 . 19.125 62.391 -10.266 1.00 14.58 1 .  
.  
ATOM 5728 CB CB . ARG ARG ARG B B 326 326 . 20.184 62.290 -9.160 1.00 15.57 1 .  
.  
ATOM 5729 CG CG . ARG ARG ARG B B 326 326 . 19.964 63.266 -7.957 1.00 21.84 1 .  
.  
ATOM 5730 CD CD . ARG ARG ARG B B 326 326 . 20.782 64.482 -7.969 1.00 24.29 1 .  
.  
ATOM 5731 NE NE . ARG ARG ARG B B 326 326 . 22.202 64.277 -8.262 1.00 19.46 1 .  
.  
ATOM 5732 CZ CZ . ARG ARG ARG B B 326 326 . 22.930 65.274 -8.781 1.00 17.98 1 .  
.  
ATOM 5733 NH1 NH1 . ARG ARG ARG B B 326 326 . 24.197 65.081 -9.082 1.00 13.89 1 .  
.  
ATOM 5734 NH2 NH2 . ARG ARG ARG B B 326 326 . 22.328 66.497 -8.981 1.00 19.59 1 .  
.  
ATOM 5735 C C . ARG ARG ARG B B 326 326 . 19.354 61.270 -11.256 1.00 13.04 1 .  
.  
ATOM 5736 O O . ARG ARG ARG B B 326 326 . 20.047 61.487 -12.242 1.00 13.58 1 .  
.  
ATOM 5737 N N . ILE ILE ILE B B 327 327 . 18.803 60.066 -11.008 1.00 14.16 1 .  
.  
ATOM 5738 CA CA . ILE ILE ILE B B 327 327 . 19.027 58.945 -11.870 1.00 12.64 1 .  
.  
ATOM 5739 CB CB . ILE ILE ILE B B 327 327 . 18.426 57.650 -11.295 1.00 13.30 1 .  
.  
ATOM 5740 CG1 CG1 . ILE ILE ILE B B 327 327 . 19.248 57.220 -10.058 1.00 14.42 1 .  
.  
ATOM 5741 CD CD . ILE ILE ILE B B 327 327 . 18.420 56.191 -9.123 1.00 14.09 1 .  
.  
ATOM 5742 CG2 CG2 . ILE ILE ILE B B 327 327 . 18.350 56.552 -12.373 1.00 14.31 1 .  
.  
ATOM 5743 C C . ILE ILE ILE B B 327 327 . 18.365 59.301 -13.243 1.00 14.33 1 .  
.  
ATOM 5744 O O . ILE ILE ILE B B 327 327 . 18.982 59.040 -14.297 1.00 13.77 1 .  
.  
ATOM 5745 N N . GLU GLU GLU B B 328 328 . 17.161 59.901 -13.226 1.00 15.01 1 .  
.  
ATOM 5746 CA CA . GLU GLU GLU B B 328 328 . 16.532 60.340 -14.529 1.00 17.47 1 .  
.  
ATOM 5747 CB CB . GLU GLU GLU B B 328 328 . 15.185 61.054 -14.294 1.00 20.37 1 .  
.  
ATOM 5748 CG CG . GLU GLU GLU B B 328 328 . 14.099 60.039 -13.969 1.00 28.78 1 .  
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ATOM 5749 CD CD . GLU GLU GLU B B 328 328 . 13.394 59.286 -15.197 1.00 41.03 1 .  
.ATOM 5750 OE1 OE1 . GLU GLU GLU B B 328 328 . 14.023 58.901 -16.262 1.00 41.95 1 .  
.ATOM 5751 OE2 OE2 . GLU GLU GLU B B 328 328 . 12.154 59.035 -15.033 1.00 47.47 1 .  
.ATOM 5752 C C . GLU GLU GLU B B 328 328 . 17.465 61.236 -15.350 1.00 16.93 1 .  
.ATOM 5753 O O . GLU GLU GLU B B 328 328 . 17.581 61.033 -16.557 1.00 18.50 1 .  
.ATOM 5754 N N . ARG ARG ARG B B 329 329 . 18.104 62.216 -14.720 1.00 15.70 1 .  
.ATOM 5755 CA CA . ARG ARG ARG B B 329 329 . 19.069 63.053 -15.391 1.00 14.19 1 .  
.ATOM 5756 CB CB . ARG ARG ARG B B 329 329 . 19.534 64.157 -14.484 1.00 15.17 1 .  
.ATOM 5757 CG CG . ARG ARG ARG B B 329 329 . 20.578 65.138 -15.173 1.00 14.74 1 .  
.ATOM 5758 CD CD . ARG ARG ARG B B 329 329 . 20.724 66.434 -14.377 1.00 17.00 1 .  
.ATOM 5759 NE NE . ARG ARG ARG B B 329 329 . 21.701 67.333 -15.026 1.00 18.55 1 .  
.ATOM 5760 CZ CZ . ARG ARG ARG B B 329 329 . 22.185 68.456 -14.452 1.00 19.56 1 .  
.ATOM 5761 NH1 NH1 . ARG ARG ARG B B 329 329 . 21.803 68.808 -13.197 1.00 19.45 1 .  
.ATOM 5762 NH2 NH2 . ARG ARG ARG B B 329 329 . 23.079 69.199 -15.104 1.00 19.92 1 .  
.ATOM 5763 C C . ARG ARG ARG B B 329 329 . 20.232 62.251 -15.965 1.00 14.95 1 .  
.ATOM 5764 O O . ARG ARG ARG B B 329 329 . 20.705 62.527 -17.118 1.00 15.31 1 .  
.ATOM 5765 N N . ALA ALA ALA B B 330 330 . 20.809 61.340 -15.127 1.00 13.40 1 .  
.ATOM 5766 CA CA . ALA ALA ALA B B 330 330 . 21.962 60.593 -15.526 1.00 12.29 1 .  
.ATOM 5767 CB CB . ALA ALA ALA B B 330 330 . 22.545 59.830 -14.274 1.00 12.73 1 .  
.ATOM 5768 C C . ALA ALA ALA B B 330 330 . 21.596 59.671 -16.675 1.00 13.10 1 .  
.ATOM 5769 O O . ALA ALA ALA B B 330 330 . 22.401 59.445 -17.546 1.00 14.51 1 .  
.ATOM 5770 N N . VAL VAL VAL B B 331 331 . 20.358 59.184 -16.711 1.00 13.36 1 .  
.ATOM 5771 CA CA . VAL VAL VAL B B 331 331 . 19.953 58.304 -17.828 1.00 15.38 1 .  
.ATOM 5772 CB CB . VAL VAL VAL B B 331 331 . 18.540 57.644 -17.580 1.00 15.66 1 .  
.ATOM 5773 CG1 CG1 . VAL VAL VAL B B 331 331 . 17.983 57.074 -18.907 1.00 16.44 1 .  
.ATOM 5774 CG2 CG2 . VAL VAL VAL B B 331 331 . 18.620 56.495 -16.492 1.00 15.79 1 .  
.ATOM 5775 C C . VAL VAL VAL B B 331 331 . 19.890 59.139 -19.082 1.00 16.17 1 .  
.ATOM 5776 O O . VAL VAL VAL B B 331 331 . 20.431 58.732 -20.137 1.00 17.75 1 .  
.ATOM 5777 N N . GLU GLU GLU B B 332 332 . 19.186 60.280 -19.010 1.00 17.15 1 .  
.ATOM 5778 CA CA . GLU GLU GLU B B 332 332 . 19.028 61.209 -20.166 1.00 18.92 1 .  
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ATOM 5779 CB CB . GLU GLU GLU B B 332 332 . 18.126 62.408 -19.794 1.00 18.69 1 .  
.ATOM 5780 CG CG . GLU GLU GLU B B 332 332 . 17.842 63.410 -20.999 1.00 26.37 1 .  
.ATOM 5781 C C . GLU GLU GLU B B 332 332 . 20.378 61.692 -20.729 1.00 16.21 1 .  
.ATOM 5782 O O . GLU GLU GLU B B 332 332 . 20.593 61.722 -21.977 1.00 19.73 1 .  
.ATOM 5783 N N . GLU GLU GLU B B 333 333 . 21.339 61.997 -19.855 1.00 15.38 1 .  
.ATOM 5784 CA CA . GLU GLU GLU B B 333 333 . 22.666 62.469 -20.286 1.00 13.93 1 .  
.ATOM 5785 CB CB . GLU GLU GLU B B 333 333 . 23.210 63.488 -19.269 1.00 14.57 1 .  
.ATOM 5786 CG CG . GLU GLU GLU B B 333 333 . 22.142 64.656 -19.085 1.00 17.58 1 .  
.ATOM 5787 CD CD . GLU GLU GLU B B 333 333 . 22.731 65.910 -18.383 1.00 19.56 1 .  
.ATOM 5788 OE1 OE1 . GLU GLU GLU B B 333 333 . 21.894 66.690 -17.855 1.00 19.86 1 .  
.ATOM 5789 OE2 OE2 . GLU GLU GLU B B 333 333 . 23.995 66.111 -18.369 1.00 20.14 1 .  
.ATOM 5790 C C . GLU GLU GLU B B 333 333 . 23.660 61.361 -20.538 1.00 12.66 1 .  
.ATOM 5791 O O . GLU GLU GLU B B 333 333 . 24.785 61.610 -20.915 1.00 14.66 1 .  
.ATOM 5792 N N . LYS LYS LYS B B 334 334 . 23.237 60.112 -20.289 1.00 13.24 1 .  
.ATOM 5793 CA CA . LYS LYS LYS B B 334 334 . 24.178 58.985 -20.442 1.00 13.81 1 .  
.ATOM 5794 CB CB . LYS LYS LYS B B 334 334 . 24.515 58.606 -21.890 1.00 14.36 1 .  
.ATOM 5795 CG CG . LYS LYS LYS B B 334 334 . 23.285 58.228 -22.705 1.00 17.89 1 .  
.ATOM 5796 CD CD . LYS LYS LYS B B 334 334 . 23.718 57.681 -24.145 1.00 22.61 1 .  
.ATOM 5797 CE CE . LYS LYS LYS B B 334 334 . 22.634 57.908 -25.187 1.00 36.51 1 .  
.ATOM 5798 NZ NZ . LYS LYS LYS B B 334 334 . 21.448 57.048 -24.902 1.00 39.86 1 .  
.ATOM 5799 C C . LYS LYS LYS B B 334 334 . 25.438 59.179 -19.632 1.00 11.74 1 .  
.ATOM 5800 O O . LYS LYS LYS B B 334 334 . 26.552 58.970 -20.080 1.00 12.42 1 .  
.ATOM 5801 N N . ALA ALA ALA B B 335 335 . 25.219 59.636 -18.403 1.00 11.07 1 .  
.ATOM 5802 CA CA . ALA ALA ALA B B 335 335 . 26.354 60.006 -17.532 1.00 11.40 1 .  
.ATOM 5803 CB CB . ALA ALA ALA B B 335 335 . 25.816 60.845 -16.359 1.00 13.73 1 .  
.ATOM 5804 C C . ALA ALA ALA B B 335 335 . 27.094 58.796 -16.998 1.00 11.12 1 .  
.ATOM 5805 O O . ALA ALA ALA B B 335 335 . 28.289 58.881 -16.691 1.00 11.58 1 .  
.ATOM 5806 N N . CYS CYS CYS B B 336 336 . 26.394 57.694 -16.838 1.00 12.08 1 .  
.ATOM 5807 CA CA . CYS CYS CYS B B 336 336 . 27.029 56.487 -16.260 1.00 11.58 1 .  
.ATOM 5808 CB CB . CYS CYS CYS B B 336 336 . 27.122 56.558 -14.696 1.00 11.68 1 .  
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ATOM 5809 SG SG . CYS CYS CYS B B 336 336 . 25.490 56.830 -13.880 1.00 14.48 1 .  
.ATOM 5810 C C . CYS CYS CYS B B 336 336 . 26.198 55.297 -16.719 1.00 12.70 1 .  
.ATOM 5811 O O . CYS CYS CYS B B 336 336 . 25.216 55.475 -17.441 1.00 15.13 1 .  
.ATOM 5812 N N . ASN ASN ASN B B 337 337 . 26.564 54.088 -16.299 1.00 11.18 1 .  
.ATOM 5813 CA CA . ASN ASN ASN B B 337 337 . 25.797 52.921 -16.722 1.00 11.95 1 .  
.ATOM 5814 CB CB . ASN ASN ASN B B 337 337 . 26.491 52.261 -17.953 1.00 11.01 1 .  
.ATOM 5815 CG CG . ASN ASN ASN B B 337 337 . 27.917 51.903 -17.702 1.00 12.95 1 .  
.ATOM 5816 OD1 OD1 . ASN ASN ASN B B 337 337 . 28.791 51.962 -18.626 1.00 16.52 1 .  
.ATOM 5817 ND2 ND2 . ASN ASN ASN B B 337 337 . 28.192 51.491 -16.494 1.00 8.10 1 .  
.ATOM 5818 C C . ASN ASN ASN B B 337 337 . 25.537 51.942 -15.580 1.00 10.61 1 .  
.ATOM 5819 O O . ASN ASN ASN B B 337 337 . 25.143 50.766 -15.834 1.00 10.72 1 .  
.ATOM 5820 N N . CYS CYS CYS B B 338 338 . 25.832 52.363 -14.339 1.00 10.47 1 .  
.ATOM 5821 CA CA . CYS CYS CYS B B 338 338 . 25.505 51.478 -13.213 1.00 10.87 1 .  
.ATOM 5822 CB CB . CYS CYS CYS B B 338 338 . 26.770 50.661 -12.905 1.00 10.41 1 .  
.ATOM 5823 SG SG . CYS CYS CYS B B 338 338 . 26.508 49.469 -11.529 1.00 15.16 1 .  
.ATOM 5824 C C . CYS CYS CYS B B 338 338 . 25.155 52.401 -12.053 1.00 11.33 1 .  
.ATOM 5825 O O . CYS CYS CYS B B 338 338 . 25.812 53.440 -11.911 1.00 10.92 1 .  
.ATOM 5826 N N . LEU LEU LEU B B 339 339 . 24.183 51.980 -11.256 1.00 9.90 1 .  
.ATOM 5827 CA CA . LEU LEU LEU B B 339 339 . 23.807 52.731 -10.038 1.00 10.74 1 .  
.ATOM 5828 CB CB . LEU LEU LEU B B 339 339 . 22.291 52.675 -9.909 1.00 10.46 1 .  
.ATOM 5829 CG CG . LEU LEU LEU B B 339 339 . 21.728 53.195 -8.588 1.00 10.04 1 .  
.ATOM 5830 CD1 CD1 . LEU LEU LEU B B 339 339 . 21.939 54.743 -8.502 1.00 11.55 1 .  
.ATOM 5831 CD2 CD2 . LEU LEU LEU B B 339 339 . 20.203 52.907 -8.626 1.00 14.70 1 .  
.ATOM 5832 C C . LEU LEU LEU B B 339 339 . 24.389 52.040 -8.795 1.00 10.58 1 .  
.ATOM 5833 O O . LEU LEU LEU B B 339 339 . 24.147 50.844 -8.636 1.00 13.05 1 .  
.ATOM 5834 N N . LEU LEU LEU B B 340 340 . 25.016 52.805 -7.899 1.00 9.29 1 .  
.ATOM 5835 CA CA . LEU LEU LEU B B 340 340 . 25.375 52.225 -6.594 1.00 9.53 1 .  
.ATOM 5836 CB CB . LEU LEU LEU B B 340 340 . 26.560 52.952 -5.990 1.00 11.23 1 .  
.ATOM 5837 CG CG . LEU LEU LEU B B 340 340 . 27.136 52.214 -4.802 1.00 9.11 1 .  
.ATOM 5838 CD1 CD1 . LEU LEU LEU B B 340 340 . 28.077 51.095 -5.346 1.00 11.41 1 .  
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ATOM 5929 N N . ILE ILE ILE B B 353 353 . 14.056 50.667 -3.851 1.00 14.33 1 .  
.ATOM 5930 CA CA . ILE ILE ILE B B 353 353 . 13.567 49.668 -4.870 1.00 13.39 1 .  
.ATOM 5931 CB CB . ILE ILE ILE B B 353 353 . 12.391 48.795 -4.328 1.00 14.12 1 .  
.ATOM 5932 CG1 CG1 . ILE ILE ILE B B 353 353 . 12.982 47.923 -3.200 1.00 15.52 1 .  
.ATOM 5933 CD CD . ILE ILE ILE B B 353 353 . 11.948 46.935 -2.578 1.00 18.08 1 .  
.ATOM 5934 CG2 CG2 . ILE ILE ILE B B 353 353 . 11.746 47.936 -5.419 1.00 15.08 1 .  
.ATOM 5935 C C . ILE ILE ILE B B 353 353 . 13.183 50.429 -6.126 1.00 11.96 1 .  
.ATOM 5936 O O . ILE ILE ILE B B 353 353 . 13.559 49.981 -7.244 1.00 13.49 1 .  
.ATOM 5937 N N . GLN GLN GLN B B 354 354 . 12.498 51.589 -5.987 1.00 13.33 1 .  
.ATOM 5938 CA CA . GLN GLN GLN B B 354 354 . 12.112 52.364 -7.207 1.00 15.01 1 .  
.ATOM 5939 CB CB . GLN GLN GLN B B 354 354 . 11.311 53.586 -6.835 1.00 15.54 1 .  
.ATOM 5940 CG CG . GLN GLN GLN B B 354 354 . 9.996 53.137 -6.302 1.00 24.45 1 .  
.ATOM 5941 CD CD . GLN GLN GLN B B 354 354 . 9.163 54.310 -5.744 1.00 30.69 1 .  
.ATOM 5942 OE1 OE1 . GLN GLN GLN B B 354 354 . 9.701 55.370 -5.285 1.00 33.88 1 .  
.ATOM 5943 NE2 NE2 . GLN GLN GLN B B 354 354 . 7.830 54.134 -5.798 1.00 35.61 1 .  
.ATOM 5944 C C . GLN GLN GLN B B 354 354 . 13.375 52.838 -7.960 1.00 15.32 1 .  
.ATOM 5945 O O . GLN GLN GLN B B 354 354 . 13.394 52.787 -9.212 1.00 15.67 1 .  
.ATOM 5946 N N . ALA ALA ALA B B 355 355 . 14.407 53.298 -7.227 1.00 14.71 1 .  
.ATOM 5947 CA CA . ALA ALA ALA B B 355 355 . 15.665 53.710 -7.820 1.00 13.74 1 .  
.ATOM 5948 CB CB . ALA ALA ALA B B 355 355 . 16.650 54.251 -6.725 1.00 13.41 1 .  
.ATOM 5949 C C . ALA ALA ALA B B 355 355 . 16.316 52.532 -8.603 1.00 14.29 1 .  
.ATOM 5950 O O . ALA ALA ALA B B 355 355 . 16.804 52.705 -9.756 1.00 13.20 1 .  
.ATOM 5951 N N . CYS CYS CYS B B 356 356 . 16.358 51.323 -8.019 1.00 13.33 1 .  
.ATOM 5952 CA CA . CYS CYS CYS B B 356 356 . 16.967 50.158 -8.664 1.00 14.15 1 .  
.ATOM 5953 CB CB . CYS CYS CYS B B 356 356 . 16.789 48.973 -7.691 1.00 15.07 1 .  
.ATOM 5954 SG SG . CYS CYS CYS B B 356 356 . 17.578 47.461 -8.363 1.00 16.29 1 .  
.ATOM 5955 C C . CYS CYS CYS B B 356 356 . 16.182 49.841 -9.948 1.00 14.08 1 .  
.ATOM 5956 O O . CYS CYS CYS B B 356 356 . 16.803 49.633 -11.044 1.00 16.84 1 .  
.ATOM 5957 N N . LYS LYS LYS B B 357 357 . 14.858 49.831 -9.822 1.00 14.55 1 .  
.ATOM 5958 CA CA . LYS LYS LYS B B 357 357 . 14.016 49.464 -11.007 1.00 16.86 1 .  
.

ATOM 5959 CB CB . LYS LYS LYS B B 357 357 . 12.580 49.255 -10.657 1.00 17.75 1 .  
.  
ATOM 5960 CG CG . LYS LYS LYS B B 357 357 . 12.313 48.065 -9.721 1.00 19.48 1 .  
.  
ATOM 5961 CD CD . LYS LYS LYS B B 357 357 . 10.826 47.982 -9.210 1.00 26.83 1 .  
.  
ATOM 5962 CE CE . LYS LYS LYS B B 357 357 . 10.336 49.265 -8.341 1.00 35.19 1 .  
.  
ATOM 5963 NZ NZ . LYS LYS LYS B B 357 357 . 8.974 49.529 -7.526 1.00 40.07 1 .  
.  
ATOM 5964 C C . LYS LYS LYS B B 357 357 . 14.185 50.487 -12.096 1.00 17.01 1 .  
.  
ATOM 5965 O O . LYS LYS LYS B B 357 357 . 14.230 50.120 -13.280 1.00 17.89 1 .  
.  
ATOM 5966 N N . LEU LEU LEU B B 358 358 . 14.312 51.761 -11.736 1.00 14.48 1 .  
.  
ATOM 5967 CA CA . LEU LEU LEU B B 358 358 . 14.537 52.792 -12.773 1.00 15.86 1 .  
.  
ATOM 5968 CB CB . LEU LEU LEU B B 358 358 . 14.430 54.175 -12.134 1.00 16.50 1 .  
.  
ATOM 5969 CG CG . LEU LEU LEU B B 358 358 . 14.716 55.358 -13.033 1.00 18.69 1 .  
.  
ATOM 5970 CD1 CD1 . LEU LEU LEU B B 358 358 . 13.593 55.336 -14.115 1.00 20.91 1 .  
.  
ATOM 5971 CD2 CD2 . LEU LEU LEU B B 358 358 . 14.770 56.627 -12.197 1.00 17.76 1 .  
.  
ATOM 5972 C C . LEU LEU LEU B B 358 358 . 15.848 52.606 -13.527 1.00 14.91 1 .  
.  
ATOM 5973 O O . LEU LEU LEU B B 358 358 . 15.901 52.690 -14.786 1.00 15.30 1 .  
.  
ATOM 5974 N N . ALA ALA ALA B B 359 359 . 16.918 52.265 -12.790 1.00 14.22 1 .  
.  
ATOM 5975 CA CA . ALA ALA ALA B B 359 359 . 18.213 51.986 -13.413 1.00 13.99 1 .  
.  
ATOM 5976 CB CB . ALA ALA ALA B B 359 359 . 19.234 51.733 -12.324 1.00 15.00 1 .  
.  
ATOM 5977 C C . ALA ALA ALA B B 359 359 . 18.063 50.746 -14.306 1.00 15.60 1 .  
.  
ATOM 5978 O O . ALA ALA ALA B B 359 359 . 18.492 50.771 -15.472 1.00 14.50 1 .  
.  
ATOM 5979 N N . GLN GLN GLN B B 360 360 . 17.497 49.653 -13.777 1.00 16.32 1 .  
.  
ATOM 5980 CA CA . GLN GLN GLN B B 360 360 . 17.506 48.375 -14.534 1.00 15.62 1 .  
.  
ATOM 5981 CB CB . GLN GLN GLN B B 360 360 . 16.912 47.246 -13.663 1.00 16.31 1 .  
.  
ATOM 5982 CG CG . GLN GLN GLN B B 360 360 . 17.958 46.863 -12.577 1.00 17.58 1 .  
.  
ATOM 5983 CD CD . GLN GLN GLN B B 360 360 . 17.436 45.844 -11.545 1.00 18.24 1 .  
.  
ATOM 5984 OE1 OE1 . GLN GLN GLN B B 360 360 . 18.239 45.009 -10.949 1.00 24.34 1 .  
.  
ATOM 5985 NE2 NE2 . GLN GLN GLN B B 360 360 . 16.161 45.904 -11.294 1.00 17.75 1 .  
.  
ATOM 5986 C C . GLN GLN GLN B B 360 360 . 16.634 48.544 -15.793 1.00 16.93 1 .  
.  
ATOM 5987 O O . GLN GLN GLN B B 360 360 . 17.009 48.034 -16.889 1.00 17.75 1 .  
.  
ATOM 5988 N N . GLU GLU GLU B B 361 361 . 15.479 49.226 -15.640 1.00 16.10 1 .  
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ATOM 5989 CA CA . GLU GLU GLU B B 361 361 . 14.616 49.549 -16.838 1.00 18.44 1 .  
.  
ATOM 5990 CB CB . GLU GLU GLU B B 361 361 . 13.333 50.284 -16.475 1.00 19.67 1 .  
.  
ATOM 5991 CG CG . GLU GLU GLU B B 361 361 . 12.462 49.325 -15.681 1.00 27.48 1 .  
.  
ATOM 5992 CD CD . GLU GLU GLU B B 361 361 . 11.254 50.037 -15.051 1.00 39.54 1 .  
.  
ATOM 5993 OE1 OE1 . GLU GLU GLU B B 361 361 . 11.059 51.281 -15.311 1.00 42.39 1 .  
.  
ATOM 5994 OE2 OE2 . GLU GLU GLU B B 361 361 . 10.518 49.317 -14.298 1.00 46.50 1 .  
.  
ATOM 5995 C C . GLU GLU GLU B B 361 361 . 15.301 50.312 -17.936 1.00 17.07 1 .  
.  
ATOM 5996 O O . GLU GLU GLU B B 361 361 . 14.893 50.151 -19.092 1.00 18.55 1 .  
.  
ATOM 5997 N N . ASN ASN ASN B B 362 362 . 16.360 51.037 -17.622 1.00 15.67 1 .  
.  
ATOM 5998 CA CA . ASN ASN ASN B B 362 362 . 17.082 51.845 -18.583 1.00 16.46 1 .  
.  
ATOM 5999 CB CB . ASN ASN ASN B B 362 362 . 17.271 53.250 -18.019 1.00 17.62 1 .  
.  
ATOM 6000 CG CG . ASN ASN ASN B B 362 362 . 16.018 54.046 -18.149 1.00 17.33 1 .  
.  
ATOM 6001 OD1 OD1 . ASN ASN ASN B B 362 362 . 15.658 54.455 -19.286 1.00 22.19 1 .  
.  
ATOM 6002 ND2 ND2 . ASN ASN ASN B B 362 362 . 15.294 54.258 -17.044 1.00 20.06 1 .  
.  
ATOM 6003 C C . ASN ASN ASN B B 362 362 . 18.393 51.175 -18.962 1.00 16.88 1 .  
.  
ATOM 6004 O O . ASN ASN ASN B B 362 362 . 19.295 51.801 -19.521 1.00 19.48 1 .  
.  
ATOM 6005 N N . GLY GLY GLY B B 363 363 . 18.529 49.898 -18.662 1.00 16.74 1 .  
.  
ATOM 6006 CA CA . GLY GLY GLY B B 363 363 . 19.701 49.205 -19.122 1.00 16.33 1 .  
.  
ATOM 6007 C C . GLY GLY GLY B B 363 363 . 20.960 49.329 -18.293 1.00 16.04 1 .  
.  
ATOM 6008 O O . GLY GLY GLY B B 363 363 . 22.037 48.910 -18.709 1.00 18.13 1 .  
.  
ATOM 6009 N N . TRP TRP TRP B B 364 364 . 20.823 49.880 -17.089 1.00 13.30 1 .  
.  
ATOM 6010 CA CA . TRP TRP TRP B B 364 364 . 22.029 50.000 -16.223 1.00 12.13 1 .  
.  
ATOM 6011 CB CB . TRP TRP TRP B B 364 364 . 21.796 51.144 -15.255 1.00 11.76 1 .  
.  
ATOM 6012 CG CG . TRP TRP TRP B B 364 364 . 21.834 52.554 -15.799 1.00 12.93 1 .  
.  
ATOM 6013 CD1 CD1 . TRP TRP TRP B B 364 364 . 21.716 53.025 -17.108 1.00 15.79 1 .  
.  
ATOM 6014 NE1 NE1 . TRP TRP TRP B B 364 364 . 21.793 54.442 -17.112 1.00 13.75 1 .  
.  
ATOM 6015 CE2 CE2 . TRP TRP TRP B B 364 364 . 21.959 54.855 -15.806 1.00 14.68 1 .  
.  
ATOM 6016 CD2 CD2 . TRP TRP TRP B B 364 364 . 22.022 53.682 -14.980 1.00 12.00 1 .  
.  
ATOM 6017 CE3 CE3 . TRP TRP TRP B B 364 364 . 22.121 53.827 -13.582 1.00 10.94 1 .  
.  
ATOM 6018 CZ3 CZ3 . TRP TRP TRP B B 364 364 . 22.251 55.107 -13.042 1.00 11.73 1 .  
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ATOM 6019 CH2 CH2 . TRP TRP TRP B B 364 364 . 22.220 56.253 -13.868 1.00 12.23 1 .  
.ATOM 6020 CZ2 CZ2 . TRP TRP TRP B B 364 364 . 22.108 56.150 -15.274 1.00 14.17 1 .  
.ATOM 6021 C C . TRP TRP TRP B B 364 364 . 22.223 48.780 -15.358 1.00 11.88 1 .  
.ATOM 6022 O O . TRP TRP TRP B B 364 364 . 21.203 48.120 -15.012 1.00 14.45 1 .  
.ATOM 6023 N N . GLY GLY GLY B B 365 365 . 23.460 48.589 -14.881 1.00 12.79 1 .  
.ATOM 6024 CA CA . GLY GLY GLY B B 365 365 . 23.726 47.587 -13.818 1.00 10.97 1 .  
.ATOM 6025 C C . GLY GLY GLY B B 365 365 . 23.366 48.328 -12.502 1.00 11.62 1 .  
.ATOM 6026 O O . GLY GLY GLY B B 365 365 . 23.107 49.542 -12.454 1.00 11.78 1 .  
.ATOM 6027 N N . VAL VAL VAL B B 366 366 . 23.347 47.561 -11.412 1.00 11.20 1 .  
.ATOM 6028 CA CA . VAL VAL VAL B B 366 366 . 23.160 48.128 -10.084 1.00 11.11 1 .  
.ATOM 6029 CB CB . VAL VAL VAL B B 366 366 . 21.639 47.945 -9.604 1.00 10.06 1 .  
.ATOM 6030 CG1 CG1 . VAL VAL VAL B B 366 366 . 21.512 48.428 -8.145 1.00 13.56 1 .  
.ATOM 6031 CG2 CG2 . VAL VAL VAL B B 366 366 . 20.632 48.629 -10.524 1.00 12.62 1 .  
.ATOM 6032 C C . VAL VAL VAL B B 366 366 . 24.066 47.311 -9.134 1.00 11.37 1 .  
.ATOM 6033 O O . VAL VAL VAL B B 366 366 . 24.087 46.053 -9.179 1.00 13.22 1 .  
.ATOM 6034 N N . MET MET MET B B 367 367 . 24.823 48.029 -8.333 1.00 10.21 1 .  
.ATOM 6035 CA CA . MET MET MET B B 367 367 . 25.693 47.452 -7.342 1.00 10.99 1 .  
.ATOM 6036 CB CB . MET MET MET B B 367 367 . 27.165 47.828 -7.589 1.00 10.52 1 .  
.ATOM 6037 CG CG . MET MET MET B B 367 367 . 28.003 47.337 -6.424 1.00 11.07 1 .  
.ATOM 6038 SD SD . MET MET MET B B 367 367 . 29.756 47.792 -6.558 1.00 15.35 1 .  
.ATOM 6039 CE CE . MET MET MET B B 367 367 . 30.415 46.750 -7.883 1.00 20.57 1 .  
.ATOM 6040 C C . MET MET MET B B 367 367 . 25.208 47.884 -5.966 1.00 11.96 1 .  
.ATOM 6041 O O . MET MET MET B B 367 367 . 25.234 49.093 -5.648 1.00 12.49 1 .  
.ATOM 6042 N N . VAL VAL VAL B B 368 368 . 24.692 46.920 -5.182 1.00 11.68 1 .  
.ATOM 6043 CA CA . VAL VAL VAL B B 368 368 . 24.228 47.256 -3.847 1.00 10.78 1 .  
.ATOM 6044 CB CB . VAL VAL VAL B B 368 368 . 23.343 46.118 -3.279 1.00 9.93 1 .  
.ATOM 6045 CG1 CG1 . VAL VAL VAL B B 368 368 . 23.089 46.344 -1.738 1.00 11.88 1 .  
.ATOM 6046 CG2 CG2 . VAL VAL VAL B B 368 368 . 22.042 46.028 -4.015 1.00 11.25 1 .  
.ATOM 6047 C C . VAL VAL VAL B B 368 368 . 25.436 47.549 -2.963 1.00 11.06 1 .  
.ATOM 6048 O O . VAL VAL VAL B B 368 368 . 26.492 46.973 -3.177 1.00 10.96 1 .  
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ATOM 6169 CG1 CG1 . VAL VAL VAL B B 384 384 . 23.014 41.159 -2.515 1.00 11.50 1 .  
.ATOM 6170 CG2 CG2 . VAL VAL VAL B B 384 384 . 23.100 42.470 -4.730 1.00 10.89 1 .  
.ATOM 6171 C C . VAL VAL VAL B B 384 384 . 20.422 41.078 -4.156 1.00 11.91 1 .  
.ATOM 6172 O O . VAL VAL VAL B B 384 384 . 20.299 41.050 -5.377 1.00 12.53 1 .  
.ATOM 6173 N N . VAL VAL VAL B B 385 385 . 20.082 40.046 -3.380 1.00 10.94 1 .  
.ATOM 6174 CA CA . VAL VAL VAL B B 385 385 . 19.577 38.820 -3.986 1.00 11.63 1 .  
.ATOM 6175 CB CB . VAL VAL VAL B B 385 385 . 19.579 37.630 -2.949 1.00 10.46 1 .  
.ATOM 6176 CG1 CG1 . VAL VAL VAL B B 385 385 . 18.938 36.411 -3.599 1.00 12.89 1 .  
.ATOM 6177 CG2 CG2 . VAL VAL VAL B B 385 385 . 21.076 37.354 -2.652 1.00 12.86 1 .  
.ATOM 6178 C C . VAL VAL VAL B B 385 385 . 18.144 39.059 -4.510 1.00 12.19 1 .  
.ATOM 6179 O O . VAL VAL VAL B B 385 385 . 17.827 38.655 -5.664 1.00 14.76 1 .  
.ATOM 6180 N N . GLY GLY GLY B B 386 386 . 17.295 39.668 -3.677 1.00 12.33 1 .  
.ATOM 6181 CA CA . GLY GLY GLY B B 386 386 . 15.892 39.944 -4.116 1.00 13.77 1 .  
.ATOM 6182 C C . GLY GLY GLY B B 386 386 . 15.807 40.884 -5.328 1.00 14.35 1 .  
.ATOM 6183 O O . GLY GLY GLY B B 386 386 . 14.890 40.745 -6.159 1.00 15.99 1 .  
.ATOM 6184 N N . LEU LEU LEU B B 387 387 . 16.716 41.854 -5.415 1.00 14.43 1 .  
.ATOM 6185 CA CA . LEU LEU LEU B B 387 387 . 16.718 42.822 -6.542 1.00 13.32 1 .  
.ATOM 6186 CB CB . LEU LEU LEU B B 387 387 . 17.338 44.138 -6.075 1.00 13.34 1 .  
.ATOM 6187 CG CG . LEU LEU LEU B B 387 387 . 16.405 44.825 -5.026 1.00 14.41 1 .  
.ATOM 6188 CD1 CD1 . LEU LEU LEU B B 387 387 . 17.030 46.177 -4.722 1.00 17.23 1 .  
.ATOM 6189 CD2 CD2 . LEU LEU LEU B B 387 387 . 14.946 44.969 -5.465 1.00 17.20 1 .  
.ATOM 6190 C C . LEU LEU LEU B B 387 387 . 17.484 42.242 -7.767 1.00 14.53 1 .  
.ATOM 6191 O O . LEU LEU LEU B B 387 387 . 17.579 42.891 -8.874 1.00 16.18 1 .  
.ATOM 6192 N N . CYS CYS CYS B B 388 388 . 18.065 41.042 -7.584 1.00 15.62 1 .  
.ATOM 6193 CA CA . CYS CYS CYS B B 388 388 . 18.768 40.299 -8.629 1.00 17.33 1 .  
.ATOM 6194 CB CB . CYS CYS CYS B B 388 388 . 17.813 39.801 -9.707 1.00 19.21 1 .  
.ATOM 6195 SG SG . CYS CYS CYS B B 388 388 . 16.623 38.732 -9.060 1.00 29.12 1 .  
.ATOM 6196 C C . CYS CYS CYS B B 388 388 . 19.806 41.208 -9.324 1.00 17.34 1 .  
.ATOM 6197 O O . CYS CYS CYS B B 388 388 . 19.916 41.149 -10.570 1.00 18.95 1 .  
.ATOM 6198 N N . THR THR THR B B 389 389 . 20.563 42.009 -8.573 1.00 15.36 1 .  
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ATOM 6469 CG CG . HIS HIS HIS B B 425 425 . 33.032 35.346 -16.258 1.00 22.60 1 .  
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ATOM 6470 ND1 ND1 . HIS HIS HIS B B 425 425 . 34.122 36.150 -15.998 1.00 26.06 1 .  
.  
ATOM 6471 CE1 CE1 . HIS HIS HIS B B 425 425 . 35.169 35.400 -15.712 1.00 25.44 1 .  
.  
ATOM 6472 NE2 NE2 . HIS HIS HIS B B 425 425 . 34.788 34.136 -15.742 1.00 27.17 1 .  
.  
ATOM 6473 CD2 CD2 . HIS HIS HIS B B 425 425 . 33.445 34.072 -16.059 1.00 24.69 1 .  
.  
ATOM 6474 C C . HIS HIS HIS B B 425 425 . 30.011 37.705 -16.007 1.00 19.98 1 .  
.  
ATOM 6475 O O . HIS HIS HIS B B 425 425 . 30.327 38.717 -16.667 1.00 21.62 1 .  
.  
ATOM 6476 N N . ASN ASN ASN B B 426 426 . 28.758 37.374 -15.675 1.00 19.59 1 .  
.  
ATOM 6477 CA CA . ASN ASN ASN B B 426 426 . 27.554 38.208 -16.060 1.00 21.25 1 .  
.  
ATOM 6478 CB CB . ASN ASN ASN B B 426 426 . 26.394 37.259 -16.415 1.00 22.56 1 .  
.  
ATOM 6479 CG CG . ASN ASN ASN B B 426 426 . 26.737 36.369 -17.606 1.00 28.58 1 .  
.  
ATOM 6480 OD1 OD1 . ASN ASN ASN B B 426 426 . 26.982 36.872 -18.706 1.00 36.13 1 .  
.  
ATOM 6481 ND2 ND2 . ASN ASN ASN B B 426 426 . 26.856 35.051 -17.375 1.00 35.17 1 .  
.  
ATOM 6482 C C . ASN ASN ASN B B 426 426 . 27.109 39.261 -15.023 1.00 17.88 1 .  
.  
ATOM 6483 O O . ASN ASN ASN B B 426 426 . 25.949 39.702 -14.979 1.00 19.22 1 .  
.  
ATOM 6484 N N . PHE PHE PHE B B 427 427 . 28.026 39.594 -14.112 1.00 16.48 1 .  
.  
ATOM 6485 CA CA . PHE PHE PHE B B 427 427 . 27.712 40.538 -13.028 1.00 15.72 1 .  
.  
ATOM 6486 CB CB . PHE PHE PHE B B 427 427 . 28.909 40.723 -12.109 1.00 16.70 1 .  
.  
ATOM 6487 CG CG . PHE PHE PHE B B 427 427 . 29.997 41.615 -12.674 1.00 17.18 1 .  
.  
ATOM 6488 CD1 CD1 . PHE PHE PHE B B 427 427 . 30.951 41.106 -13.548 1.00 19.15 1 .  
.  
ATOM 6489 CE1 CE1 . PHE PHE PHE B B 427 427 . 31.973 41.941 -14.052 1.00 21.75 1 .  
.  
ATOM 6490 CZ CZ . PHE PHE PHE B B 427 427 . 32.023 43.297 -13.641 1.00 18.81 1 .  
.  
ATOM 6491 CE2 CE2 . PHE PHE PHE B B 427 427 . 31.084 43.800 -12.744 1.00 19.80 1 .  
.  
ATOM 6492 CD2 CD2 . PHE PHE PHE B B 427 427 . 30.072 42.959 -12.257 1.00 16.99 1 .  
.  
ATOM 6493 C C . PHE PHE PHE B B 427 427 . 27.150 41.878 -13.537 1.00 16.54 1 .  
.  
ATOM 6494 O O . PHE PHE PHE B B 427 427 . 26.297 42.440 -12.860 1.00 17.15 1 .  
.  
ATOM 6495 N N . ARG ARG ARG B B 428 428 . 27.581 42.332 -14.729 1.00 16.75 1 .  
.  
ATOM 6496 CA CA . ARG ARG ARG B B 428 428 . 27.058 43.602 -15.264 1.00 18.71 1 .  
.  
ATOM 6497 CB CB . ARG ARG ARG B B 428 428 . 27.998 44.132 -16.351 1.00 17.61 1 .  
.  
ATOM 6498 CG CG . ARG ARG ARG B B 428 428 . 29.356 44.585 -15.723 1.00 16.27 1 .  
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ATOM 6589 O O . HOH HOH HOH S . 36 36 . 38.622 60.189 -2.792 1.00 17.77 1 .  
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ATOM 6590 O O . HOH HOH HOH S . 37 37 . 37.844 28.031 17.069 1.00 19.10 1 .  
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ATOM 6591 O O . HOH HOH HOH S . 38 38 . 29.508 49.451 46.640 1.00 17.82 1 .  
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ATOM 6592 O O . HOH HOH HOH S . 39 39 . 0.867 43.290 10.084 1.00 23.21 1 .  
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ATOM 6593 O O . HOH HOH HOH S . 40 40 . 20.349 24.662 27.590 1.00 17.94 1 .  
.  
ATOM 6594 O O . HOH HOH HOH S . 41 41 . 46.727 36.906 27.384 1.00 15.61 1 .  
.  
ATOM 6595 O O . HOH HOH HOH S . 42 42 . 27.634 47.636 -16.099 1.00 21.58 1 .  
.  
ATOM 6596 O O . HOH HOH HOH S . 43 43 . 34.518 39.473 38.787 1.00 17.23 1 .  
.  
ATOM 6597 O O . HOH HOH HOH S . 44 44 . 25.368 64.607 20.256 1.00 17.74 1 .  
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ATOM 6598 O O . HOH HOH HOH S . 45 45 . 31.432 50.415 -7.414 1.00 14.62 1 .  
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ATOM 6599 O O . HOH HOH HOH S . 46 46 . 38.550 31.357 12.582 1.00 17.50 1 .  
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ATOM 6600 O O . HOH HOH HOH S . 47 47 . 39.898 25.902 21.049 1.00 16.49 1 .  
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ATOM 6601 O O . HOH HOH HOH S . 48 48 . 43.364 42.133 8.682 1.00 20.76 1 .  
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ATOM 6602 O O . HOH HOH HOH S . 49 49 . 23.122 36.648 22.481 1.00 21.29 1 .  
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ATOM 6603 O O . HOH HOH HOH S . 50 50 . 23.569 48.681 5.058 1.00 16.94 1 .  
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ATOM 6604 O O . HOH HOH HOH S . 51 51 . 30.043 69.355 -6.281 1.00 17.15 1 .  
.  
ATOM 6605 O O . HOH HOH HOH S . 52 52 . 27.740 22.976 5.602 1.00 16.67 1 .  
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ATOM 6606 O O . HOH HOH HOH S . 53 53 . 18.933 61.647 -2.200 1.00 19.24 1 .  
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ATOM 6607 O O . HOH HOH HOH S . 54 54 . 39.553 22.928 3.918 1.00 16.12 1 .  
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ATOM 6608 O O . HOH HOH HOH S . 55 55 . 30.685 61.824 -7.730 1.00 15.17 1 .  
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ATOM 6609 O O . HOH HOH HOH S . 56 56 . 26.615 56.446 12.840 1.00 19.95 1 .  
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ATOM 6610 O O . HOH HOH HOH S . 57 57 . 34.464 33.937 23.690 1.00 16.76 1 .  
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ATOM 6611 O O . HOH HOH HOH S . 58 58 . 37.183 52.053 12.157 1.00 17.00 1 .  
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ATOM 6612 O O . HOH HOH HOH S . 59 59 . 30.256 56.442 11.614 1.00 19.45 1 .  
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ATOM 6613 O O . HOH HOH HOH S . 60 60 . 41.043 34.092 13.024 1.00 20.93 1 .  
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ATOM 6614 O O . HOH HOH HOH S . 61 61 . 28.719 18.389 6.254 1.00 24.14 1 .  
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ATOM 6615 O O . HOH HOH HOH S . 62 62 . 15.556 54.488 23.257 1.00 21.40 1 .  
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ATOM 6616 O O . HOH HOH HOH S . 63 63 . 32.680 34.779 21.688 1.00 17.29 1 .  
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ATOM 6617 O O . HOH HOH HOH S . 64 64 . 24.119 68.318 -10.267 1.00 18.00 1 .  
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ATOM 6618 O O . HOH HOH HOH S . 65 65 . 26.313 65.610 -19.546 1.00 19.54 1 .  
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ATOM 6649 O O . HOH HOH HOH S . 96 96 . 30.238 65.829 -22.282 1.00 21.11 1 .  
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ATOM 6650 O O . HOH HOH HOH S . 97 97 . 47.951 27.681 27.848 1.00 18.89 1 .  
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ATOM 6651 O O . HOH HOH HOH S . 98 98 . 35.260 15.202 9.563 1.00 20.17 1 .  
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ATOM 6652 O O . HOH HOH HOH S . 99 99 . 24.768 40.038 15.383 1.00 20.27 1 .  
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ATOM 6653 O O . HOH HOH HOH S . 100 100 . 30.015 50.162 42.569 1.00 24.17 1 .  
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ATOM 6654 O O . HOH HOH HOH S . 101 101 . 19.489 32.321 16.934 1.00 22.89 1 .  
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ATOM 6655 O O . HOH HOH HOH S . 102 102 . 45.452 43.589 9.998 1.00 22.01 1 .  
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ATOM 6656 O O . HOH HOH HOH S . 103 103 . 21.848 21.396 32.770 1.00 22.83 1 .  
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ATOM 6657 O O . HOH HOH HOH S . 104 104 . 3.897 47.749 -1.142 1.00 26.51 1 .  
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ATOM 6658 O O . HOH HOH HOH S . 105 105 . -0.015 49.013 11.486 1.00 23.18 1 .  
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ATOM 6659 O O . HOH HOH HOH S . 106 106 . 38.333 70.053 -15.202 1.00 20.80 1 .  
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ATOM 6660 O O . HOH HOH HOH S . 107 107 . 30.632 65.685 -1.515 1.00 22.48 1 .  
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ATOM 6661 O O . HOH HOH HOH S . 108 108 . 1.713 49.154 0.046 1.00 21.98 1 .  
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ATOM 6662 O O . HOH HOH HOH S . 109 109 . 36.833 76.756 -12.008 1.00 18.24 1 .  
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ATOM 6663 O O . HOH HOH HOH S . 110 110 . 21.944 57.135 11.916 1.00 16.60 1 .  
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ATOM 6664 O O . HOH HOH HOH S . 111 111 . 26.768 47.963 -18.416 1.00 32.73 1 .  
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ATOM 6665 O O . HOH HOH HOH S . 112 112 . 40.361 46.418 -18.159 1.00 24.36 1 .  
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ATOM 6666 O O . HOH HOH HOH S . 113 113 . 34.211 57.104 -28.410 1.00 24.86 1 .  
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ATOM 6667 O O . HOH HOH HOH S . 114 114 . 23.298 63.552 21.781 1.00 19.57 1 .  
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ATOM 6668 O O . HOH HOH HOH S . 115 115 . 14.526 36.107 6.239 1.00 24.36 1 .  
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ATOM 6669 O O . HOH HOH HOH S . 116 116 . 39.654 53.945 6.455 1.00 22.06 1 .  
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ATOM 6670 O O . HOH HOH HOH S . 117 117 . 19.782 54.229 -20.940 1.00 29.10 1 .  
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ATOM 6671 O O . HOH HOH HOH S . 118 118 . 41.980 52.152 -21.973 1.00 20.75 1 .  
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ATOM 6672 O O . HOH HOH HOH S . 119 119 . 50.083 34.724 27.530 1.00 21.47 1 .  
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ATOM 6673 O O . HOH HOH HOH S . 120 120 . -0.131 64.087 2.604 1.00 25.80 1 .  
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ATOM 6674 O O . HOH HOH HOH S . 121 121 . 50.264 33.384 30.398 1.00 20.87 1 .  
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ATOM 6675 O O . HOH HOH HOH S . 122 122 . 46.925 60.060 -5.377 1.00 22.82 1 .  
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ATOM 6676 O O . HOH HOH HOH S . 123 123 . 31.710 64.230 23.374 1.00 31.03 1 .  
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ATOM 6677 O O . HOH HOH HOH S . 124 124 . 38.854 53.935 -24.039 1.00 35.60 1 .  
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ATOM 6678 O O . HOH HOH HOH S . 125 125 . 40.663 54.126 12.409 1.00 23.21 1 .  
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ATOM 6679 O O . HOH HOH HOH S . 126 126 . 19.762 25.379 8.381 1.00 24.46 1 .  
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ATOM 6680 O O . HOH HOH HOH S . 127 127 . 30.493 32.910 20.085 1.00 20.79 1 .  
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ATOM 6681 O O . HOH HOH HOH S . 128 128 . 30.660 59.531 18.524 1.00 24.73 1 .  
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ATOM 6682 O O . HOH HOH HOH S . 129 129 . 22.831 16.866 10.389 1.00 21.67 1 .  
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ATOM 6683 O O . HOH HOH HOH S . 130 130 . 9.791 63.211 3.465 1.00 23.18 1 .  
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ATOM 6684 O O . HOH HOH HOH S . 131 131 . 43.887 21.351 13.701 1.00 27.71 1 .  
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ATOM 6685 O O . HOH HOH HOH S . 132 132 . 22.457 70.667 -10.760 1.00 27.50 1 .  
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ATOM 6686 O O . HOH HOH HOH S . 133 133 . 47.250 49.556 6.303 1.00 22.03 1 .  
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ATOM 6687 O O . HOH HOH HOH S . 134 134 . 4.960 40.134 10.815 1.00 21.72 1 .  
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ATOM 6688 O O . HOH HOH HOH S . 135 135 . 13.542 25.374 21.858 1.00 19.10 1 .  
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ATOM 6689 O O . HOH HOH HOH S . 136 136 . 20.004 41.840 10.098 1.00 27.20 1 .  
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ATOM 6690 O O . HOH HOH HOH S . 137 137 . 16.878 31.773 22.514 1.00 26.06 1 .  
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ATOM 6691 O O . HOH HOH HOH S . 138 138 . 26.008 23.977 3.933 1.00 26.70 1 .  
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ATOM 6692 O O . HOH HOH HOH S . 139 139 . 23.632 48.862 8.998 1.00 18.31 1 .  
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ATOM 6693 O O . HOH HOH HOH S . 140 140 . 47.185 51.631 39.985 1.00 25.84 1 .  
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ATOM 6694 O O . HOH HOH HOH S . 141 141 . 53.556 56.138 -4.291 1.00 27.41 1 .  
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ATOM 6695 O O . HOH HOH HOH S . 142 142 . 39.288 49.955 4.455 1.00 25.77 1 .  
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ATOM 6696 O O . HOH HOH HOH S . 143 143 . 25.418 55.318 25.198 1.00 19.86 1 .  
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ATOM 6697 O O . HOH HOH HOH S . 144 144 . 31.456 63.055 -1.681 1.00 23.24 1 .  
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ATOM 6698 O O . HOH HOH HOH S . 145 145 . 33.740 49.411 -0.589 1.00 19.09 1 .  
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ATOM 6699 O O . HOH HOH HOH S . 146 146 . 27.727 50.133 41.008 1.00 23.28 1 .  
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ATOM 6700 O O . HOH HOH HOH S . 147 147 . 32.708 28.310 3.322 1.00 27.89 1 .  
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ATOM 6701 O O . HOH HOH HOH S . 148 148 . 16.981 35.784 4.905 1.00 29.66 1 .  
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ATOM 6702 O O . HOH HOH HOH S . 149 149 . 18.580 54.806 23.172 1.00 23.95 1 .  
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ATOM 6703 O O . HOH HOH HOH S . 150 150 . 25.854 33.775 13.433 1.00 32.01 1 .  
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ATOM 6704 O O . HOH HOH HOH S . 151 151 . 15.983 16.072 11.100 1.00 23.92 1 .  
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ATOM 6705 O O . HOH HOH HOH S . 152 152 . 29.650 58.356 10.092 1.00 27.21 1 .  
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ATOM 6706 O O . HOH HOH HOH S . 153 153 . 26.718 72.233 -6.181 1.00 31.70 1 .  
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ATOM 6707 O O . HOH HOH HOH S . 154 154 . 5.606 39.724 -0.674 1.00 24.82 1 .  
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ATOM 6708 O O . HOH HOH HOH S . 155 155 . 45.418 31.107 -3.041 1.00 27.41 1 .  
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ATOM 6709 O O . HOH HOH HOH S . 156 156 . 37.227 50.546 -21.872 1.00 23.03 1 .  
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ATOM 6710 O O . HOH HOH HOH S . 157 157 . 15.043 40.884 12.973 1.00 22.87 1 .  
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ATOM 6711 O O . HOH HOH HOH S . 158 158 . 32.977 11.474 13.428 1.00 24.19 1 .  
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ATOM 6712 O O . HOH HOH HOH S . 159 159 . 46.508 56.099 6.969 1.00 24.54 1 .  
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ATOM 6713 O O . HOH HOH HOH S . 160 160 . 30.146 52.892 -24.706 1.00 28.85 1 .  
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ATOM 6714 O O . HOH HOH HOH S . 161 161 . -4.369 52.887 7.006 1.00 25.44 1 .  
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ATOM 6715 O O . HOH HOH HOH S . 162 162 . 48.779 27.379 20.382 1.00 33.64 1 .  
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ATOM 6716 O O . HOH HOH HOH S . 163 163 . 32.441 37.313 39.624 1.00 26.05 1 .  
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ATOM 6717 O O . HOH HOH HOH S . 164 164 . 2.173 60.999 15.223 1.00 24.64 1 .  
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ATOM 6718 O O . HOH HOH HOH S . 165 165 . 7.916 48.938 -1.707 1.00 28.09 1 .  
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ATOM 6719 O O . HOH HOH HOH S . 166 166 . 57.074 46.803 23.580 1.00 29.24 1 .  
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ATOM 6720 O O . HOH HOH HOH S . 167 167 . 13.148 64.672 18.072 1.00 29.00 1 .  
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ATOM 6721 O O . HOH HOH HOH S . 168 168 . 28.012 32.255 38.357 1.00 27.36 1 .  
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ATOM 6722 O O . HOH HOH HOH S . 169 169 . 23.659 50.218 39.415 1.00 30.87 1 .  
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ATOM 6723 O O . HOH HOH HOH S . 170 170 . 51.521 58.359 1.870 1.00 27.12 1 .  
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ATOM 6724 O O . HOH HOH HOH S . 171 171 . 39.764 20.929 2.114 1.00 25.21 1 .  
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ATOM 6725 O O . HOH HOH HOH S . 172 172 . 23.135 9.120 21.750 1.00 30.28 1 .  
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ATOM 6726 O O . HOH HOH HOH S . 173 173 . 34.583 27.403 -0.351 1.00 24.87 1 .  
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ATOM 6727 O O . HOH HOH HOH S . 174 174 . 51.942 40.036 23.537 1.00 23.20 1 .  
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ATOM 6728 O O . HOH HOH HOH S . 175 175 . -1.022 54.664 18.029 1.00 30.54 1 .  
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ATOM 6729 O O . HOH HOH HOH S . 176 176 . 51.809 37.079 0.526 1.00 25.45 1 .  
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ATOM 6730 O O . HOH HOH HOH S . 177 177 . 47.642 63.653 -0.974 1.00 28.80 1 .  
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ATOM 6731 O O . HOH HOH HOH S . 178 178 . 47.794 58.566 -9.490 1.00 33.22 1 .  
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ATOM 6732 O O . HOH HOH HOH S . 179 179 . 34.230 58.953 13.380 1.00 30.69 1 .  
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ATOM 6733 O O . HOH HOH HOH S . 180 180 . 11.713 38.438 8.455 1.00 25.27 1 .  
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ATOM 6734 O O . HOH HOH HOH S . 181 181 . 53.227 52.251 4.475 1.00 25.39 1 .  
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ATOM 6735 O O . HOH HOH HOH S . 182 182 . 14.890 32.975 24.197 1.00 27.41 1 .  
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ATOM 6736 O O . HOH HOH HOH S . 183 183 . 50.190 39.142 21.678 1.00 22.30 1 .  
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ATOM 6737 O O . HOH HOH HOH S . 184 184 . 32.763 68.438 -4.675 1.00 38.71 1 .  
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ATOM 6738 O O . HOH HOH HOH S . 185 185 . 22.425 65.365 23.720 1.00 27.41 1 .  
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ATOM 6739 O O . HOH HOH HOH S . 186 186 . 50.724 34.861 45.435 1.00 32.92 1 .  
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ATOM 6740 O O . HOH HOH HOH S . 187 187 . 14.446 68.266 12.899 1.00 40.38 1 .  
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ATOM 6741 O O . HOH HOH HOH S . 188 188 . 24.488 57.526 26.771 1.00 28.32 1 .  
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ATOM 6742 O O . HOH HOH HOH S . 189 189 . 50.026 32.515 24.124 1.00 27.16 1 .  
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ATOM 6743 O O . HOH HOH HOH S . 190 190 . 21.500 55.807 -19.772 1.00 20.01 1 .  
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ATOM 6744 O O . HOH HOH HOH S . 191 191 . 30.790 58.091 39.373 1.00 36.21 1 .  
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ATOM 6745 O O . HOH HOH HOH S . 192 192 . 24.978 58.443 29.295 1.00 27.17 1 .  
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ATOM 6746 O O . HOH HOH HOH S . 193 193 . 45.003 43.938 20.799 1.00 24.30 1 .  
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ATOM 6747 O O . HOH HOH HOH S . 194 194 . 19.787 67.559 -7.996 1.00 31.50 1 .  
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ATOM 6748 O O . HOH HOH HOH S . 195 195 . 11.255 62.441 1.177 1.00 25.63 1 .  
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ATOM 6749 O O . HOH HOH HOH S . 196 196 . 45.930 41.762 44.473 1.00 30.87 1 .  
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ATOM 6750 O O . HOH HOH HOH S . 197 197 . 41.625 64.450 20.616 1.00 35.40 1 .  
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ATOM 6751 O O . HOH HOH HOH S . 198 198 . 23.302 54.974 23.611 1.00 28.80 1 .  
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ATOM 6752 O O . HOH HOH HOH S . 199 199 . 33.496 44.122 45.087 1.00 29.09 1 .  
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ATOM 6753 O O . HOH HOH HOH S . 200 200 . 48.502 55.070 5.807 1.00 34.21 1 .  
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ATOM 6754 O O . HOH HOH HOH S . 201 201 . 31.498 26.152 -4.706 1.00 34.95 1 .  
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ATOM 6755 O O . HOH HOH HOH S . 202 202 . 20.320 35.801 9.108 1.00 31.49 1 .  
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ATOM 6756 O O . HOH HOH HOH S . 203 203 . 41.874 57.861 35.566 1.00 25.92 1 .  
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ATOM 6757 O O . HOH HOH HOH S . 204 204 . 25.480 64.891 2.479 1.00 31.04 1 .  
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ATOM 6758 O O . HOH HOH HOH S . 205 205 . 20.850 45.216 14.836 1.00 40.79 1 .  
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ATOM 6759 O O . HOH HOH HOH S . 206 206 . 27.697 52.798 -21.328 1.00 22.05 1 .  
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ATOM 6760 O O . HOH HOH HOH S . 207 207 . 19.696 42.719 47.330 1.00 37.86 1 .  
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ATOM 6761 O O . HOH HOH HOH S . 208 208 . 49.296 50.398 -23.993 1.00 27.76 1 .  
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ATOM 6762 O O . HOH HOH HOH S . 209 209 . 25.545 29.145 -6.845 1.00 35.15 1 .  
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ATOM 6763 O O . HOH HOH HOH S . 210 210 . 48.769 64.600 20.907 1.00 26.08 1 .  
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ATOM 6764 O O . HOH HOH HOH S . 211 211 . 27.116 26.845 3.252 1.00 34.09 1 .  
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ATOM 6765 O O . HOH HOH HOH S . 212 212 . 22.160 66.628 11.454 1.00 31.88 1 .  
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ATOM 6766 O O . HOH HOH HOH S . 213 213 . 24.061 68.762 1.435 1.00 33.07 1 .  
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ATOM 6767 O O . HOH HOH HOH S . 214 214 . 42.070 31.666 5.689 1.00 32.97 1 .  
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ATOM 6768 O O . HOH HOH HOH S . 215 215 . 14.866 67.364 15.144 1.00 35.34 1 .  
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ATOM 6769 O O . HOH HOH HOH S . 216 216 . 39.957 14.359 14.092 1.00 33.44 1 .  
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ATOM 6770 O O . HOH HOH HOH S . 217 217 . 45.200 38.391 45.372 1.00 28.24 1 .  
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ATOM 6771 O O . HOH HOH HOH S . 218 218 . 33.402 60.599 15.764 1.00 37.22 1 .  
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ATOM 6772 O O . HOH HOH HOH S . 219 219 . 15.140 64.529 -13.183 1.00 33.41 1 .  
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ATOM 6773 O O . HOH HOH HOH S . 220 220 . 29.307 41.141 -16.944 1.00 30.01 1 .  
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ATOM 6774 O O . HOH HOH HOH S . 221 221 . 55.304 28.012 27.858 1.00 37.72 1 .  
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ATOM 6775 O O . HOH HOH HOH S . 222 222 . 35.116 26.906 -2.713 1.00 27.18 1 .  
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ATOM 6776 O O . HOH HOH HOH S . 223 223 . 17.192 15.793 21.523 1.00 27.54 1 .  
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ATOM 6777 O O . HOH HOH HOH S . 224 224 . 43.799 29.478 16.455 1.00 26.07 1 .  
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ATOM 6778 O O . HOH HOH HOH S . 225 225 . 17.821 40.664 38.220 1.00 38.37 1 .  
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ATOM 6779 O O . HOH HOH HOH S . 226 226 . 13.110 30.588 14.020 1.00 33.40 1 .  
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ATOM 6780 O O . HOH HOH HOH S . 227 227 . 25.332 23.728 32.206 1.00 29.91 1 .  
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ATOM 6781 O O . HOH HOH HOH S . 228 228 . 26.008 12.084 6.636 1.00 27.83 1 .  
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ATOM 6782 O O . HOH HOH HOH S . 229 229 . -3.288 46.613 5.526 1.00 27.28 1 .  
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ATOM 6783 O O . HOH HOH HOH S . 230 230 . 12.294 59.010 -4.193 1.00 32.02 1 .  
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ATOM 6784 O O . HOH HOH HOH S . 231 231 . 58.411 44.256 18.288 1.00 27.65 1 .  
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ATOM 6785 O O . HOH HOH HOH S . 232 232 . 19.024 37.852 24.965 1.00 30.78 1 .  
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ATOM 6786 O O . HOH HOH HOH S . 233 233 . 44.219 31.950 -12.516 1.00 35.69 1 .  
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ATOM 6787 O O . HOH HOH HOH S . 234 234 . 36.773 17.101 26.883 1.00 26.12 1 .  
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ATOM 6788 O O . HOH HOH HOH S . 235 235 . 22.275 23.690 -0.266 1.00 37.59 1 .  
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ATOM 6789 O O . HOH HOH HOH S . 236 236 . 56.889 42.476 42.365 1.00 43.72 1 .  
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ATOM 6790 O O . HOH HOH HOH S . 237 237 . 45.219 23.601 21.413 1.00 28.41 1 .  
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ATOM 6791 O O . HOH HOH HOH S . 238 238 . 11.978 46.319 22.103 1.00 27.62 1 .  
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ATOM 6792 O O . HOH HOH HOH S . 239 239 . 20.337 68.577 15.217 1.00 31.39 1 .  
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ATOM 6793 O O . HOH HOH HOH S . 240 240 . 49.401 56.960 -10.441 1.00 29.86 1 .  
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ATOM 6794 O O . HOH HOH HOH S . 241 241 . 4.887 64.056 18.090 1.00 36.31 1 .  
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ATOM 6795 O O . HOH HOH HOH S . 242 242 . 42.499 53.960 6.668 1.00 31.00 1 .  
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ATOM 6796 O O . HOH HOH HOH S . 243 243 . 24.376 60.498 27.957 1.00 26.48 1 .  
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ATOM 6797 O O . HOH HOH HOH S . 244 244 . 46.811 62.270 -17.357 1.00 32.27 1 .  
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ATOM 6798 O O . HOH HOH HOH S . 245 245 . 0.288 41.882 14.220 1.00 30.40 1 .  
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ATOM 6799 O O . HOH HOH HOH S . 246 246 . 44.236 24.330 18.946 1.00 28.38 1 .  
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ATOM 6800 O O . HOH HOH HOH S . 247 247 . 24.770 12.880 29.253 1.00 31.18 1 .  
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ATOM 6801 O O . HOH HOH HOH S . 248 248 . 42.349 49.625 -23.124 1.00 29.48 1 .  
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ATOM 6802 O O . HOH HOH HOH S . 249 249 . 35.893 15.367 25.133 1.00 24.57 1 .  
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ATOM 6803 O O . HOH HOH HOH S . 250 250 . 19.417 67.285 -11.344 1.00 35.84 1 .  
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ATOM 6804 O O . HOH HOH HOH S . 251 251 . 19.962 39.980 20.047 1.00 31.79 1 .  
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ATOM 6805 O O . HOH HOH HOH S . 252 252 . 49.283 51.903 -21.284 1.00 36.76 1 .  
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ATOM 6806 O O . HOH HOH HOH S . 253 253 . 25.781 29.814 -11.339 1.00 34.71 1 .  
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ATOM 6807 O O . HOH HOH HOH S . 254 254 . 39.815 40.240 40.989 1.00 30.91 1 .  
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ATOM 6808 O O . HOH HOH HOH S . 255 255 . 17.462 35.820 24.251 1.00 25.35 1 .  
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ATOM 6809 O O . HOH HOH HOH S . 256 256 . 57.779 54.364 21.510 1.00 34.71 1 .  
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ATOM 6810 O O . HOH HOH HOH S . 257 257 . 36.690 74.058 -4.755 1.00 34.76 1 .  
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ATOM 6811 O O . HOH HOH HOH S . 258 258 . 37.396 28.729 -8.429 1.00 33.11 1 .  
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ATOM 6812 O O . HOH HOH HOH S . 259 259 . 42.399 32.398 14.300 1.00 30.70 1 .  
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ATOM 6813 O O . HOH HOH HOH S . 260 260 . 15.570 59.791 22.186 1.00 30.78 1 .  
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ATOM 6814 O O . HOH HOH HOH S . 261 261 . 2.607 50.146 21.185 1.00 37.56 1 .  
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ATOM 6815 O O . HOH HOH HOH S . 262 262 . 18.534 48.005 41.151 1.00 60.42 1 .  
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ATOM 6816 O O . HOH HOH HOH S . 263 263 . 48.070 43.879 -15.427 1.00 42.51 1 .  
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ATOM 6817 O O . HOH HOH HOH S . 264 264 . 19.209 66.499 -18.398 1.00 23.62 1 .  
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ATOM 6818 O O . HOH HOH HOH S . 265 265 . 44.595 64.484 -21.626 1.00 39.99 1 .  
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ATOM 6819 O O . HOH HOH HOH S . 266 266 . 14.820 15.683 28.542 1.00 31.27 1 .  
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ATOM 6820 O O . HOH HOH HOH S . 267 267 . 62.950 43.262 26.029 1.00 38.72 1 .  
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ATOM 6821 O O . HOH HOH HOH S . 268 268 . 46.166 71.141 -15.928 1.00 34.84 1 .  
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ATOM 6822 O O . HOH HOH HOH S . 269 269 . 55.468 30.616 25.611 1.00 28.54 1 .  
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ATOM 6823 O O . HOH HOH HOH S . 270 270 . 19.229 22.340 32.811 1.00 33.31 1 .  
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ATOM 6824 O O . HOH HOH HOH S . 271 271 . 50.040 53.443 -19.827 1.00 39.54 1 .  
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ATOM 6825 O O . HOH HOH HOH S . 272 272 . 23.246 26.151 -3.402 1.00 33.26 1 .  
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ATOM 6826 O O . HOH HOH HOH S . 273 273 . 18.495 30.541 39.472 1.00 35.80 1 .  
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ATOM 6827 O O . HOH HOH HOH S . 274 274 . 55.956 53.055 -2.869 1.00 63.31 1 .  
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ATOM 6828 O O . HOH HOH HOH S . 275 275 . 48.472 33.539 -11.461 1.00 36.35 1 .  
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ATOM 7099 O O . HOH HOH HOH S . 546 546 . 47.241 73.217 2.792 1.00 50.02 1 .  
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ATOM 7100 O O . HOH HOH HOH S . 547 547 . 49.035 70.426 -12.935 1.00 51.24 1 .  
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ATOM 7101 O O . HOH HOH HOH S . 548 548 . 48.088 64.062 -15.988 1.00 48.98 1 .  
.  
ATOM 7102 O O . HOH HOH HOH S . 549 549 . 34.271 67.187 -19.911 1.00 25.34 1 .  
.  
ATOM 7103 O O . HOH HOH HOH S . 550 550 . 45.432 57.694 -21.785 1.00 33.86 1 .  
.  
ATOM 7104 O O . HOH HOH HOH S . 551 551 . 45.491 54.211 -23.068 1.00 40.58 1 .  
.  
ATOM 7105 O O . HOH HOH HOH S . 552 552 . 48.173 59.760 -18.004 1.00 59.13 1 .  
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ATOM 7106 O O . HOH HOH HOH S . 553 553 . 38.557 59.760 -21.786 1.00 40.37 1 .  
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ATOM 7107 O O . HOH HOH HOH S . 554 554 . 42.625 45.903 -18.620 1.00 32.97 1 .  
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ATOM 7108 O O . HOH HOH HOH S . 555 555 . 27.532 56.630 -23.576 1.00 17.10 1 .  
.  
ATOM 7109 O O . HOH HOH HOH S . 556 556 . 26.708 60.676 -24.493 1.00 32.51 1 .  
.  
ATOM 7110 O O . HOH HOH HOH S . 557 557 . 25.881 54.805 -22.170 1.00 25.45 1 .  
.  
ATOM 7111 O O . HOH HOH HOH S . 558 558 . 27.152 56.751 -26.245 1.00 39.79 1 .  
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ATOM 7112 O O . HOH HOH HOH S . 559 559 . 35.992 47.429 -21.766 1.00 34.13 1 .  
.  
ATOM 7113 O O . HOH HOH HOH S . 560 560 . 34.559 46.078 -20.082 1.00 31.04 1 .  
.  
ATOM 7114 O O . HOH HOH HOH S . 561 561 . 33.598 44.196 -18.081 1.00 40.20 1 .  
.  
ATOM 7115 O O . HOH HOH HOH S . 562 562 . 15.612 60.188 -18.187 1.00 35.10 1 .  
.  
ATOM 7116 O O . HOH HOH HOH S . 563 563 . 19.377 58.086 -22.883 1.00 34.24 1 .  
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ATOM 7117 O O . HOH HOH HOH S . 564 564 . 25.322 63.679 -22.964 1.00 40.12 1 .  
.  
ATOM 7118 O O . HOH HOH HOH S . 565 565 . 23.485 65.887 -22.390 1.00 40.21 1 .  
.  
ATOM 7119 O O . HOH HOH HOH S . 566 566 . 10.510 61.787 -1.021 1.00 39.19 1 .  
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ATOM 7120 O O . HOH HOH HOH S . 567 567 . 13.216 61.437 -5.409 1.00 33.84 1 .  
.  
ATOM 7121 O O . HOH HOH HOH S . 568 568 . 7.826 47.067 -7.807 1.00 44.82 1 .  
.  
ATOM 7122 O O . HOH HOH HOH S . 569 569 . 11.020 52.852 -10.737 1.00 39.15 1 .  
.  
ATOM 7123 O O . HOH HOH HOH S . 570 570 . 12.475 54.923 -17.463 1.00 40.39 1 .  
.  
ATOM 7124 O O . HOH HOH HOH S . 571 571 . 17.327 54.387 -21.703 1.00 31.52 1 .  
.  
ATOM 7125 O O . HOH HOH HOH S . 572 572 . 22.563 51.721 -21.720 1.00 46.61 1 .  
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ATOM 7126 O O . HOH HOH HOH S . 573 573 . 20.954 44.778 -12.210 1.00 28.88 1 .  
.  
ATOM 7127 O O . HOH HOH HOH S . 574 574 . 20.868 45.240 -14.310 1.00 41.23 1 .  
.  
ATOM 7128 O O . HOH HOH HOH S . 575 575 . 20.728 42.302 -16.731 1.00 29.05 1 .  
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ATOM 7129 O O . HOH HOH HOH S . 576 576 . 16.451 33.418 -17.457 1.00 43.54 1 .  
.  
ATOM 7130 O O . HOH HOH HOH S . 577 577 . 23.983 35.999 18.469 1.00 31.69 1 .  
.  
ATOM 7131 O O . HOH HOH HOH S . 578 578 . 38.889 58.071 2.657 1.00 35.93 1 .  
.  
ATOM 7132 O O . HOH HOH HOH S . 579 579 . 17.898 41.101 25.054 1.00 37.42 1 .  
.  
ATOM 7133 O O . HOH HOH HOH S . 580 580 . 36.442 64.655 -19.519 1.00 37.90 1 .  
.  
ATOM 7134 O O . HOH HOH HOH S . 581 581 . 25.242 33.924 15.267 1.00 38.21 1 .  
.  
ATOM 7135 O O . HOH HOH HOH S . 582 582 . 45.006 33.860 44.572 1.00 31.89 1 .  
.  
ATOM 7136 O O . HOH HOH HOH S . 583 583 . 37.780 20.634 0.077 1.00 38.53 1 .  
.  
ATOM 7137 O O . HOH HOH HOH S . 584 584 . 26.743 30.736 40.712 1.00 35.24 1 .  
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ATOM 7138 O O . HOH HOH HOH S . 585 585 . 21.308 34.686 11.390 1.00 27.05 1 .  
.  
ATOM 7139 O O . HOH HOH HOH S . 586 586 . 51.525 50.902 13.139 1.00 36.44 1 .  
.  
ATOM 7140 O O . HOH HOH HOH S . 587 587 . 38.774 47.173 42.896 1.00 32.69 1 .  
.  
ATOM 7141 O O . HOH HOH HOH S . 588 588 . 20.113 66.326 22.057 1.00 39.61 1 .  
.  
ATOM 7142 O O . HOH HOH HOH S . 589 589 . 10.577 35.080 -5.647 1.00 45.79 1 .  
.  
ATOM 7143 O O . HOH HOH HOH S . 590 590 . 17.894 65.692 -5.991 1.00 39.90 1 .  
.  
ATOM 7144 O O . HOH HOH HOH S . 591 591 . 51.457 46.821 -15.088 1.00 50.59 1 .  
.  
ATOM 7145 O O . HOH HOH HOH S . 592 592 . 17.159 51.179 -22.624 1.00 45.53 1 .  
.  
ATOM 7146 O O . HOH HOH HOH S . 593 593 . 39.268 14.801 12.144 1.00 32.21 1 .  
.  
ATOM 7147 O O . HOH HOH HOH S . 594 594 . 18.567 32.544 4.497 1.00 37.01 1 .  
.  
ATOM 7148 O O . HOH HOH HOH S . 595 595 . 28.878 59.666 33.728 1.00 39.10 1 .  
.  
ATOM 7149 O O . HOH HOH HOH S . 596 596 . 21.610 38.028 9.419 1.00 40.13 1 .  
.  
ATOM 7150 O O . HOH HOH HOH S . 597 597 . 24.260 67.156 6.776 1.00 53.55 1 .  
.  
ATOM 7151 O O . HOH HOH HOH S . 598 598 . 20.340 59.593 27.228 1.00 44.07 1 .  
.  
ATOM 7152 O O . HOH HOH HOH S . 599 599 . 19.167 33.519 22.225 1.00 28.53 1 .  
.  
ATOM 7153 O O . HOH HOH HOH S . 600 600 . 19.170 41.437 17.759 1.00 36.53 1 .  
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ATOM 7154 O O . HOH HOH HOH S . 601 601 . 18.871 51.755 25.270 1.00 35.77 1 .  
.  
ATOM 7155 O O . HOH HOH HOH S . 602 602 . 6.582 33.723 9.190 1.00 34.82 1 .  
.  
ATOM 7156 O O . HOH HOH HOH S . 603 603 . 16.756 42.581 -12.909 1.00 54.99 1 .  
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ATOM 7157 O O . HOH HOH HOH S . 604 604 . 17.705 32.543 8.930 1.00 42.45 1 .  
.  
ATOM 7158 O O . HOH HOH HOH S . 605 605 . 12.699 37.587 10.957 1.00 39.82 1 .  
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ATOM 7189 O O . HOH HOH HOH S . 636 636 . 27.845 60.752 30.653 1.00 45.34 1 .  
.  
ATOM 7190 O O . HOH HOH HOH S . 637 637 . 47.532 63.481 30.865 1.00 45.36 1 .  
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ATOM 7191 O O . HOH HOH HOH S . 638 638 . 32.916 65.382 30.190 1.00 47.40 1 .  
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ATOM 7192 O O . HOH HOH HOH S . 639 639 . 32.149 65.837 27.215 1.00 43.62 1 .  
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ATOM 7193 O O . HOH HOH HOH S . 640 640 . 69.982 31.996 34.070 1.00 40.15 1 .  
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ATOM 7194 O O . HOH HOH HOH S . 641 641 . 49.394 52.769 42.533 1.00 50.95 1 .  
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ATOM 7195 O O . HOH HOH HOH S . 642 642 . 56.870 51.224 42.409 1.00 49.47 1 .  
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ATOM 7196 O O . HOH HOH HOH S . 643 643 . 29.846 23.689 39.132 1.00 46.89 1 .  
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ATOM 7197 O O . HOH HOH HOH S . 644 644 . 26.378 71.450 16.920 1.00 56.90 1 .  
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ATOM 7198 O O . HOH HOH HOH S . 645 645 . 25.198 67.349 27.144 1.00 45.56 1 .  
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ATOM 7199 O O . HOH HOH HOH S . 646 646 . 8.399 32.043 -3.445 1.00 47.26 1 .  
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ATOM 7200 O O . HOH HOH HOH S . 647 647 . 52.114 41.300 -10.660 1.00 48.74 1 .  
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ATOM 7201 O O . HOH HOH HOH S . 648 648 . 39.693 58.697 -25.463 1.00 43.74 1 .  
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ATOM 7202 O O . HOH HOH HOH S . 649 649 . 12.708 62.496 -13.596 1.00 54.52 1 .  
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ATOM 7203 O O . HOH HOH HOH S . 650 650 . 12.142 44.299 -11.006 1.00 46.88 1 .  
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ATOM 7204 O O . HOH HOH HOH S . 651 651 . 18.447 45.889 -17.729 1.00 37.94 1 .  
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ATOM 7205 O O . HOH HOH HOH S . 652 652 . 50.848 33.637 18.353 1.00 39.53 1 .  
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ATOM 7206 O O . HOH HOH HOH S . 653 653 . 53.204 32.542 17.629 1.00 60.65 1 .  
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ATOM 7207 O O . HOH HOH HOH S . 654 654 . 40.766 54.530 10.321 1.00 38.40 1 .  
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ATOM 7208 O O . HOH HOH HOH S . 655 655 . 45.624 27.791 -3.596 1.00 42.88 1 .  
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ATOM 7209 O O . HOH HOH HOH S . 656 656 . 35.855 40.726 47.237 1.00 42.10 1 .  
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ATOM 7210 O O . HOH HOH HOH S . 657 657 . 7.111 56.536 -2.658 1.00 50.73 1 .  
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ATOM 7211 O O . HOH HOH HOH S . 658 658 . 49.931 62.015 25.412 1.00 56.18 1 .  
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ATOM 7212 O O . HOH HOH HOH S . 659 659 . 17.271 34.043 37.011 1.00 35.31 1 .  
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ATOM 7213 O O . HOH HOH HOH S . 660 660 . 48.903 51.444 7.579 1.00 55.15 1 .  
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ATOM 7214 O O . HOH HOH HOH S . 661 661 . 29.343 15.403 6.838 1.00 46.73 1 .  
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ATOM 7215 O O . HOH HOH HOH S . 662 662 . 46.416 43.519 11.895 1.00 41.31 1 .  
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ATOM 7216 O O . HOH HOH HOH S . 663 663 . 28.269 40.378 -19.307 1.00 33.27 1 .  
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ATOM 7217 O O . HOH HOH HOH S . 664 664 . 48.131 63.733 9.720 1.00 52.14 1 .  
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ATOM 7218 O O . HOH HOH HOH S . 665 665 . 38.693 56.728 8.473 1.00 53.20 1 .  
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ATOM 7219 O O . HOH HOH HOH S . 666 666 . 29.534 62.872 -24.757 1.00 45.84 1 .  
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ATOM 7220 O O . HOH HOH HOH S . 667 667 . 53.249 55.451 14.149 1.00 42.48 1 .  
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ATOM 7221 O O . HOH HOH HOH S . 668 668 . 30.046 66.810 1.217 1.00 40.11 1 .  
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ATOM 7222 O O . HOH HOH HOH S . 669 669 . 20.072 67.349 -21.274 1.00 41.89 1 .  
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ATOM 7223 O O . HOH HOH HOH S . 670 670 . 30.433 60.518 11.357 1.00 45.59 1 .  
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ATOM 7224 O O . HOH HOH HOH S . 671 671 . 50.060 42.674 -14.044 1.00 39.10 1 .  
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ATOM 7225 O O . HOH HOH HOH S . 672 672 . 48.777 65.485 12.692 1.00 47.92 1 .  
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ATOM 7226 O O . HOH HOH HOH S . 673 673 . 26.003 23.285 1.229 1.00 55.56 1 .  
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ATOM 7227 O O . HOH HOH HOH S . 674 674 . 17.208 69.153 10.268 1.00 39.48 1 .  
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ATOM 7228 O O . HOH HOH HOH S . 675 675 . 38.928 14.031 7.289 1.00 50.09 1 .  
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ATOM 7229 O O . HOH HOH HOH S . 676 676 . 16.783 65.764 -16.007 1.00 55.51 1 .  
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ATOM 7230 O O . HOH HOH HOH S . 677 677 . 69.604 37.970 26.872 1.00 50.95 1 .  
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ATOM 7231 O O . HOH HOH HOH S . 678 678 . 18.852 9.779 26.770 1.00 49.15 1 .  
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ATOM 7232 O O . HOH HOH HOH S . 679 679 . 29.280 62.681 30.749 1.00 42.83 1 .  
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ATOM 7233 O O . HOH HOH HOH S . 680 680 . 51.258 38.885 6.570 1.00 44.30 1 .  
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ATOM 7234 O O . HOH HOH HOH S . 681 681 . 18.906 71.371 -13.338 1.00 45.66 1 .  
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ATOM 7235 O O . HOH HOH HOH S . 682 682 . 20.713 17.729 8.872 1.00 67.69 1 .  
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ATOM 7236 O O . HOH HOH HOH S . 683 683 . 21.629 69.169 20.663 1.00 52.94 1 .  
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ATOM 7237 O O . HOH HOH HOH S . 684 684 . 3.392 66.389 17.745 1.00 43.33 1 .  
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ATOM 7238 O O . HOH HOH HOH S . 685 685 . 53.352 64.461 -1.805 1.00 55.61 1 .  
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ATOM 7239 O O . HOH HOH HOH S . 686 686 . 12.056 16.706 24.440 1.00 48.64 1 .  
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ATOM 7240 O O . HOH HOH HOH S . 687 687 . 32.364 18.491 32.804 1.00 47.31 1 .  
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ATOM 7241 O O . HOH HOH HOH S . 688 688 . 40.298 29.812 -15.499 1.00 58.23 1 .  
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ATOM 7242 O O . HOH HOH HOH S . 689 689 . 16.998 13.380 31.138 1.00 42.56 1 .  
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ATOM 7243 O O . HOH HOH HOH S . 690 690 . 40.532 74.537 -1.129 1.00 69.25 1 .  
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ATOM 7244 O O . HOH HOH HOH S . 691 691 . 45.472 20.935 31.433 1.00 45.78 1 .  
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ATOM 7245 O O . HOH HOH HOH S . 692 692 . 42.204 69.145 0.629 1.00 57.83 1 .  
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ATOM 7246 O O . HOH HOH HOH S . 693 693 . 31.562 13.668 30.872 1.00 51.57 1 .  
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ATOM 7247 O O . HOH HOH HOH S . 694 694 . 1.157 40.044 12.242 1.00 60.76 1 .  
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ATOM 7248 O O . HOH HOH HOH S . 695 695 . 4.007 56.439 21.733 1.00 54.96 1 .  
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ATOM 7249 O O . HOH HOH HOH S . 696 696 . 18.080 48.740 -22.140 1.00 41.44 1 .  
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ATOM 7250 O O . HOH HOH HOH S . 697 697 . 28.913 29.706 -11.900 1.00 53.65 1 .  
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ATOM 7251 O O . HOH HOH HOH S . 698 698 . 29.848 37.984 41.528 1.00 51.45 1 .  
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ATOM 7252 O O . HOH HOH HOH S . 699 699 . 5.514 29.261 8.117 1.00 46.50 1 .  
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ATOM 7253 O O . HOH HOH HOH S . 700 700 . 0.129 37.484 3.947 1.00 52.19 1 .  
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ATOM 7254 O O . HOH HOH HOH S . 701 701 . 3.052 37.117 -1.093 1.00 48.42 1 .  
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ATOM 7255 O O . HOH HOH HOH S . 702 702 . 10.639 43.234 -12.797 1.00 55.65 1 .  
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ATOM 7256 O O . HOH HOH HOH S . 703 703 . 8.036 57.122 23.874 1.00 54.13 1 .  
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ATOM 7257 O O . HOH HOH HOH S . 704 704 . 31.680 64.266 4.162 1.00 45.13 1 .  
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ATOM 7258 O O . HOH HOH HOH S . 705 705 . 47.925 21.453 35.974 1.00 44.26 1 .  
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ATOM 7259 O O . HOH HOH HOH S . 706 706 . 17.900 21.956 -3.837 1.00 43.93 1 .  
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ATOM 7260 O O . HOH HOH HOH S . 707 707 . 15.996 51.994 36.150 1.00 86.62 1 .  
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ATOM 7261 O O . HOH HOH HOH S . 708 708 . 55.898 42.499 -1.761 1.00 35.33 1 .  
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ATOM 7262 O O . HOH HOH HOH S . 709 709 . 37.583 65.726 -21.084 1.00 75.79 1 .  
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ATOM 7263 O O . HOH HOH HOH S . 710 710 . 50.636 66.862 19.651 1.00 52.53 1 .  
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ATOM 7264 O O . HOH HOH HOH S . 711 711 . 56.630 53.898 34.217 1.00 59.78 1 .  
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ATOM 7265 O O . HOH HOH HOH S . 712 712 . 16.791 32.021 17.444 1.00 47.53 1 .  
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ATOM 7266 O O . HOH HOH HOH S . 713 713 . 11.921 60.461 -11.490 1.00 51.65 1 .  
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ATOM 7267 O O . HOH HOH HOH S . 714 714 . 45.212 70.472 0.074 1.00 50.26 1 .  
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ATOM 7268 O O . HOH HOH HOH S . 715 715 . 12.588 52.245 -20.925 1.00 53.36 1 .  
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ATOM 7269 O O . HOH HOH HOH S . 716 716 . 20.796 45.972 44.535 1.00 48.86 1 .  
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ATOM 7270 O O . HOH HOH HOH S . 717 717 . 38.516 37.021 -15.611 1.00 52.76 1 .  
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ATOM 7271 O O . HOH HOH HOH S . 718 718 . 37.695 56.887 -26.972 1.00 51.47 1 .  
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ATOM 7272 O O . HOH HOH HOH S . 719 719 . 46.705 73.237 -12.425 1.00 48.48 1 .  
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ATOM 7273 O O . HOH HOH HOH S . 720 720 . -0.627 61.096 2.318 1.00 48.33 1 .  
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ATOM 7274 O O . HOH HOH HOH S . 721 721 . 8.606 49.309 -4.168 1.00 59.50 1 .  
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ATOM 7275 O O . HOH HOH HOH S . 722 722 . 15.939 19.332 5.811 1.00 45.51 1 .  
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ATOM 7276 O O . HOH HOH HOH S . 723 723 . 8.088 34.530 11.646 1.00 45.75 1 .  
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ATOM 7277 O O . HOH HOH HOH S . 724 724 . 55.316 58.338 -5.040 1.00 44.14 1 .  
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ATOM 7278 O O . HOH HOH HOH S . 725 725 . 60.664 54.029 21.284 1.00 48.93 1 .  
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ATOM 7279 O O . HOH HOH HOH S . 726 726 . 24.048 51.309 47.679 1.00 48.39 1 .  
.ATOM 7280 O O . HOH HOH HOH S . 727 727 . 40.223 62.142 -20.878 1.00 44.55 1 .  
.ATOM 7281 O O . HOH HOH HOH S . 728 728 . 13.587 70.805 7.575 1.00 49.54 1 .  
.ATOM 7282 O O . HOH HOH HOH S . 729 729 . 8.968 64.655 19.131 1.00 45.51 1 .  
.ATOM 7283 O O . HOH HOH HOH S . 730 730 . 49.564 31.100 18.895 1.00 58.65 1 .  
.ATOM 7284 O O . HOH HOH HOH S . 731 731 . 15.618 23.273 7.022 1.00 72.12 1 .  
.ATOM 7285 O O . HOH HOH HOH S . 732 732 . 37.587 60.592 16.003 1.00 45.65 1 .  
.ATOM 7286 O O . HOH HOH HOH S . 733 733 . 51.621 33.023 47.518 1.00 40.65 1 .  
.ATOM 7287 O O . HOH HOH HOH S . 734 734 . 61.518 29.537 26.686 1.00 55.65 1 .  
.ATOM 7288 O O . HOH HOH HOH S . 735 735 . 53.585 21.728 27.614 1.00 55.89 1 .  
.ATOM 7289 O O . HOH HOH HOH S . 736 736 . 8.039 44.749 24.497 1.00 53.93 1 .  
.ATOM 7290 O O . HOH HOH HOH S . 737 737 . 47.970 57.903 -21.828 1.00 69.07 1 .  
.ATOM 7291 O O . HOH HOH HOH S . 738 738 . 54.878 28.565 23.882 1.00 46.08 1 .  
.ATOM 7292 O O . HOH HOH HOH S . 739 739 . 44.594 43.972 -18.010 1.00 68.15 1 .  
.ATOM 7293 O O . HOH HOH HOH S . 740 740 . 7.935 38.772 20.548 1.00 44.36 1 .  
.ATOM 7294 O O . HOH HOH HOH S . 741 741 . 43.686 45.644 -20.925 1.00 56.27 1 .  
.ATOM 7295 O O . HOH HOH HOH S . 742 742 . 23.096 21.651 35.108 1.00 54.95 1 .  
.ATOM 7296 O O . HOH HOH HOH S . 743 743 . 60.647 34.747 34.841 1.00 36.10 1 .  
.ATOM 7297 O O . HOH HOH HOH S . 744 744 . 20.653 69.903 -8.602 1.00 43.33 1 .  
.ATOM 7298 O O . HOH HOH HOH S . 745 745 . 55.568 23.941 27.968 1.00 48.03 1 .  
.ATOM 7299 O O . HOH HOH HOH S . 746 746 . 57.007 32.310 43.753 1.00 44.48 1 .  
.ATOM 7300 O O . HOH HOH HOH S . 747 747 . 44.122 80.500 -11.325 1.00 55.73 1 .  
.ATOM 7301 O O . HOH HOH HOH S . 748 748 . 49.693 35.256 15.986 1.00 49.75 1 .  
.ATOM 7302 O O . HOH HOH HOH S . 749 749 . 15.718 39.496 21.478 1.00 48.67 1 .  
.ATOM 7303 O O . HOH HOH HOH S . 750 750 . 3.685 41.907 -3.904 1.00 52.52 1 .  
.ATOM 7304 O O . HOH HOH HOH S . 751 751 . 17.255 38.018 7.444 1.00 42.94 1 .  
.ATOM 7305 O O . HOH HOH HOH S . 752 752 . 7.811 26.555 25.650 1.00 60.23 1 .  
.ATOM 7306 O O . HOH HOH HOH S . 753 753 . 1.785 61.707 19.032 1.00 50.61 1 .  
.ATOM 7307 O O . HOH HOH HOH S . 754 754 . 44.526 34.642 48.914 1.00 64.15 1 .  
.ATOM 7308 O O . HOH HOH HOH S . 755 755 . 49.488 68.932 -14.943 1.00 50.71 1 .  
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ATOM 7339 O O . HOH HOH HOH S . 786 786 . 49.980 66.780 -10.899 1.00 54.60 1 .  
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ATOM 7340 O O . HOH HOH HOH S . 787 787 . 23.607 64.659 28.290 1.00 58.55 1 .  
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ATOM 7341 O O . HOH HOH HOH S . 788 788 . 56.170 55.979 32.816 1.00 53.54 1 .  
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ATOM 7342 O O . HOH HOH HOH S . 789 789 . 57.552 27.840 38.118 1.00 42.88 1 .  
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ATOM 7343 O O . HOH HOH HOH S . 790 790 . 18.252 70.719 7.425 1.00 56.02 1 .  
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ATOM 7344 O O . HOH HOH HOH S . 791 791 . 28.722 31.618 -13.153 1.00 60.76 1 .  
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ATOM 7345 O O . HOH HOH HOH S . 792 792 . 35.674 36.823 48.652 1.00 56.46 1 .  
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ATOM 7346 O O . HOH HOH HOH S . 793 793 . 9.777 64.382 23.026 1.00 59.45 1 .  
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ATOM 7347 O O . HOH HOH HOH S . 794 794 . 22.030 23.766 36.482 1.00 45.66 1 .  
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ATOM 7348 O O . HOH HOH HOH S . 795 795 . 16.955 70.717 17.020 1.00 45.81 1 .  
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ATOM 7349 O O . HOH HOH HOH S . 796 796 . 15.051 8.515 23.256 1.00 90.28 1 .  
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ATOM 7350 O O . HOH HOH HOH S . 797 797 . 8.544 31.900 7.129 1.00 41.69 1 .  
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ATOM 7351 O O . HOH HOH HOH S . 798 798 . -1.613 48.025 -1.684 1.00 58.06 1 .  
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ATOM 7352 O O . HOH HOH HOH S . 799 799 . 31.248 38.681 48.239 1.00 53.25 1 .  
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ATOM 7353 O O . HOH HOH HOH S . 800 800 . 32.575 66.196 1.013 1.00 61.54 1 .  
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ATOM 7354 O O . HOH HOH HOH S . 801 801 . 47.889 29.437 6.991 1.00 72.91 1 .  
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ATOM 7355 O O . HOH HOH HOH S . 802 802 . 23.084 48.976 42.790 1.00 61.50 1 .  
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ATOM 7356 O O . HOH HOH HOH S . 803 803 . 54.315 58.084 40.021 1.00 76.44 1 .  
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ATOM 7357 O O . HOH HOH HOH S . 804 804 . 36.472 12.205 5.699 1.00 50.84 1 .  
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ATOM 7358 O O . HOH HOH HOH S . 805 805 . 10.102 34.388 34.970 1.00 50.11 1 .  
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0.0026 1 .
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0.0180 1 .
5  C  C  . SER SER SER A A 1 1 . 0.3150 0.3446 0.3620 -0.0047 0.0133
0.0127 1 .
6  O  O  . SER SER SER A A 1 1 . 0.2987 0.3874 0.3813 -0.0016 0.0410
0.0303 1 .
7  N  N  . ILE ILE ILE A A 2 2 . 0.3101 0.2865 0.3076 -0.0155 0.0137
0.0169 1 .
8  CA CA . ILE ILE ILE A A 2 2 . 0.2513 0.2345 0.2821 -0.0065 0.0090
0.0051 1 .
9  CB CB . ILE ILE ILE A A 2 2 . 0.2385 0.2225 0.2389 0.0007 -0.0004
0.0129 1 .
10 CG1 CG1 . ILE ILE ILE A A 2 2 . 0.2050 0.2234 0.2863 -0.0015 -0.0278
0.0071 1 .
11 CD CD . ILE ILE ILE A A 2 2 . 0.2180 0.2488 0.2399 0.0236 -0.0871
0.0593 1 .
12 CG2 CG2 . ILE ILE ILE A A 2 2 . 0.2395 0.1958 0.2471 -0.0062 0.0155
0.0269 1 .
13 C  C  . ILE ILE ILE A A 2 2 . 0.2349 0.2349 0.2755 -0.0088 0.0093
0.0214 1 .
14 O  O  . ILE ILE ILE A A 2 2 . 0.2639 0.2425 0.3241 -0.0132 0.0100
0.0161 1 .
15 N  N  . GLU GLU GLU A A 3 3 . 0.2250 0.2214 0.2622 -0.0112 -0.0226
0.0168 1 .
16 CA CA . GLU GLU GLU A A 3 3 . 0.2298 0.2261 0.2646 -0.0170 -0.0016
0.0101 1 .
17 CB CB . GLU GLU GLU A A 3 3 . 0.2406 0.2412 0.2981 0.0001 -0.0013
0.0053 1 .
18 CG CG . GLU GLU GLU A A 3 3 . 0.2113 0.3360 0.4158 -0.0187 0.0033
0.0128 1 .
19 CD CD . GLU GLU GLU A A 3 3 . 0.4105 0.4734 0.5655 0.0365 0.0236
0.0227 1 .
20 OE1 OE1 . GLU GLU GLU A A 3 3 . 0.4574 0.5176 0.5694 0.0576 0.0655
0.0412 1 .
21 OE2 OE2 . GLU GLU GLU A A 3 3 . 0.4053 0.5728 0.6309 0.0258 0.0481 -
0.0247 1 .
22 C  C  . GLU GLU GLU A A 3 3 . 0.2335 0.2124 0.2659 -0.0156 -0.0100 -
0.0079 1 .
23 O  O  . GLU GLU GLU A A 3 3 . 0.2486 0.2156 0.2961 -0.0109 -0.0154 -
0.0189 1 .
24 N  N  . LYS LYS LYS A A 4 4 . 0.2005 0.1765 0.2412 -0.0377 -0.0011
0.0120 1 .
25 CA CA . LYS LYS LYS A A 4 4 . 0.1965 0.1809 0.2050 -0.0264 -0.0250 -
0.0006 1 .
26 CB CB . LYS LYS LYS A A 4 4 . 0.2147 0.1948 0.2031 -0.0109 -0.0173
0.0227 1 .
27 CG CG . LYS LYS LYS A A 4 4 . 0.2728 0.2536 0.2013 -0.0478 -0.0163
0.0421 1 .
28 CD CD . LYS LYS LYS A A 4 4 . 0.3327 0.3818 0.2190 -0.0419 -0.0679
0.0366 1 .

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1049	CB	CB	. ILE ILE ILE A A 143 143 .	0.2559	0.2907	0.1895	-0.0238	-0.0183	
0.0075	1	.							
1050	CG1	CG1	. ILE ILE ILE A A 143 143 .	0.3515	0.2295	0.2706	-0.0171	0.0011	
0.0637	1	.							
1051	CD	CD	. ILE ILE ILE A A 143 143 .	0.3937	0.3544	0.3450	0.0271	0.0039	-
0.0392	1	.							
1052	CG2	CG2	. ILE ILE ILE A A 143 143 .	0.2830	0.3032	0.2217	-0.0276	-0.0036	
0.0111	1	.							
1053	C	C	. ILE ILE ILE A A 143 143 .	0.2210	0.1953	0.1720	-0.0023	0.0142	
0.0189	1	.							
1054	O	O	. ILE ILE ILE A A 143 143 .	0.2019	0.2055	0.1763	0.0027	-0.0002	
0.0451	1	.							
1055	N	N	. LEU LEU LEU A A 144 144 .	0.1732	0.1722	0.1218	-0.0234	0.0177	
0.0200	1	.							
1056	CA	CA	. LEU LEU LEU A A 144 144 .	0.1436	0.1613	0.1191	-0.0107	0.0134	-
0.0001	1	.							
1057	CB	CB	. LEU LEU LEU A A 144 144 .	0.1613	0.1301	0.1393	0.0002	-0.0239	
0.0069	1	.							
1058	CG	CG	. LEU LEU LEU A A 144 144 .	0.1526	0.2391	0.1250	-0.0019	0.0086	-
0.0125	1	.							
1059	CD1	CD1	. LEU LEU LEU A A 144 144 .	0.2364	0.2152	0.1453	0.0522	0.0035	
0.0065	1	.							
1060	CD2	CD2	. LEU LEU LEU A A 144 144 .	0.2148	0.2602	0.1759	-0.0631	-0.0417	
0.0221	1	.							
1061	C	C	. LEU LEU LEU A A 144 144 .	0.1604	0.1646	0.1399	-0.0141	0.0117	-
0.0123	1	.							
1062	O	O	. LEU LEU LEU A A 144 144 .	0.1676	0.1890	0.1367	-0.0258	0.0289	-
0.0401	1	.							
1063	N	N	. PRO PRO PRO A A 145 145 .	0.1701	0.1663	0.1169	-0.0056	0.0063	-
0.0194	1	.							
1064	CA	CA	. PRO PRO PRO A A 145 145 .	0.1721	0.1579	0.1196	-0.0124	0.0022	-
0.0298	1	.							
1065	CB	CB	. PRO PRO PRO A A 145 145 .	0.2017	0.1510	0.0727	0.0028	-0.0268	-
0.0597	1	.							
1066	CG	CG	. PRO PRO PRO A A 145 145 .	0.1220	0.1560	0.1133	-0.0265	-0.0220	-
0.0135	1	.							
1067	CD	CD	. PRO PRO PRO A A 145 145 .	0.1495	0.1698	0.1040	-0.0280	0.0063	-
0.0309	1	.							
1068	C	C	. PRO PRO PRO A A 145 145 .	0.1735	0.1602	0.1058	-0.0140	0.0073	-
0.0252	1	.							
1069	O	O	. PRO PRO PRO A A 145 145 .	0.1733	0.1435	0.1126	-0.0196	-0.0021	-
0.0285	1	.							
1070	N	N	. VAL VAL VAL A A 146 146 .	0.1741	0.1643	0.0861	-0.0542	0.0080	-
0.0274	1	.							
1071	CA	CA	. VAL VAL VAL A A 146 146 .	0.1768	0.1739	0.1172	-0.0319	0.0139	-
0.0239	1	.							
1072	CB	CB	. VAL VAL VAL A A 146 146 .	0.1860	0.2046	0.1075	-0.0358	0.0077	-
0.0140	1	.							
1073	CG1	CG1	. VAL VAL VAL A A 146 146 .	0.1796	0.1950	0.1916	-0.0646	-0.0131	-
0.0461	1	.							
1074	CG2	CG2	. VAL VAL VAL A A 146 146 .	0.2194	0.1893	0.1268	-0.0063	0.0283	-
0.0640	1	.							
1075	C	C	. VAL VAL VAL A A 146 146 .	0.1881	0.1579	0.1128	-0.0065	0.0054	-
0.0179	1	.							
1076	O	O	. VAL VAL VAL A A 146 146 .	0.2243	0.1912	0.0912	-0.0109	0.0086	-
0.0438	1	.							
1077	N	N	. PRO PRO PRO A A 147 147 .	0.1929	0.1537	0.1228	-0.0050	0.0183	-
0.0205	1	.							
1078	CA	CA	. PRO PRO PRO A A 147 147 .	0.1637	0.1765	0.1398	-0.0165	0.0354	-
0.0137	1	.							





1139	N	N	. SER SER SER A A 156 156 .	0.2837	0.2979	0.2956	-0.0188	0.0113	-
0.0221	1	.							
1140	CA	CA	. SER SER SER A A 156 156 .	0.3027	0.3222	0.3261	0.0094	-0.0016	-
0.0300	1	.							
1141	CB	CB	. SER SER SER A A 156 156 .	0.2948	0.3056	0.3576	0.0266	0.0025	-
0.0112	1	.							
1142	OG	OG	. SER SER SER A A 156 156 .	0.2323	0.4296	0.3704	-0.0082	-0.0199	-
0.0324	1	.							
1143	C	C	. SER SER SER A A 156 156 .	0.2838	0.2978	0.2971	0.0045	0.0059	-
0.0341	1	.							
1144	O	O	. SER SER SER A A 156 156 .	0.3164	0.3393	0.2901	-0.0017	-0.0163	-
0.0649	1	.							
1145	N	N	. HIS HIS HIS A A 157 157 .	0.2554	0.2764	0.2763	0.0033	0.0308	-
0.0205	1	.							
1146	CA	CA	. HIS HIS HIS A A 157 157 .	0.2473	0.2636	0.2569	-0.0033	0.0253	-
0.0178	1	.							
1147	CB	CB	. HIS HIS HIS A A 157 157 .	0.2563	0.2755	0.2680	-0.0061	0.0432	-
0.0173	1	.							
1148	CG	CG	. HIS HIS HIS A A 157 157 .	0.2037	0.2651	0.2749	-0.0448	0.0234	-
0.0170	1	.							
1149	ND1	ND1	. HIS HIS HIS A A 157 157 .	0.2681	0.2687	0.2599	-0.0472	0.0252	-
0.0106	1	.							
1150	CE1	CE1	. HIS HIS HIS A A 157 157 .	0.2688	0.2640	0.3486	-0.0668	0.0340	-
0.0033	1	.							
1151	NE2	NE2	. HIS HIS HIS A A 157 157 .	0.2257	0.2661	0.3008	-0.0828	0.0068	-
0.0254	1	.							
1152	CD2	CD2	. HIS HIS HIS A A 157 157 .	0.2028	0.2889	0.3501	-0.0722	0.0235	-
0.0059	1	.							
1153	C	C	. HIS HIS HIS A A 157 157 .	0.2394	0.2949	0.2413	-0.0133	0.0319	-
0.0032	1	.							
1154	O	O	. HIS HIS HIS A A 157 157 .	0.1994	0.2586	0.2421	-0.0151	0.0276	-
0.0055	1	.							
1155	N	N	. ALA ALA ALA A A 158 158 .	0.2448	0.2864	0.2556	-0.0325	-0.0044	-
0.0079	1	.							
1156	CA	CA	. ALA ALA ALA A A 158 158 .	0.2470	0.2904	0.2678	-0.0361	0.0339	-
0.0203	1	.							
1157	CB	CB	. ALA ALA ALA A A 158 158 .	0.2703	0.2681	0.2965	-0.0122	0.0232	-
0.0010	1	.							
1158	C	C	. ALA ALA ALA A A 158 158 .	0.2393	0.2946	0.2745	-0.0212	0.0308	-
0.0299	1	.							
1159	O	O	. ALA ALA ALA A A 158 158 .	0.2400	0.3407	0.2953	-0.0244	0.0552	-
0.0472	1	.							
1160	N	N	. GLY GLY GLY A A 159 159 .	0.2559	0.3132	0.2985	-0.0394	0.0454	-
0.0402	1	.							
1161	CA	CA	. GLY GLY GLY A A 159 159 .	0.2987	0.3565	0.3207	-0.0601	0.0471	-
0.0303	1	.							
1162	C	C	. GLY GLY GLY A A 159 159 .	0.3267	0.3496	0.3310	-0.0519	0.0304	-
0.0169	1	.							
1163	O	O	. GLY GLY GLY A A 159 159 .	0.3497	0.4119	0.3920	-0.0357	0.0321	-
0.0261	1	.							
1164	N	N	. ASN ASN ASN A A 160 160 .	0.3074	0.3728	0.3610	-0.0658	0.0294	-
0.0315	1	.							
1165	CA	CA	. ASN ASN ASN A A 160 160 .	0.2967	0.3460	0.3321	-0.0564	0.0271	-
0.0392	1	.							
1166	CB	CB	. ASN ASN ASN A A 160 160 .	0.2767	0.3325	0.3143	-0.0441	0.0326	-
0.0537	1	.							
1167	CG	CG	. ASN ASN ASN A A 160 160 .	0.3017	0.3045	0.3701	-0.0477	0.0320	-
0.0482	1	.							
1168	OD1	OD1	. ASN ASN ASN A A 160 160 .	0.2195	0.3064	0.2808	-0.0460	0.0228	-
0.0355	1	.							











1289	C	C	. SER SER SER A A 176 176 .	0.1971	0.2120	0.1782	-0.0039	0.0316	-
0.0287	1	.							
1290	O	O	. SER SER SER A A 176 176 .	0.2136	0.1996	0.1442	-0.0101	0.0255	-
0.0092	1	.							
1291	N	N	. PHE PHE PHE A A 177 177 .	0.1997	0.1791	0.1643	0.0005	0.0574	-
0.0128	1	.							
1292	CA	CA	. PHE PHE PHE A A 177 177 .	0.2049	0.1286	0.1310	0.0099	0.0246	-
0.0116	1	.							
1293	CB	CB	. PHE PHE PHE A A 177 177 .	0.1905	0.1418	0.1407	-0.0024	0.0290	-
0.0236	1	.							
1294	CG	CG	. PHE PHE PHE A A 177 177 .	0.1385	0.1302	0.1192	-0.0072	0.0334	-
0.0077	1	.							
1295	CD1	CD1	. PHE PHE PHE A A 177 177 .	0.1167	0.1232	0.1300	0.0006	0.0261	-
0.0092	1	.							
1296	CE1	CE1	. PHE PHE PHE A A 177 177 .	0.2040	0.0953	0.1349	-0.0121	0.0251	-
0.0335	1	.							
1297	CZ	CZ	. PHE PHE PHE A A 177 177 .	0.2205	0.1753	0.1304	-0.0220	0.0150	-
0.0334	1	.							
1298	CE2	CE2	. PHE PHE PHE A A 177 177 .	0.2159	0.1573	0.1786	-0.0191	0.0432	-
0.0256	1	.							
1299	CD2	CD2	. PHE PHE PHE A A 177 177 .	0.1758	0.1019	0.1420	-0.0181	0.0119	-
0.0131	1	.							
1300	C	C	. PHE PHE PHE A A 177 177 .	0.1785	0.1685	0.1443	0.0023	0.0030	-
0.0175	1	.							
1301	O	O	. PHE PHE PHE A A 177 177 .	0.2008	0.1660	0.1444	-0.0198	0.0080	-
0.0046	1	.							
1302	N	N	. ARG ARG ARG A A 178 178 .	0.2060	0.1794	0.1645	-0.0063	-0.0066	-
0.0199	1	.							
1303	CA	CA	. ARG ARG ARG A A 178 178 .	0.2106	0.1837	0.1561	-0.0095	0.0009	-
0.0154	1	.							
1304	CB	CB	. ARG ARG ARG A A 178 178 .	0.2125	0.2097	0.1829	-0.0236	-0.0196	-
0.0617	1	.							
1305	CG	CG	. ARG ARG ARG A A 178 178 .	0.3406	0.3296	0.2954	-0.0338	0.0045	-
0.0639	1	.							
1306	CD	CD	. ARG ARG ARG A A 178 178 .	0.4637	0.3985	0.2899	0.0426	0.0365	-
0.0627	1	.							
1307	NE	NE	. ARG ARG ARG A A 178 178 .	0.4042	0.5294	0.4854	0.0630	0.0133	-
0.0490	1	.							
1308	CZ	CZ	. ARG ARG ARG A A 178 178 .	0.5077	0.5574	0.5002	0.0872	0.0063	-
0.0649	1	.							
1309	NH1	NH1	. ARG ARG ARG A A 178 178 .	0.6421	0.5765	0.5539	0.0908	-0.0463	-
0.0559	1	.							
1310	NH2	NH2	. ARG ARG ARG A A 178 178 .	0.3338	0.5382	0.4953	0.0848	0.0921	-
0.1083	1	.							
1311	C	C	. ARG ARG ARG A A 178 178 .	0.1968	0.1872	0.1437	-0.0117	0.0099	-
0.0317	1	.							
1312	O	O	. ARG ARG ARG A A 178 178 .	0.2204	0.1740	0.1339	-0.0082	0.0201	-
0.0297	1	.							
1313	N	N	. ASP ASP ASP A A 179 179 .	0.2070	0.1868	0.1526	-0.0017	0.0148	-
0.0497	1	.							
1314	CA	CA	. ASP ASP ASP A A 179 179 .	0.2254	0.2064	0.1616	-0.0062	0.0197	-
0.0597	1	.							
1315	CB	CB	. ASP ASP ASP A A 179 179 .	0.2589	0.2035	0.1725	-0.0193	0.0081	-
0.0887	1	.							
1316	CG	CG	. ASP ASP ASP A A 179 179 .	0.2822	0.2152	0.2309	-0.0035	0.0181	-
0.0474	1	.							
1317	OD1	OD1	. ASP ASP ASP A A 179 179 .	0.3555	0.2449	0.2775	0.0120	-0.0093	-
0.0370	1	.							
1318	OD2	OD2	. ASP ASP ASP A A 179 179 .	0.3389	0.2390	0.2399	0.0107	0.0627	-
0.0600	1	.							

1319	C	C	. ASP ASP ASP A A 179 179 .	0.2250	0.1944	0.1532	-0.0101	0.0109	-
0.0457	1	.							
1320	O	O	. ASP ASP ASP A A 179 179 .	0.2153	0.1618	0.1449	-0.0142	0.0151	-
0.0368	1	.							
1321	N	N	. ALA ALA ALA A A 180 180 .	0.2084	0.1600	0.1324	-0.0113	0.0097	-
0.0459	1	.							
1322	CA	CA	. ALA ALA ALA A A 180 180 .	0.1951	0.1820	0.1014	-0.0101	0.0089	-
0.0365	1	.							
1323	CB	CB	. ALA ALA ALA A A 180 180 .	0.1944	0.1868	0.1339	-0.0148	0.0164	-
0.0303	1	.							
1324	C	C	. ALA ALA ALA A A 180 180 .	0.1832	0.1761	0.1261	-0.0078	0.0169	-
0.0092	1	.							
1325	O	O	. ALA ALA ALA A A 180 180 .	0.2090	0.1758	0.1325	-0.0148	0.0315	-
0.0464	1	.							
1326	N	N	. MET MET MET A A 181 181 .	0.1852	0.1524	0.1271	-0.0199	0.0107	-
0.0188	1	.							
1327	CA	CA	. MET MET MET A A 181 181 .	0.1959	0.1543	0.1195	-0.0283	-0.0073	-
0.0185	1	.							
1328	CB	CB	. MET MET MET A A 181 181 .	0.1667	0.1459	0.1380	-0.0389	-0.0174	-
0.0137	1	.							
1329	CG	CG	. MET MET MET A A 181 181 .	0.1922	0.1323	0.1678	-0.0175	0.0282	-
0.0253	1	.							
1330	SD	SD	. MET MET MET A A 181 181 .	0.2164	0.1758	0.1760	-0.0292	0.0038	-
0.0371	1	.							
1331	CE	CE	. MET MET MET A A 181 181 .	0.2566	0.1616	0.1337	0.0058	-0.0298	-
0.0029	1	.							
1332	C	C	. MET MET MET A A 181 181 .	0.1819	0.1675	0.1402	-0.0156	0.0005	-
0.0124	1	.							
1333	O	O	. MET MET MET A A 181 181 .	0.1948	0.1843	0.1407	-0.0429	0.0353	-
0.0268	1	.							
1334	N	N	. ARG ARG ARG A A 182 182 .	0.2061	0.1379	0.1222	-0.0077	0.0016	-
0.0003	1	.							
1335	CA	CA	. ARG ARG ARG A A 182 182 .	0.1957	0.1532	0.1600	-0.0146	0.0130	-
0.0158	1	.							
1336	CB	CB	. ARG ARG ARG A A 182 182 .	0.2171	0.1521	0.1858	-0.0032	0.0204	-
0.0078	1	.							
1337	CG	CG	. ARG ARG ARG A A 182 182 .	0.2711	0.1329	0.1807	-0.0046	0.0399	-
0.0161	1	.							
1338	CD	CD	. ARG ARG ARG A A 182 182 .	0.3499	0.1052	0.3362	0.0244	0.0675	-
0.0415	1	.							
1339	NE	NE	. ARG ARG ARG A A 182 182 .	0.4003	0.2579	0.4178	-0.0229	0.0305	-
0.0562	1	.							
1340	CZ	CZ	. ARG ARG ARG A A 182 182 .	0.3883	0.3273	0.3924	-0.0072	0.0127	-
0.0591	1	.							
1341	NH1	NH1	. ARG ARG ARG A A 182 182 .	0.4815	0.2757	0.3166	-0.0115	-0.0101	-
0.1151	1	.							
1342	NH2	NH2	. ARG ARG ARG A A 182 182 .	0.3673	0.3479	0.3147	0.0453	0.0254	-
0.0552	1	.							
1343	C	C	. ARG ARG ARG A A 182 182 .	0.2033	0.1745	0.1442	-0.0085	0.0309	-
0.0106	1	.							
1344	O	O	. ARG ARG ARG A A 182 182 .	0.1963	0.1990	0.1770	-0.0393	0.0105	-
0.0427	1	.							
1345	N	N	. LEU LEU LEU A A 183 183 .	0.2060	0.1919	0.1634	-0.0094	-0.0083	-
0.0223	1	.							
1346	CA	CA	. LEU LEU LEU A A 183 183 .	0.2265	0.1994	0.1725	-0.0151	0.0020	-
0.0141	1	.							
1347	CB	CB	. LEU LEU LEU A A 183 183 .	0.2693	0.2045	0.1389	-0.0297	-0.0080	-
0.0517	1	.							
1348	CG	CG	. LEU LEU LEU A A 183 183 .	0.2564	0.1725	0.1961	0.0320	0.0041	-
0.0347	1	.							

1349	CD1	CD1	. LEU LEU LEU A A 183 183 .	0.2446	0.2407	0.2240	0.0308	-0.0033	-
0.0763	1	.							
1350	CD2	CD2	. LEU LEU LEU A A 183 183 .	0.3017	0.1980	0.1642	-0.0077	-0.0150	-
0.0746	1	.							
1351	C	C	. LEU LEU LEU A A 183 183 .	0.2160	0.1915	0.2103	-0.0225	0.0061	-
0.0135	1	.							
1352	O	O	. LEU LEU LEU A A 183 183 .	0.2251	0.2006	0.1941	-0.0573	0.0130	-
0.0253	1	.							
1353	N	N	. GLY GLY GLY A A 184 184 .	0.2002	0.1544	0.2023	-0.0143	0.0183	-
0.0284	1	.							
1354	CA	CA	. GLY GLY GLY A A 184 184 .	0.2113	0.1516	0.1961	-0.0138	0.0217	-
0.0113	1	.							
1355	C	C	. GLY GLY GLY A A 184 184 .	0.2048	0.1332	0.1920	-0.0174	0.0091	-
0.0250	1	.							
1356	O	O	. GLY GLY GLY A A 184 184 .	0.2227	0.1736	0.1495	-0.0409	0.0174	-
0.0316	1	.							
1357	N	N	. ALA ALA ALA A A 185 185 .	0.2143	0.1313	0.1629	-0.0363	0.0067	-
0.0271	1	.							
1358	CA	CA	. ALA ALA ALA A A 185 185 .	0.2311	0.1624	0.1764	-0.0491	0.0087	-
0.0089	1	.							
1359	CB	CB	. ALA ALA ALA A A 185 185 .	0.1952	0.1760	0.1606	-0.0138	0.0077	-
0.0370	1	.							
1360	C	C	. ALA ALA ALA A A 185 185 .	0.2355	0.1557	0.1845	-0.0401	0.0158	-
0.0343	1	.							
1361	O	O	. ALA ALA ALA A A 185 185 .	0.2891	0.1605	0.1929	-0.0548	0.0299	-
0.0405	1	.							
1362	N	N	. GLU GLU GLU A A 186 186 .	0.2470	0.1441	0.1666	-0.0406	0.0111	-
0.0275	1	.							
1363	CA	CA	. GLU GLU GLU A A 186 186 .	0.2560	0.1655	0.2181	-0.0273	0.0205	-
0.0393	1	.							
1364	CB	CB	. GLU GLU GLU A A 186 186 .	0.2541	0.1997	0.2191	-0.0297	0.0225	-
0.0482	1	.							
1365	CG	CG	. GLU GLU GLU A A 186 186 .	0.2647	0.1805	0.2631	-0.0175	0.0100	-
0.0618	1	.							
1366	CD	CD	. GLU GLU GLU A A 186 186 .	0.2304	0.2115	0.2838	-0.0164	0.0060	-
0.0497	1	.							
1367	OE1	OE1	. GLU GLU GLU A A 186 186 .	0.3075	0.2778	0.2699	0.0327	-0.0221	-
0.0548	1	.							
1368	OE2	OE2	. GLU GLU GLU A A 186 186 .	0.2966	0.2026	0.2028	0.0129	-0.0248	-
0.0697	1	.							
1369	C	C	. GLU GLU GLU A A 186 186 .	0.2726	0.1784	0.1934	-0.0132	0.0147	-
0.0418	1	.							
1370	O	O	. GLU GLU GLU A A 186 186 .	0.2796	0.1694	0.1974	-0.0357	0.0245	-
0.0593	1	.							
1371	N	N	. VAL VAL VAL A A 187 187 .	0.2779	0.1736	0.1996	-0.0103	0.0018	-
0.0526	1	.							
1372	CA	CA	. VAL VAL VAL A A 187 187 .	0.2235	0.1722	0.1435	-0.0133	0.0223	-
0.0528	1	.							
1373	CB	CB	. VAL VAL VAL A A 187 187 .	0.2340	0.1454	0.1758	-0.0097	0.0152	-
0.0441	1	.							
1374	CG1	CG1	. VAL VAL VAL A A 187 187 .	0.2175	0.1672	0.1406	-0.0390	0.0030	-
0.0345	1	.							
1375	CG2	CG2	. VAL VAL VAL A A 187 187 .	0.2587	0.1205	0.1356	-0.0247	0.0280	-
0.0624	1	.							
1376	C	C	. VAL VAL VAL A A 187 187 .	0.2331	0.1932	0.1894	-0.0330	0.0238	-
0.0559	1	.							
1377	O	O	. VAL VAL VAL A A 187 187 .	0.2389	0.1928	0.1871	-0.0444	0.0035	-
0.0444	1	.							
1378	N	N	. TYR TYR TYR A A 188 188 .	0.2224	0.1660	0.1550	-0.0391	0.0290	-
0.0573	1	.							

1379	CA	CA	. TYR TYR TYR A A 188 188 .	0.2142	0.1604	0.1621	-0.0572	0.0239	-
0.0572	1	.							
1380	CB	CB	. TYR TYR TYR A A 188 188 .	0.1885	0.1395	0.1618	-0.0696	0.0532	-
0.0785	1	.							
1381	CG	CG	. TYR TYR TYR A A 188 188 .	0.2363	0.1527	0.1611	-0.0511	-0.0005	-
0.0647	1	.							
1382	CD1	CD1	. TYR TYR TYR A A 188 188 .	0.1878	0.2112	0.1556	-0.0520	0.0717	-
0.0595	1	.							
1383	CE1	CE1	. TYR TYR TYR A A 188 188 .	0.1936	0.1631	0.1970	-0.0903	0.0400	-
0.0595	1	.							
1384	CZ	CZ	. TYR TYR TYR A A 188 188 .	0.1529	0.1625	0.1509	-0.0060	0.0166	-
0.0279	1	.							
1385	OH	OH	. TYR TYR TYR A A 188 188 .	0.2162	0.1604	0.1923	-0.0679	0.0827	-
0.0581	1	.							
1386	CE2	CE2	. TYR TYR TYR A A 188 188 .	0.2181	0.1676	0.2333	-0.0153	0.0240	-
0.0539	1	.							
1387	CD2	CD2	. TYR TYR TYR A A 188 188 .	0.2337	0.1756	0.1655	-0.0355	0.0238	-
0.0480	1	.							
1388	C	C	. TYR TYR TYR A A 188 188 .	0.2028	0.1762	0.1651	-0.0541	0.0053	-
0.0586	1	.							
1389	O	O	. TYR TYR TYR A A 188 188 .	0.2321	0.2079	0.1758	-0.0802	0.0084	-
0.0576	1	.							
1390	N	N	. HIS HIS HIS A A 189 189 .	0.2641	0.1659	0.1721	-0.0569	0.0078	-
0.0593	1	.							
1391	CA	CA	. HIS HIS HIS A A 189 189 .	0.2631	0.1764	0.1927	-0.0701	0.0000	-
0.0385	1	.							
1392	CB	CB	. HIS HIS HIS A A 189 189 .	0.2383	0.1917	0.2249	-0.0823	-0.0018	-
0.0404	1	.							
1393	CG	CG	. HIS HIS HIS A A 189 189 .	0.2556	0.2291	0.2239	-0.0583	0.0208	-
0.0809	1	.							
1394	ND1	ND1	. HIS HIS HIS A A 189 189 .	0.3262	0.2647	0.3491	-0.0212	-0.0218	-
0.1286	1	.							
1395	CE1	CE1	. HIS HIS HIS A A 189 189 .	0.2445	0.1792	0.3098	-0.0125	0.0232	-
0.0606	1	.							
1396	NE2	NE2	. HIS HIS HIS A A 189 189 .	0.3269	0.3161	0.2911	-0.0757	0.0453	-
0.0532	1	.							
1397	CD2	CD2	. HIS HIS HIS A A 189 189 .	0.2396	0.2559	0.2527	-0.0499	0.0146	-
0.0273	1	.							
1398	C	C	. HIS HIS HIS A A 189 189 .	0.2514	0.1662	0.1783	-0.0796	0.0041	-
0.0477	1	.							
1399	O	O	. HIS HIS HIS A A 189 189 .	0.3088	0.1970	0.2037	-0.0682	-0.0037	-
0.0468	1	.							
1400	N	N	. THR THR THR A A 190 190 .	0.2618	0.1737	0.1871	-0.0882	0.0000	-
0.0377	1	.							
1401	CA	CA	. THR THR THR A A 190 190 .	0.2850	0.1978	0.1965	-0.0862	-0.0048	-
0.0626	1	.							
1402	CB	CB	. THR THR THR A A 190 190 .	0.2626	0.2065	0.1914	-0.0897	-0.0261	-
0.0958	1	.							
1403	OG1	OG1	. THR THR THR A A 190 190 .	0.3213	0.2078	0.2483	-0.0636	0.0034	-
0.0916	1	.							
1404	CG2	CG2	. THR THR THR A A 190 190 .	0.3354	0.2042	0.2485	-0.1490	-0.0106	-
0.1000	1	.							
1405	C	C	. THR THR THR A A 190 190 .	0.2725	0.2022	0.1807	-0.0836	-0.0145	-
0.0608	1	.							
1406	O	O	. THR THR THR A A 190 190 .	0.3127	0.2005	0.2125	-0.0997	0.0062	-
0.0732	1	.							
1407	N	N	. LEU LEU LEU A A 191 191 .	0.2849	0.2162	0.1989	-0.0682	-0.0200	-
0.0270	1	.							
1408	CA	CA	. LEU LEU LEU A A 191 191 .	0.2563	0.2222	0.1827	-0.0730	0.0019	-
0.0428	1	.							

1409	CB	CB	. LEU LEU LEU A A 191 191 .	0.2655	0.2155	0.1909	-0.0554	0.0026	-
0.0240	1	.							
1410	CG	CG	. LEU LEU LEU A A 191 191 .	0.2281	0.2145	0.1844	-0.0743	-0.0240	-
0.0303	1	.							
1411	CD1	CD1	. LEU LEU LEU A A 191 191 .	0.2483	0.2526	0.1583	-0.0939	-0.0157	-
0.0077	1	.							
1412	CD2	CD2	. LEU LEU LEU A A 191 191 .	0.2678	0.2245	0.2390	-0.0922	-0.0006	-
0.0075	1	.							
1413	C	C	. LEU LEU LEU A A 191 191 .	0.2447	0.2217	0.1853	-0.0639	0.0214	-
0.0278	1	.							
1414	O	O	. LEU LEU LEU A A 191 191 .	0.2410	0.2136	0.2222	-0.0644	-0.0176	-
0.0696	1	.							
1415	N	N	. LYS LYS LYS A A 192 192 .	0.2532	0.2217	0.1748	-0.0612	0.0429	-
0.0281	1	.							
1416	CA	CA	. LYS LYS LYS A A 192 192 .	0.2784	0.2283	0.1766	-0.0732	0.0286	-
0.0198	1	.							
1417	CB	CB	. LYS LYS LYS A A 192 192 .	0.2524	0.2511	0.1903	-0.0674	0.0393	-
0.0308	1	.							
1418	CG	CG	. LYS LYS LYS A A 192 192 .	0.2860	0.3048	0.1794	-0.0945	0.0224	-
0.0503	1	.							
1419	CD	CD	. LYS LYS LYS A A 192 192 .	0.2928	0.3644	0.2326	-0.0409	-0.0329	-
0.0587	1	.							
1420	CE	CE	. LYS LYS LYS A A 192 192 .	0.3124	0.4366	0.2685	-0.0556	-0.0410	-
0.0663	1	.							
1421	NZ	NZ	. LYS LYS LYS A A 192 192 .	0.2591	0.3770	0.2738	-0.0860	-0.0129	-
0.0617	1	.							
1422	C	C	. LYS LYS LYS A A 192 192 .	0.2590	0.2412	0.2237	-0.0729	0.0324	-
0.0281	1	.							
1423	O	O	. LYS LYS LYS A A 192 192 .	0.2574	0.2611	0.2166	-0.0899	0.0223	-
0.0440	1	.							
1424	N	N	. GLY GLY GLY A A 193 193 .	0.2974	0.2297	0.1877	-0.0730	0.0138	-
0.0247	1	.							
1425	CA	CA	. GLY GLY GLY A A 193 193 .	0.2865	0.2388	0.2361	-0.0844	0.0017	-
0.0240	1	.							
1426	C	C	. GLY GLY GLY A A 193 193 .	0.2608	0.2657	0.2160	-0.0809	0.0081	-
0.0304	1	.							
1427	O	O	. GLY GLY GLY A A 193 193 .	0.2824	0.2730	0.2507	-0.1193	-0.0027	-
0.0433	1	.							
1428	N	N	. VAL VAL VAL A A 194 194 .	0.2601	0.2335	0.2247	-0.0816	0.0008	-
0.0140	1	.							
1429	CA	CA	. VAL VAL VAL A A 194 194 .	0.2719	0.2336	0.2300	-0.0716	0.0014	-
0.0133	1	.							
1430	CB	CB	. VAL VAL VAL A A 194 194 .	0.2779	0.2397	0.2555	-0.0579	0.0031	-
0.0216	1	.							
1431	CG1	CG1	. VAL VAL VAL A A 194 194 .	0.3310	0.2561	0.1830	-0.0638	-0.0230	-
0.0745	1	.							
1432	CG2	CG2	. VAL VAL VAL A A 194 194 .	0.2864	0.2367	0.2487	-0.0840	-0.0028	-
0.0821	1	.							
1433	C	C	. VAL VAL VAL A A 194 194 .	0.2932	0.2553	0.2671	-0.0733	-0.0010	-
0.0238	1	.							
1434	O	O	. VAL VAL VAL A A 194 194 .	0.3178	0.2986	0.2759	-0.1063	-0.0222	-
0.0394	1	.							
1435	N	N	. ILE ILE ILE A A 195 195 .	0.2891	0.2145	0.2220	-0.0824	0.0089	-
0.0203	1	.							
1436	CA	CA	. ILE ILE ILE A A 195 195 .	0.2812	0.2342	0.2666	-0.0875	0.0038	-
0.0302	1	.							
1437	CB	CB	. ILE ILE ILE A A 195 195 .	0.3267	0.1859	0.2585	-0.0619	0.0126	-
0.0430	1	.							
1438	CG1	CG1	. ILE ILE ILE A A 195 195 .	0.2056	0.1791	0.2349	-0.0857	0.0227	-
0.0302	1	.							

1439	CD	CD	. ILE ILE ILE A A 195 195 .	0.2774	0.1974	0.3138	-0.1031	0.0429	-
0.0379	1	.							
1440	CG2	CG2	. ILE ILE ILE A A 195 195 .	0.2701	0.2800	0.2634	-0.1177	0.0344	-
0.0462	1	.							
1441	C	C	. ILE ILE ILE A A 195 195 .	0.2897	0.2446	0.2576	-0.0806	0.0029	-
0.0321	1	.							
1442	O	O	. ILE ILE ILE A A 195 195 .	0.2775	0.2874	0.2544	-0.1170	-0.0280	-
0.0469	1	.							
1443	N	N	. LYS LYS LYS A A 196 196 .	0.2841	0.2370	0.2798	-0.0959	0.0072	-
0.0309	1	.							
1444	CA	CA	. LYS LYS LYS A A 196 196 .	0.3052	0.2481	0.2811	-0.1022	0.0097	-
0.0234	1	.							
1445	CB	CB	. LYS LYS LYS A A 196 196 .	0.2957	0.2568	0.2661	-0.0834	0.0140	-
0.0208	1	.							
1446	CG	CG	. LYS LYS LYS A A 196 196 .	0.3351	0.3067	0.3461	-0.0621	-0.0106	-
0.0131	1	.							
1447	CD	CD	. LYS LYS LYS A A 196 196 .	0.4502	0.4709	0.4778	-0.0178	-0.0701	-
0.0133	1	.							
1448	CE	CE	. LYS LYS LYS A A 196 196 .	0.5157	0.5211	0.5489	0.0209	-0.0754	-
0.0428	1	.							
1449	NZ	NZ	. LYS LYS LYS A A 196 196 .	0.5357	0.5915	0.6075	0.0420	-0.0689	-
0.0438	1	.							
1450	C	C	. LYS LYS LYS A A 196 196 .	0.3345	0.2950	0.3229	-0.1084	0.0239	-
0.0292	1	.							
1451	O	O	. LYS LYS LYS A A 196 196 .	0.3149	0.3257	0.2824	-0.1381	0.0260	-
0.0298	1	.							
1452	N	N	. ASP ASP ASP A A 197 197 .	0.3407	0.2675	0.3189	-0.1123	0.0311	-
0.0282	1	.							
1453	CA	CA	. ASP ASP ASP A A 197 197 .	0.3574	0.3152	0.3697	-0.1153	0.0261	-
0.0249	1	.							
1454	CB	CB	. ASP ASP ASP A A 197 197 .	0.3876	0.2939	0.3919	-0.1173	0.0103	-
0.0492	1	.							
1455	CG	CG	. ASP ASP ASP A A 197 197 .	0.4400	0.3625	0.4312	-0.1168	0.0033	-
0.0322	1	.							
1456	OD1	OD1	. ASP ASP ASP A A 197 197 .	0.5056	0.4099	0.4819	-0.1195	0.0435	-
0.0749	1	.							
1457	OD2	OD2	. ASP ASP ASP A A 197 197 .	0.5750	0.4234	0.4708	-0.1668	-0.0206	-
0.0338	1	.							
1458	C	C	. ASP ASP ASP A A 197 197 .	0.3712	0.3310	0.3701	-0.1109	0.0182	-
0.0201	1	.							
1459	O	O	. ASP ASP ASP A A 197 197 .	0.3701	0.3690	0.3810	-0.1563	0.0557	-
0.0065	1	.							
1460	N	N	. LYS LYS LYS A A 198 198 .	0.3641	0.3406	0.3577	-0.1007	0.0129	-
0.0244	1	.							
1461	CA	CA	. LYS LYS LYS A A 198 198 .	0.3344	0.3746	0.3861	-0.0798	0.0062	-
0.0342	1	.							
1462	CB	CB	. LYS LYS LYS A A 198 198 .	0.3348	0.3707	0.3996	-0.0726	0.0003	-
0.0168	1	.							
1463	CG	CG	. LYS LYS LYS A A 198 198 .	0.3781	0.4121	0.4008	-0.0602	-0.0244	-
0.0071	1	.							
1464	CD	CD	. LYS LYS LYS A A 198 198 .	0.4619	0.4263	0.4225	-0.0542	-0.0569	-
0.0385	1	.							
1465	CE	CE	. LYS LYS LYS A A 198 198 .	0.4692	0.4459	0.4402	-0.0787	-0.0890	-
0.0010	1	.							
1466	NZ	NZ	. LYS LYS LYS A A 198 198 .	0.4962	0.5054	0.3618	-0.1004	-0.0673	-
0.0184	1	.							
1467	C	C	. LYS LYS LYS A A 198 198 .	0.3353	0.4018	0.4065	-0.0851	0.0029	-
0.0402	1	.							
1468	O	O	. LYS LYS LYS A A 198 198 .	0.3163	0.4301	0.4287	-0.1140	0.0028	-
0.0490	1	.							

1469	N	N	. TYR TYR TYR A A 199 199 .	0.3003	0.3874	0.3667	-0.0894	-0.0157	-
0.0424	1	.							
1470	CA	CA	. TYR TYR TYR A A 199 199 .	0.3024	0.4038	0.3827	-0.0639	-0.0033	-
0.0297	1	.							
1471	CB	CB	. TYR TYR TYR A A 199 199 .	0.2582	0.4032	0.3544	-0.0286	-0.0068	-
0.0168	1	.							
1472	CG	CG	. TYR TYR TYR A A 199 199 .	0.2935	0.4502	0.3647	-0.0303	0.0047	-
0.0337	1	.							
1473	CD1	CD1	. TYR TYR TYR A A 199 199 .	0.3057	0.3632	0.3162	-0.0368	-0.0120	-
0.0709	1	.							
1474	CE1	CE1	. TYR TYR TYR A A 199 199 .	0.3847	0.3738	0.3580	-0.0031	-0.0244	-
0.0701	1	.							
1475	CZ	CZ	. TYR TYR TYR A A 199 199 .	0.3917	0.3832	0.3672	0.0119	-0.0342	-
0.0597	1	.							
1476	OH	OH	. TYR TYR TYR A A 199 199 .	0.5171	0.4121	0.3406	-0.0246	-0.0245	-
0.0433	1	.							
1477	CE2	CE2	. TYR TYR TYR A A 199 199 .	0.3784	0.4973	0.3735	-0.0115	-0.0435	-
0.0326	1	.							
1478	CD2	CD2	. TYR TYR TYR A A 199 199 .	0.3130	0.4956	0.3779	-0.0059	-0.0299	-
0.0361	1	.							
1479	C	C	. TYR TYR TYR A A 199 199 .	0.3394	0.4063	0.3769	-0.0570	0.0053	-
0.0271	1	.							
1480	O	O	. TYR TYR TYR A A 199 199 .	0.3833	0.4389	0.4287	-0.0778	0.0185	-
0.0624	1	.							
1481	N	N	. GLY GLY GLY A A 200 200 .	0.3460	0.4000	0.3822	-0.0666	0.0052	-
0.0190	1	.							
1482	CA	CA	. GLY GLY GLY A A 200 200 .	0.3306	0.3796	0.3584	-0.0677	-0.0103	-
0.0240	1	.							
1483	C	C	. GLY GLY GLY A A 200 200 .	0.3263	0.3725	0.3536	-0.0601	-0.0057	-
0.0195	1	.							
1484	O	O	. GLY GLY GLY A A 200 200 .	0.3038	0.3779	0.3004	-0.0782	0.0169	-
0.0394	1	.							
1485	N	N	. LYS LYS LYS A A 201 201 .	0.3306	0.3663	0.3557	-0.0468	-0.0025	-
0.0128	1	.							
1486	CA	CA	. LYS LYS LYS A A 201 201 .	0.3300	0.3762	0.3662	-0.0316	-0.0154	-
0.0183	1	.							
1487	CB	CB	. LYS LYS LYS A A 201 201 .	0.3657	0.4066	0.4096	-0.0153	-0.0200	-
0.0017	1	.							
1488	CG	CG	. LYS LYS LYS A A 201 201 .	0.4149	0.4349	0.4907	-0.0287	-0.0197	-
0.0317	1	.							
1489	CD	CD	. LYS LYS LYS A A 201 201 .	0.5181	0.5269	0.5494	0.0039	-0.0458	-
0.0150	1	.							
1490	CE	CE	. LYS LYS LYS A A 201 201 .	0.5260	0.5755	0.6182	-0.0024	-0.0154	-
0.0066	1	.							
1491	NZ	NZ	. LYS LYS LYS A A 201 201 .	0.6112	0.5929	0.6853	-0.0394	0.0011	-
0.0260	1	.							
1492	C	C	. LYS LYS LYS A A 201 201 .	0.3121	0.3648	0.3332	-0.0377	-0.0114	-
0.0156	1	.							
1493	O	O	. LYS LYS LYS A A 201 201 .	0.2842	0.3468	0.3206	-0.0580	-0.0086	-
0.0335	1	.							
1494	N	N	. ASP ASP ASP A A 202 202 .	0.2773	0.3491	0.2706	-0.0519	-0.0077	-
0.0230	1	.							
1495	CA	CA	. ASP ASP ASP A A 202 202 .	0.2730	0.3613	0.2970	-0.0484	-0.0072	-
0.0226	1	.							
1496	CB	CB	. ASP ASP ASP A A 202 202 .	0.2837	0.3870	0.2903	-0.0621	0.0093	-
0.0356	1	.							
1497	CG	CG	. ASP ASP ASP A A 202 202 .	0.3472	0.4913	0.3980	-0.0363	0.0271	-
0.0751	1	.							
1498	OD1	OD1	. ASP ASP ASP A A 202 202 .	0.3763	0.6327	0.5888	-0.0468	0.0781	-
0.1073	1	.							





1529	N	N	. GLY GLY GLY A A 207 207 .	0.1792	0.2224	0.1912	-0.0197	0.0429	-
0.0087	1	.							
1530	CA	CA	. GLY GLY GLY A A 207 207 .	0.1660	0.1840	0.1899	-0.0328	0.0280	-
0.0193	1	.							
1531	C	C	. GLY GLY GLY A A 207 207 .	0.1829	0.1950	0.1921	-0.0196	0.0169	-
0.0285	1	.							
1532	O	O	. GLY GLY GLY A A 207 207 .	0.1831	0.1842	0.1957	-0.0348	0.0039	-
0.0248	1	.							
1533	N	N	. ASP ASP ASP A A 208 208 .	0.1934	0.2000	0.1697	-0.0380	0.0213	-
0.0067	1	.							
1534	CA	CA	. ASP ASP ASP A A 208 208 .	0.1705	0.1982	0.1818	-0.0241	0.0232	-
0.0238	1	.							
1535	CB	CB	. ASP ASP ASP A A 208 208 .	0.1736	0.2072	0.1782	0.0003	0.0211	-
0.0275	1	.							
1536	CG	CG	. ASP ASP ASP A A 208 208 .	0.1982	0.2258	0.2382	-0.0128	0.0208	-
0.0147	1	.							
1537	OD1	OD1	. ASP ASP ASP A A 208 208 .	0.1883	0.2551	0.2618	-0.0040	0.0052	-
0.0249	1	.							
1538	OD2	OD2	. ASP ASP ASP A A 208 208 .	0.2468	0.2492	0.3258	0.0284	-0.0057	-
0.0120	1	.							
1539	C	C	. ASP ASP ASP A A 208 208 .	0.1762	0.2081	0.1672	-0.0116	0.0232	-
0.0255	1	.							
1540	O	O	. ASP ASP ASP A A 208 208 .	0.1808	0.1767	0.1733	-0.0095	0.0213	-
0.0240	1	.							
1541	N	N	. GLU GLU GLU A A 209 209 .	0.1696	0.1942	0.1715	-0.0131	0.0061	-
0.0181	1	.							
1542	CA	CA	. GLU GLU GLU A A 209 209 .	0.1713	0.1702	0.1587	-0.0126	0.0033	-
0.0041	1	.							
1543	CB	CB	. GLU GLU GLU A A 209 209 .	0.1882	0.2034	0.1804	0.0025	-0.0173	-
0.0028	1	.							
1544	CG	CG	. GLU GLU GLU A A 209 209 .	0.2051	0.1732	0.2317	-0.0281	0.0097	-
0.0021	1	.							
1545	CD	CD	. GLU GLU GLU A A 209 209 .	0.2909	0.3077	0.3081	-0.0157	0.0388	-
0.0263	1	.							
1546	OE1	OE1	. GLU GLU GLU A A 209 209 .	0.2283	0.3511	0.3482	-0.0635	-0.0136	-
0.0412	1	.							
1547	OE2	OE2	. GLU GLU GLU A A 209 209 .	0.2650	0.3633	0.3775	-0.0038	0.0582	-
0.0531	1	.							
1548	C	C	. GLU GLU GLU A A 209 209 .	0.1740	0.1640	0.1630	-0.0351	-0.0041	-
0.0238	1	.							
1549	O	O	. GLU GLU GLU A A 209 209 .	0.1903	0.1607	0.1475	-0.0110	0.0111	-
0.0159	1	.							
1550	N	N	. GLY GLY GLY A A 210 210 .	0.1627	0.1401	0.1471	-0.0426	-0.0061	-
0.0150	1	.							
1551	CA	CA	. GLY GLY GLY A A 210 210 .	0.1533	0.1542	0.1846	-0.0394	0.0078	-
0.0230	1	.							
1552	C	C	. GLY GLY GLY A A 210 210 .	0.1592	0.1535	0.1495	-0.0216	0.0144	-
0.0213	1	.							
1553	O	O	. GLY GLY GLY A A 210 210 .	0.1938	0.1733	0.2035	-0.0608	0.0338	-
0.0341	1	.							
1554	N	N	. GLY GLY GLY A A 211 211 .	0.1825	0.1851	0.1641	-0.0607	0.0165	-
0.0243	1	.							
1555	CA	CA	. GLY GLY GLY A A 211 211 .	0.1694	0.1935	0.1423	-0.0752	0.0345	-
0.0522	1	.							
1556	C	C	. GLY GLY GLY A A 211 211 .	0.2265	0.1854	0.1838	-0.0754	0.0315	-
0.0411	1	.							
1557	O	O	. GLY GLY GLY A A 211 211 .	0.2035	0.2057	0.2095	-0.0861	0.0469	-
0.0546	1	.							
1558	N	N	. PHE PHE PHE A A 212 212 .	0.2219	0.2245	0.2028	-0.0991	0.0512	-
0.0207	1	.							



1589	CG1	CG1	. ILE ILE ILE A A 216 216 .	0.2797	0.3711	0.3412	-0.0364	0.0709	-
0.0311	1	.							
1590	CD	CD	. ILE ILE ILE A A 216 216 .	0.3455	0.4058	0.2988	0.0163	0.0618	-
0.0511	1	.							
1591	CG2	CG2	. ILE ILE ILE A A 216 216 .	0.3175	0.3549	0.3619	-0.0404	0.0088	-
0.0146	1	.							
1592	C	C	. ILE ILE ILE A A 216 216 .	0.2817	0.3570	0.3296	-0.0489	0.0240	-
0.0236	1	.							
1593	O	O	. ILE ILE ILE A A 216 216 .	0.2578	0.3693	0.3914	-0.0591	0.0384	-
0.0408	1	.							
1594	N	N	. LEU LEU LEU A A 217 217 .	0.2481	0.3580	0.3225	-0.0556	0.0176	-
0.0156	1	.							
1595	CA	CA	. LEU LEU LEU A A 217 217 .	0.2745	0.3454	0.3420	-0.0329	0.0334	-
0.0064	1	.							
1596	CB	CB	. LEU LEU LEU A A 217 217 .	0.2785	0.3572	0.3685	-0.0396	0.0244	-
0.0162	1	.							
1597	CG	CG	. LEU LEU LEU A A 217 217 .	0.3129	0.3988	0.3904	-0.0426	0.0239	-
0.0128	1	.							
1598	CD1	CD1	. LEU LEU LEU A A 217 217 .	0.3699	0.3937	0.4004	-0.0542	0.0660	-
0.0411	1	.							
1599	CD2	CD2	. LEU LEU LEU A A 217 217 .	0.3186	0.4248	0.3750	-0.0735	0.0081	-
0.0573	1	.							
1600	C	C	. LEU LEU LEU A A 217 217 .	0.3131	0.3515	0.3582	-0.0361	0.0274	-
0.0123	1	.							
1601	O	O	. LEU LEU LEU A A 217 217 .	0.3637	0.3590	0.3757	-0.0343	0.0242	-
0.0039	1	.							
1602	N	N	. GLU GLU GLU A A 218 218 .	0.2853	0.3532	0.3569	-0.0601	0.0279	-
0.0038	1	.							
1603	CA	CA	. GLU GLU GLU A A 218 218 .	0.2845	0.3539	0.3648	-0.0606	0.0509	-
0.0157	1	.							
1604	CB	CB	. GLU GLU GLU A A 218 218 .	0.2555	0.3527	0.3818	-0.0866	0.0278	-
0.0200	1	.							
1605	CG	CG	. GLU GLU GLU A A 218 218 .	0.2433	0.3930	0.4536	-0.0422	0.0685	-
0.0030	1	.							
1606	C	C	. GLU GLU GLU A A 218 218 .	0.2574	0.3304	0.3488	-0.0546	0.0435	-
0.0126	1	.							
1607	O	O	. GLU GLU GLU A A 218 218 .	0.2729	0.3506	0.3371	-0.0625	0.0699	-
0.0123	1	.							
1608	N	N	. ASN ASN ASN A A 219 219 .	0.2492	0.3378	0.3285	-0.0637	0.0649	-
0.0260	1	.							
1609	CA	CA	. ASN ASN ASN A A 219 219 .	0.2818	0.3568	0.3434	-0.0403	0.0432	-
0.0361	1	.							
1610	CB	CB	. ASN ASN ASN A A 219 219 .	0.2847	0.3571	0.3276	-0.0443	0.0668	-
0.0341	1	.							
1611	CG	CG	. ASN ASN ASN A A 219 219 .	0.3154	0.4304	0.3834	-0.0115	0.0270	-
0.0514	1	.							
1612	OD1	OD1	. ASN ASN ASN A A 219 219 .	0.3440	0.4783	0.4626	0.0054	0.0225	-
0.0391	1	.							
1613	ND2	ND2	. ASN ASN ASN A A 219 219 .	0.2007	0.3367	0.2373	-0.0418	0.0677	-
0.0224	1	.							
1614	C	C	. ASN ASN ASN A A 219 219 .	0.2849	0.3534	0.3460	-0.0471	0.0328	-
0.0360	1	.							
1615	O	O	. ASN ASN ASN A A 219 219 .	0.2496	0.3296	0.3301	-0.0623	-0.0170	-
0.0420	1	.							
1616	N	N	. SER SER SER A A 220 220 .	0.2723	0.3848	0.3352	-0.0570	0.0134	-
0.0414	1	.							
1617	CA	CA	. SER SER SER A A 220 220 .	0.3115	0.3686	0.3596	-0.0735	0.0104	-
0.0434	1	.							
1618	CB	CB	. SER SER SER A A 220 220 .	0.3177	0.3960	0.3604	-0.0814	0.0258	-
0.0431	1	.							









1739	O	O	. THR THR THR A A 236 236 .	0.3372	0.2867	0.2355	-0.0545	-0.0389	-
0.0716	1	.							
1740	N	N	. GLU GLU GLU A A 237 237 .	0.3351	0.2712	0.2715	-0.0749	-0.0099	-
0.0574	1	.							
1741	CA	CA	. GLU GLU GLU A A 237 237 .	0.3587	0.2994	0.2880	-0.0805	0.0015	-
0.0644	1	.							
1742	CB	CB	. GLU GLU GLU A A 237 237 .	0.4069	0.3215	0.3051	-0.0710	0.0199	-
0.0709	1	.							
1743	C	C	. GLU GLU GLU A A 237 237 .	0.3614	0.3024	0.2698	-0.0713	0.0135	-
0.0474	1	.							
1744	O	O	. GLU GLU GLU A A 237 237 .	0.3901	0.3562	0.2623	-0.0865	-0.0008	-
0.0606	1	.							
1745	N	N	. LYS LYS LYS A A 238 238 .	0.3195	0.2449	0.2131	-0.0587	0.0071	-
0.0794	1	.							
1746	CA	CA	. LYS LYS LYS A A 238 238 .	0.2694	0.2404	0.2136	-0.0421	0.0307	-
0.0509	1	.							
1747	CB	CB	. LYS LYS LYS A A 238 238 .	0.2969	0.2364	0.2409	-0.0144	0.0470	-
0.0425	1	.							
1748	CG	CG	. LYS LYS LYS A A 238 238 .	0.3250	0.2828	0.3147	0.0274	0.0422	-
0.0505	1	.							
1749	CD	CD	. LYS LYS LYS A A 238 238 .	0.3927	0.3365	0.3133	0.0058	0.0402	-
0.0131	1	.							
1750	CE	CE	. LYS LYS LYS A A 238 238 .	0.5227	0.2952	0.4116	0.0633	0.0876	-
0.0284	1	.							
1751	C	C	. LYS LYS LYS A A 238 238 .	0.2445	0.2285	0.1749	-0.0471	0.0260	-
0.0490	1	.							
1752	O	O	. LYS LYS LYS A A 238 238 .	0.2900	0.2044	0.1397	-0.0547	0.0267	-
0.0457	1	.							
1753	N	N	. ILE ILE ILE A A 239 239 .	0.2371	0.2158	0.1568	-0.0362	0.0004	-
0.0653	1	.							
1754	CA	CA	. ILE ILE ILE A A 239 239 .	0.2494	0.2098	0.1782	-0.0248	0.0169	-
0.0438	1	.							
1755	CB	CB	. ILE ILE ILE A A 239 239 .	0.2639	0.1830	0.1638	-0.0200	0.0129	-
0.0632	1	.							
1756	CG1	CG1	. ILE ILE ILE A A 239 239 .	0.3074	0.1977	0.1738	0.0041	0.0237	-
0.0249	1	.							
1757	CD	CD	. ILE ILE ILE A A 239 239 .	0.2910	0.1942	0.1392	-0.0133	-0.0017	-
0.0217	1	.							
1758	CG2	CG2	. ILE ILE ILE A A 239 239 .	0.3283	0.2029	0.2203	-0.0093	0.0085	-
0.0974	1	.							
1759	C	C	. ILE ILE ILE A A 239 239 .	0.2421	0.2208	0.1849	-0.0305	0.0119	-
0.0411	1	.							
1760	O	O	. ILE ILE ILE A A 239 239 .	0.2671	0.2664	0.2480	-0.0691	0.0019	-
0.0506	1	.							
1761	N	N	. VAL VAL VAL A A 240 240 .	0.2280	0.2007	0.1659	-0.0391	0.0022	-
0.0496	1	.							
1762	CA	CA	. VAL VAL VAL A A 240 240 .	0.2295	0.2205	0.1667	-0.0036	0.0025	-
0.0672	1	.							
1763	CB	CB	. VAL VAL VAL A A 240 240 .	0.2490	0.2262	0.1791	-0.0162	0.0051	-
0.0624	1	.							
1764	CG1	CG1	. VAL VAL VAL A A 240 240 .	0.2941	0.3144	0.1689	0.0292	0.0039	-
0.0729	1	.							
1765	CG2	CG2	. VAL VAL VAL A A 240 240 .	0.2653	0.2334	0.1997	-0.0575	-0.0261	-
0.0657	1	.							
1766	C	C	. VAL VAL VAL A A 240 240 .	0.2252	0.2295	0.1794	-0.0087	0.0039	-
0.0491	1	.							
1767	O	O	. VAL VAL VAL A A 240 240 .	0.2166	0.2308	0.1643	-0.0220	-0.0211	-
0.0688	1	.							
1768	N	N	. ILE ILE ILE A A 241 241 .	0.2136	0.2225	0.2057	-0.0306	0.0022	-
0.0635	1	.							



1769	CA	CA	. ILE ILE ILE A A 241 241 .	0.1993	0.2361	0.2143	-0.0448	0.0215	-
0.0394	1	.							
1770	CB	CB	. ILE ILE ILE A A 241 241 .	0.1877	0.2525	0.2078	-0.0642	0.0125	-
0.0447	1	.							
1771	CG1	CG1	. ILE ILE ILE A A 241 241 .	0.1962	0.2645	0.2309	-0.0698	0.0440	-
0.0358	1	.							
1772	CD	CD	. ILE ILE ILE A A 241 241 .	0.1978	0.2072	0.2301	-0.0961	-0.0121	-
0.0242	1	.							
1773	CG2	CG2	. ILE ILE ILE A A 241 241 .	0.2095	0.2784	0.2817	-0.0396	0.0374	-
0.0297	1	.							
1774	C	C	. ILE ILE ILE A A 241 241 .	0.1981	0.2425	0.1989	-0.0331	0.0096	-
0.0230	1	.							
1775	O	O	. ILE ILE ILE A A 241 241 .	0.2132	0.2386	0.2008	-0.0536	-0.0114	-
0.0516	1	.							
1776	N	N	. GLY GLY GLY A A 242 242 .	0.2022	0.2074	0.1792	-0.0421	0.0038	-
0.0425	1	.							
1777	CA	CA	. GLY GLY GLY A A 242 242 .	0.2132	0.2469	0.1928	-0.0121	-0.0057	-
0.0337	1	.							
1778	C	C	. GLY GLY GLY A A 242 242 .	0.2239	0.2440	0.1932	-0.0234	-0.0174	-
0.0422	1	.							
1779	O	O	. GLY GLY GLY A A 242 242 .	0.2473	0.2678	0.1940	-0.0247	-0.0118	-
0.0460	1	.							
1780	N	N	. MET MET MET A A 243 243 .	0.2001	0.2494	0.2196	-0.0169	-0.0126	-
0.0683	1	.							
1781	CA	CA	. MET MET MET A A 243 243 .	0.2032	0.2731	0.2440	-0.0328	-0.0045	-
0.0511	1	.							
1782	CB	CB	. MET MET MET A A 243 243 .	0.2137	0.2997	0.2989	-0.0383	0.0084	-
0.0433	1	.							
1783	CG	CG	. MET MET MET A A 243 243 .	0.1765	0.3257	0.3705	-0.0895	0.0195	-
0.0493	1	.							
1784	SD	SD	. MET MET MET A A 243 243 .	0.2154	0.4198	0.3904	-0.0983	0.0247	-
0.0981	1	.							
1785	CE	CE	. MET MET MET A A 243 243 .	0.2259	0.4660	0.3558	-0.0817	0.0595	-
0.0889	1	.							
1786	C	C	. MET MET MET A A 243 243 .	0.2126	0.2664	0.2440	-0.0379	0.0044	-
0.0304	1	.							
1787	O	O	. MET MET MET A A 243 243 .	0.1965	0.2769	0.2415	-0.0268	-0.0163	-
0.0184	1	.							
1788	N	N	. ASP ASP ASP A A 244 244 .	0.2039	0.2422	0.2342	-0.0342	-0.0100	-
0.0424	1	.							
1789	CA	CA	. ASP ASP ASP A A 244 244 .	0.1789	0.2532	0.2189	-0.0440	0.0125	-
0.0505	1	.							
1790	CB	CB	. ASP ASP ASP A A 244 244 .	0.1831	0.2404	0.2248	-0.0450	-0.0034	-
0.0487	1	.							
1791	CG	CG	. ASP ASP ASP A A 244 244 .	0.1966	0.2598	0.2161	-0.0056	0.0057	-
0.0433	1	.							
1792	OD1	OD1	. ASP ASP ASP A A 244 244 .	0.1902	0.3010	0.2103	-0.0240	0.0159	-
0.0095	1	.							
1793	OD2	OD2	. ASP ASP ASP A A 244 244 .	0.2029	0.3003	0.2834	-0.0473	-0.0495	-
0.0574	1	.							
1794	C	C	. ASP ASP ASP A A 244 244 .	0.2097	0.2509	0.2263	-0.0358	0.0138	-
0.0520	1	.							
1795	O	O	. ASP ASP ASP A A 244 244 .	0.2174	0.2668	0.2235	-0.0589	0.0108	-
0.0407	1	.							
1796	N	N	. VAL VAL VAL A A 245 245 .	0.1825	0.2729	0.2346	-0.0270	0.0317	-
0.0708	1	.							
1797	CA	CA	. VAL VAL VAL A A 245 245 .	0.2084	0.3168	0.2665	-0.0316	0.0370	-
0.0743	1	.							
1798	CB	CB	. VAL VAL VAL A A 245 245 .	0.1921	0.3114	0.2662	-0.0036	0.0297	-
0.0657	1	.							







1889	N	N	. ASP ASP ASP A A 257 257 .	0.3542	0.4278	0.3744	-0.0246	-0.0004	-
0.0222	1	.							
1890	CA	CA	. ASP ASP ASP A A 257 257 .	0.3505	0.4164	0.3694	-0.0246	0.0025	-
0.0207	1	.							
1891	CB	CB	. ASP ASP ASP A A 257 257 .	0.3309	0.4345	0.3780	-0.0118	0.0055	-
0.0295	1	.							
1892	CG	CG	. ASP ASP ASP A A 257 257 .	0.3424	0.4181	0.3945	-0.0043	0.0160	-
0.0332	1	.							
1893	OD1	OD1	. ASP ASP ASP A A 257 257 .	0.3386	0.4321	0.4400	0.0302	0.1012	-
0.0391	1	.							
1894	OD2	OD2	. ASP ASP ASP A A 257 257 .	0.2735	0.4915	0.3601	-0.0212	0.0175	-
0.0087	1	.							
1895	C	C	. ASP ASP ASP A A 257 257 .	0.3515	0.4161	0.3709	-0.0293	0.0244	-
0.0258	1	.							
1896	O	O	. ASP ASP ASP A A 257 257 .	0.3802	0.4057	0.3654	-0.0544	0.0089	-
0.0348	1	.							
1897	N	N	. LEU LEU LEU A A 258 258 .	0.3446	0.3995	0.3770	-0.0354	0.0156	-
0.0224	1	.							
1898	CA	CA	. LEU LEU LEU A A 258 258 .	0.3486	0.3797	0.3794	-0.0308	0.0179	-
0.0325	1	.							
1899	CB	CB	. LEU LEU LEU A A 258 258 .	0.3399	0.3794	0.3778	-0.0466	0.0103	-
0.0381	1	.							
1900	CG	CG	. LEU LEU LEU A A 258 258 .	0.3276	0.3924	0.3973	-0.0609	-0.0010	-
0.0434	1	.							
1901	CD1	CD1	. LEU LEU LEU A A 258 258 .	0.2453	0.3928	0.4571	-0.0605	0.0325	-
0.0847	1	.							
1902	CD2	CD2	. LEU LEU LEU A A 258 258 .	0.3733	0.3328	0.4327	-0.1010	0.0367	-
0.0407	1	.							
1903	C	C	. LEU LEU LEU A A 258 258 .	0.3297	0.3642	0.3793	-0.0387	0.0273	-
0.0180	1	.							
1904	O	O	. LEU LEU LEU A A 258 258 .	0.3151	0.3886	0.3768	-0.0389	0.0477	-
0.0193	1	.							
1905	N	N	. ASP ASP ASP A A 259 259 .	0.3441	0.3649	0.3849	-0.0534	0.0260	-
0.0272	1	.							
1906	CA	CA	. ASP ASP ASP A A 259 259 .	0.3478	0.3880	0.3898	-0.0437	0.0328	-
0.0080	1	.							
1907	CB	CB	. ASP ASP ASP A A 259 259 .	0.3463	0.3963	0.3893	-0.0401	0.0458	-
0.0019	1	.							
1908	CG	CG	. ASP ASP ASP A A 259 259 .	0.3671	0.4443	0.4681	-0.0593	0.0546	-
0.0223	1	.							
1909	OD1	OD1	. ASP ASP ASP A A 259 259 .	0.2649	0.5320	0.5404	-0.1048	0.1200	-
0.0174	1	.							
1910	OD2	OD2	. ASP ASP ASP A A 259 259 .	0.4073	0.4917	0.5288	-0.0971	0.0961	-
0.0760	1	.							
1911	C	C	. ASP ASP ASP A A 259 259 .	0.3521	0.4070	0.3858	-0.0230	0.0278	-
0.0083	1	.							
1912	O	O	. ASP ASP ASP A A 259 259 .	0.3283	0.4330	0.3696	-0.0098	0.0275	-
0.0102	1	.							
1913	N	N	. PHE PHE PHE A A 260 260 .	0.3394	0.4042	0.3871	-0.0270	0.0308	-
0.0192	1	.							
1914	CA	CA	. PHE PHE PHE A A 260 260 .	0.3273	0.4166	0.3779	-0.0049	0.0081	-
0.0226	1	.							
1915	CB	CB	. PHE PHE PHE A A 260 260 .	0.2796	0.4329	0.3655	0.0103	-0.0057	-
0.0105	1	.							
1916	CG	CG	. PHE PHE PHE A A 260 260 .	0.2664	0.3985	0.3128	0.0270	-0.0399	-
0.0464	1	.							
1917	CD1	CD1	. PHE PHE PHE A A 260 260 .	0.2108	0.4309	0.3119	0.0199	-0.0418	-
0.0664	1	.							
1918	CE1	CE1	. PHE PHE PHE A A 260 260 .	0.2648	0.4660	0.2905	0.0070	-0.0449	-
0.0207	1	.							

1919	CZ	CZ	. PHE PHE PHE A A 260 260 .	0.3550	0.3801	0.3666	-0.0245	0.0063	-
0.0634	1	.							
1920	CE2	CE2	. PHE PHE PHE A A 260 260 .	0.2474	0.4131	0.3565	0.0077	-0.0219	-
0.0405	1	.							
1921	CD2	CD2	. PHE PHE PHE A A 260 260 .	0.2491	0.3621	0.3492	0.0521	0.0271	-
0.0849	1	.							
1922	C	C	. PHE PHE PHE A A 260 260 .	0.3483	0.4315	0.3778	-0.0063	0.0316	-
0.0114	1	.							
1923	O	O	. PHE PHE PHE A A 260 260 .	0.3343	0.4341	0.3866	-0.0132	0.0297	-
0.0335	1	.							
1924	N	N	. LYS LYS LYS A A 261 261 .	0.3296	0.4300	0.3719	0.0048	0.0323	-
0.0077	1	.							
1925	CA	CA	. LYS LYS LYS A A 261 261 .	0.3655	0.4639	0.4152	-0.0032	0.0359	-
0.0076	1	.							
1926	CB	CB	. LYS LYS LYS A A 261 261 .	0.3528	0.4654	0.4259	-0.0054	0.0297	-
0.0193	1	.							
1927	CG	CG	. LYS LYS LYS A A 261 261 .	0.3425	0.4579	0.4323	0.0108	0.0557	-
0.0121	1	.							
1928	CD	CD	. LYS LYS LYS A A 261 261 .	0.3112	0.3396	0.3966	-0.0280	0.1027	-
0.0351	1	.							
1929	CE	CE	. LYS LYS LYS A A 261 261 .	0.3017	0.3265	0.3687	0.0381	0.1121	-
0.0138	1	.							
1930	NZ	NZ	. LYS LYS LYS A A 261 261 .	0.2602	0.3120	0.2769	0.0002	0.0766	-
0.0057	1	.							
1931	C	C	. LYS LYS LYS A A 261 261 .	0.3933	0.4920	0.4297	-0.0071	0.0355	-
0.0106	1	.							
1932	O	O	. LYS LYS LYS A A 261 261 .	0.3915	0.5389	0.4328	-0.0108	0.0406	-
0.0124	1	.							
1933	N	N	. SER SER SER A A 262 262 .	0.4084	0.5047	0.4536	-0.0190	0.0352	-
0.0001	1	.							
1934	CA	CA	. SER SER SER A A 262 262 .	0.4463	0.5127	0.4817	-0.0162	0.0431	-
0.0001	1	.							
1935	CB	CB	. SER SER SER A A 262 262 .	0.4536	0.5045	0.5042	-0.0172	0.0424	-
0.0031	1	.							
1936	OG	OG	. SER SER SER A A 262 262 .	0.4533	0.4735	0.4776	-0.0411	0.0683	-
0.0120	1	.							
1937	C	C	. SER SER SER A A 262 262 .	0.4649	0.5305	0.4935	-0.0073	0.0400	-
0.0061	1	.							
1938	O	O	. SER SER SER A A 262 262 .	0.4285	0.5399	0.4723	-0.0347	0.0727	-
0.0145	1	.							
1939	N	N	. PRO PRO PRO A A 263 263 .	0.4807	0.5518	0.5126	-0.0009	0.0467	-
0.0075	1	.							
1940	CA	CA	. PRO PRO PRO A A 263 263 .	0.4949	0.5498	0.5255	0.0077	0.0432	-
0.0031	1	.							
1941	CB	CB	. PRO PRO PRO A A 263 263 .	0.5136	0.5515	0.5236	0.0109	0.0503	-
0.0023	1	.							
1942	CG	CG	. PRO PRO PRO A A 263 263 .	0.5157	0.5712	0.5182	0.0274	0.0522	-
0.0058	1	.							
1943	CD	CD	. PRO PRO PRO A A 263 263 .	0.4832	0.5596	0.5145	0.0114	0.0390	-
0.0133	1	.							
1944	C	C	. PRO PRO PRO A A 263 263 .	0.4861	0.5600	0.5321	0.0053	0.0445	-
0.0010	1	.							
1945	O	O	. PRO PRO PRO A A 263 263 .	0.4619	0.5539	0.5480	0.0069	0.0518	-
0.0030	1	.							
1946	N	N	. THR THR THR A A 264 264 .	0.4960	0.5768	0.5500	0.0032	0.0442	-
0.0002	1	.							
1947	CA	CA	. THR THR THR A A 264 264 .	0.5201	0.6057	0.5635	0.0029	0.0253	-
0.0049	1	.							
1948	CB	CB	. THR THR THR A A 264 264 .	0.5250	0.6026	0.5660	-0.0017	0.0273	-
0.0012	1	.							



1979	NE	NE	. ARG ARG ARG A A 268 268 .	0.4203	0.6213	0.5116	-0.0668	0.0589	-
0.0324	1	.							
1980	CZ	CZ	. ARG ARG ARG A A 268 268 .	0.4096	0.6084	0.4995	-0.0563	0.0277	-
0.0146	1	.							
1981	NH1	NH1	. ARG ARG ARG A A 268 268 .	0.4113	0.6388	0.5117	-0.0396	0.0466	-
0.0157	1	.							
1982	NH2	NH2	. ARG ARG ARG A A 268 268 .	0.3062	0.5775	0.4903	-0.0408	0.0671	-
0.0160	1	.							
1983	C	C	. ARG ARG ARG A A 268 268 .	0.4242	0.5207	0.5069	-0.0244	-0.0009	-
0.0141	1	.							
1984	O	O	. ARG ARG ARG A A 268 268 .	0.4012	0.5316	0.5258	-0.0468	-0.0040	-
0.0299	1	.							
1985	N	N	. TYR TYR TYR A A 269 269 .	0.3792	0.5105	0.4946	-0.0316	0.0054	-
0.0085	1	.							
1986	CA	CA	. TYR TYR TYR A A 269 269 .	0.3805	0.5152	0.4779	-0.0158	0.0037	-
0.0095	1	.							
1987	CB	CB	. TYR TYR TYR A A 269 269 .	0.3569	0.5014	0.4753	-0.0344	0.0062	-
0.0191	1	.							
1988	CG	CG	. TYR TYR TYR A A 269 269 .	0.3609	0.4903	0.4804	-0.0418	0.0148	-
0.0019	1	.							
1989	CD1	CD1	. TYR TYR TYR A A 269 269 .	0.2446	0.4470	0.4407	-0.0582	-0.0063	-
0.0180	1	.							
1990	CE1	CE1	. TYR TYR TYR A A 269 269 .	0.3745	0.4856	0.4626	-0.0683	0.0259	-
0.0399	1	.							
1991	CZ	CZ	. TYR TYR TYR A A 269 269 .	0.3441	0.5036	0.4457	-0.0512	0.0314	-
0.0446	1	.							
1992	OH	OH	. TYR TYR TYR A A 269 269 .	0.4132	0.5521	0.4465	-0.0332	0.0054	-
0.0932	1	.							
1993	CE2	CE2	. TYR TYR TYR A A 269 269 .	0.3202	0.5119	0.4600	-0.0494	0.0306	-
0.0269	1	.							
1994	CD2	CD2	. TYR TYR TYR A A 269 269 .	0.3035	0.4950	0.4832	-0.0649	0.0467	-
0.0364	1	.							
1995	C	C	. TYR TYR TYR A A 269 269 .	0.3734	0.5219	0.4711	-0.0196	0.0031	-
0.0169	1	.							
1996	O	O	. TYR TYR TYR A A 269 269 .	0.2572	0.5231	0.4475	-0.0233	-0.0121	-
0.0241	1	.							
1997	N	N	. ILE ILE ILE A A 270 270 .	0.3481	0.4986	0.4657	-0.0003	0.0088	-
0.0199	1	.							
1998	CA	CA	. ILE ILE ILE A A 270 270 .	0.3607	0.4846	0.4650	-0.0067	-0.0091	-
0.0189	1	.							
1999	CB	CB	. ILE ILE ILE A A 270 270 .	0.3625	0.4845	0.4731	-0.0096	-0.0082	-
0.0178	1	.							
2000	CG1	CG1	. ILE ILE ILE A A 270 270 .	0.3061	0.4375	0.4805	-0.0174	-0.0023	-
0.0368	1	.							
2001	CD	CD	. ILE ILE ILE A A 270 270 .	0.2464	0.4512	0.4344	-0.0218	0.0022	-
0.0843	1	.							
2002	CG2	CG2	. ILE ILE ILE A A 270 270 .	0.3644	0.4647	0.4938	-0.0100	-0.0137	-
0.0201	1	.							
2003	C	C	. ILE ILE ILE A A 270 270 .	0.3868	0.4943	0.4582	-0.0035	-0.0062	-
0.0213	1	.							
2004	O	O	. ILE ILE ILE A A 270 270 .	0.3942	0.5187	0.4682	-0.0087	-0.0009	-
0.0213	1	.							
2005	N	N	. THR THR THR A A 271 271 .	0.3349	0.4922	0.4478	-0.0014	-0.0208	-
0.0159	1	.							
2006	CA	CA	. THR THR THR A A 271 271 .	0.3398	0.4824	0.4398	0.0040	-0.0147	-
0.0175	1	.							
2007	CB	CB	. THR THR THR A A 271 271 .	0.3382	0.4775	0.4430	0.0008	-0.0151	-
0.0355	1	.							
2008	OG1	OG1	. THR THR THR A A 271 271 .	0.3344	0.4966	0.4623	0.0018	-0.0258	-
0.0275	1	.							





2039	C	C	. LEU LEU LEU A A 275 275 .	0.2862	0.3682	0.3672	-0.0473	-0.0320	-
0.0677	1	.							
2040	O	O	. LEU LEU LEU A A 275 275 .	0.2819	0.3928	0.3502	-0.0450	-0.0257	-
0.0893	1	.							
2041	N	N	. GLY GLY GLY A A 276 276 .	0.2568	0.3921	0.3528	-0.0612	-0.0393	-
0.0694	1	.							
2042	CA	CA	. GLY GLY GLY A A 276 276 .	0.2588	0.3853	0.3653	-0.0547	-0.0410	-
0.0581	1	.							
2043	C	C	. GLY GLY GLY A A 276 276 .	0.2619	0.3945	0.3937	-0.0513	-0.0373	-
0.0479	1	.							
2044	O	O	. GLY GLY GLY A A 276 276 .	0.2690	0.4028	0.3844	-0.0729	-0.0584	-
0.0515	1	.							
2045	N	N	. ALA ALA ALA A A 277 277 .	0.2552	0.4108	0.3909	-0.0573	-0.0319	-
0.0462	1	.							
2046	CA	CA	. ALA ALA ALA A A 277 277 .	0.2478	0.4038	0.3880	-0.0417	-0.0298	-
0.0352	1	.							
2047	CB	CB	. ALA ALA ALA A A 277 277 .	0.2362	0.4286	0.3857	-0.0545	-0.0366	-
0.0499	1	.							
2048	C	C	. ALA ALA ALA A A 277 277 .	0.2680	0.3959	0.3760	-0.0319	-0.0264	-
0.0515	1	.							
2049	O	O	. ALA ALA ALA A A 277 277 .	0.2735	0.4487	0.3887	-0.0289	-0.0479	-
0.0594	1	.							
2050	N	N	. LEU LEU LEU A A 278 278 .	0.2849	0.4046	0.3691	-0.0144	-0.0003	-
0.0333	1	.							
2051	CA	CA	. LEU LEU LEU A A 278 278 .	0.2927	0.3977	0.3528	-0.0262	0.0089	-
0.0397	1	.							
2052	CB	CB	. LEU LEU LEU A A 278 278 .	0.3028	0.4029	0.3530	-0.0290	0.0130	-
0.0486	1	.							
2053	CG	CG	. LEU LEU LEU A A 278 278 .	0.3887	0.3911	0.3977	-0.0526	0.0141	-
0.0377	1	.							
2054	CD1	CD1	. LEU LEU LEU A A 278 278 .	0.4639	0.4138	0.4065	-0.0731	0.0410	-
0.0446	1	.							
2055	CD2	CD2	. LEU LEU LEU A A 278 278 .	0.3997	0.4284	0.4221	-0.1099	0.0202	-
0.0785	1	.							
2056	C	C	. LEU LEU LEU A A 278 278 .	0.2764	0.3632	0.3451	-0.0207	0.0154	-
0.0358	1	.							
2057	O	O	. LEU LEU LEU A A 278 278 .	0.2671	0.3590	0.3089	-0.0538	-0.0085	-
0.0313	1	.							
2058	N	N	. TYR TYR TYR A A 279 279 .	0.2991	0.3717	0.3318	-0.0116	0.0165	-
0.0228	1	.							
2059	CA	CA	. TYR TYR TYR A A 279 279 .	0.2770	0.3499	0.3268	-0.0071	-0.0071	-
0.0375	1	.							
2060	CB	CB	. TYR TYR TYR A A 279 279 .	0.2709	0.3576	0.3328	-0.0155	0.0045	-
0.0323	1	.							
2061	CG	CG	. TYR TYR TYR A A 279 279 .	0.2089	0.3292	0.3245	-0.0340	-0.0159	-
0.0411	1	.							
2062	CD1	CD1	. TYR TYR TYR A A 279 279 .	0.2322	0.3134	0.3323	-0.0552	-0.0035	-
0.0567	1	.							
2063	CE1	CE1	. TYR TYR TYR A A 279 279 .	0.2465	0.3177	0.3003	-0.0241	-0.0064	-
0.0536	1	.							
2064	CZ	CZ	. TYR TYR TYR A A 279 279 .	0.1993	0.2784	0.2847	0.0008	-0.0058	-
0.0475	1	.							
2065	OH	OH	. TYR TYR TYR A A 279 279 .	0.2376	0.3524	0.3175	-0.0771	-0.0056	-
0.0964	1	.							
2066	CE2	CE2	. TYR TYR TYR A A 279 279 .	0.2023	0.3822	0.2904	-0.0226	0.0208	-
0.0377	1	.							
2067	CD2	CD2	. TYR TYR TYR A A 279 279 .	0.2311	0.2985	0.3245	-0.0284	-0.0217	-
0.0441	1	.							
2068	C	C	. TYR TYR TYR A A 279 279 .	0.3018	0.3633	0.3083	-0.0021	-0.0187	-
0.0435	1	.							

2069	O	O	. TYR TYR TYR A A 279 279 .	0.2708	0.3370	0.3088	-0.0272	-0.0457	-
0.0582	1	.							
2070	N	N	. GLN GLN GLN A A 280 280 .	0.2913	0.3774	0.3426	-0.0092	-0.0265	-
0.0465	1	.							
2071	CA	CA	. GLN GLN GLN A A 280 280 .	0.3287	0.3916	0.3321	-0.0101	-0.0335	-
0.0474	1	.							
2072	CB	CB	. GLN GLN GLN A A 280 280 .	0.3525	0.4159	0.3427	-0.0039	-0.0269	-
0.0441	1	.							
2073	CG	CG	. GLN GLN GLN A A 280 280 .	0.3792	0.3995	0.3510	-0.0094	-0.0394	-
0.0535	1	.							
2074	CD	CD	. GLN GLN GLN A A 280 280 .	0.4523	0.4658	0.4491	-0.0264	-0.0222	-
0.0487	1	.							
2075	OE1	OE1	. GLN GLN GLN A A 280 280 .	0.4487	0.5086	0.5082	-0.0238	-0.0258	-
0.0736	1	.							
2076	NE2	NE2	. GLN GLN GLN A A 280 280 .	0.4412	0.4796	0.4268	-0.0499	-0.0961	-
0.0411	1	.							
2077	C	C	. GLN GLN GLN A A 280 280 .	0.3384	0.3984	0.3626	-0.0225	-0.0282	-
0.0667	1	.							
2078	O	O	. GLN GLN GLN A A 280 280 .	0.3062	0.4137	0.3656	-0.0340	-0.0526	-
0.0942	1	.							
2079	N	N	. ASP ASP ASP A A 281 281 .	0.3362	0.3913	0.3489	-0.0405	-0.0252	-
0.0611	1	.							
2080	CA	CA	. ASP ASP ASP A A 281 281 .	0.3510	0.4064	0.3742	-0.0372	-0.0132	-
0.0496	1	.							
2081	CB	CB	. ASP ASP ASP A A 281 281 .	0.3522	0.4352	0.3987	-0.0373	-0.0001	-
0.0487	1	.							
2082	CG	CG	. ASP ASP ASP A A 281 281 .	0.4011	0.5313	0.4654	-0.0480	-0.0018	-
0.0184	1	.							
2083	OD1	OD1	. ASP ASP ASP A A 281 281 .	0.3280	0.6137	0.5073	-0.0897	-0.0823	-
0.0099	1	.							
2084	OD2	OD2	. ASP ASP ASP A A 281 281 .	0.3288	0.6423	0.6126	-0.0831	0.0502	-
0.0178	1	.							
2085	C	C	. ASP ASP ASP A A 281 281 .	0.3230	0.3709	0.3563	-0.0370	0.0010	-
0.0593	1	.							
2086	O	O	. ASP ASP ASP A A 281 281 .	0.3007	0.3651	0.3554	-0.0617	-0.0095	-
0.0648	1	.							
2087	N	N	. PHE PHE PHE A A 282 282 .	0.2984	0.3729	0.3427	-0.0460	-0.0114	-
0.0667	1	.							
2088	CA	CA	. PHE PHE PHE A A 282 282 .	0.3065	0.3633	0.3288	-0.0343	0.0045	-
0.0724	1	.							
2089	CB	CB	. PHE PHE PHE A A 282 282 .	0.3112	0.3763	0.3168	-0.0493	0.0177	-
0.0755	1	.							
2090	CG	CG	. PHE PHE PHE A A 282 282 .	0.3446	0.4306	0.3497	-0.0193	0.0422	-
0.0604	1	.							
2091	CD1	CD1	. PHE PHE PHE A A 282 282 .	0.3362	0.4633	0.3398	-0.0475	0.0509	-
0.0763	1	.							
2092	CE1	CE1	. PHE PHE PHE A A 282 282 .	0.4198	0.5509	0.3708	-0.0439	0.0754	-
0.0711	1	.							
2093	CZ	CZ	. PHE PHE PHE A A 282 282 .	0.4426	0.5211	0.3858	-0.0269	0.0670	-
0.0515	1	.							
2094	CE2	CE2	. PHE PHE PHE A A 282 282 .	0.3529	0.4882	0.3543	-0.0242	0.0675	-
0.0401	1	.							
2095	CD2	CD2	. PHE PHE PHE A A 282 282 .	0.3658	0.5036	0.3181	-0.0191	0.0794	-
0.0189	1	.							
2096	C	C	. PHE PHE PHE A A 282 282 .	0.2759	0.3360	0.2975	-0.0470	-0.0039	-
0.0738	1	.							
2097	O	O	. PHE PHE PHE A A 282 282 .	0.2965	0.3091	0.3120	-0.0726	0.0147	-
0.0993	1	.							
2098	N	N	. VAL VAL VAL A A 283 283 .	0.2795	0.3329	0.2886	-0.0659	-0.0195	-
0.0879	1	.							

















2309	O	O	. THR THR THR A A 307 307 .	0.3563	0.4266	0.2888	0.0301	-0.0843	-
0.0487	1	.							
2310	N	N	. ALA ALA ALA A A 308 308 .	0.3698	0.4359	0.3188	0.0222	-0.0678	-
0.0329	1	.							
2311	CA	CA	. ALA ALA ALA A A 308 308 .	0.3972	0.4297	0.3148	0.0242	-0.0526	-
0.0414	1	.							
2312	CB	CB	. ALA ALA ALA A A 308 308 .	0.3599	0.4542	0.3083	0.0156	-0.0906	-
0.0311	1	.							
2313	C	C	. ALA ALA ALA A A 308 308 .	0.3876	0.4401	0.3439	0.0099	-0.0437	-
0.0272	1	.							
2314	O	O	. ALA ALA ALA A A 308 308 .	0.4093	0.4503	0.3231	0.0097	-0.0441	-
0.0520	1	.							
2315	N	N	. ASN ASN ASN A A 309 309 .	0.3994	0.4415	0.3538	-0.0032	-0.0403	-
0.0306	1	.							
2316	CA	CA	. ASN ASN ASN A A 309 309 .	0.3924	0.4300	0.3738	-0.0141	-0.0464	-
0.0361	1	.							
2317	CB	CB	. ASN ASN ASN A A 309 309 .	0.3995	0.4422	0.3817	-0.0151	-0.0547	-
0.0440	1	.							
2318	CG	CG	. ASN ASN ASN A A 309 309 .	0.4470	0.4728	0.4504	0.0170	-0.0663	-
0.0521	1	.							
2319	OD1	OD1	. ASN ASN ASN A A 309 309 .	0.4803	0.4924	0.5179	0.0282	-0.0857	-
0.1121	1	.							
2320	ND2	ND2	. ASN ASN ASN A A 309 309 .	0.4021	0.5287	0.4470	0.0635	-0.1331	-
0.0724	1	.							
2321	C	C	. ASN ASN ASN A A 309 309 .	0.3883	0.4356	0.3938	-0.0180	-0.0399	-
0.0304	1	.							
2322	O	O	. ASN ASN ASN A A 309 309 .	0.3817	0.4500	0.3945	-0.0161	-0.0637	-
0.0340	1	.							
2323	N	N	. VAL VAL VAL A A 310 310 .	0.3648	0.4351	0.3460	-0.0123	-0.0401	-
0.0328	1	.							
2324	CA	CA	. VAL VAL VAL A A 310 310 .	0.3692	0.4164	0.3161	-0.0092	-0.0316	-
0.0411	1	.							
2325	CB	CB	. VAL VAL VAL A A 310 310 .	0.3798	0.4221	0.3017	-0.0197	-0.0305	-
0.0312	1	.							
2326	CG1	CG1	. VAL VAL VAL A A 310 310 .	0.3704	0.4504	0.3681	-0.0055	-0.0329	-
0.0503	1	.							
2327	CG2	CG2	. VAL VAL VAL A A 310 310 .	0.3719	0.3926	0.2870	-0.0166	-0.0850	-
0.0654	1	.							
2328	C	C	. VAL VAL VAL A A 310 310 .	0.3424	0.3887	0.2885	-0.0162	-0.0434	-
0.0423	1	.							
2329	O	O	. VAL VAL VAL A A 310 310 .	0.3619	0.4017	0.3002	-0.0174	-0.0360	-
0.0471	1	.							
2330	N	N	. GLY GLY GLY A A 311 311 .	0.3188	0.3805	0.2688	-0.0008	-0.0534	-
0.0448	1	.							
2331	CA	CA	. GLY GLY GLY A A 311 311 .	0.3107	0.3862	0.2690	-0.0005	-0.0652	-
0.0336	1	.							
2332	C	C	. GLY GLY GLY A A 311 311 .	0.3028	0.3750	0.2691	0.0035	-0.0579	-
0.0268	1	.							
2333	O	O	. GLY GLY GLY A A 311 311 .	0.3057	0.3931	0.2744	-0.0198	-0.0671	-
0.0397	1	.							
2334	N	N	. ILE ILE ILE A A 312 312 .	0.2762	0.3546	0.2424	-0.0198	-0.0583	-
0.0221	1	.							
2335	CA	CA	. ILE ILE ILE A A 312 312 .	0.2573	0.3152	0.2087	-0.0228	-0.0457	-
0.0146	1	.							
2336	CB	CB	. ILE ILE ILE A A 312 312 .	0.2495	0.2755	0.2059	-0.0295	-0.0381	-
0.0298	1	.							
2337	CG1	CG1	. ILE ILE ILE A A 312 312 .	0.2135	0.3605	0.2124	-0.0253	-0.0533	-
0.0075	1	.							
2338	CD	CD	. ILE ILE ILE A A 312 312 .	0.2792	0.3332	0.2188	-0.0997	-0.0127	-
0.0052	1	.							

2339	CG2	CG2	. ILE ILE ILE A A 312 312 .	0.2433	0.2874	0.2437	-0.0339	-0.0108	-
0.0593	1	.							
2340	C	C	. ILE ILE ILE A A 312 312 .	0.2252	0.2930	0.2096	-0.0046	-0.0243	-
0.0175	1	.							
2341	O	O	. ILE ILE ILE A A 312 312 .	0.2283	0.2918	0.1870	-0.0211	-0.0323	-
0.0168	1	.							
2342	N	N	. GLN GLN GLN A A 313 313 .	0.2273	0.2828	0.1806	-0.0190	-0.0209	-
0.0509	1	.							
2343	CA	CA	. GLN GLN GLN A A 313 313 .	0.1794	0.2620	0.2026	-0.0165	-0.0133	-
0.0506	1	.							
2344	CB	CB	. GLN GLN GLN A A 313 313 .	0.1941	0.2137	0.1935	-0.0218	-0.0302	-
0.0377	1	.							
2345	CG	CG	. GLN GLN GLN A A 313 313 .	0.1822	0.2343	0.2024	0.0073	-0.0034	-
0.0699	1	.							
2346	CD	CD	. GLN GLN GLN A A 313 313 .	0.2059	0.2567	0.2059	-0.0270	-0.0468	-
0.0232	1	.							
2347	OE1	OE1	. GLN GLN GLN A A 313 313 .	0.2031	0.2702	0.1608	-0.0089	-0.0448	-
0.0367	1	.							
2348	NE2	NE2	. GLN GLN GLN A A 313 313 .	0.2237	0.1907	0.1785	-0.0301	-0.0547	-
0.0327	1	.							
2349	C	C	. GLN GLN GLN A A 313 313 .	0.1955	0.2548	0.1918	-0.0164	-0.0432	-
0.0455	1	.							
2350	O	O	. GLN GLN GLN A A 313 313 .	0.2196	0.3040	0.1793	-0.0397	-0.0469	-
0.0524	1	.							
2351	N	N	. ILE ILE ILE A A 314 314 .	0.2114	0.2641	0.1912	-0.0045	-0.0511	-
0.0380	1	.							
2352	CA	CA	. ILE ILE ILE A A 314 314 .	0.1932	0.2382	0.1905	0.0014	-0.0330	-
0.0358	1	.							
2353	CB	CB	. ILE ILE ILE A A 314 314 .	0.2382	0.2620	0.2360	-0.0101	-0.0275	-
0.0329	1	.							
2354	CG1	CG1	. ILE ILE ILE A A 314 314 .	0.2636	0.2264	0.2700	-0.0298	-0.0172	-
0.0194	1	.							
2355	CD	CD	. ILE ILE ILE A A 314 314 .	0.1841	0.2664	0.2510	-0.0402	0.0109	-
0.0186	1	.							
2356	CG2	CG2	. ILE ILE ILE A A 314 314 .	0.1810	0.2968	0.2311	0.0008	0.0081	
0.0005	1	.							
2357	C	C	. ILE ILE ILE A A 314 314 .	0.2011	0.2207	0.1846	-0.0125	-0.0293	-
0.0144	1	.							
2358	O	O	. ILE ILE ILE A A 314 314 .	0.2162	0.2426	0.1326	-0.0125	-0.0295	-
0.0340	1	.							
2359	N	N	. VAL VAL VAL A A 315 315 .	0.2021	0.2396	0.1760	-0.0185	-0.0288	-
0.0263	1	.							
2360	CA	CA	. VAL VAL VAL A A 315 315 .	0.1885	0.2391	0.1888	-0.0095	-0.0339	-
0.0182	1	.							
2361	CB	CB	. VAL VAL VAL A A 315 315 .	0.1814	0.1986	0.1502	-0.0092	-0.0303	-
0.0191	1	.							
2362	CG1	CG1	. VAL VAL VAL A A 315 315 .	0.1880	0.2763	0.2024	-0.0337	-0.0334	-
0.0299	1	.							
2363	CG2	CG2	. VAL VAL VAL A A 315 315 .	0.1836	0.2027	0.1648	0.0129	-0.0290	-
0.0366	1	.							
2364	C	C	. VAL VAL VAL A A 315 315 .	0.1894	0.2190	0.1530	-0.0173	-0.0453	-
0.0193	1	.							
2365	O	O	. VAL VAL VAL A A 315 315 .	0.2031	0.2358	0.1953	-0.0197	-0.0276	-
0.0215	1	.							
2366	N	N	. GLY GLY GLY A A 316 316 .	0.2049	0.2242	0.1619	0.0106	-0.0704	-
0.0339	1	.							
2367	CA	CA	. GLY GLY GLY A A 316 316 .	0.1661	0.2268	0.1602	0.0224	-0.0383	-
0.0111	1	.							
2368	C	C	. GLY GLY GLY A A 316 316 .	0.2007	0.2364	0.1787	0.0062	-0.0175	-
0.0331	1	.							



































2819	C	C	. GLU GLU GLU A A 376 376 .	0.1535	0.1643	0.1709	-0.0102	-0.0106	
0.0107	1	.							
2820	O	O	. GLU GLU GLU A A 376 376 .	0.1689	0.1809	0.1730	-0.0058	0.0253	
0.0000	1	.							
2821	N	N	. ASP ASP ASP A A 377 377 .	0.1289	0.1096	0.1456	-0.0117	-0.0084	
0.0038	1	.							
2822	CA	CA	. ASP ASP ASP A A 377 377 .	0.1640	0.1435	0.1251	0.0006	-0.0097	-
0.0094	1	.							
2823	CB	CB	. ASP ASP ASP A A 377 377 .	0.1819	0.1358	0.1677	-0.0149	0.0038	
0.0150	1	.							
2824	CG	CG	. ASP ASP ASP A A 377 377 .	0.2727	0.1881	0.1893	-0.0435	-0.0052	
0.0048	1	.							
2825	OD1	OD1	. ASP ASP ASP A A 377 377 .	0.3049	0.2955	0.2637	-0.0466	0.0304	-
0.0178	1	.							
2826	OD2	OD2	. ASP ASP ASP A A 377 377 .	0.2160	0.2492	0.2403	-0.0667	0.0136	-
0.0344	1	.							
2827	C	C	. ASP ASP ASP A A 377 377 .	0.1816	0.1700	0.1721	-0.0106	-0.0093	-
0.0077	1	.							
2828	O	O	. ASP ASP ASP A A 377 377 .	0.1637	0.2070	0.1877	-0.0346	0.0071	-
0.0104	1	.							
2829	N	N	. THR THR THR A A 378 378 .	0.1831	0.1467	0.1148	-0.0052	0.0020	-
0.0109	1	.							
2830	CA	CA	. THR THR THR A A 378 378 .	0.1691	0.1248	0.1263	-0.0135	-0.0094	-
0.0019	1	.							
2831	CB	CB	. THR THR THR A A 378 378 .	0.1634	0.1318	0.1380	-0.0001	0.0071	
0.0011	1	.							
2832	OG1	OG1	. THR THR THR A A 378 378 .	0.1811	0.1581	0.1620	0.0223	-0.0025	
0.0280	1	.							
2833	CG2	CG2	. THR THR THR A A 378 378 .	0.1881	0.1671	0.1482	0.0030	-0.0169	
0.0308	1	.							
2834	C	C	. THR THR THR A A 378 378 .	0.1506	0.1190	0.1171	-0.0021	-0.0027	-
0.0010	1	.							
2835	O	O	. THR THR THR A A 378 378 .	0.1852	0.1417	0.1256	0.0110	-0.0049	
0.0060	1	.							
2836	N	N	. PHE PHE PHE A A 379 379 .	0.1371	0.1179	0.1203	-0.0345	-0.0014	
0.0046	1	.							
2837	CA	CA	. PHE PHE PHE A A 379 379 .	0.1621	0.1192	0.1342	-0.0183	-0.0117	-
0.0001	1	.							
2838	CB	CB	. PHE PHE PHE A A 379 379 .	0.1711	0.1179	0.1389	-0.0091	-0.0069	-
0.0077	1	.							
2839	CG	CG	. PHE PHE PHE A A 379 379 .	0.1719	0.1356	0.1483	-0.0270	-0.0006	
0.0049	1	.							
2840	CD1	CD1	. PHE PHE PHE A A 379 379 .	0.2422	0.1601	0.1107	0.0049	0.0068	
0.0146	1	.							
2841	CE1	CE1	. PHE PHE PHE A A 379 379 .	0.2685	0.1278	0.1827	-0.0144	0.0243	
0.0171	1	.							
2842	CZ	CZ	. PHE PHE PHE A A 379 379 .	0.1678	0.1664	0.2004	0.0265	0.0177	
0.0199	1	.							
2843	CE2	CE2	. PHE PHE PHE A A 379 379 .	0.1553	0.1675	0.2016	0.0014	0.0113	
0.0310	1	.							
2844	CD2	CD2	. PHE PHE PHE A A 379 379 .	0.1561	0.2000	0.2014	0.0072	-0.0046	
0.0738	1	.							
2845	C	C	. PHE PHE PHE A A 379 379 .	0.1438	0.1495	0.1333	-0.0091	-0.0044	-
0.0095	1	.							
2846	O	O	. PHE PHE PHE A A 379 379 .	0.1615	0.1249	0.1112	-0.0159	-0.0132	-
0.0124	1	.							
2847	N	N	. ILE ILE ILE A A 380 380 .	0.1346	0.1195	0.1277	-0.0166	-0.0175	-
0.0252	1	.							
2848	CA	CA	. ILE ILE ILE A A 380 380 .	0.1314	0.1619	0.1049	-0.0091	-0.0009	-
0.0103	1	.							













2999	O	O	. GLU GLU GLU A A 401 401 .	0.1642	0.1314	0.1003	-0.0025	-0.0191	-
0.0206	1	.							
3000	N	N	. ARG ARG ARG A A 402 402 .	0.1107	0.0964	0.0752	-0.0086	-0.0105	-
0.0273	1	.							
3001	CA	CA	. ARG ARG ARG A A 402 402 .	0.1263	0.1186	0.0759	-0.0171	-0.0071	-
0.0145	1	.							
3002	CB	CB	. ARG ARG ARG A A 402 402 .	0.1149	0.1293	0.0766	-0.0070	0.0025	-
0.0240	1	.							
3003	CG	CG	. ARG ARG ARG A A 402 402 .	0.0996	0.1045	0.0985	0.0012	0.0224	
0.0035	1	.							
3004	CD	CD	. ARG ARG ARG A A 402 402 .	0.1160	0.0813	0.0745	0.0300	-0.0055	-
0.0172	1	.							
3005	NE	NE	. ARG ARG ARG A A 402 402 .	0.1249	0.1295	0.1134	-0.0147	-0.0173	-
0.0284	1	.							
3006	CZ	CZ	. ARG ARG ARG A A 402 402 .	0.0797	0.1302	0.1181	-0.0044	0.0068	-
0.0200	1	.							
3007	NH1	NH1	. ARG ARG ARG A A 402 402 .	0.1434	0.1440	0.1345	-0.0211	0.0006	-
0.0209	1	.							
3008	NH2	NH2	. ARG ARG ARG A A 402 402 .	0.1634	0.1428	0.1558	0.0094	0.0353	-
0.0379	1	.							
3009	C	C	. ARG ARG ARG A A 402 402 .	0.1340	0.1180	0.0991	-0.0226	-0.0055	-
0.0176	1	.							
3010	O	O	. ARG ARG ARG A A 402 402 .	0.1478	0.1085	0.1123	-0.0215	-0.0014	-
0.0246	1	.							
3011	N	N	. LEU LEU LEU A A 403 403 .	0.1170	0.1048	0.1350	-0.0137	-0.0184	
0.0006	1	.							
3012	CA	CA	. LEU LEU LEU A A 403 403 .	0.1451	0.1162	0.1248	0.0098	-0.0013	
0.0059	1	.							
3013	CB	CB	. LEU LEU LEU A A 403 403 .	0.1476	0.0902	0.1127	-0.0072	0.0052	
0.0370	1	.							
3014	CG	CG	. LEU LEU LEU A A 403 403 .	0.1155	0.1207	0.1428	-0.0053	0.0257	-
0.0414	1	.							
3015	CD1	CD1	. LEU LEU LEU A A 403 403 .	0.1821	0.1192	0.1160	-0.0269	-0.0046	-
0.0084	1	.							
3016	CD2	CD2	. LEU LEU LEU A A 403 403 .	0.1270	0.1614	0.1601	-0.0086	0.0191	-
0.0187	1	.							
3017	C	C	. LEU LEU LEU A A 403 403 .	0.1440	0.1144	0.1230	0.0025	-0.0005	
0.0039	1	.							
3018	O	O	. LEU LEU LEU A A 403 403 .	0.1423	0.1481	0.1275	-0.0092	0.0155	
0.0141	1	.							
3019	N	N	. ALA ALA ALA A A 404 404 .	0.1251	0.1339	0.1127	-0.0149	-0.0023	-
0.0332	1	.							
3020	CA	CA	. ALA ALA ALA A A 404 404 .	0.1446	0.1081	0.0733	-0.0136	0.0274	-
0.0055	1	.							
3021	CB	CB	. ALA ALA ALA A A 404 404 .	0.1410	0.1063	0.1239	-0.0304	0.0106	-
0.0378	1	.							
3022	C	C	. ALA ALA ALA A A 404 404 .	0.1489	0.1118	0.1135	-0.0095	0.0058	-
0.0044	1	.							
3023	O	O	. ALA ALA ALA A A 404 404 .	0.1423	0.1078	0.1230	-0.0098	-0.0023	
0.0033	1	.							
3024	N	N	. LYS LYS LYS A A 405 405 .	0.1548	0.1111	0.0847	0.0030	-0.0021	
0.0015	1	.							
3025	CA	CA	. LYS LYS LYS A A 405 405 .	0.1449	0.1252	0.0814	-0.0004	0.0013	-
0.0032	1	.							
3026	CB	CB	. LYS LYS LYS A A 405 405 .	0.1234	0.1036	0.1250	-0.0065	0.0115	-
0.0120	1	.							
3027	CG	CG	. LYS LYS LYS A A 405 405 .	0.1553	0.1146	0.1269	-0.0013	0.0196	-
0.0558	1	.							
3028	CD	CD	. LYS LYS LYS A A 405 405 .	0.1955	0.0753	0.0921	0.0124	0.0033	-
0.0035	1	.							









3149	O	O	. ALA ALA ALA A A	420 420	. 0.4235 0.5044 0.3957 0.0065 0.0109	-
0.0478	1	.				
3150	N	N	. ARG ARG ARG A A	421 421	. 0.3580 0.4321 0.3790 -0.0054 0.0386	-
0.0466	1	.				
3151	CA	CA	. ARG ARG ARG A A	421 421	. 0.2862 0.3698 0.3220 -0.0132 0.0682	-
0.0372	1	.				
3152	CB	CB	. ARG ARG ARG A A	421 421	. 0.2875 0.3665 0.3574 0.0136 0.1010	-
0.0142	1	.				
3153	CG	CG	. ARG ARG ARG A A	421 421	. 0.3355 0.4362 0.3683 -0.0016 0.1434	-
0.0484	1	.				
3154	C	C	. ARG ARG ARG A A	421 421	. 0.2640 0.3018 0.3144 -0.0177 0.0547	-
0.0318	1	.				
3155	O	O	. ARG ARG ARG A A	421 421	. 0.3037 0.3050 0.2948 -0.0695 0.1021	-
0.0620	1	.				
3156	N	N	. PHE PHE PHE A A	422 422	. 0.2504 0.2316 0.2304 -0.0139 0.0289	-
0.0166	1	.				
3157	CA	CA	. PHE PHE PHE A A	422 422	. 0.2270 0.1890 0.1930 -0.0026 0.0166	-
0.0237	1	.				
3158	CB	CB	. PHE PHE PHE A A	422 422	. 0.2271 0.1825 0.1940 0.0089 0.0092	-
0.0116	1	.				
3159	CG	CG	. PHE PHE PHE A A	422 422	. 0.2115 0.1749 0.1412 -0.0071 0.0142	-
0.0365	1	.				
3160	CD1	CD1	. PHE PHE PHE A A	422 422	. 0.2106 0.2172 0.1177 0.0095 0.0204	-
0.0250	1	.				
3161	CE1	CE1	. PHE PHE PHE A A	422 422	. 0.1647 0.2151 0.1686 0.0049 -0.0155	-
0.0269	1	.				
3162	CZ	CZ	. PHE PHE PHE A A	422 422	. 0.2160 0.2034 0.1637 -0.0070 -0.0164	-
0.0317	1	.				
3163	CE2	CE2	. PHE PHE PHE A A	422 422	. 0.2212 0.2745 0.1603 -0.0427 0.0004	-
0.0494	1	.				
3164	CD2	CD2	. PHE PHE PHE A A	422 422	. 0.2113 0.2236 0.1894 -0.0475 0.0032	-
0.0148	1	.				
3165	C	C	. PHE PHE PHE A A	422 422	. 0.2459 0.1786 0.1869 0.0047 0.0086	-
0.0144	1	.				
3166	O	O	. PHE PHE PHE A A	422 422	. 0.2641 0.2103 0.1401 0.0136 0.0221	-
0.0142	1	.				
3167	N	N	. ALA ALA ALA A A	423 423	. 0.1872 0.2074 0.1583 0.0118 0.0113	
0.0012	1	.				
3168	CA	CA	. ALA ALA ALA A A	423 423	. 0.2073 0.1934 0.1640 -0.0075 -0.0155	-
0.0106	1	.				
3169	CB	CB	. ALA ALA ALA A A	423 423	. 0.2134 0.2283 0.1535 -0.0013 -0.0027	-
0.0197	1	.				
3170	C	C	. ALA ALA ALA A A	423 423	. 0.2052 0.1961 0.1556 -0.0151 -0.0118	-
0.0054	1	.				
3171	O	O	. ALA ALA ALA A A	423 423	. 0.2235 0.2125 0.1426 -0.0157 0.0034	-
0.0118	1	.				
3172	N	N	. GLY GLY GLY A A	424 424	. 0.1802 0.1928 0.1333 -0.0307 -0.0087	-
0.0102	1	.				
3173	CA	CA	. GLY GLY GLY A A	424 424	. 0.2109 0.1742 0.1412 -0.0316 -0.0084	
0.0032	1	.				
3174	C	C	. GLY GLY GLY A A	424 424	. 0.2119 0.1777 0.1180 -0.0091 0.0000	-
0.0068	1	.				
3175	O	O	. GLY GLY GLY A A	424 424	. 0.2078 0.1941 0.1131 -0.0067 0.0106	-
0.0211	1	.				
3176	N	N	. HIS HIS HIS A A	425 425	. 0.2184 0.1869 0.1312 -0.0261 -0.0055	-
0.0341	1	.				
3177	CA	CA	. HIS HIS HIS A A	425 425	. 0.2197 0.1645 0.1327 -0.0168 -0.0044	-
0.0369	1	.				
3178	CB	CB	. HIS HIS HIS A A	425 425	. 0.2505 0.1633 0.0814 -0.0196 0.0049	-
0.0532	1	.				















3359	O	O	. ILE ILE ILE B B 10 10 .	0.1947	0.1401	0.1834	-0.0078	0.0065	-
0.0018	1	.							
3360	N	N	. LEU LEU LEU B B 11 11 .	0.1521	0.1229	0.1277	-0.0048	0.0141	-
0.0217	1	.							
3361	CA	CA	. LEU LEU LEU B B 11 11 .	0.1594	0.1106	0.1208	0.0000	0.0049	-
0.0248	1	.							
3362	CB	CB	. LEU LEU LEU B B 11 11 .	0.2140	0.1433	0.1072	0.0110	-0.0032	-
0.0291	1	.							
3363	CG	CG	. LEU LEU LEU B B 11 11 .	0.2305	0.1345	0.1435	0.0500	0.0180	-
0.0572	1	.							
3364	CD1	CD1	. LEU LEU LEU B B 11 11 .	0.2445	0.1950	0.1391	-0.0095	-0.0172	-
0.0564	1	.							
3365	CD2	CD2	. LEU LEU LEU B B 11 11 .	0.2789	0.1283	0.1929	0.0551	0.0206	-
0.0649	1	.							
3366	C	C	. LEU LEU LEU B B 11 11 .	0.1509	0.1245	0.1040	0.0019	0.0060	-
0.0003	1	.							
3367	O	O	. LEU LEU LEU B B 11 11 .	0.1776	0.1141	0.0966	-0.0051	0.0265	
0.0111	1	.							
3368	N	N	. ASP ASP ASP B B 12 12 .	0.1670	0.1342	0.0913	-0.0003	0.0121	-
0.0082	1	.							
3369	CA	CA	. ASP ASP ASP B B 12 12 .	0.1564	0.1031	0.1104	0.0225	0.0059	-
0.0219	1	.							
3370	CB	CB	. ASP ASP ASP B B 12 12 .	0.1754	0.1155	0.1445	0.0137	0.0332	-
0.0031	1	.							
3371	CG	CG	. ASP ASP ASP B B 12 12 .	0.1643	0.1247	0.1716	0.0234	0.0059	-
0.0307	1	.							
3372	OD1	OD1	. ASP ASP ASP B B 12 12 .	0.1704	0.1067	0.1638	-0.0034	0.0291	-
0.0167	1	.							
3373	OD2	OD2	. ASP ASP ASP B B 12 12 .	0.2090	0.1891	0.1691	0.0165	0.0289	
0.0314	1	.							
3374	C	C	. ASP ASP ASP B B 12 12 .	0.1642	0.0967	0.1146	-0.0062	0.0110	-
0.0068	1	.							
3375	O	O	. ASP ASP ASP B B 12 12 .	0.1397	0.1151	0.1122	-0.0020	0.0074	-
0.0131	1	.							
3376	N	N	. SER SER SER B B 13 13 .	0.1571	0.0897	0.0755	0.0022	0.0138	-
0.0200	1	.							
3377	CA	CA	. SER SER SER B B 13 13 .	0.1475	0.1184	0.0884	-0.0115	-0.0043	-
0.0289	1	.							
3378	CB	CB	. SER SER SER B B 13 13 .	0.1798	0.1217	0.0876	0.0036	0.0021	-
0.0190	1	.							
3379	OG	OG	. SER SER SER B B 13 13 .	0.1749	0.1261	0.1400	-0.0119	-0.0076	-
0.0203	1	.							
3380	C	C	. SER SER SER B B 13 13 .	0.1465	0.1261	0.0995	-0.0036	0.0048	-
0.0040	1	.							
3381	O	O	. SER SER SER B B 13 13 .	0.1482	0.1351	0.1311	-0.0094	-0.0058	-
0.0246	1	.							
3382	N	N	. ARG ARG ARG B B 14 14 .	0.1739	0.1044	0.1252	-0.0073	0.0052	-
0.0326	1	.							
3383	CA	CA	. ARG ARG ARG B B 14 14 .	0.2008	0.1538	0.1573	-0.0151	0.0067	-
0.0191	1	.							
3384	CB	CB	. ARG ARG ARG B B 14 14 .	0.2047	0.1349	0.1465	-0.0705	0.0357	
0.0124	1	.							
3385	CG	CG	. ARG ARG ARG B B 14 14 .	0.2437	0.2419	0.2648	-0.0154	0.0531	-
0.0301	1	.							
3386	CD	CD	. ARG ARG ARG B B 14 14 .	0.2561	0.3308	0.2868	0.0071	0.0147	
0.0540	1	.							
3387	NE	NE	. ARG ARG ARG B B 14 14 .	0.2860	0.2330	0.2638	-0.0302	-0.0243	
0.0580	1	.							
3388	CZ	CZ	. ARG ARG ARG B B 14 14 .	0.2490	0.1505	0.2361	-0.0101	0.0041	
0.0122	1	.							





































































4289	O	O	. LEU LEU LEU B B 136 136 .	0.2646	0.2383	0.2814	0.0439	-0.0555	
0.0281	1	.							
4290	N	N	. ALA ALA ALA B B 137 137 .	0.2479	0.2533	0.2222	0.0032	-0.0155	-
0.0027	1	.							
4291	CA	CA	. ALA ALA ALA B B 137 137 .	0.2570	0.2659	0.2466	-0.0105	-0.0260	
0.0010	1	.							
4292	CB	CB	. ALA ALA ALA B B 137 137 .	0.2331	0.2600	0.2242	0.0127	0.0003	
0.0110	1	.							
4293	C	C	. ALA ALA ALA B B 137 137 .	0.2844	0.2961	0.2599	-0.0092	-0.0312	
0.0002	1	.							
4294	O	O	. ALA ALA ALA B B 137 137 .	0.3304	0.3046	0.2720	-0.0158	-0.0380	
0.0088	1	.							
4295	N	N	. GLY GLY GLY B B 138 138 .	0.2966	0.2769	0.2871	-0.0260	-0.0614	-
0.0082	1	.							
4296	CA	CA	. GLY GLY GLY B B 138 138 .	0.3355	0.3334	0.2665	0.0007	-0.0614	-
0.0053	1	.							
4297	C	C	. GLY GLY GLY B B 138 138 .	0.3482	0.3368	0.2840	-0.0066	-0.0546	-
0.0060	1	.							
4298	O	O	. GLY GLY GLY B B 138 138 .	0.3663	0.3657	0.2758	0.0228	-0.0656	-
0.0239	1	.							
4299	N	N	. ASN ASN ASN B B 139 139 .	0.3166	0.3222	0.2834	-0.0150	-0.0639	
0.0199	1	.							
4300	CA	CA	. ASN ASN ASN B B 139 139 .	0.3540	0.3354	0.2834	-0.0312	-0.0442	
0.0094	1	.							
4301	CB	CB	. ASN ASN ASN B B 139 139 .	0.3465	0.3101	0.2822	-0.0369	-0.0533	
0.0291	1	.							
4302	CG	CG	. ASN ASN ASN B B 139 139 .	0.3193	0.3310	0.2813	-0.0503	-0.0771	
0.0141	1	.							
4303	OD1	OD1	. ASN ASN ASN B B 139 139 .	0.3998	0.4286	0.2982	-0.0583	-0.1086	
0.0332	1	.							
4304	ND2	ND2	. ASN ASN ASN B B 139 139 .	0.2765	0.3142	0.2415	0.0111	-0.1048	
0.0020	1	.							
4305	C	C	. ASN ASN ASN B B 139 139 .	0.3740	0.3445	0.3258	-0.0363	-0.0413	-
0.0055	1	.							
4306	O	O	. ASN ASN ASN B B 139 139 .	0.3799	0.3327	0.3023	-0.0422	-0.0372	-
0.0279	1	.							
4307	N	N	. SER SER SER B B 140 140 .	0.4287	0.3860	0.3765	-0.0182	-0.0215	-
0.0112	1	.							
4308	CA	CA	. SER SER SER B B 140 140 .	0.4728	0.4300	0.4300	-0.0349	-0.0176	-
0.0009	1	.							
4309	CB	CB	. SER SER SER B B 140 140 .	0.4846	0.4270	0.4345	-0.0455	-0.0207	-
0.0121	1	.							
4310	OG	OG	. SER SER SER B B 140 140 .	0.5518	0.4964	0.4644	-0.0743	-0.0513	-
0.0303	1	.							
4311	C	C	. SER SER SER B B 140 140 .	0.4838	0.4429	0.4604	-0.0240	-0.0026	
0.0022	1	.							
4312	O	O	. SER SER SER B B 140 140 .	0.5451	0.4497	0.5270	-0.0266	0.0132	
0.0213	1	.							
4313	N	N	. ASP ASP ASP B B 141 141 .	0.4685	0.4645	0.4492	-0.0239	-0.0170	-
0.0002	1	.							
4314	CA	CA	. ASP ASP ASP B B 141 141 .	0.4451	0.4538	0.4122	-0.0044	-0.0201	-
0.0097	1	.							
4315	CB	CB	. ASP ASP ASP B B 141 141 .	0.4641	0.4705	0.4341	-0.0017	-0.0059	-
0.0028	1	.							
4316	CG	CG	. ASP ASP ASP B B 141 141 .	0.5014	0.4947	0.4112	-0.0287	-0.0006	-
0.0232	1	.							
4317	C	C	. ASP ASP ASP B B 141 141 .	0.4101	0.4223	0.4109	-0.0014	-0.0259	-
0.0182	1	.							
4318	O	O	. ASP ASP ASP B B 141 141 .	0.4266	0.4386	0.4281	-0.0043	-0.0522	-
0.0352	1	.							

4319	N	N	. LEU LEU LEU B B 142 142 .	0.3595	0.3876	0.3424	-0.0021	-0.0351	-
0.0194	1	.							
4320	CA	CA	. LEU LEU LEU B B 142 142 .	0.3073	0.3247	0.3093	0.0061	-0.0271	-
0.0252	1	.							
4321	CB	CB	. LEU LEU LEU B B 142 142 .	0.2934	0.2959	0.2625	0.0088	-0.0181	-
0.0394	1	.							
4322	CG	CG	. LEU LEU LEU B B 142 142 .	0.2882	0.2502	0.3231	0.0292	-0.0169	-
0.0270	1	.							
4323	CD1	CD1	. LEU LEU LEU B B 142 142 .	0.4029	0.3482	0.3122	0.0029	-0.0551	-
0.0016	1	.							
4324	CD2	CD2	. LEU LEU LEU B B 142 142 .	0.3691	0.2917	0.3063	0.0444	-0.0231	-
0.0558	1	.							
4325	C	C	. LEU LEU LEU B B 142 142 .	0.3028	0.3146	0.2797	-0.0003	-0.0341	-
0.0162	1	.							
4326	O	O	. LEU LEU LEU B B 142 142 .	0.3268	0.3434	0.3403	-0.0014	-0.0543	-
0.0323	1	.							
4327	N	N	. ILE ILE ILE B B 143 143 .	0.2941	0.2986	0.2038	-0.0066	-0.0430	-
0.0118	1	.							
4328	CA	CA	. ILE ILE ILE B B 143 143 .	0.2524	0.2881	0.2130	-0.0006	-0.0480	-
0.0074	1	.							
4329	CB	CB	. ILE ILE ILE B B 143 143 .	0.2742	0.3564	0.2066	0.0059	-0.0440	-
0.0110	1	.							
4330	CG1	CG1	. ILE ILE ILE B B 143 143 .	0.3447	0.3804	0.2859	0.0063	-0.0430	-
0.0264	1	.							
4331	CD	CD	. ILE ILE ILE B B 143 143 .	0.4445	0.3618	0.4081	0.0002	-0.0349	-
0.0940	1	.							
4332	CG2	CG2	. ILE ILE ILE B B 143 143 .	0.3204	0.4938	0.2653	0.0261	-0.0529	-
0.0633	1	.							
4333	C	C	. ILE ILE ILE B B 143 143 .	0.2403	0.2375	0.1803	0.0122	-0.0397	-
0.0028	1	.							
4334	O	O	. ILE ILE ILE B B 143 143 .	0.2469	0.1872	0.2199	-0.0160	-0.0538	-
0.0127	1	.							
4335	N	N	. LEU LEU LEU B B 144 144 .	0.2040	0.1894	0.1600	0.0074	-0.0384	-
0.0113	1	.							
4336	CA	CA	. LEU LEU LEU B B 144 144 .	0.1941	0.1537	0.1533	0.0057	-0.0265	-
0.0033	1	.							
4337	CB	CB	. LEU LEU LEU B B 144 144 .	0.2331	0.1559	0.1727	0.0201	-0.0151	-
0.0061	1	.							
4338	CG	CG	. LEU LEU LEU B B 144 144 .	0.2343	0.1782	0.1732	-0.0100	-0.0264	-
0.0145	1	.							
4339	CD1	CD1	. LEU LEU LEU B B 144 144 .	0.3097	0.1782	0.0765	0.0403	0.0159	-
0.0284	1	.							
4340	CD2	CD2	. LEU LEU LEU B B 144 144 .	0.2273	0.2377	0.1904	-0.0453	-0.0723	-
0.0264	1	.							
4341	C	C	. LEU LEU LEU B B 144 144 .	0.2186	0.1464	0.1264	0.0118	-0.0031	-
0.0042	1	.							
4342	O	O	. LEU LEU LEU B B 144 144 .	0.2595	0.1550	0.1429	0.0046	0.0057	-
0.0040	1	.							
4343	N	N	. PRO PRO PRO B B 145 145 .	0.2377	0.1433	0.1126	0.0038	0.0133	-
0.0069	1	.							
4344	CA	CA	. PRO PRO PRO B B 145 145 .	0.2065	0.1124	0.1341	-0.0074	0.0264	-
0.0258	1	.							
4345	CB	CB	. PRO PRO PRO B B 145 145 .	0.2521	0.1239	0.0940	0.0039	0.0185	-
0.0285	1	.							
4346	CG	CG	. PRO PRO PRO B B 145 145 .	0.2370	0.1433	0.1201	-0.0159	0.0501	-
0.0272	1	.							
4347	CD	CD	. PRO PRO PRO B B 145 145 .	0.2300	0.1229	0.0828	0.0026	0.0056	-
0.0201	1	.							
4348	C	C	. PRO PRO PRO B B 145 145 .	0.2018	0.1091	0.1307	0.0011	0.0047	-
0.0282	1	.							







4409	C	C	. ASN ASN ASN B B 153 153 .	0.3022	0.3013	0.2612	0.0363	-0.0471	-
0.0538	1	.							
4410	O	O	. ASN ASN ASN B B 153 153 .	0.2787	0.3189	0.2457	0.0348	-0.0652	-
0.0359	1	.							
4411	N	N	. GLY GLY GLY B B 154 154 .	0.2629	0.2538	0.2322	0.0326	-0.0816	-
0.0198	1	.							
4412	CA	CA	. GLY GLY GLY B B 154 154 .	0.2602	0.2687	0.2397	0.0348	-0.0574	-
0.0321	1	.							
4413	C	C	. GLY GLY GLY B B 154 154 .	0.2686	0.2701	0.2230	0.0303	-0.0552	-
0.0481	1	.							
4414	O	O	. GLY GLY GLY B B 154 154 .	0.2363	0.3030	0.2164	0.0740	-0.0571	-
0.0919	1	.							
4415	N	N	. GLY GLY GLY B B 155 155 .	0.2969	0.2783	0.2377	0.0569	-0.0710	-
0.0482	1	.							
4416	CA	CA	. GLY GLY GLY B B 155 155 .	0.2932	0.2923	0.2554	0.0552	-0.0367	-
0.0531	1	.							
4417	C	C	. GLY GLY GLY B B 155 155 .	0.2889	0.2919	0.2628	0.0298	-0.0247	-
0.0290	1	.							
4418	O	O	. GLY GLY GLY B B 155 155 .	0.2985	0.2977	0.2095	-0.0100	-0.0321	-
0.0176	1	.							
4419	N	N	. SER SER SER B B 156 156 .	0.2789	0.2659	0.2708	0.0280	-0.0046	-
0.0249	1	.							
4420	CA	CA	. SER SER SER B B 156 156 .	0.3228	0.3020	0.3027	0.0193	0.0034	-
0.0225	1	.							
4421	CB	CB	. SER SER SER B B 156 156 .	0.2883	0.3015	0.3259	0.0295	0.0231	-
0.0580	1	.							
4422	OG	OG	. SER SER SER B B 156 156 .	0.3423	0.2981	0.3568	0.0315	-0.0101	-
0.0000	1	.							
4423	C	C	. SER SER SER B B 156 156 .	0.3459	0.3129	0.3111	0.0010	0.0124	-
0.0263	1	.							
4424	O	O	. SER SER SER B B 156 156 .	0.3897	0.2941	0.3633	-0.0021	0.0205	-
0.0485	1	.							
4425	N	N	. HIS HIS HIS B B 157 157 .	0.3194	0.2910	0.2895	0.0048	0.0258	-
0.0007	1	.							
4426	CA	CA	. HIS HIS HIS B B 157 157 .	0.3255	0.3276	0.3162	0.0108	0.0139	-
0.0220	1	.							
4427	CB	CB	. HIS HIS HIS B B 157 157 .	0.3040	0.3436	0.2879	0.0427	0.0437	-
0.0371	1	.							
4428	CG	CG	. HIS HIS HIS B B 157 157 .	0.3317	0.3337	0.3802	0.0403	0.0042	-
0.0123	1	.							
4429	ND1	ND1	. HIS HIS HIS B B 157 157 .	0.3546	0.3334	0.4115	0.0116	0.0150	-
0.0827	1	.							
4430	CE1	CE1	. HIS HIS HIS B B 157 157 .	0.3890	0.3469	0.4388	0.0310	-0.0163	-
0.0115	1	.							
4431	NE2	NE2	. HIS HIS HIS B B 157 157 .	0.4433	0.3138	0.4303	0.0284	0.0100	-
0.0035	1	.							
4432	CD2	CD2	. HIS HIS HIS B B 157 157 .	0.3859	0.3693	0.3678	0.0365	-0.0027	-
0.0311	1	.							
4433	C	C	. HIS HIS HIS B B 157 157 .	0.3166	0.3754	0.3236	0.0137	0.0234	-
0.0303	1	.							
4434	O	O	. HIS HIS HIS B B 157 157 .	0.3578	0.4434	0.3512	0.0347	0.0195	-
0.0507	1	.							
4435	N	N	. ALA ALA ALA B B 158 158 .	0.3326	0.3800	0.2960	-0.0162	0.0080	-
0.0159	1	.							
4436	CA	CA	. ALA ALA ALA B B 158 158 .	0.2419	0.2862	0.2824	-0.0328	-0.0203	-
0.0023	1	.							
4437	CB	CB	. ALA ALA ALA B B 158 158 .	0.3070	0.3372	0.3041	-0.0320	0.0116	-
0.0307	1	.							
4438	C	C	. ALA ALA ALA B B 158 158 .	0.2870	0.3150	0.3126	-0.0395	-0.0074	-
0.0257	1	.							



4469	N	N	. ALA ALA ALA B B 163 163 .	0.2421	0.2431	0.2673	0.0194	-0.0801	-
0.0455	1	.							
4470	CA	CA	. ALA ALA ALA B B 163 163 .	0.2305	0.2260	0.2444	0.0263	-0.0468	-
0.0232	1	.							
4471	CB	CB	. ALA ALA ALA B B 163 163 .	0.2340	0.2456	0.2932	-0.0039	-0.0617	-
0.0099	1	.							
4472	C	C	. ALA ALA ALA B B 163 163 .	0.2129	0.2280	0.2317	0.0213	-0.0417	-
0.0363	1	.							
4473	O	O	. ALA ALA ALA B B 163 163 .	0.2680	0.2592	0.2382	0.0143	-0.0410	-
0.0587	1	.							
4474	N	N	. MET MET MET B B 164 164 .	0.2240	0.2248	0.2154	0.0221	-0.0466	-
0.0227	1	.							
4475	CA	CA	. MET MET MET B B 164 164 .	0.2124	0.1965	0.2112	0.0344	-0.0124	-
0.0409	1	.							
4476	CB	CB	. MET MET MET B B 164 164 .	0.2330	0.2273	0.1852	0.0225	-0.0275	-
0.0332	1	.							
4477	CG	CG	. MET MET MET B B 164 164 .	0.2200	0.2183	0.1696	0.0330	-0.0046	-
0.0587	1	.							
4478	SD	SD	. MET MET MET B B 164 164 .	0.2274	0.2253	0.2267	0.0143	-0.0480	-
0.0555	1	.							
4479	CE	CE	. MET MET MET B B 164 164 .	0.2273	0.2504	0.2217	-0.0145	-0.0822	-
0.0018	1	.							
4480	C	C	. MET MET MET B B 164 164 .	0.2484	0.2017	0.2208	0.0441	-0.0192	-
0.0447	1	.							
4481	O	O	. MET MET MET B B 164 164 .	0.2473	0.2103	0.2306	0.0563	-0.0493	-
0.0358	1	.							
4482	N	N	. GLN GLN GLN B B 165 165 .	0.2169	0.1808	0.1825	0.0350	-0.0037	-
0.0456	1	.							
4483	CA	CA	. GLN GLN GLN B B 165 165 .	0.2295	0.1897	0.2126	0.0435	-0.0066	-
0.0271	1	.							
4484	CB	CB	. GLN GLN GLN B B 165 165 .	0.2321	0.2301	0.2102	0.0630	0.0190	-
0.0304	1	.							
4485	CG	CG	. GLN GLN GLN B B 165 165 .	0.2054	0.1826	0.2142	0.0460	0.0288	-
0.0159	1	.							
4486	CD	CD	. GLN GLN GLN B B 165 165 .	0.2229	0.2337	0.1935	0.0529	0.0227	-
0.0302	1	.							
4487	OE1	OE1	. GLN GLN GLN B B 165 165 .	0.2805	0.2151	0.2196	0.1250	-0.0142	-
0.0210	1	.							
4488	NE2	NE2	. GLN GLN GLN B B 165 165 .	0.2479	0.2109	0.2695	0.0423	0.0293	-
0.0108	1	.							
4489	C	C	. GLN GLN GLN B B 165 165 .	0.2476	0.1937	0.1840	0.0494	-0.0229	-
0.0252	1	.							
4490	O	O	. GLN GLN GLN B B 165 165 .	0.2821	0.2169	0.1952	0.0990	-0.0345	-
0.0330	1	.							
4491	N	N	. GLU GLU GLU B B 166 166 .	0.2549	0.1587	0.1658	0.0412	-0.0244	-
0.0363	1	.							
4492	CA	CA	. GLU GLU GLU B B 166 166 .	0.2339	0.1772	0.1600	0.0399	-0.0146	-
0.0376	1	.							
4493	CB	CB	. GLU GLU GLU B B 166 166 .	0.2308	0.2258	0.1802	0.0405	0.0192	-
0.0271	1	.							
4494	CG	CG	. GLU GLU GLU B B 166 166 .	0.2509	0.2630	0.2794	0.0476	0.0000	-
0.0805	1	.							
4495	CD	CD	. GLU GLU GLU B B 166 166 .	0.2569	0.2561	0.3002	0.0296	-0.0011	-
0.0427	1	.							
4496	OE1	OE1	. GLU GLU GLU B B 166 166 .	0.2991	0.1970	0.2489	0.0513	0.0346	-
0.0073	1	.							
4497	OE2	OE2	. GLU GLU GLU B B 166 166 .	0.3454	0.3415	0.3688	0.1129	0.0303	-
0.0450	1	.							
4498	C	C	. GLU GLU GLU B B 166 166 .	0.2251	0.1761	0.1282	0.0477	-0.0034	-
0.0311	1	.							

4499	O	O	. GLU GLU GLU B B 166 166 .	0.2003	0.1769	0.1371	0.0531	-0.0211	-
0.0084	1	.							
4500	N	N	. PHE PHE PHE B B 167 167 .	0.2079	0.1602	0.0954	0.0530	-0.0045	-
0.0363	1	.							
4501	CA	CA	. PHE PHE PHE B B 167 167 .	0.1839	0.1491	0.1189	0.0351	0.0149	-
0.0473	1	.							
4502	CB	CB	. PHE PHE PHE B B 167 167 .	0.1900	0.1703	0.1334	0.0182	-0.0056	-
0.0169	1	.							
4503	CG	CG	. PHE PHE PHE B B 167 167 .	0.1997	0.1841	0.1679	-0.0081	0.0035	-
0.0078	1	.							
4504	CD1	CD1	. PHE PHE PHE B B 167 167 .	0.1480	0.1761	0.2728	-0.0156	-0.0348	-
0.0157	1	.							
4505	CE1	CE1	. PHE PHE PHE B B 167 167 .	0.1869	0.1735	0.2282	-0.0005	-0.0290	-
0.0163	1	.							
4506	CZ	CZ	. PHE PHE PHE B B 167 167 .	0.1686	0.2306	0.2338	-0.0081	-0.0506	-
0.0091	1	.							
4507	CE2	CE2	. PHE PHE PHE B B 167 167 .	0.1659	0.1749	0.2438	0.0322	0.0241	-
0.0108	1	.							
4508	CD2	CD2	. PHE PHE PHE B B 167 167 .	0.1870	0.2125	0.2132	0.0451	0.0069	-
0.0392	1	.							
4509	C	C	. PHE PHE PHE B B 167 167 .	0.1859	0.1565	0.1238	0.0188	-0.0049	-
0.0157	1	.							
4510	O	O	. PHE PHE PHE B B 167 167 .	0.2519	0.1625	0.1629	0.0299	-0.0015	-
0.0078	1	.							
4511	N	N	. MET MET MET B B 168 168 .	0.1841	0.1583	0.1249	0.0333	-0.0054	-
0.0058	1	.							
4512	CA	CA	. MET MET MET B B 168 168 .	0.1888	0.1591	0.1190	0.0290	0.0014	-
0.0363	1	.							
4513	CB	CB	. MET MET MET B B 168 168 .	0.1922	0.1714	0.1788	0.0423	0.0172	-
0.0261	1	.							
4514	CG	CG	. MET MET MET B B 168 168 .	0.1928	0.2139	0.1134	0.0524	-0.0077	-
0.0294	1	.							
4515	SD	SD	. MET MET MET B B 168 168 .	0.2461	0.2235	0.3312	0.0609	0.0294	-
0.0130	1	.							
4516	CE	CE	. MET MET MET B B 168 168 .	0.2407	0.2428	0.2282	0.0280	0.0751	-
0.0772	1	.							
4517	C	C	. MET MET MET B B 168 168 .	0.1978	0.1365	0.1532	0.0316	0.0295	-
0.0098	1	.							
4518	O	O	. MET MET MET B B 168 168 .	0.2163	0.1320	0.1377	0.0188	0.0270	-
0.0165	1	.							
4519	N	N	. ILE ILE ILE B B 169 169 .	0.1978	0.1249	0.1339	0.0304	0.0195	-
0.0136	1	.							
4520	CA	CA	. ILE ILE ILE B B 169 169 .	0.2131	0.1711	0.1593	0.0405	0.0116	-
0.0150	1	.							
4521	CB	CB	. ILE ILE ILE B B 169 169 .	0.1827	0.1691	0.1357	0.0392	0.0231	-
0.0284	1	.							
4522	CG1	CG1	. ILE ILE ILE B B 169 169 .	0.1944	0.1770	0.0971	0.0624	0.0062	-
0.0252	1	.							
4523	CD	CD	. ILE ILE ILE B B 169 169 .	0.1893	0.1758	0.1990	0.0609	0.0059	-
0.0219	1	.							
4524	CG2	CG2	. ILE ILE ILE B B 169 169 .	0.2010	0.1826	0.1570	0.0001	-0.0107	-
0.0211	1	.							
4525	C	C	. ILE ILE ILE B B 169 169 .	0.1983	0.1747	0.1486	0.0241	0.0071	-
0.0075	1	.							
4526	O	O	. ILE ILE ILE B B 169 169 .	0.1921	0.1779	0.1282	0.0481	0.0244	-
0.0009	1	.							
4527	N	N	. LEU LEU LEU B B 170 170 .	0.2197	0.1749	0.1347	0.0482	0.0077	-
0.0170	1	.							
4528	CA	CA	. LEU LEU LEU B B 170 170 .	0.1920	0.1381	0.1069	0.0538	0.0133	-
0.0159	1	.							





4589	NH1	NH1	. ARG ARG ARG B B 178 178 .	0.4980	0.2219	0.4640	0.0127	-0.0813	-
0.0341	1	.							
4590	NH2	NH2	. ARG ARG ARG B B 178 178 .	0.3996	0.1811	0.3858	0.0076	0.0573	
0.0225	1	.							
4591	C	C	. ARG ARG ARG B B 178 178 .	0.1740	0.1144	0.1206	0.0077	-0.0016	-
0.0141	1	.							
4592	O	O	. ARG ARG ARG B B 178 178 .	0.1882	0.0974	0.1558	0.0125	0.0050	-
0.0158	1	.							
4593	N	N	. ASP ASP ASP B B 179 179 .	0.1928	0.1026	0.1216	0.0229	0.0051	-
0.0149	1	.							
4594	CA	CA	. ASP ASP ASP B B 179 179 .	0.1740	0.1281	0.1152	-0.0078	0.0012	-
0.0266	1	.							
4595	CB	CB	. ASP ASP ASP B B 179 179 .	0.1834	0.1820	0.0985	0.0058	-0.0073	-
0.0462	1	.							
4596	CG	CG	. ASP ASP ASP B B 179 179 .	0.1762	0.1922	0.1688	-0.0108	0.0187	-
0.0116	1	.							
4597	OD1	OD1	. ASP ASP ASP B B 179 179 .	0.3791	0.2223	0.1953	0.0263	0.0118	-
0.0155	1	.							
4598	OD2	OD2	. ASP ASP ASP B B 179 179 .	0.3044	0.2590	0.2438	0.1123	0.0274	-
0.0074	1	.							
4599	C	C	. ASP ASP ASP B B 179 179 .	0.1746	0.1390	0.1386	0.0123	0.0002	-
0.0050	1	.							
4600	O	O	. ASP ASP ASP B B 179 179 .	0.1877	0.1381	0.1461	0.0163	-0.0003	-
0.0027	1	.							
4601	N	N	. ALA ALA ALA B B 180 180 .	0.2059	0.1474	0.1123	0.0277	-0.0198	
0.0121	1	.							
4602	CA	CA	. ALA ALA ALA B B 180 180 .	0.1714	0.1407	0.1217	0.0134	-0.0141	
0.0025	1	.							
4603	CB	CB	. ALA ALA ALA B B 180 180 .	0.1753	0.1188	0.1164	0.0641	-0.0199	
0.0028	1	.							
4604	C	C	. ALA ALA ALA B B 180 180 .	0.1725	0.1400	0.1338	0.0120	0.0020	-
0.0070	1	.							
4605	O	O	. ALA ALA ALA B B 180 180 .	0.1814	0.1578	0.1230	0.0138	0.0039	-
0.0119	1	.							
4606	N	N	. MET MET MET B B 181 181 .	0.1895	0.1224	0.1244	0.0109	0.0026	-
0.0036	1	.							
4607	CA	CA	. MET MET MET B B 181 181 .	0.1765	0.1359	0.1316	0.0113	0.0061	-
0.0242	1	.							
4608	CB	CB	. MET MET MET B B 181 181 .	0.1799	0.1493	0.1235	0.0106	0.0249	-
0.0100	1	.							
4609	CG	CG	. MET MET MET B B 181 181 .	0.1674	0.1088	0.1678	0.0005	-0.0118	-
0.0117	1	.							
4610	SD	SD	. MET MET MET B B 181 181 .	0.2145	0.1600	0.1617	0.0309	0.0092	-
0.0195	1	.							
4611	CE	CE	. MET MET MET B B 181 181 .	0.2567	0.1114	0.1402	0.0400	-0.0379	-
0.0194	1	.							
4612	C	C	. MET MET MET B B 181 181 .	0.1846	0.1334	0.1399	0.0043	0.0112	-
0.0135	1	.							
4613	O	O	. MET MET MET B B 181 181 .	0.1885	0.1507	0.1620	0.0212	0.0195	-
0.0063	1	.							
4614	N	N	. ARG ARG ARG B B 182 182 .	0.1953	0.1104	0.1281	0.0140	0.0187	-
0.0017	1	.							
4615	CA	CA	. ARG ARG ARG B B 182 182 .	0.1816	0.1297	0.1446	0.0164	0.0118	-
0.0084	1	.							
4616	CB	CB	. ARG ARG ARG B B 182 182 .	0.2054	0.1198	0.1713	0.0418	0.0075	-
0.0078	1	.							
4617	CG	CG	. ARG ARG ARG B B 182 182 .	0.1972	0.1595	0.1613	0.0381	-0.0033	-
0.0123	1	.							
4618	CD	CD	. ARG ARG ARG B B 182 182 .	0.2475	0.1222	0.3712	0.0466	0.0583	-
0.0277	1	.							

4619	NE	NE	. ARG ARG ARG B B 182 182 .	0.3137	0.3396	0.4282	0.0545	0.0260	-
0.0879	1	.							
4620	CZ	CZ	. ARG ARG ARG B B 182 182 .	0.3849	0.3804	0.4095	0.0128	0.0295	-
0.0829	1	.							
4621	NH1	NH1	. ARG ARG ARG B B 182 182 .	0.4245	0.4320	0.2940	-0.0134	0.1429	-
0.1397	1	.							
4622	NH2	NH2	. ARG ARG ARG B B 182 182 .	0.3842	0.4085	0.4495	-0.0146	-0.0506	-
0.0474	1	.							
4623	C	C	. ARG ARG ARG B B 182 182 .	0.1536	0.1243	0.1544	0.0205	-0.0007	-
0.0129	1	.							
4624	O	O	. ARG ARG ARG B B 182 182 .	0.1831	0.1374	0.1406	0.0373	0.0023	-
0.0139	1	.							
4625	N	N	. LEU LEU LEU B B 183 183 .	0.1636	0.1244	0.1228	0.0243	0.0156	-
0.0141	1	.							
4626	CA	CA	. LEU LEU LEU B B 183 183 .	0.1768	0.1397	0.1299	0.0347	0.0054	-
0.0072	1	.							
4627	CB	CB	. LEU LEU LEU B B 183 183 .	0.2132	0.1499	0.1185	0.0231	0.0064	-
0.0142	1	.							
4628	CG	CG	. LEU LEU LEU B B 183 183 .	0.2333	0.1686	0.1791	0.0238	0.0016	-
0.0119	1	.							
4629	CD1	CD1	. LEU LEU LEU B B 183 183 .	0.2772	0.1580	0.1999	0.0164	0.0381	-
0.0107	1	.							
4630	CD2	CD2	. LEU LEU LEU B B 183 183 .	0.3319	0.2083	0.1623	0.0422	-0.0329	-
0.0574	1	.							
4631	C	C	. LEU LEU LEU B B 183 183 .	0.1532	0.1668	0.1394	0.0105	0.0101	-
0.0040	1	.							
4632	O	O	. LEU LEU LEU B B 183 183 .	0.1657	0.1875	0.1398	0.0185	0.0004	-
0.0152	1	.							
4633	N	N	. GLY GLY GLY B B 184 184 .	0.1759	0.1845	0.1216	0.0341	0.0174	-
0.0205	1	.							
4634	CA	CA	. GLY GLY GLY B B 184 184 .	0.1792	0.1805	0.1733	0.0293	0.0085	-
0.0068	1	.							
4635	C	C	. GLY GLY GLY B B 184 184 .	0.1657	0.1572	0.1596	0.0190	0.0126	-
0.0183	1	.							
4636	O	O	. GLY GLY GLY B B 184 184 .	0.1837	0.1494	0.1596	0.0331	-0.0023	-
0.0073	1	.							
4637	N	N	. ALA ALA ALA B B 185 185 .	0.1559	0.1330	0.1331	0.0363	0.0115	-
0.0230	1	.							
4638	CA	CA	. ALA ALA ALA B B 185 185 .	0.1703	0.1619	0.1574	0.0144	0.0133	-
0.0040	1	.							
4639	CB	CB	. ALA ALA ALA B B 185 185 .	0.1975	0.1071	0.1514	-0.0294	0.0048	-
0.0095	1	.							
4640	C	C	. ALA ALA ALA B B 185 185 .	0.1562	0.1294	0.1505	0.0117	0.0048	-
0.0087	1	.							
4641	O	O	. ALA ALA ALA B B 185 185 .	0.1672	0.1448	0.1531	0.0022	0.0070	-
0.0097	1	.							
4642	N	N	. GLU GLU GLU B B 186 186 .	0.1683	0.1724	0.1235	0.0147	0.0289	-
0.0159	1	.							
4643	CA	CA	. GLU GLU GLU B B 186 186 .	0.1793	0.1506	0.1566	0.0320	0.0049	-
0.0229	1	.							
4644	CB	CB	. GLU GLU GLU B B 186 186 .	0.1986	0.1012	0.1568	0.0309	0.0126	-
0.0178	1	.							
4645	CG	CG	. GLU GLU GLU B B 186 186 .	0.1869	0.1563	0.1619	0.0303	0.0383	-
0.0192	1	.							
4646	CD	CD	. GLU GLU GLU B B 186 186 .	0.2394	0.2102	0.1977	0.0443	0.0723	-
0.0014	1	.							
4647	OE1	OE1	. GLU GLU GLU B B 186 186 .	0.3259	0.2528	0.2098	0.0738	0.0819	-
0.0340	1	.							
4648	OE2	OE2	. GLU GLU GLU B B 186 186 .	0.2880	0.1736	0.2241	0.0573	0.0617	-
0.0142	1	.							











4769	CA	CA	. ASP ASP ASP B B 202 202 .	0.3648	0.4006	0.3945	-0.0584	0.0465	-
0.0065	1	.							
4770	CB	CB	. ASP ASP ASP B B 202 202 .	0.4199	0.4146	0.4576	-0.0589	0.0165	-
0.0289	1	.							
4771	CG	CG	. ASP ASP ASP B B 202 202 .	0.5069	0.5156	0.5579	-0.0089	0.0051	-
0.0089	1	.							
4772	OD1	OD1	. ASP ASP ASP B B 202 202 .	0.5328	0.5622	0.6944	0.0257	0.0489	-
0.0582	1	.							
4773	OD2	OD2	. ASP ASP ASP B B 202 202 .	0.6833	0.5491	0.7899	0.0029	-0.0080	-
0.0327	1	.							
4774	C	C	. ASP ASP ASP B B 202 202 .	0.3167	0.3626	0.3618	-0.0675	0.0510	-
0.0267	1	.							
4775	O	O	. ASP ASP ASP B B 202 202 .	0.3460	0.3653	0.3805	-0.0698	0.0495	-
0.0547	1	.							
4776	N	N	. ALA ALA ALA B B 203 203 .	0.2496	0.3377	0.3179	-0.0760	0.0675	-
0.0408	1	.							
4777	CA	CA	. ALA ALA ALA B B 203 203 .	0.2361	0.2716	0.2910	-0.0498	0.0691	-
0.0387	1	.							
4778	CB	CB	. ALA ALA ALA B B 203 203 .	0.2291	0.2957	0.2999	-0.0680	0.0642	-
0.0263	1	.							
4779	C	C	. ALA ALA ALA B B 203 203 .	0.2132	0.2613	0.2644	-0.0363	0.0550	-
0.0438	1	.							
4780	O	O	. ALA ALA ALA B B 203 203 .	0.2440	0.2070	0.2811	-0.0044	0.0590	-
0.0398	1	.							
4781	N	N	. THR THR THR B B 204 204 .	0.1764	0.2291	0.2600	-0.0113	0.0439	-
0.0396	1	.							
4782	CA	CA	. THR THR THR B B 204 204 .	0.1971	0.2318	0.2455	-0.0283	0.0728	-
0.0411	1	.							
4783	CB	CB	. THR THR THR B B 204 204 .	0.2174	0.2636	0.2298	-0.0017	0.0775	-
0.0133	1	.							
4784	OG1	OG1	. THR THR THR B B 204 204 .	0.2523	0.2824	0.3251	-0.0128	0.0237	-
0.0039	1	.							
4785	CG2	CG2	. THR THR THR B B 204 204 .	0.2087	0.3038	0.3320	-0.0200	0.1316	-
0.0681	1	.							
4786	C	C	. THR THR THR B B 204 204 .	0.1742	0.2069	0.1982	-0.0144	0.0530	-
0.0353	1	.							
4787	O	O	. THR THR THR B B 204 204 .	0.2219	0.2413	0.1649	-0.0211	0.0574	-
0.0345	1	.							
4788	N	N	. ASN ASN ASN B B 205 205 .	0.1814	0.2227	0.2145	-0.0375	0.0438	-
0.0529	1	.							
4789	CA	CA	. ASN ASN ASN B B 205 205 .	0.1813	0.2191	0.2135	-0.0263	0.0337	-
0.0559	1	.							
4790	CB	CB	. ASN ASN ASN B B 205 205 .	0.2099	0.2363	0.2277	-0.0258	0.0161	-
0.0592	1	.							
4791	CG	CG	. ASN ASN ASN B B 205 205 .	0.2267	0.2838	0.2720	-0.0451	0.0251	-
0.0407	1	.							
4792	OD1	OD1	. ASN ASN ASN B B 205 205 .	0.3041	0.3005	0.2585	-0.0223	-0.0422	-
0.0405	1	.							
4793	ND2	ND2	. ASN ASN ASN B B 205 205 .	0.2405	0.3178	0.3642	-0.0491	0.0605	-
0.1425	1	.							
4794	C	C	. ASN ASN ASN B B 205 205 .	0.2025	0.1996	0.2095	-0.0416	0.0265	-
0.0584	1	.							
4795	O	O	. ASN ASN ASN B B 205 205 .	0.2057	0.2100	0.2138	-0.0661	0.0416	-
0.0210	1	.							
4796	N	N	. VAL VAL VAL B B 206 206 .	0.1839	0.1946	0.2020	-0.0423	0.0525	-
0.0507	1	.							
4797	CA	CA	. VAL VAL VAL B B 206 206 .	0.1871	0.1666	0.2054	-0.0381	0.0377	-
0.0346	1	.							
4798	CB	CB	. VAL VAL VAL B B 206 206 .	0.2025	0.1589	0.2015	-0.0342	0.0751	-
0.0235	1	.							











4919	CG	CG	. LEU LEU LEU B B 223 223 .	0.1959	0.1520	0.1632	0.0384	-0.0080	
0.0113	1	.							
4920	CD1	CD1	. LEU LEU LEU B B 223 223 .	0.2189	0.1778	0.2143	-0.0051	-0.0488	
0.0497	1	.							
4921	CD2	CD2	. LEU LEU LEU B B 223 223 .	0.1728	0.2396	0.2186	0.0427	-0.0144	
0.0127	1	.							
4922	C	C	. LEU LEU LEU B B 223 223 .	0.2078	0.2009	0.1689	0.0364	-0.0164	-
0.0072	1	.							
4923	O	O	. LEU LEU LEU B B 223 223 .	0.2287	0.2258	0.1609	0.0153	-0.0045	-
0.0152	1	.							
4924	N	N	. GLU GLU GLU B B 224 224 .	0.2122	0.2114	0.1555	0.0297	0.0145	-
0.0171	1	.							
4925	CA	CA	. GLU GLU GLU B B 224 224 .	0.2258	0.2199	0.2054	0.0349	0.0135	-
0.0046	1	.							
4926	CB	CB	. GLU GLU GLU B B 224 224 .	0.2441	0.2465	0.2549	0.0284	0.0294	-
0.0058	1	.							
4927	CG	CG	. GLU GLU GLU B B 224 224 .	0.3376	0.3549	0.3648	0.0286	0.0824	-
0.0158	1	.							
4928	CD	CD	. GLU GLU GLU B B 224 224 .	0.5203	0.4814	0.4405	-0.0078	0.1291	-
0.0206	1	.							
4929	OE1	OE1	. GLU GLU GLU B B 224 224 .	0.5564	0.5089	0.5766	-0.0943	0.1445	-
0.0488	1	.							
4930	OE2	OE2	. GLU GLU GLU B B 224 224 .	0.6052	0.5773	0.5700	0.0606	0.1300	
0.0510	1	.							
4931	C	C	. GLU GLU GLU B B 224 224 .	0.2534	0.2262	0.2051	0.0209	0.0184	-
0.0018	1	.							
4932	O	O	. GLU GLU GLU B B 224 224 .	0.2387	0.2275	0.2018	0.0306	0.0376	-
0.0007	1	.							
4933	N	N	. LEU LEU LEU B B 225 225 .	0.2204	0.2303	0.1955	0.0294	0.0097	
0.0114	1	.							
4934	CA	CA	. LEU LEU LEU B B 225 225 .	0.1873	0.2165	0.1662	0.0276	0.0123	-
0.0058	1	.							
4935	CB	CB	. LEU LEU LEU B B 225 225 .	0.2293	0.2247	0.1776	0.0172	-0.0038	-
0.0421	1	.							
4936	CG	CG	. LEU LEU LEU B B 225 225 .	0.1902	0.2327	0.2326	0.0370	-0.0096	-
0.0043	1	.							
4937	CD1	CD1	. LEU LEU LEU B B 225 225 .	0.3022	0.2274	0.1616	0.0507	-0.0094	-
0.0010	1	.							
4938	CD2	CD2	. LEU LEU LEU B B 225 225 .	0.1874	0.3159	0.2406	0.0825	-0.0045	
0.0134	1	.							
4939	C	C	. LEU LEU LEU B B 225 225 .	0.2023	0.1759	0.1504	0.0313	0.0010	-
0.0121	1	.							
4940	O	O	. LEU LEU LEU B B 225 225 .	0.2024	0.2051	0.1929	0.0090	0.0035	
0.0107	1	.							
4941	N	N	. VAL VAL VAL B B 226 226 .	0.1804	0.1883	0.1527	0.0155	0.0073	-
0.0050	1	.							
4942	CA	CA	. VAL VAL VAL B B 226 226 .	0.1773	0.1576	0.1270	0.0203	0.0058	-
0.0242	1	.							
4943	CB	CB	. VAL VAL VAL B B 226 226 .	0.1912	0.2004	0.1594	0.0348	-0.0003	-
0.0388	1	.							
4944	CG1	CG1	. VAL VAL VAL B B 226 226 .	0.1786	0.2073	0.1655	0.0353	0.0055	-
0.0367	1	.							
4945	CG2	CG2	. VAL VAL VAL B B 226 226 .	0.2014	0.2184	0.1865	0.0455	-0.0004	-
0.0553	1	.							
4946	C	C	. VAL VAL VAL B B 226 226 .	0.1829	0.1570	0.1459	0.0095	0.0187	-
0.0083	1	.							
4947	O	O	. VAL VAL VAL B B 226 226 .	0.2266	0.1743	0.1396	0.0191	0.0243	-
0.0258	1	.							
4948	N	N	. LYS LYS LYS B B 227 227 .	0.2101	0.1839	0.1584	0.0380	0.0270	-
0.0060	1	.							















5129	CZ	CZ	. TYR TYR TYR B B 251 251 .	0.3818	0.3272	0.3073	0.1191	0.0207	
0.0572	1	.							
5130	OH	OH	. TYR TYR TYR B B 251 251 .	0.4360	0.3935	0.3133	0.1660	0.0034	
0.1024	1	.							
5131	CE2	CE2	. TYR TYR TYR B B 251 251 .	0.4046	0.3460	0.3131	0.1435	0.0074	
0.0843	1	.							
5132	CD2	CD2	. TYR TYR TYR B B 251 251 .	0.4027	0.2569	0.2792	0.1571	-0.0143	
0.0490	1	.							
5133	C	C	. TYR TYR TYR B B 251 251 .	0.2688	0.1820	0.2226	-0.0073	-0.0466	-
0.0433	1	.							
5134	O	O	. TYR TYR TYR B B 251 251 .	0.3073	0.2228	0.2482	0.0074	-0.0450	-
0.0549	1	.							
5135	N	N	. ARG ARG ARG B B 252 252 .	0.2546	0.1637	0.2211	-0.0055	-0.0606	-
0.0483	1	.							
5136	CA	CA	. ARG ARG ARG B B 252 252 .	0.2566	0.1873	0.2638	-0.0192	-0.0621	-
0.0347	1	.							
5137	CB	CB	. ARG ARG ARG B B 252 252 .	0.2580	0.2070	0.2729	-0.0017	-0.0748	-
0.0198	1	.							
5138	CG	CG	. ARG ARG ARG B B 252 252 .	0.3807	0.1909	0.3104	-0.0031	-0.0436	-
0.0390	1	.							
5139	CD	CD	. ARG ARG ARG B B 252 252 .	0.3798	0.2706	0.3457	0.0155	-0.0112	
0.0069	1	.							
5140	NE	NE	. ARG ARG ARG B B 252 252 .	0.4600	0.3002	0.3909	0.0028	-0.0383	-
0.0039	1	.							
5141	CZ	CZ	. ARG ARG ARG B B 252 252 .	0.4262	0.2785	0.3195	0.0078	-0.0242	
0.0066	1	.							
5142	NH1	NH1	. ARG ARG ARG B B 252 252 .	0.4677	0.2200	0.4275	0.0174	-0.0255	-
0.0341	1	.							
5143	NH2	NH2	. ARG ARG ARG B B 252 252 .	0.4355	0.3399	0.3197	0.0315	-0.0996	-
0.0639	1	.							
5144	C	C	. ARG ARG ARG B B 252 252 .	0.2480	0.2074	0.2524	-0.0016	-0.0505	-
0.0419	1	.							
5145	O	O	. ARG ARG ARG B B 252 252 .	0.2226	0.1923	0.2676	-0.0026	-0.0494	-
0.0158	1	.							
5146	N	N	. ASP ASP ASP B B 253 253 .	0.2676	0.2293	0.2857	-0.0087	-0.0359	-
0.0214	1	.							
5147	CA	CA	. ASP ASP ASP B B 253 253 .	0.2939	0.2475	0.2875	0.0018	-0.0453	-
0.0257	1	.							
5148	CB	CB	. ASP ASP ASP B B 253 253 .	0.3004	0.2845	0.3253	-0.0104	-0.0502	-
0.0120	1	.							
5149	CG	CG	. ASP ASP ASP B B 253 253 .	0.4029	0.3650	0.3942	-0.0205	-0.0594	-
0.0506	1	.							
5150	OD1	OD1	. ASP ASP ASP B B 253 253 .	0.5237	0.4162	0.5299	-0.0491	-0.1373	-
0.1165	1	.							
5151	OD2	OD2	. ASP ASP ASP B B 253 253 .	0.4399	0.3705	0.4326	-0.0098	-0.0736	-
0.1014	1	.							
5152	C	C	. ASP ASP ASP B B 253 253 .	0.2705	0.2324	0.2871	0.0182	-0.0362	-
0.0140	1	.							
5153	O	O	. ASP ASP ASP B B 253 253 .	0.2447	0.2233	0.2984	0.0053	-0.0332	-
0.0186	1	.							
5154	N	N	. GLY GLY GLY B B 254 254 .	0.2387	0.1770	0.2568	0.0194	-0.0483	-
0.0240	1	.							
5155	CA	CA	. GLY GLY GLY B B 254 254 .	0.2563	0.2056	0.2438	0.0455	-0.0331	-
0.0125	1	.							
5156	C	C	. GLY GLY GLY B B 254 254 .	0.2375	0.2118	0.2424	0.0259	-0.0262	-
0.0156	1	.							
5157	O	O	. GLY GLY GLY B B 254 254 .	0.2690	0.1973	0.2912	0.0264	-0.0231	-
0.0087	1	.							
5158	N	N	. LYS LYS LYS B B 255 255 .	0.2465	0.1922	0.2296	0.0275	-0.0428	-
0.0221	1	.							



5189	CB	CB	. LEU LEU LEU B B 258 258 .	0.2726	0.2565	0.3060	0.0431	-0.0572	-
0.0343	1	.							
5190	CG	CG	. LEU LEU LEU B B 258 258 .	0.2781	0.2424	0.2760	0.0253	-0.0172	-
0.0295	1	.							
5191	CD1	CD1	. LEU LEU LEU B B 258 258 .	0.2451	0.3130	0.3346	0.0540	-0.0265	-
0.0273	1	.							
5192	CD2	CD2	. LEU LEU LEU B B 258 258 .	0.2352	0.2373	0.3115	0.0163	-0.0509	-
0.0175	1	.							
5193	C	C	. LEU LEU LEU B B 258 258 .	0.2851	0.2657	0.3283	0.0136	-0.0777	-
0.0297	1	.							
5194	O	O	. LEU LEU LEU B B 258 258 .	0.2978	0.2310	0.3134	0.0077	-0.1423	-
0.0266	1	.							
5195	N	N	. ASP ASP ASP B B 259 259 .	0.2595	0.2604	0.3164	-0.0237	-0.0678	-
0.0199	1	.							
5196	CA	CA	. ASP ASP ASP B B 259 259 .	0.3057	0.3153	0.3442	-0.0194	-0.0487	-
0.0290	1	.							
5197	CB	CB	. ASP ASP ASP B B 259 259 .	0.2718	0.3147	0.3548	-0.0147	-0.0523	-
0.0219	1	.							
5198	CG	CG	. ASP ASP ASP B B 259 259 .	0.3128	0.3758	0.3715	-0.0174	-0.0526	-
0.0110	1	.							
5199	OD1	OD1	. ASP ASP ASP B B 259 259 .	0.3008	0.3207	0.3846	-0.0314	-0.0973	-
0.0137	1	.							
5200	OD2	OD2	. ASP ASP ASP B B 259 259 .	0.3012	0.3914	0.4902	-0.0521	-0.0412	-
0.0464	1	.							
5201	C	C	. ASP ASP ASP B B 259 259 .	0.3110	0.3340	0.3424	-0.0181	-0.0400	-
0.0263	1	.							
5202	O	O	. ASP ASP ASP B B 259 259 .	0.3129	0.3059	0.3372	-0.0196	-0.0631	-
0.0509	1	.							
5203	N	N	. PHE PHE PHE B B 260 260 .	0.3035	0.3320	0.3393	-0.0172	-0.0529	-
0.0342	1	.							
5204	CA	CA	. PHE PHE PHE B B 260 260 .	0.3125	0.3197	0.3294	-0.0033	-0.0414	-
0.0080	1	.							
5205	CB	CB	. PHE PHE PHE B B 260 260 .	0.3097	0.2853	0.3679	-0.0287	-0.0148	-
0.0060	1	.							
5206	CG	CG	. PHE PHE PHE B B 260 260 .	0.2911	0.2261	0.2406	-0.0155	-0.0088	-
0.0246	1	.							
5207	CD1	CD1	. PHE PHE PHE B B 260 260 .	0.3069	0.2045	0.1934	0.0080	-0.0345	-
0.0262	1	.							
5208	CE1	CE1	. PHE PHE PHE B B 260 260 .	0.2539	0.1960	0.2375	0.0292	-0.0405	-
0.0104	1	.							
5209	CZ	CZ	. PHE PHE PHE B B 260 260 .	0.2471	0.2570	0.1857	0.0735	-0.0212	-
0.0018	1	.							
5210	CE2	CE2	. PHE PHE PHE B B 260 260 .	0.2817	0.1095	0.2492	-0.0108	-0.0443	-
0.0052	1	.							
5211	CD2	CD2	. PHE PHE PHE B B 260 260 .	0.2422	0.2015	0.2503	-0.0019	-0.0205	-
0.0277	1	.							
5212	C	C	. PHE PHE PHE B B 260 260 .	0.3471	0.3084	0.3232	-0.0025	-0.0448	-
0.0177	1	.							
5213	O	O	. PHE PHE PHE B B 260 260 .	0.3487	0.3285	0.3101	0.0202	-0.0465	-
0.0154	1	.							
5214	N	N	. LYS LYS LYS B B 261 261 .	0.3327	0.2786	0.3117	0.0000	-0.0728	-
0.0233	1	.							
5215	CA	CA	. LYS LYS LYS B B 261 261 .	0.3244	0.2890	0.2925	-0.0161	-0.0106	-
0.0189	1	.							
5216	CB	CB	. LYS LYS LYS B B 261 261 .	0.3366	0.3208	0.3165	-0.0147	-0.0271	-
0.0344	1	.							
5217	CG	CG	. LYS LYS LYS B B 261 261 .	0.3089	0.3199	0.3244	-0.0320	0.0173	-
0.0222	1	.							
5218	CD	CD	. LYS LYS LYS B B 261 261 .	0.3748	0.2625	0.2696	0.0350	-0.0244	-
0.0312	1	.							



5249	C	C	. ASP ASP ASP B B 265 265 .	0.4057	0.4297	0.4559	-0.0148	-0.0109	
0.0005	1	.							
5250	O	O	. ASP ASP ASP B B 265 265 .	0.3911	0.4265	0.4733	-0.0141	-0.0361	
0.0085	1	.							
5251	N	N	. PRO PRO PRO B B 266 266 .	0.4067	0.4064	0.4512	-0.0033	-0.0126	
0.0018	1	.							
5252	CA	CA	. PRO PRO PRO B B 266 266 .	0.4056	0.4116	0.4423	-0.0080	-0.0047	-
0.0054	1	.							
5253	CB	CB	. PRO PRO PRO B B 266 266 .	0.4098	0.4128	0.4392	0.0000	-0.0125	
0.0041	1	.							
5254	CG	CG	. PRO PRO PRO B B 266 266 .	0.4014	0.3621	0.4572	0.0057	-0.0055	-
0.0222	1	.							
5255	CD	CD	. PRO PRO PRO B B 266 266 .	0.4177	0.4129	0.4573	-0.0050	-0.0136	-
0.0088	1	.							
5256	C	C	. PRO PRO PRO B B 266 266 .	0.3941	0.4148	0.4375	-0.0176	-0.0075	-
0.0016	1	.							
5257	O	O	. PRO PRO PRO B B 266 266 .	0.3798	0.3604	0.4554	-0.0617	0.0001	-
0.0021	1	.							
5258	N	N	. SER SER SER B B 267 267 .	0.3508	0.3920	0.4304	-0.0345	0.0000	-
0.0018	1	.							
5259	CA	CA	. SER SER SER B B 267 267 .	0.3788	0.4012	0.4316	-0.0283	-0.0151	-
0.0042	1	.							
5260	CB	CB	. SER SER SER B B 267 267 .	0.3717	0.4232	0.4411	-0.0207	-0.0038	-
0.0107	1	.							
5261	OG	OG	. SER SER SER B B 267 267 .	0.4339	0.4730	0.4604	-0.0404	-0.0291	-
0.0097	1	.							
5262	C	C	. SER SER SER B B 267 267 .	0.3564	0.3845	0.4078	-0.0446	-0.0168	-
0.0087	1	.							
5263	O	O	. SER SER SER B B 267 267 .	0.3747	0.3979	0.4289	-0.0569	-0.0052	
0.0044	1	.							
5264	N	N	. ARG ARG ARG B B 268 268 .	0.3241	0.3356	0.3841	-0.0401	-0.0433	
0.0098	1	.							
5265	CA	CA	. ARG ARG ARG B B 268 268 .	0.3154	0.3344	0.3751	-0.0391	-0.0375	
0.0057	1	.							
5266	CB	CB	. ARG ARG ARG B B 268 268 .	0.3112	0.3305	0.3604	-0.0493	-0.0469	
0.0046	1	.							
5267	CG	CG	. ARG ARG ARG B B 268 268 .	0.2863	0.3340	0.3369	-0.0500	-0.0272	-
0.0189	1	.							
5268	CD	CD	. ARG ARG ARG B B 268 268 .	0.3236	0.3349	0.3426	-0.0358	-0.0137	-
0.0090	1	.							
5269	NE	NE	. ARG ARG ARG B B 268 268 .	0.2928	0.3122	0.3557	-0.0402	0.0061	-
0.0404	1	.							
5270	CZ	CZ	. ARG ARG ARG B B 268 268 .	0.2731	0.3531	0.3373	-0.0481	-0.0336	-
0.0174	1	.							
5271	NH1	NH1	. ARG ARG ARG B B 268 268 .	0.3017	0.3374	0.3936	-0.0967	-0.0302	-
0.0491	1	.							
5272	NH2	NH2	. ARG ARG ARG B B 268 268 .	0.2786	0.3610	0.3972	-0.0801	-0.0385	-
0.0610	1	.							
5273	C	C	. ARG ARG ARG B B 268 268 .	0.3006	0.3190	0.3812	-0.0215	-0.0330	
0.0043	1	.							
5274	O	O	. ARG ARG ARG B B 268 268 .	0.3102	0.3021	0.3993	-0.0398	-0.0421	
0.0017	1	.							
5275	N	N	. TYR TYR TYR B B 269 269 .	0.3027	0.3147	0.3796	-0.0170	-0.0121	
0.0054	1	.							
5276	CA	CA	. TYR TYR TYR B B 269 269 .	0.2734	0.2904	0.3750	-0.0005	-0.0192	-
0.0104	1	.							
5277	CB	CB	. TYR TYR TYR B B 269 269 .	0.2974	0.2733	0.3787	0.0049	-0.0138	-
0.0027	1	.							
5278	CG	CG	. TYR TYR TYR B B 269 269 .	0.2603	0.3039	0.3935	-0.0109	-0.0336	-
0.0109	1	.							

5279	CD1	CD1	. TYR TYR TYR B B 269 269 .	0.2516	0.2537	0.3648	-0.0320	-0.0537	-
0.0648	1	.							
5280	CE1	CE1	. TYR TYR TYR B B 269 269 .	0.3203	0.2785	0.3421	-0.0366	-0.0367	-
0.0392	1	.							
5281	CZ	CZ	. TYR TYR TYR B B 269 269 .	0.3935	0.2824	0.4026	-0.0133	-0.0144	-
0.0127	1	.							
5282	OH	OH	. TYR TYR TYR B B 269 269 .	0.4088	0.3852	0.3683	-0.0122	-0.0138	-
0.0352	1	.							
5283	CE2	CE2	. TYR TYR TYR B B 269 269 .	0.3130	0.3310	0.4141	0.0213	-0.0143	-
0.0536	1	.							
5284	CD2	CD2	. TYR TYR TYR B B 269 269 .	0.3559	0.2717	0.4120	-0.0358	-0.0299	-
0.0150	1	.							
5285	C	C	. TYR TYR TYR B B 269 269 .	0.2876	0.2889	0.3848	-0.0084	-0.0015	-
0.0061	1	.							
5286	O	O	. TYR TYR TYR B B 269 269 .	0.2900	0.3000	0.3817	-0.0275	-0.0063	-
0.0103	1	.							
5287	N	N	. ILE ILE ILE B B 270 270 .	0.2825	0.2372	0.3469	-0.0017	-0.0116	-
0.0085	1	.							
5288	CA	CA	. ILE ILE ILE B B 270 270 .	0.2766	0.2259	0.3553	-0.0057	-0.0082	-
0.0033	1	.							
5289	CB	CB	. ILE ILE ILE B B 270 270 .	0.2470	0.1935	0.3254	-0.0065	-0.0142	-
0.0080	1	.							
5290	CG1	CG1	. ILE ILE ILE B B 270 270 .	0.2122	0.1974	0.3254	-0.0117	0.0078	-
0.0208	1	.							
5291	CD	CD	. ILE ILE ILE B B 270 270 .	0.2312	0.1836	0.3155	0.0577	-0.0070	-
0.0199	1	.							
5292	CG2	CG2	. ILE ILE ILE B B 270 270 .	0.2553	0.2381	0.4090	-0.0471	-0.0185	-
0.0035	1	.							
5293	C	C	. ILE ILE ILE B B 270 270 .	0.2667	0.1916	0.3039	-0.0128	-0.0053	-
0.0051	1	.							
5294	O	O	. ILE ILE ILE B B 270 270 .	0.2792	0.2271	0.3411	0.0097	-0.0067	-
0.0128	1	.							
5295	N	N	. THR THR THR B B 271 271 .	0.2903	0.2144	0.3451	-0.0064	-0.0006	-
0.0082	1	.							
5296	CA	CA	. THR THR THR B B 271 271 .	0.2524	0.2070	0.3082	-0.0009	-0.0053	-
0.0059	1	.							
5297	CB	CB	. THR THR THR B B 271 271 .	0.2735	0.2224	0.3142	-0.0052	0.0149	-
0.0014	1	.							
5298	OG1	OG1	. THR THR THR B B 271 271 .	0.3123	0.2255	0.2954	0.0165	0.0309	-
0.0187	1	.							
5299	CG2	CG2	. THR THR THR B B 271 271 .	0.2888	0.2036	0.3736	0.0245	0.0157	-
0.0575	1	.							
5300	C	C	. THR THR THR B B 271 271 .	0.2525	0.2301	0.3111	-0.0007	0.0031	-
0.0102	1	.							
5301	O	O	. THR THR THR B B 271 271 .	0.1930	0.2520	0.3307	0.0179	-0.0051	-
0.0205	1	.							
5302	N	N	. GLY GLY GLY B B 272 272 .	0.2438	0.2214	0.2817	-0.0110	0.0170	-
0.0033	1	.							
5303	CA	CA	. GLY GLY GLY B B 272 272 .	0.2505	0.2066	0.2561	-0.0032	0.0225	-
0.0026	1	.							
5304	C	C	. GLY GLY GLY B B 272 272 .	0.2598	0.2087	0.2624	0.0022	0.0221	-
0.0000	1	.							
5305	O	O	. GLY GLY GLY B B 272 272 .	0.2441	0.1667	0.2525	0.0103	0.0091	-
0.0163	1	.							
5306	N	N	. ASP ASP ASP B B 273 273 .	0.2246	0.2186	0.2295	-0.0003	0.0136	-
0.0115	1	.							
5307	CA	CA	. ASP ASP ASP B B 273 273 .	0.2784	0.2674	0.2784	-0.0036	0.0294	-
0.0104	1	.							
5308	CB	CB	. ASP ASP ASP B B 273 273 .	0.3073	0.3045	0.2926	0.0075	0.0246	-
0.0404	1	.							



5339	O	O	. ALA ALA ALA B B 277 277 .	0.2333	0.1634	0.2321	0.0106	0.0435	
0.0152	1	.							
5340	N	N	. LEU LEU LEU B B 278 278 .	0.2234	0.1665	0.2246	0.0009	0.0173	
0.0152	1	.							
5341	CA	CA	. LEU LEU LEU B B 278 278 .	0.2153	0.2014	0.2156	-0.0014	-0.0036	
0.0053	1	.							
5342	CB	CB	. LEU LEU LEU B B 278 278 .	0.2292	0.1718	0.2394	0.0285	0.0077	-
0.0002	1	.							
5343	CG	CG	. LEU LEU LEU B B 278 278 .	0.2744	0.2672	0.2692	0.0591	-0.0151	-
0.0198	1	.							
5344	CD1	CD1	. LEU LEU LEU B B 278 278 .	0.3325	0.2245	0.3408	0.0320	0.0423	
0.0227	1	.							
5345	CD2	CD2	. LEU LEU LEU B B 278 278 .	0.3459	0.3810	0.2974	0.0297	-0.0118	-
0.0843	1	.							
5346	C	C	. LEU LEU LEU B B 278 278 .	0.2086	0.1814	0.1885	0.0050	0.0017	-
0.0013	1	.							
5347	O	O	. LEU LEU LEU B B 278 278 .	0.2120	0.2111	0.1860	0.0091	-0.0178	-
0.0187	1	.							
5348	N	N	. TYR TYR TYR B B 279 279 .	0.1711	0.1609	0.1736	-0.0083	-0.0026	
0.0030	1	.							
5349	CA	CA	. TYR TYR TYR B B 279 279 .	0.1703	0.1348	0.1574	0.0000	-0.0055	-
0.0165	1	.							
5350	CB	CB	. TYR TYR TYR B B 279 279 .	0.1652	0.1401	0.1313	0.0239	0.0174	-
0.0323	1	.							
5351	CG	CG	. TYR TYR TYR B B 279 279 .	0.1916	0.1162	0.1071	0.0282	-0.0054	-
0.0246	1	.							
5352	CD1	CD1	. TYR TYR TYR B B 279 279 .	0.1742	0.1475	0.1567	-0.0150	0.0190	-
0.0207	1	.							
5353	CE1	CE1	. TYR TYR TYR B B 279 279 .	0.1918	0.1621	0.1203	0.0031	0.0121	-
0.0125	1	.							
5354	CZ	CZ	. TYR TYR TYR B B 279 279 .	0.1847	0.1389	0.1307	0.0149	0.0059	-
0.0129	1	.							
5355	OH	OH	. TYR TYR TYR B B 279 279 .	0.2222	0.1323	0.1404	0.0221	-0.0065	
0.0041	1	.							
5356	CE2	CE2	. TYR TYR TYR B B 279 279 .	0.2079	0.0995	0.1037	0.0193	0.0220	-
0.0101	1	.							
5357	CD2	CD2	. TYR TYR TYR B B 279 279 .	0.1465	0.1205	0.1545	-0.0048	0.0369	-
0.0346	1	.							
5358	C	C	. TYR TYR TYR B B 279 279 .	0.1885	0.1552	0.1383	0.0082	0.0079	-
0.0005	1	.							
5359	O	O	. TYR TYR TYR B B 279 279 .	0.2012	0.1541	0.1477	-0.0005	0.0150	-
0.0009	1	.							
5360	N	N	. GLN GLN GLN B B 280 280 .	0.1838	0.1813	0.1273	0.0099	0.0253	
0.0025	1	.							
5361	CA	CA	. GLN GLN GLN B B 280 280 .	0.2300	0.2095	0.1578	0.0143	0.0177	
0.0111	1	.							
5362	CB	CB	. GLN GLN GLN B B 280 280 .	0.2222	0.2067	0.1344	0.0098	0.0096	
0.0364	1	.							
5363	CG	CG	. GLN GLN GLN B B 280 280 .	0.3031	0.2585	0.2179	0.0464	-0.0200	
0.0580	1	.							
5364	CD	CD	. GLN GLN GLN B B 280 280 .	0.4768	0.4339	0.3619	0.0008	-0.1197	
0.0484	1	.							
5365	OE1	OE1	. GLN GLN GLN B B 280 280 .	0.5313	0.4575	0.4828	-0.0265	-0.1782	-
0.0358	1	.							
5366	NE2	NE2	. GLN GLN GLN B B 280 280 .	0.5774	0.4324	0.4495	-0.0062	-0.0916	
0.0664	1	.							
5367	C	C	. GLN GLN GLN B B 280 280 .	0.2432	0.1993	0.1625	0.0171	0.0142	
0.0198	1	.							
5368	O	O	. GLN GLN GLN B B 280 280 .	0.2658	0.2171	0.1811	0.0225	0.0211	-
0.0172	1	.							



5369	N	N	. ASP ASP ASP B B 281 281 .	0.1973	0.2100	0.1847	0.0123	0.0231	-
0.0034	1	.							
5370	CA	CA	. ASP ASP ASP B B 281 281 .	0.2131	0.2250	0.2201	0.0206	0.0160	
0.0114	1	.							
5371	CB	CB	. ASP ASP ASP B B 281 281 .	0.2366	0.2314	0.2556	0.0092	0.0255	
0.0125	1	.							
5372	CG	CG	. ASP ASP ASP B B 281 281 .	0.3108	0.3214	0.3218	-0.0033	0.0110	
0.0248	1	.							
5373	OD1	OD1	. ASP ASP ASP B B 281 281 .	0.3057	0.3979	0.3471	-0.0002	0.0853	
0.0100	1	.							
5374	OD2	OD2	. ASP ASP ASP B B 281 281 .	0.3487	0.3320	0.4986	-0.0579	0.0307	
0.0235	1	.							
5375	C	C	. ASP ASP ASP B B 281 281 .	0.2199	0.2356	0.2161	0.0269	0.0173	
0.0041	1	.							
5376	O	O	. ASP ASP ASP B B 281 281 .	0.2244	0.2339	0.2061	0.0369	0.0346	-
0.0070	1	.							
5377	N	N	. PHE PHE PHE B B 282 282 .	0.2076	0.2207	0.1550	0.0284	0.0184	
0.0214	1	.							
5378	CA	CA	. PHE PHE PHE B B 282 282 .	0.2047	0.1814	0.1916	0.0217	0.0218	
0.0114	1	.							
5379	CB	CB	. PHE PHE PHE B B 282 282 .	0.2394	0.1999	0.1871	0.0056	0.0144	
0.0056	1	.							
5380	CG	CG	. PHE PHE PHE B B 282 282 .	0.2956	0.2121	0.1915	0.0418	-0.0039	
0.0242	1	.							
5381	CD1	CD1	. PHE PHE PHE B B 282 282 .	0.2787	0.1732	0.2003	0.0399	0.0177	-
0.0123	1	.							
5382	CE1	CE1	. PHE PHE PHE B B 282 282 .	0.3578	0.2729	0.2171	0.0071	-0.0226	
0.0015	1	.							
5383	CZ	CZ	. PHE PHE PHE B B 282 282 .	0.3409	0.2493	0.2608	0.0217	-0.0194	
0.0061	1	.							
5384	CE2	CE2	. PHE PHE PHE B B 282 282 .	0.3633	0.2564	0.2841	0.0088	-0.0278	
0.0242	1	.							
5385	CD2	CD2	. PHE PHE PHE B B 282 282 .	0.3250	0.2168	0.1837	0.0492	-0.0248	
0.0076	1	.							
5386	C	C	. PHE PHE PHE B B 282 282 .	0.2250	0.1856	0.1613	0.0217	0.0018	
0.0056	1	.							
5387	O	O	. PHE PHE PHE B B 282 282 .	0.2713	0.1874	0.1611	0.0430	0.0022	-
0.0201	1	.							
5388	N	N	. VAL VAL VAL B B 283 283 .	0.1745	0.1726	0.1488	0.0013	0.0027	-
0.0100	1	.							
5389	CA	CA	. VAL VAL VAL B B 283 283 .	0.1990	0.1871	0.1646	0.0068	0.0165	-
0.0152	1	.							
5390	CB	CB	. VAL VAL VAL B B 283 283 .	0.1851	0.1970	0.1491	-0.0023	0.0232	-
0.0165	1	.							
5391	CG1	CG1	. VAL VAL VAL B B 283 283 .	0.1945	0.2383	0.1843	0.0394	-0.0239	-
0.0219	1	.							
5392	CG2	CG2	. VAL VAL VAL B B 283 283 .	0.1582	0.1703	0.1305	0.0051	0.0267	-
0.0251	1	.							
5393	C	C	. VAL VAL VAL B B 283 283 .	0.2159	0.1892	0.1553	0.0094	0.0262	-
0.0100	1	.							
5394	O	O	. VAL VAL VAL B B 283 283 .	0.2611	0.1796	0.1574	0.0167	0.0392	
0.0022	1	.							
5395	N	N	. ARG ARG ARG B B 284 284 .	0.2173	0.2073	0.1657	0.0317	0.0307	-
0.0150	1	.							
5396	CA	CA	. ARG ARG ARG B B 284 284 .	0.2424	0.2094	0.1797	0.0373	0.0547	
0.0013	1	.							
5397	CB	CB	. ARG ARG ARG B B 284 284 .	0.2562	0.1844	0.2192	0.0165	0.0837	-
0.0081	1	.							
5398	CG	CG	. ARG ARG ARG B B 284 284 .	0.2146	0.1974	0.2394	-0.0004	0.0495	-
0.0136	1	.							

5399	CD	CD	. ARG ARG ARG B B 284 284 .	0.3138	0.3449	0.2443	0.0028	0.0328	-
0.0103	1	.							
5400	NE	NE	. ARG ARG ARG B B 284 284 .	0.3295	0.4218	0.2652	-0.0367	-0.0174	-
0.0039	1	.							
5401	CZ	CZ	. ARG ARG ARG B B 284 284 .	0.3840	0.4066	0.3025	-0.0118	-0.0273	-
0.0229	1	.							
5402	NH1	NH1	. ARG ARG ARG B B 284 284 .	0.4149	0.4377	0.2971	-0.0385	-0.0114	-
0.0234	1	.							
5403	NH2	NH2	. ARG ARG ARG B B 284 284 .	0.4474	0.4457	0.2548	0.0242	-0.0577	-
0.0256	1	.							
5404	C	C	. ARG ARG ARG B B 284 284 .	0.2383	0.2026	0.1870	0.0296	0.0445	-
0.0006	1	.							
5405	O	O	. ARG ARG ARG B B 284 284 .	0.2969	0.2191	0.1772	0.0441	0.0355	-
0.0124	1	.							
5406	N	N	. ASP ASP ASP B B 285 285 .	0.2197	0.2304	0.1989	0.0255	0.0276	-
0.0204	1	.							
5407	CA	CA	. ASP ASP ASP B B 285 285 .	0.2322	0.2211	0.1823	0.0287	0.0401	-
0.0314	1	.							
5408	CB	CB	. ASP ASP ASP B B 285 285 .	0.2372	0.2131	0.1747	0.0194	0.0360	-
0.0384	1	.							
5409	CG	CG	. ASP ASP ASP B B 285 285 .	0.2884	0.2537	0.2534	-0.0095	0.0540	-
0.0023	1	.							
5410	OD1	OD1	. ASP ASP ASP B B 285 285 .	0.3266	0.3239	0.2627	-0.0537	0.0463	-
0.0308	1	.							
5411	OD2	OD2	. ASP ASP ASP B B 285 285 .	0.3141	0.3195	0.3303	-0.0734	0.0462	-
0.0193	1	.							
5412	C	C	. ASP ASP ASP B B 285 285 .	0.2297	0.2309	0.2028	0.0374	0.0343	-
0.0278	1	.							
5413	O	O	. ASP ASP ASP B B 285 285 .	0.2202	0.2334	0.2199	0.0511	0.0477	-
0.0229	1	.							
5414	N	N	. TYR TYR TYR B B 286 286 .	0.2413	0.2180	0.1880	0.0240	0.0256	-
0.0008	1	.							
5415	CA	CA	. TYR TYR TYR B B 286 286 .	0.2299	0.2010	0.1553	0.0169	0.0351	-
0.0058	1	.							
5416	CB	CB	. TYR TYR TYR B B 286 286 .	0.2424	0.1755	0.1816	0.0245	0.0186	-
0.0243	1	.							
5417	CG	CG	. TYR TYR TYR B B 286 286 .	0.2455	0.2566	0.1998	0.0283	0.0507	-
0.0384	1	.							
5418	CD1	CD1	. TYR TYR TYR B B 286 286 .	0.2911	0.3231	0.1574	0.0165	0.0211	-
0.0100	1	.							
5419	CE1	CE1	. TYR TYR TYR B B 286 286 .	0.2753	0.3572	0.2131	0.0401	0.0465	-
0.0333	1	.							
5420	CZ	CZ	. TYR TYR TYR B B 286 286 .	0.2915	0.3948	0.2827	-0.0277	0.0332	-
0.0493	1	.							
5421	OH	OH	. TYR TYR TYR B B 286 286 .	0.3202	0.5792	0.3937	-0.0208	0.0038	-
0.0620	1	.							
5422	CE2	CE2	. TYR TYR TYR B B 286 286 .	0.3048	0.3694	0.2314	-0.0408	0.0204	-
0.0380	1	.							
5423	CD2	CD2	. TYR TYR TYR B B 286 286 .	0.2361	0.2928	0.1912	0.0007	0.0308	-
0.0346	1	.							
5424	C	C	. TYR TYR TYR B B 286 286 .	0.2249	0.1971	0.1838	0.0341	0.0324	-
0.0077	1	.							
5425	O	O	. TYR TYR TYR B B 286 286 .	0.2273	0.2042	0.1697	0.0201	0.0179	-
0.0087	1	.							
5426	N	N	. PRO PRO PRO B B 287 287 .	0.2117	0.1885	0.1674	0.0369	0.0376	-
0.0155	1	.							
5427	CA	CA	. PRO PRO PRO B B 287 287 .	0.2139	0.1438	0.1843	0.0282	0.0281	-
0.0081	1	.							
5428	CB	CB	. PRO PRO PRO B B 287 287 .	0.2536	0.1580	0.1805	0.0587	0.0105	-
0.0033	1	.							



5459	C	C	. ILE ILE ILE B B 291 291 .	0.1311	0.1409	0.0939	0.0266	0.0014	-
0.0099	1	.							
5460	O	O	. ILE ILE ILE B B 291 291 .	0.1624	0.1453	0.1016	0.0279	0.0090	-
0.0181	1	.							
5461	N	N	. GLU GLU GLU B B 292 292 .	0.1485	0.1239	0.0734	0.0335	-0.0066	-
0.0143	1	.							
5462	CA	CA	. GLU GLU GLU B B 292 292 .	0.1366	0.1165	0.0607	0.0155	0.0189	
0.0092	1	.							
5463	CB	CB	. GLU GLU GLU B B 292 292 .	0.1509	0.0872	0.0677	0.0174	0.0148	
0.0180	1	.							
5464	CG	CG	. GLU GLU GLU B B 292 292 .	0.1556	0.1181	0.0600	0.0127	0.0189	
0.0103	1	.							
5465	CD	CD	. GLU GLU GLU B B 292 292 .	0.2344	0.1497	0.1363	0.0113	0.0257	-
0.0135	1	.							
5466	OE1	OE1	. GLU GLU GLU B B 292 292 .	0.2143	0.1676	0.1307	0.0221	0.0335	-
0.0199	1	.							
5467	OE2	OE2	. GLU GLU GLU B B 292 292 .	0.2069	0.1385	0.1420	0.0122	0.0484	-
0.0195	1	.							
5468	C	C	. GLU GLU GLU B B 292 292 .	0.1200	0.1223	0.0889	0.0072	0.0010	-
0.0040	1	.							
5469	O	O	. GLU GLU GLU B B 292 292 .	0.1612	0.1200	0.1283	0.0094	-0.0124	-
0.0126	1	.							
5470	N	N	. ASP ASP ASP B B 293 293 .	0.1755	0.1012	0.0928	0.0110	-0.0015	-
0.0052	1	.							
5471	CA	CA	. ASP ASP ASP B B 293 293 .	0.1679	0.1193	0.1017	0.0066	0.0088	-
0.0215	1	.							
5472	CB	CB	. ASP ASP ASP B B 293 293 .	0.1928	0.1875	0.0910	0.0228	0.0279	-
0.0149	1	.							
5473	CG	CG	. ASP ASP ASP B B 293 293 .	0.1610	0.1765	0.1460	0.0090	-0.0128	
0.0009	1	.							
5474	OD1	OD1	. ASP ASP ASP B B 293 293 .	0.1657	0.1700	0.1350	0.0349	-0.0092	
0.0067	1	.							
5475	OD2	OD2	. ASP ASP ASP B B 293 293 .	0.2132	0.1842	0.1111	0.0249	0.0159	-
0.0062	1	.							
5476	C	C	. ASP ASP ASP B B 293 293 .	0.1650	0.1337	0.1318	0.0129	-0.0074	-
0.0088	1	.							
5477	O	O	. ASP ASP ASP B B 293 293 .	0.1644	0.1290	0.1187	0.0011	-0.0022	-
0.0146	1	.							
5478	N	N	. PRO PRO PRO B B 294 294 .	0.1627	0.1355	0.0928	-0.0074	-0.0112	-
0.0010	1	.							
5479	CA	CA	. PRO PRO PRO B B 294 294 .	0.1721	0.1366	0.1073	-0.0044	-0.0097	-
0.0262	1	.							
5480	CB	CB	. PRO PRO PRO B B 294 294 .	0.1698	0.1645	0.0879	-0.0075	-0.0358	-
0.0212	1	.							
5481	CG	CG	. PRO PRO PRO B B 294 294 .	0.1497	0.1670	0.0897	-0.0184	0.0227	-
0.0134	1	.							
5482	CD	CD	. PRO PRO PRO B B 294 294 .	0.1924	0.1338	0.0957	-0.0181	-0.0020	-
0.0241	1	.							
5483	C	C	. PRO PRO PRO B B 294 294 .	0.1572	0.1444	0.0911	-0.0014	-0.0259	-
0.0062	1	.							
5484	O	O	. PRO PRO PRO B B 294 294 .	0.1771	0.1271	0.1220	-0.0223	-0.0080	-
0.0175	1	.							
5485	N	N	. PHE PHE PHE B B 295 295 .	0.1873	0.1331	0.0930	0.0117	-0.0132	-
0.0133	1	.							
5486	CA	CA	. PHE PHE PHE B B 295 295 .	0.1760	0.1215	0.0945	0.0177	-0.0081	-
0.0024	1	.							
5487	CB	CB	. PHE PHE PHE B B 295 295 .	0.1762	0.1343	0.0766	0.0111	-0.0063	
0.0155	1	.							
5488	CG	CG	. PHE PHE PHE B B 295 295 .	0.1299	0.1192	0.1151	0.0088	-0.0111	
0.0084	1	.							



5519	C	C	. ASP ASP ASP B B 298 298 .	0.1484	0.1218	0.1217	0.0107	-0.0055	-
0.0121	1	.							
5520	O	O	. ASP ASP ASP B B 298 298 .	0.1858	0.0986	0.1384	0.0029	-0.0192	
0.0057	1	.							
5521	N	N	. ASP ASP ASP B B 299 299 .	0.1997	0.1462	0.1481	0.0135	-0.0119	-
0.0038	1	.							
5522	CA	CA	. ASP ASP ASP B B 299 299 .	0.1648	0.1081	0.1362	-0.0104	-0.0058	-
0.0012	1	.							
5523	CB	CB	. ASP ASP ASP B B 299 299 .	0.1588	0.1289	0.1416	-0.0141	0.0129	-
0.0048	1	.							
5524	CG	CG	. ASP ASP ASP B B 299 299 .	0.1551	0.1145	0.1317	-0.0270	-0.0063	-
0.0093	1	.							
5525	OD1	OD1	. ASP ASP ASP B B 299 299 .	0.2135	0.1372	0.1589	0.0039	-0.0260	-
0.0064	1	.							
5526	OD2	OD2	. ASP ASP ASP B B 299 299 .	0.1926	0.1420	0.1918	0.0049	-0.0271	-
0.0080	1	.							
5527	C	C	. ASP ASP ASP B B 299 299 .	0.1689	0.1475	0.1509	0.0061	-0.0143	-
0.0046	1	.							
5528	O	O	. ASP ASP ASP B B 299 299 .	0.1725	0.1217	0.1168	-0.0072	-0.0028	
0.0118	1	.							
5529	N	N	. TRP TRP TRP B B 300 300 .	0.1604	0.1443	0.1263	-0.0129	-0.0129	-
0.0090	1	.							
5530	CA	CA	. TRP TRP TRP B B 300 300 .	0.1544	0.1533	0.1052	-0.0069	-0.0078	-
0.0283	1	.							
5531	CB	CB	. TRP TRP TRP B B 300 300 .	0.1491	0.1678	0.1025	-0.0015	0.0233	-
0.0237	1	.							
5532	CG	CG	. TRP TRP TRP B B 300 300 .	0.1670	0.1258	0.1087	0.0267	0.0011	-
0.0065	1	.							
5533	CD1	CD1	. TRP TRP TRP B B 300 300 .	0.1886	0.1398	0.1008	0.0306	-0.0218	-
0.0422	1	.							
5534	NE1	NE1	. TRP TRP TRP B B 300 300 .	0.1941	0.1455	0.1950	-0.0072	-0.0042	-
0.0107	1	.							
5535	CE2	CE2	. TRP TRP TRP B B 300 300 .	0.1892	0.1040	0.1284	0.0076	-0.0131	
0.0080	1	.							
5536	CD2	CD2	. TRP TRP TRP B B 300 300 .	0.2192	0.1311	0.1226	-0.0032	0.0077	-
0.0045	1	.							
5537	CE3	CE3	. TRP TRP TRP B B 300 300 .	0.1936	0.1120	0.1882	0.0038	0.0225	
0.0006	1	.							
5538	CZ3	CZ3	. TRP TRP TRP B B 300 300 .	0.1861	0.1420	0.1317	-0.0057	0.0341	
0.0174	1	.							
5539	CH2	CH2	. TRP TRP TRP B B 300 300 .	0.2064	0.1935	0.1820	0.0528	0.0127	-
0.0063	1	.							
5540	CZ2	CZ2	. TRP TRP TRP B B 300 300 .	0.2092	0.1908	0.1569	-0.0021	-0.0295	
0.0246	1	.							
5541	C	C	. TRP TRP TRP B B 300 300 .	0.1804	0.1606	0.1438	-0.0108	0.0132	-
0.0087	1	.							
5542	O	O	. TRP TRP TRP B B 300 300 .	0.1771	0.1380	0.1183	-0.0181	-0.0150	-
0.0108	1	.							
5543	N	N	. ALA ALA ALA B B 301 301 .	0.1851	0.1390	0.1196	-0.0114	0.0107	-
0.0021	1	.							
5544	CA	CA	. ALA ALA ALA B B 301 301 .	0.2067	0.1438	0.1266	0.0029	0.0028	
0.0041	1	.							
5545	CB	CB	. ALA ALA ALA B B 301 301 .	0.2177	0.1304	0.1415	-0.0251	-0.0189	
0.0172	1	.							
5546	C	C	. ALA ALA ALA B B 301 301 .	0.2015	0.1565	0.1346	0.0014	-0.0007	
0.0054	1	.							
5547	O	O	. ALA ALA ALA B B 301 301 .	0.2421	0.1226	0.1231	0.0168	0.0190	-
0.0043	1	.							
5548	N	N	. ALA ALA ALA B B 302 302 .	0.1436	0.1519	0.1049	0.0038	-0.0203	
0.0048	1	.							

























5849	O	O	. LEU LEU LEU B B 341 341 .	0.1891	0.1351	0.1504	0.0506	0.0098	
0.0120	1	.							
5850	N	N	. LYS LYS LYS B B 342 342 .	0.2056	0.1390	0.1270	0.0080	0.0189	
0.0000	1	.							
5851	CA	CA	. LYS LYS LYS B B 342 342 .	0.1882	0.1684	0.1283	0.0122	0.0081	
0.0233	1	.							
5852	CB	CB	. LYS LYS LYS B B 342 342 .	0.1940	0.1872	0.1670	0.0197	0.0065	-
0.0139	1	.							
5853	CG	CG	. LYS LYS LYS B B 342 342 .	0.1828	0.1968	0.1456	0.0283	0.0132	
0.0143	1	.							
5854	CD	CD	. LYS LYS LYS B B 342 342 .	0.1519	0.1791	0.2078	0.0202	0.0142	
0.0475	1	.							
5855	CE	CE	. LYS LYS LYS B B 342 342 .	0.1671	0.2176	0.1553	0.0050	0.0301	
0.0623	1	.							
5856	NZ	NZ	. LYS LYS LYS B B 342 342 .	0.2125	0.2333	0.2516	0.0122	0.0231	
0.0334	1	.							
5857	C	C	. LYS LYS LYS B B 342 342 .	0.1913	0.1580	0.1572	0.0258	0.0051	
0.0076	1	.							
5858	O	O	. LYS LYS LYS B B 342 342 .	0.2068	0.1293	0.1435	0.0393	0.0078	
0.0268	1	.							
5859	N	N	. VAL VAL VAL B B 343 343 .	0.1864	0.1326	0.1474	0.0180	0.0181	
0.0042	1	.							
5860	CA	CA	. VAL VAL VAL B B 343 343 .	0.1693	0.1273	0.1790	-0.0074	0.0208	-
0.0069	1	.							
5861	CB	CB	. VAL VAL VAL B B 343 343 .	0.2240	0.1317	0.1764	-0.0220	0.0011	-
0.0152	1	.							
5862	CG1	CG1	. VAL VAL VAL B B 343 343 .	0.2183	0.1351	0.2466	-0.0360	-0.0026	-
0.0146	1	.							
5863	CG2	CG2	. VAL VAL VAL B B 343 343 .	0.1862	0.2060	0.1863	-0.0189	0.0151	
0.0189	1	.							
5864	C	C	. VAL VAL VAL B B 343 343 .	0.1829	0.1517	0.1531	0.0059	0.0143	-
0.0086	1	.							
5865	O	O	. VAL VAL VAL B B 343 343 .	0.1555	0.1867	0.2016	0.0106	-0.0066	-
0.0017	1	.							
5866	N	N	. ASN ASN ASN B B 344 344 .	0.1780	0.1200	0.1592	0.0126	0.0070	-
0.0026	1	.							
5867	CA	CA	. ASN ASN ASN B B 344 344 .	0.2102	0.1373	0.1408	0.0200	0.0062	-
0.0014	1	.							
5868	CB	CB	. ASN ASN ASN B B 344 344 .	0.1777	0.1709	0.1345	0.0173	0.0124	-
0.0188	1	.							
5869	CG	CG	. ASN ASN ASN B B 344 344 .	0.1782	0.1482	0.1558	0.0309	0.0209	
0.0031	1	.							
5870	OD1	OD1	. ASN ASN ASN B B 344 344 .	0.2038	0.1837	0.1724	0.0333	0.0393	-
0.0011	1	.							
5871	ND2	ND2	. ASN ASN ASN B B 344 344 .	0.2135	0.1703	0.2230	-0.0003	-0.0014	-
0.0222	1	.							
5872	C	C	. ASN ASN ASN B B 344 344 .	0.2089	0.1224	0.1423	0.0091	0.0146	
0.0017	1	.							
5873	O	O	. ASN ASN ASN B B 344 344 .	0.2623	0.1569	0.1737	0.0172	0.0182	-
0.0004	1	.							
5874	N	N	. GLN GLN GLN B B 345 345 .	0.2074	0.0960	0.1260	0.0218	0.0202	
0.0330	1	.							
5875	CA	CA	. GLN GLN GLN B B 345 345 .	0.1873	0.1148	0.1349	0.0219	0.0215	
0.0279	1	.							
5876	CB	CB	. GLN GLN GLN B B 345 345 .	0.1454	0.1135	0.1032	0.0173	0.0237	
0.0425	1	.							
5877	CG	CG	. GLN GLN GLN B B 345 345 .	0.1607	0.1434	0.1372	0.0206	0.0327	-
0.0109	1	.							
5878	CD	CD	. GLN GLN GLN B B 345 345 .	0.1288	0.1234	0.1376	-0.0097	0.0148	
0.0378	1	.							







5969	CG	CG	. LEU LEU LEU B B 358 358 .	0.2473	0.2296	0.2331	-0.0078	-0.0167
0.0211	1	.						
5970	CD1	CD1	. LEU LEU LEU B B 358 358 .	0.2753	0.2970	0.2221	0.0006	-0.0731
0.0457	1	.						
5971	CD2	CD2	. LEU LEU LEU B B 358 358 .	0.2628	0.1517	0.2600	0.0180	0.0150
0.0209	1	.						
5972	C	C	. LEU LEU LEU B B 358 358 .	0.2056	0.1863	0.1742	0.0038	-0.0272
0.0118	1	.						
5973	O	O	. LEU LEU LEU B B 358 358 .	0.2341	0.1912	0.1558	0.0118	-0.0291
0.0071	1	.						
5974	N	N	. ALA ALA ALA B B 359 359 .	0.1857	0.1916	0.1630	0.0063	-0.0127
0.0076	1	.						
5975	CA	CA	. ALA ALA ALA B B 359 359 .	0.1698	0.1940	0.1676	0.0159	-0.0254 -
0.0054	1	.						
5976	CB	CB	. ALA ALA ALA B B 359 359 .	0.2069	0.2073	0.1557	0.0135	-0.0326
0.0146	1	.						
5977	C	C	. ALA ALA ALA B B 359 359 .	0.2031	0.2031	0.1862	-0.0102	-0.0173
0.0031	1	.						
5978	O	O	. ALA ALA ALA B B 359 359 .	0.2155	0.1882	0.1471	-0.0036	-0.0106 -
0.0218	1	.						
5979	N	N	. GLN GLN GLN B B 360 360 .	0.2279	0.2075	0.1844	-0.0070	-0.0252
0.0127	1	.						
5980	CA	CA	. GLN GLN GLN B B 360 360 .	0.2333	0.1859	0.1741	-0.0105	-0.0297
0.0175	1	.						
5981	CB	CB	. GLN GLN GLN B B 360 360 .	0.2574	0.1794	0.1826	-0.0111	-0.0293
0.0321	1	.						
5982	CG	CG	. GLN GLN GLN B B 360 360 .	0.2667	0.2568	0.1444	-0.0079	-0.0440
0.0717	1	.						
5983	CD	CD	. GLN GLN GLN B B 360 360 .	0.2694	0.2112	0.2122	0.0001	-0.0186
0.0056	1	.						
5984	OE1	OE1	. GLN GLN GLN B B 360 360 .	0.3950	0.2608	0.2689	0.0225	-0.0888 -
0.0167	1	.						
5985	NE2	NE2	. GLN GLN GLN B B 360 360 .	0.2610	0.2161	0.1971	-0.0211	-0.0335
0.0655	1	.						
5986	C	C	. GLN GLN GLN B B 360 360 .	0.2360	0.2106	0.1967	-0.0128	-0.0207
0.0003	1	.						
5987	O	O	. GLN GLN GLN B B 360 360 .	0.2211	0.2675	0.1856	-0.0143	-0.0083
0.0010	1	.						
5988	N	N	. GLU GLU GLU B B 361 361 .	0.1990	0.2240	0.1888	-0.0042	-0.0188
0.0081	1	.						
5989	CA	CA	. GLU GLU GLU B B 361 361 .	0.2428	0.2549	0.2028	-0.0082	-0.0127
0.0242	1	.						
5990	CB	CB	. GLU GLU GLU B B 361 361 .	0.2347	0.3014	0.2112	-0.0227	-0.0053
0.0245	1	.						
5991	CG	CG	. GLU GLU GLU B B 361 361 .	0.3296	0.3630	0.3514	0.0032	0.0342
0.0167	1	.						
5992	CD	CD	. GLU GLU GLU B B 361 361 .	0.4212	0.5438	0.5370	0.0462	0.0514
0.0088	1	.						
5993	OE1	OE1	. GLU GLU GLU B B 361 361 .	0.4523	0.5725	0.5856	0.1329	-0.0031
0.0423	1	.						
5994	OE2	OE2	. GLU GLU GLU B B 361 361 .	0.5025	0.6599	0.6041	-0.0071	0.0556
0.0310	1	.						
5995	C	C	. GLU GLU GLU B B 361 361 .	0.2316	0.2365	0.1803	-0.0053	-0.0254
0.0165	1	.						
5996	O	O	. GLU GLU GLU B B 361 361 .	0.2675	0.2736	0.1635	-0.0118	-0.0536
0.0353	1	.						
5997	N	N	. ASN ASN ASN B B 362 362 .	0.2198	0.2055	0.1701	-0.0029	-0.0205
0.0093	1	.						
5998	CA	CA	. ASN ASN ASN B B 362 362 .	0.2207	0.2303	0.1742	0.0075	-0.0276
0.0036	1	.						























6299	C	C	. ARG ARG ARG B B 402 402 .	0.1214	0.1104	0.0839	0.0000	0.0046	-
0.0231	1	.							
6300	O	O	. ARG ARG ARG B B 402 402 .	0.1356	0.1229	0.0985	-0.0093	0.0066	-
0.0163	1	.							
6301	N	N	. LEU LEU LEU B B 403 403 .	0.1487	0.0910	0.1027	0.0145	0.0139	-
0.0108	1	.							
6302	CA	CA	. LEU LEU LEU B B 403 403 .	0.1279	0.0978	0.1219	0.0027	-0.0096	-
0.0022	1	.							
6303	CB	CB	. LEU LEU LEU B B 403 403 .	0.1309	0.1212	0.1628	0.0193	-0.0072	-
0.0104	1	.							
6304	CG	CG	. LEU LEU LEU B B 403 403 .	0.1107	0.1093	0.1275	-0.0063	0.0182	-
0.0244	1	.							
6305	CD1	CD1	. LEU LEU LEU B B 403 403 .	0.2237	0.1404	0.1146	-0.0164	0.0208	-
0.0237	1	.							
6306	CD2	CD2	. LEU LEU LEU B B 403 403 .	0.1552	0.1382	0.1592	-0.0338	-0.0113	-
0.0208	1	.							
6307	C	C	. LEU LEU LEU B B 403 403 .	0.1273	0.1107	0.1257	0.0071	-0.0051	-
0.0033	1	.							
6308	O	O	. LEU LEU LEU B B 403 403 .	0.1456	0.1153	0.1233	0.0083	-0.0011	-
0.0217	1	.							
6309	N	N	. ALA ALA ALA B B 404 404 .	0.1185	0.1254	0.0735	-0.0063	-0.0042	-
0.0007	1	.							
6310	CA	CA	. ALA ALA ALA B B 404 404 .	0.1243	0.1351	0.0848	-0.0004	-0.0261	-
0.0085	1	.							
6311	CB	CB	. ALA ALA ALA B B 404 404 .	0.1279	0.1532	0.1294	-0.0023	0.0025	-
0.0243	1	.							
6312	C	C	. ALA ALA ALA B B 404 404 .	0.1361	0.1174	0.0921	-0.0130	-0.0124	-
0.0006	1	.							
6313	O	O	. ALA ALA ALA B B 404 404 .	0.1507	0.1476	0.1275	-0.0129	-0.0167	-
0.0100	1	.							
6314	N	N	. LYS LYS LYS B B 405 405 .	0.1420	0.1100	0.0973	0.0033	-0.0058	-
0.0077	1	.							
6315	CA	CA	. LYS LYS LYS B B 405 405 .	0.1482	0.0831	0.0610	0.0051	-0.0142	-
0.0069	1	.							
6316	CB	CB	. LYS LYS LYS B B 405 405 .	0.1533	0.0507	0.0866	0.0061	-0.0018	-
0.0010	1	.							
6317	CG	CG	. LYS LYS LYS B B 405 405 .	0.1521	0.1165	0.1110	0.0141	-0.0185	-
0.0191	1	.							
6318	CD	CD	. LYS LYS LYS B B 405 405 .	0.1624	0.0813	0.0662	0.0130	-0.0242	-
0.0114	1	.							
6319	CE	CE	. LYS LYS LYS B B 405 405 .	0.1835	0.0884	0.1117	0.0066	-0.0328	-
0.0070	1	.							
6320	NZ	NZ	. LYS LYS LYS B B 405 405 .	0.1371	0.1141	0.1054	0.0064	0.0083	-
0.0011	1	.							
6321	C	C	. LYS LYS LYS B B 405 405 .	0.1375	0.1044	0.1001	0.0086	-0.0091	-
0.0068	1	.							
6322	O	O	. LYS LYS LYS B B 405 405 .	0.1477	0.1034	0.0907	-0.0074	-0.0111	-
0.0032	1	.							
6323	N	N	. TYR TYR TYR B B 406 406 .	0.1380	0.1052	0.0842	0.0008	0.0128	-
0.0001	1	.							
6324	CA	CA	. TYR TYR TYR B B 406 406 .	0.1358	0.1027	0.1137	0.0071	0.0142	-
0.0047	1	.							
6325	CB	CB	. TYR TYR TYR B B 406 406 .	0.1213	0.0938	0.1233	0.0193	0.0192	-
0.0143	1	.							
6326	CG	CG	. TYR TYR TYR B B 406 406 .	0.1085	0.1086	0.1118	0.0056	0.0144	-
0.0057	1	.							
6327	CD1	CD1	. TYR TYR TYR B B 406 406 .	0.1490	0.1083	0.1100	0.0330	0.0195	-
0.0092	1	.							
6328	CE1	CE1	. TYR TYR TYR B B 406 406 .	0.1638	0.1015	0.1168	-0.0297	-0.0024	-
0.0068	1	.							



6329	CZ	CZ	. TYR TYR TYR B B 406 406 .	0.1299	0.1153	0.1003	0.0209	0.0035	
0.0052	1	.							
6330	OH	OH	. TYR TYR TYR B B 406 406 .	0.1912	0.1298	0.1371	0.0190	0.0294	
0.0291	1	.							
6331	CE2	CE2	. TYR TYR TYR B B 406 406 .	0.1479	0.0931	0.1278	0.0345	-0.0001	-
0.0231	1	.							
6332	CD2	CD2	. TYR TYR TYR B B 406 406 .	0.1755	0.1204	0.1190	0.0027	0.0167	-
0.0108	1	.							
6333	C	C	. TYR TYR TYR B B 406 406 .	0.1646	0.0918	0.0991	0.0001	-0.0073	
0.0086	1	.							
6334	O	O	. TYR TYR TYR B B 406 406 .	0.1791	0.1067	0.0870	-0.0023	-0.0096	
0.0033	1	.							
6335	N	N	. ASN ASN ASN B B 407 407 .	0.1562	0.0852	0.0899	0.0169	0.0085	
0.0174	1	.							
6336	CA	CA	. ASN ASN ASN B B 407 407 .	0.1248	0.1073	0.0647	-0.0170	-0.0030	-
0.0033	1	.							
6337	CB	CB	. ASN ASN ASN B B 407 407 .	0.1026	0.1117	0.0634	-0.0126	-0.0058	-
0.0127	1	.							
6338	CG	CG	. ASN ASN ASN B B 407 407 .	0.0863	0.1075	0.0834	0.0004	-0.0022	
0.0054	1	.							
6339	OD1	OD1	. ASN ASN ASN B B 407 407 .	0.1543	0.1305	0.1019	0.0428	-0.0103	
0.0007	1	.							
6340	ND2	ND2	. ASN ASN ASN B B 407 407 .	0.1371	0.0876	0.0884	0.0181	-0.0276	-
0.0058	1	.							
6341	C	C	. ASN ASN ASN B B 407 407 .	0.1352	0.1146	0.1010	0.0069	-0.0126	-
0.0078	1	.							
6342	O	O	. ASN ASN ASN B B 407 407 .	0.1573	0.1011	0.1223	0.0192	-0.0323	
0.0175	1	.							
6343	N	N	. GLN GLN GLN B B 408 408 .	0.1253	0.1169	0.1083	0.0173	0.0093	-
0.0071	1	.							
6344	CA	CA	. GLN GLN GLN B B 408 408 .	0.1352	0.1278	0.0952	0.0099	0.0085	-
0.0278	1	.							
6345	CB	CB	. GLN GLN GLN B B 408 408 .	0.1250	0.1022	0.1215	0.0186	-0.0112	-
0.0073	1	.							
6346	CG	CG	. GLN GLN GLN B B 408 408 .	0.1256	0.1331	0.1295	0.0099	0.0139	-
0.0084	1	.							
6347	CD	CD	. GLN GLN GLN B B 408 408 .	0.1762	0.2106	0.2035	-0.0150	-0.0048	
0.0338	1	.							
6348	OE1	OE1	. GLN GLN GLN B B 408 408 .	0.2257	0.1538	0.2055	0.0629	0.0113	
0.0511	1	.							
6349	NE2	NE2	. GLN GLN GLN B B 408 408 .	0.1795	0.2431	0.2242	0.0273	0.0068	-
0.0077	1	.							
6350	C	C	. GLN GLN GLN B B 408 408 .	0.1491	0.1225	0.1169	-0.0012	-0.0103	-
0.0059	1	.							
6351	O	O	. GLN GLN GLN B B 408 408 .	0.1346	0.1323	0.1163	-0.0102	-0.0179	
0.0000	1	.							
6352	N	N	. LEU LEU LEU B B 409 409 .	0.1319	0.1133	0.0916	0.0088	-0.0014	-
0.0076	1	.							
6353	CA	CA	. LEU LEU LEU B B 409 409 .	0.1572	0.0752	0.1084	0.0014	0.0011	-
0.0121	1	.							
6354	CB	CB	. LEU LEU LEU B B 409 409 .	0.1291	0.0762	0.0859	0.0313	0.0216	
0.0068	1	.							
6355	CG	CG	. LEU LEU LEU B B 409 409 .	0.1461	0.1111	0.1565	0.0026	-0.0217	
0.0123	1	.							
6356	CD1	CD1	. LEU LEU LEU B B 409 409 .	0.1763	0.1390	0.1375	-0.0060	0.0194	
0.0443	1	.							
6357	CD2	CD2	. LEU LEU LEU B B 409 409 .	0.1214	0.1205	0.1266	0.0313	-0.0149	-
0.0027	1	.							
6358	C	C	. LEU LEU LEU B B 409 409 .	0.1447	0.0922	0.1358	0.0071	-0.0282	
0.0097	1	.							





6419	O	O	. LEU LEU LEU B B 416 416 .	0.3342	0.2777	0.2631	-0.0023	-0.0958	-
0.0245	1	.							
6420	N	N	. GLY GLY GLY B B 417 417 .	0.3360	0.2857	0.2727	-0.0073	-0.0584	-
0.0247	1	.							
6421	CA	CA	. GLY GLY GLY B B 417 417 .	0.3877	0.3387	0.3146	-0.0065	-0.0376	-
0.0317	1	.							
6422	C	C	. GLY GLY GLY B B 417 417 .	0.4234	0.3523	0.3344	-0.0250	-0.0270	-
0.0492	1	.							
6423	O	O	. GLY GLY GLY B B 417 417 .	0.4278	0.3329	0.2849	-0.0319	-0.0191	-
0.0620	1	.							
6424	N	N	. ASP ASP ASP B B 418 418 .	0.4687	0.3703	0.3766	-0.0254	-0.0333	-
0.0401	1	.							
6425	CA	CA	. ASP ASP ASP B B 418 418 .	0.4935	0.4029	0.3954	-0.0253	-0.0334	-
0.0316	1	.							
6426	CB	CB	. ASP ASP ASP B B 418 418 .	0.5102	0.3884	0.4123	-0.0372	-0.0397	-
0.0258	1	.							
6427	C	C	. ASP ASP ASP B B 418 418 .	0.4877	0.4160	0.4037	-0.0389	-0.0138	-
0.0213	1	.							
6428	O	O	. ASP ASP ASP B B 418 418 .	0.5380	0.4562	0.4075	-0.0585	-0.0137	-
0.0278	1	.							
6429	N	N	. GLU GLU GLU B B 419 419 .	0.4532	0.3974	0.3914	-0.0432	-0.0361	-
0.0182	1	.							
6430	CA	CA	. GLU GLU GLU B B 419 419 .	0.4162	0.3817	0.3852	-0.0451	-0.0325	-
0.0029	1	.							
6431	CB	CB	. GLU GLU GLU B B 419 419 .	0.3988	0.3950	0.4015	-0.0497	-0.0368	-
0.0129	1	.							
6432	CG	CG	. GLU GLU GLU B B 419 419 .	0.4357	0.4362	0.4504	-0.0587	-0.0438	-
0.0085	1	.							
6433	C	C	. GLU GLU GLU B B 419 419 .	0.3850	0.3661	0.3665	-0.0337	-0.0277	-
0.0073	1	.							
6434	O	O	. GLU GLU GLU B B 419 419 .	0.3969	0.3645	0.3798	-0.0501	-0.0377	-
0.0262	1	.							
6435	N	N	. ALA ALA ALA B B 420 420 .	0.3700	0.3425	0.3562	-0.0321	-0.0236	-
0.0022	1	.							
6436	CA	CA	. ALA ALA ALA B B 420 420 .	0.3512	0.3424	0.3264	-0.0227	-0.0318	-
0.0043	1	.							
6437	CB	CB	. ALA ALA ALA B B 420 420 .	0.3312	0.3580	0.3408	-0.0147	-0.0354	-
0.0043	1	.							
6438	C	C	. ALA ALA ALA B B 420 420 .	0.3470	0.3166	0.3240	-0.0191	-0.0146	-
0.0141	1	.							
6439	O	O	. ALA ALA ALA B B 420 420 .	0.4131	0.3601	0.3223	-0.0224	0.0069	-
0.0060	1	.							
6440	N	N	. ARG ARG ARG B B 421 421 .	0.3407	0.2873	0.2888	-0.0230	-0.0287	-
0.0311	1	.							
6441	CA	CA	. ARG ARG ARG B B 421 421 .	0.3137	0.2714	0.3295	-0.0354	-0.0284	-
0.0431	1	.							
6442	CB	CB	. ARG ARG ARG B B 421 421 .	0.3385	0.2635	0.3247	-0.0429	-0.0538	-
0.0572	1	.							
6443	CG	CG	. ARG ARG ARG B B 421 421 .	0.3518	0.2963	0.4013	-0.1003	-0.0624	-
0.0377	1	.							
6444	C	C	. ARG ARG ARG B B 421 421 .	0.2942	0.2501	0.2990	-0.0201	-0.0164	-
0.0396	1	.							
6445	O	O	. ARG ARG ARG B B 421 421 .	0.3247	0.2974	0.3810	-0.0400	-0.0289	-
0.0900	1	.							
6446	N	N	. PHE PHE PHE B B 422 422 .	0.2699	0.1899	0.2286	-0.0040	-0.0331	-
0.0045	1	.							
6447	CA	CA	. PHE PHE PHE B B 422 422 .	0.2649	0.1808	0.1996	0.0045	-0.0209	-
0.0089	1	.							
6448	CB	CB	. PHE PHE PHE B B 422 422 .	0.2543	0.2002	0.2234	0.0331	-0.0251	-
0.0139	1	.							







6539	CD2	CD2	. LEU LEU LEU B B 433 433 .	0.6699	0.6889	0.6679	0.0288	-0.0381	-
0.0091	1	.							
6540	C	C	. LEU LEU LEU B B 433 433 .	0.6497	0.6603	0.6339	-0.0291	-0.0181	
0.0111	1	.							
6541	O	O	. LEU LEU LEU B B 433 433 .	0.6522	0.6645	0.6486	-0.0506	-0.0313	
0.0062	1	.							
6542	MG+2	MG+2	. MG2 MG2 MG2 B . 600 600 .	0.2120	0.1657	0.0999	0.0179	0.0203	
0.0004	1	.							
6543	MG+2	MG+2	. MG2 MG2 MG2 B . 601 601 .	0.2096	0.1522	0.1306	0.0141	0.0282	-
0.0068	1	.							
6544	O3P	O3P	. YAP YAP YAP B . 602 602 .	0.2693	0.1639	0.1415	0.0101	-0.0112	
0.0076	1	.							
6545	P	P	. YAP YAP YAP B . 602 602 .	0.1875	0.1556	0.1550	0.0155	-0.0131	-
0.0057	1	.							
6546	O1P	O1P	. YAP YAP YAP B . 602 602 .	0.1888	0.1532	0.1680	-0.0062	-0.0293	
0.0225	1	.							
6547	O2P	O2P	. YAP YAP YAP B . 602 602 .	0.1811	0.1499	0.1641	-0.0105	-0.0059	-
0.0640	1	.							
6548	O3	O3	. YAP YAP YAP B . 602 602 .	0.1927	0.1783	0.1773	-0.0002	-0.0193	-
0.0082	1	.							
6549	C2	C2	. YAP YAP YAP B . 602 602 .	0.2741	0.1801	0.1903	0.0017	-0.0025	
0.0145	1	.							
6550	C3	C3	. YAP YAP YAP B . 602 602 .	0.3343	0.2283	0.2649	0.0483	0.0014	
0.0878	1	.							
6551	C1	C1	. YAP YAP YAP B . 602 602 .	0.2517	0.1943	0.2174	-0.0052	0.0090	-
0.0061	1	.							
6552	O1	O1	. YAP YAP YAP B . 602 602 .	0.2520	0.1563	0.1626	0.0035	0.0180	
0.0262	1	.							
6553	O2	O2	. YAP YAP YAP B . 602 602 .	0.2323	0.1419	0.1736	0.0382	0.0067	
0.0074	1	.							
6554	O	O	. HOH HOH HOH S . 1 1 .	0.2315	0.0993	0.1539	0.0409	0.0161	-
0.0204	1	.							
6555	O	O	. HOH HOH HOH S . 2 2 .	0.1761	0.1054	0.1059	-0.0088	-0.0064	-
0.0136	1	.							
6556	O	O	. HOH HOH HOH S . 3 3 .	0.1604	0.1572	0.0958	0.0059	0.0240	-
0.0044	1	.							
6557	O	O	. HOH HOH HOH S . 4 4 .	0.2010	0.1050	0.1110	0.0042	-0.0080	
0.0017	1	.							
6558	O	O	. HOH HOH HOH S . 5 5 .	0.1582	0.1560	0.1556	0.0098	-0.0010	-
0.0056	1	.							
6559	O	O	. HOH HOH HOH S . 6 6 .	0.1657	0.1164	0.1313	-0.0311	0.0221	-
0.0240	1	.							
6560	O	O	. HOH HOH HOH S . 7 7 .	0.1635	0.1810	0.1580	-0.0143	0.0267	-
0.0102	1	.							
6561	O	O	. HOH HOH HOH S . 8 8 .	0.2531	0.1826	0.1092	-0.0046	-0.0096	-
0.0112	1	.							
6562	O	O	. HOH HOH HOH S . 9 9 .	0.1975	0.1977	0.1431	0.0181	0.0031	-
0.0218	1	.							
6563	O	O	. HOH HOH HOH S . 10 10 .	0.2310	0.1020	0.1569	0.0147	0.0082	-
0.0001	1	.							
6564	O	O	. HOH HOH HOH S . 11 11 .	0.2479	0.1336	0.2131	0.0221	0.0042	-
0.0007	1	.							
6565	O	O	. HOH HOH HOH S . 12 12 .	0.1186	0.1963	0.1516	0.0012	-0.0069	-
0.0049	1	.							
6566	O	O	. HOH HOH HOH S . 13 13 .	0.1913	0.1308	0.1650	0.0356	-0.0181	
0.0010	1	.							
6567	O	O	. HOH HOH HOH S . 14 14 .	0.1631	0.1799	0.1229	0.0497	0.0326	
0.0233	1	.							
6568	O	O	. HOH HOH HOH S . 15 15 .	0.2007	0.2122	0.1978	0.0042	-0.0173	-
0.0217	1	.							





























































7349 O O . HOH HOH HOH S . 796 796 . 0.9482 0.8772 1.6048 -0.1040 0.1139 -  
0.0433 1 .  
7350 O O . HOH HOH HOH S . 797 797 . 0.6661 0.3781 0.5398 0.0285 -0.1006 -  
0.0611 1 .  
7351 O O . HOH HOH HOH S . 798 798 . 0.6243 0.8642 0.7174 0.1269 -0.0660  
0.1751 1 .  
7352 O O . HOH HOH HOH S . 799 799 . 0.7762 0.8581 0.3888 0.0309 0.1368  
0.0657 1 .  
7353 O O . HOH HOH HOH S . 800 800 . 0.8879 0.4076 1.0426 0.1515 0.1981 -  
0.0588 1 .  
7354 O O . HOH HOH HOH S . 801 801 . 0.5966 0.8634 1.3101 -0.4847 0.1384 -  
0.6786 1 .  
7355 O O . HOH HOH HOH S . 802 802 . 0.7982 0.6897 0.8487 0.3093 0.2999  
0.2405 1 .  
7356 O O . HOH HOH HOH S . 803 803 . 0.5225 1.3266 1.0551 -0.1005 0.2225 -  
0.1122 1 .  
7357 O O . HOH HOH HOH S . 804 804 . 0.6573 0.6009 0.6733 -0.2230 0.1168  
0.0617 1 .  
7358 O O . HOH HOH HOH S . 805 805 . 0.3535 0.8771 0.6731 -0.3144 -0.0323  
0.0482 1 .  
7359 O O . HOH HOH HOH S . 806 806 . 0.4537 0.7439 0.6774 -0.0866 0.1261  
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_atom_sites.fract_transf_matrix[2][2]  0.008346
_atom_sites.fract_transf_matrix[2][3]  0.000000
_atom_sites.fract_transf_matrix[3][1]  0.000000
_atom_sites.fract_transf_matrix[3][2]  0.000000
_atom_sites.fract_transf_matrix[3][3]  0.014660
_atom_sites.fract_transf_vector[1]    0.000000
_atom_sites.fract_transf_vector[2]    0.000000
_atom_sites.fract_transf_vector[3]    0.000000

```

```

#
_cell.length_a      114.453
_cell.length_b      119.816
_cell.length_c       68.213
_cell.angle_alpha   90.000
_cell.angle_beta    90.000
_cell.angle_gamma   90.000
_cell.entry_id      UNNAMED

```

```

#
_computing.entry_id          UNNAMED
_computing.structure_refinement  'REFMAC 5.5.0109'
_computing.structure_solution  ?
_computing.pdbx_data_reduction_ds  HKL
_computing.pdbx_data_reduction_ii  HKL
_computing.cell_refinement      HKL

```

```

#
_data_extraction.software      pdb_extract
_data_extraction.extraction_date  'Fri Oct 21 14:37:30 2011'
_data_extraction.version        3.10
_data_extraction.release_date    'June 10, 2010'
_data_extraction.location        http://sw-tools.rcsb.org/apps/PDB\_EXTRACT/

```

```

#
loop_
_database_2.database_id

```

\_database\_2.database\_code

PDB UNNAMED

RCSB UNNAMED

#

\_database\_PDB\_remark.id 3

\_database\_PDB\_remark.text

;

REMARK 3

REMARK 3 REFINEMENT.

REMARK 3 PROGRAM : REFMAC 5.5.0109

REMARK 3 AUTHORS : MURSHUDOV,VAGIN,DODSON

REMARK 3

REMARK 3 REFINEMENT TARGET : MAXIMUM LIKELIHOOD

REMARK 3

REMARK 3 DATA USED IN REFINEMENT.

REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS) : 1.65

REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS) : 82.76

REMARK 3 DATA CUTOFF (SIGMA(F)) : NONE

REMARK 3 COMPLETENESS FOR RANGE (%) : 99.33

REMARK 3 NUMBER OF REFLECTIONS : 106788

REMARK 3

REMARK 3 FIT TO DATA USED IN REFINEMENT.

REMARK 3 CROSS-VALIDATION METHOD : THROUGHOUT

REMARK 3 FREE R VALUE TEST SET SELECTION : RANDOM

REMARK 3 R VALUE (WORKING + TEST SET) : 0.13662

REMARK 3 R VALUE (WORKING SET) : 0.13410

REMARK 3 FREE R VALUE : 0.18280

REMARK 3 FREE R VALUE TEST SET SIZE (%) : 5.1

REMARK 3 FREE R VALUE TEST SET COUNT : 5744

REMARK 3

REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.

REMARK 3 TOTAL NUMBER OF BINS USED : 20

REMARK 3 BIN RESOLUTION RANGE HIGH : 1.650

REMARK 3 BIN RESOLUTION RANGE LOW : 1.693

REMARK 3 REFLECTION IN BIN (WORKING SET) : 7625

REMARK 3 BIN COMPLETENESS (WORKING+TEST) (%) : 97.53

REMARK 3 BIN R VALUE (WORKING SET) : 0.197

REMARK 3 BIN FREE R VALUE SET COUNT : 445

REMARK 3 BIN FREE R VALUE : 0.260

REMARK 3

REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.

REMARK 3 ALL ATOMS : 7359

REMARK 3

REMARK 3 B VALUES.

REMARK 3 FROM WILSON PLOT (A\*\*2) : NULL

REMARK 3 MEAN B VALUE (OVERALL, A\*\*2) : 20.908

REMARK 3 OVERALL ANISOTROPIC B VALUE.

REMARK 3 B11 (A\*\*2) : 1.48

REMARK 3 B22 (A\*\*2) : -0.53

REMARK 3 B33 (A\*\*2) : -0.95

REMARK 3 B12 (A\*\*2) : 0.00

REMARK 3 B13 (A\*\*2) : 0.00

REMARK 3 B23 (A\*\*2) : 0.00

REMARK 3

REMARK 3 ESTIMATED OVERALL COORDINATE ERROR.

REMARK 3 ESU BASED ON R VALUE (A) : 0.096

REMARK 3 ESU BASED ON FREE R VALUE (A) : 0.081

REMARK 3 ESU BASED ON MAXIMUM LIKELIHOOD (A) : 0.050

REMARK 3 ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A\*\*2) : 3.244

REMARK 3

REMARK 3 CORRELATION COEFFICIENTS.  
REMARK 3 CORRELATION COEFFICIENT FO-FC : 0.974  
REMARK 3 CORRELATION COEFFICIENT FO-FC FREE : 0.959  
REMARK 3  
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES COUNT RMS WEIGHT  
REMARK 3 BOND LENGTHS REFINED ATOMS (A) : 6656 ; 0.028 ; 0.022  
REMARK 3 BOND ANGLES REFINED ATOMS (DEGREES) : 9016 ; 2.077 ; 1.969  
REMARK 3 TORSION ANGLES, PERIOD 1 (DEGREES) : 864 ; 6.216 ; 5.000  
REMARK 3 TORSION ANGLES, PERIOD 2 (DEGREES) : 282 ; 37.381 ; 24.752  
REMARK 3 TORSION ANGLES, PERIOD 3 (DEGREES) : 1112 ; 12.816 ; 15.000  
REMARK 3 TORSION ANGLES, PERIOD 4 (DEGREES) : 37 ; 21.210 ; 15.000  
REMARK 3 CHIRAL-CENTER RESTRAINTS (A\*\*3) : 1025 ; 0.165 ; 0.200  
REMARK 3 GENERAL PLANES REFINED ATOMS (A) : 5005 ; 0.013 ; 0.021  
REMARK 3  
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT  
REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A\*\*2) : 4284 ; 2.410 ; 1.500  
REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A\*\*2) : 6838 ; 3.388 ; 2.000  
REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A\*\*2) : 2372 ; 5.297 ; 3.000  
REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A\*\*2) : 2178 ; 7.516 ; 4.500  
REMARK 3  
REMARK 3 ANISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT  
REMARK 3 RIGID-BOND RESTRAINTS (A\*\*2) : 6656 ; 2.875 ; 3.000  
REMARK 3  
REMARK 3 NCS RESTRAINTS STATISTICS  
REMARK 3 NUMBER OF NCS GROUPS : NULL  
REMARK 3  
REMARK 3 TWIN DETAILS  
REMARK 3 NUMBER OF TWIN DOMAINS : NULL  
REMARK 3  
REMARK 3  
REMARK 3 TLS DETAILS  
REMARK 3 NUMBER OF TLS GROUPS : NULL  
REMARK 3  
REMARK 3  
REMARK 3 BULK SOLVENT MODELLING.  
REMARK 3 METHOD USED : MASK  
REMARK 3 PARAMETERS FOR MASK CALCULATION  
REMARK 3 VDW PROBE RADIUS : 1.40  
REMARK 3 ION PROBE RADIUS : 0.80  
REMARK 3 SHRINKAGE RADIUS : 0.80  
REMARK 3  
REMARK 3 OTHER REFINEMENT REMARKS:  
REMARK 3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS  
REMARK 3 U VALUES : REFINED INDIVIDUALLY  
REMARK 3

```

;
#
_entity_poly.entity_id 1
_entity_poly.pdbx_seq_one_letter_code
;SIEKIWAREILDSRGNPTVEVDLYTAKGLFRAAVPSGASTGIYEALRLDGDQRYLGKG
VLKAVDHNSTIAPALISSGLSVVEQEKLDNLMLELDGTENKSKFGANAILGVSLAVCKA
GAAERELPLYRHIAQLAGNSDLILPVPFVINGGSHAGNKLAMQEFMILPVGAESFRDA
MRLGAEVYHTLKGVIKDKYGKDATNVGDEGGFAPNILENSEALELVKEAIDKAGYTEKIV
IGMDVAASEFYRDGKYDLDFKSPTDPSRYITGDQLGALYQDFVRDYPVVSIEDPFDQDDW
AAWSKFTANVGIQIVGDDLTVTNPKRIERAVEEKACNCLLLKVNQIGSVTEAIQACKLAQ
ENGWGVMSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEELGDEA
RFAGHNFRNPSVL
;
_entity_poly.pdbx_strand_id A,B
_entity_poly.type 'polypeptide(L)'

```

```

_entity_poly.pdbx_target_identifier      ?
#
_entry.id      UNNAMED
#
_exptl.crystals_number      1
_exptl.entry_id      UNNAMED
_exptl.method      'X-RAY DIFFRACTION'
#
_exptl_crystal.id      1
_exptl_crystal.pdbx_mosaicity      0.614
_exptl_crystal.pdbx_mosaicity_esd      ?
_exptl_crystal.density_Matthews      ?
_exptl_crystal.density_diffn      ?
_exptl_crystal.density_meas      ?
_exptl_crystal.density_meas_temp      ?
_exptl_crystal.density_percent_sol      ?
_exptl_crystal.size_max      ?
_exptl_crystal.size_mid      ?
_exptl_crystal.size_min      ?
_exptl_crystal.size_rad      ?
#
_refine.entry_id      UNNAMED
_refine.pdbx_refine_id      'X-RAY DIFFRACTION'
_refine.ls_d_res_high      1.6500
_refine.ls_d_res_low      82.7600
_refine.pdbx_ls_sigma_F      0.000
_refine.pdbx_data_cutoff_high_absF      ?
_refine.pdbx_data_cutoff_low_absF      ?
_refine.ls_percent_reflns_obs      99.3300
_refine.ls_number_reflns_obs      112532
_refine.ls_number_reflns_all      ?
_refine.pdbx_ls_cross_valid_method      THROUGHOUT
_refine.ls_matrix_type      ?
_refine.pdbx_R_Free_selection_details      RANDOM
_refine.details
' HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS U VALUES      : REFINED
INDIVIDUALLY '
_refine.ls_R_factor_all      ?
_refine.ls_R_factor_obs      0.1366
_refine.ls_R_factor_R_work      0.1341
_refine.ls_wR_factor_R_work      0.1365
_refine.ls_R_factor_R_free      0.1828
_refine.ls_wR_factor_R_free      0.1845
_refine.ls_percent_reflns_R_free      5.1000
_refine.ls_number_reflns_R_free      5744
_refine.ls_number_reflns_R_work      106788
_refine.ls_R_factor_R_free_error      ?
_refine.B_iso_mean      21.2151
_refine.solvent_model_param_bsol      ?
_refine.solvent_model_param_ksol      ?
_refine.pdbx_isotropic_thermal_model      ?
_refine.aniso_B[1][1]      1.4800
_refine.aniso_B[2][2]      -0.5300
_refine.aniso_B[3][3]      -0.9500
_refine.aniso_B[1][2]      0.0000
_refine.aniso_B[1][3]      0.0000
_refine.aniso_B[2][3]      0.0000
_refine.correlation_coeff_Fo_to_Fc      0.9740
_refine.correlation_coeff_Fo_to_Fc_free      0.9590
_refine.overall_SU_R_Cruickshank_DPI      0.0961

```

_refine.pdbx_overall_SU_R_free_Cruickshank_DPI	?
_refine.pdbx_overall_SU_R_Blow_DPI	?
_refine.pdbx_overall_SU_R_free_Blow_DPI	?
_refine.overall_SU_R_free	0.0808
_refine.pdbx_overall_ESU_R	0.0960
_refine.pdbx_overall_ESU_R_Free	0.0810
_refine.overall_SU_ML	0.0500
_refine.overall_SU_B	3.2440
_refine.solvent_model_details	MASK
_refine.pdbx_solvent_vdw_probe_radii	1.4000
_refine.pdbx_solvent_ion_probe_radii	0.8000
_refine.pdbx_solvent_shrinkage_radii	0.8000
_refine.ls_number_parameters	?
_refine.ls_number_restraints	?
_refine.pdbx_starting_model	?
_refine.pdbx_method_to_determine_struct	?
_refine.pdbx_stereochemistry_target_values	'MAXIMUM LIKELIHOOD'
_refine.pdbx_stereochem_target_val_spec_case	?
_refine.overall_FOM_work_R_set	0.9082
_refine.B_iso_max	101.080
_refine.B_iso_min	6.470
_refine.pdbx_overall_phase_error	?
_refine.occupancy_max	1.000
_refine.occupancy_min	0.500
#	
loop_	
_refine_ls_restr.pdbx_refine_id	
_refine_ls_restr.type	
_refine_ls_restr.number	
_refine_ls_restr.dev_ideal	
_refine_ls_restr.dev_ideal_target	
_refine_ls_restr.weight	
_refine_ls_restr.pdbx_restraint_function	
'X-RAY DIFFRACTION' r_bond_refined_d	6656 0.028 0.022 ? ?
'X-RAY DIFFRACTION' r_angle_refined_deg	9016 2.077 1.969 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_1_deg	864 6.216 5.000 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_2_deg	282 37.381 24.752 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_3_deg	1112 12.816 15.000 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_4_deg	37 21.210 15.000 ? ?
'X-RAY DIFFRACTION' r_chiral_restr	1025 0.165 0.200 ? ?
'X-RAY DIFFRACTION' r_gen_planes_refined	5005 0.013 0.021 ? ?
'X-RAY DIFFRACTION' r_mcbond_it	4284 2.410 1.500 ? ?
'X-RAY DIFFRACTION' r_mcbond_angle_it	6838 3.388 2.000 ? ?
'X-RAY DIFFRACTION' r_scbond_it	2372 5.297 3.000 ? ?
'X-RAY DIFFRACTION' r_scbond_angle_it	2178 7.516 4.500 ? ?
'X-RAY DIFFRACTION' r_rigid_bond_restr	6656 2.875 3.000 ? ?
#	
_refine_ls_shell.d_res_high	1.6500
_refine_ls_shell.d_res_low	1.6930
_refine_ls_shell.pdbx_total_number_of_bins_used	20
_refine_ls_shell.percent_reflns_obs	97.5300
_refine_ls_shell.number_reflns_R_work	7625
_refine_ls_shell.R_factor_all	?
_refine_ls_shell.R_factor_R_work	0.1970
_refine_ls_shell.R_factor_R_free	0.2600
_refine_ls_shell.percent_reflns_R_free	?
_refine_ls_shell.number_reflns_R_free	445
_refine_ls_shell.R_factor_R_free_error	?
_refine_ls_shell.number_reflns_all	8070
_refine_ls_shell.number_reflns_obs	?





```

2.120 2.430  ? ? ? ? 0.073 ? ? 1.632 6.100 ? ? ? ? ? ? ? ? ? ? 17802 ? ? ? ? 100.000 ?
?
2.430 3.060  ? ? ? ? 0.053 ? ? 2.090 6.100 ? ? ? ? ? ? ? ? ? ? 17892 ? ? ? ? 100.000 ?
?
3.060 50.000 ? ? ? ? 0.034 ? ? 2.125 5.900 ? ? ? ? ? ? ? ? ? ? 18407 ? ? ? ? 99.600 ?
?
#
loop_
_software.pdbx_ordinal
_software.name
_software.version
_software.date
_software.type
_software.contact_author
_software.contact_author_email
_software.classification
_software.location
_software.language
1 HKL      ?      ?      package 'Zbyszek Otwinowski' hkl@hkl-xray.com
'data reduction' http://www.hkl-xray.com/      ?
2 REFMAC5  ?      ?      program 'Garib N. Murshudov' garib@ysbl.york.ac.uk
refinement      http://www.ccp4.ac.uk/dist/html/refmac5.html Fortran_77
3 pdb_extract 3.10 'June 10, 2010' package PDB
deposit@deposit.rcsb.org
'data extraction' http://sw-tools.pdb.org/apps/PDB_EXTRACT/      C++
#
_struct_biol.id      1
_struct_biol.details ?
#
_symmetry.space_group_name_H-M 'P 21 21 2'
_symmetry.entry_id    UNNAMED
_symmetry.Int_Tables_number 18
#

```

## CIF File(s) (REQUIRED if paper describes X-ray crystal structures)

data\_UNNAMED

#

loop\_

\_atom\_site.group\_PDB

\_atom\_site.id

\_atom\_site.auth\_atom\_id

\_atom\_site.label\_atom\_id

\_atom\_site.label\_alt\_id

\_atom\_site.auth\_comp\_id

\_atom\_site.label\_comp\_id

\_atom\_site.pdbx\_auth\_comp\_id

\_atom\_site.auth\_asym\_id

\_atom\_site.label\_asym\_id

\_atom\_site.auth\_seq\_id

\_atom\_site.label\_seq\_id

\_atom\_site.pdbx\_PDB\_ins\_code

\_atom\_site.Cartn\_x

\_atom\_site.Cartn\_y

\_atom\_site.Cartn\_z

\_atom\_site.occupancy

\_atom\_site.B\_iso\_or\_equiv

\_atom\_site.pdbx\_PDB\_model\_num

\_atom\_site.label\_entity\_id

\_atom\_site.type\_symbol

ATOM 1	N	N	.	SER	SER	SER	A	A	1	1	.	65.976	77.019	22.059	1.00	44.42
--------	---	---	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 2	CA	CA	.	SER	SER	SER	A	A	1	1	.	67.187	76.340	21.492	1.00	44.16
--------	----	----	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 3	CB	CB	.	SER	SER	SER	A	A	1	1	.	66.962	74.824	21.282	1.00	44.78
--------	----	----	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 4	OG	OG	.	SER	SER	SER	A	A	1	1	.	66.114	74.534	20.151	1.00	47.88
--------	----	----	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 5	C	C	.	SER	SER	SER	A	A	1	1	.	67.653	77.039	20.205	1.00	42.89
--------	---	---	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 6	O	O	.	SER	SER	SER	A	A	1	1	.	66.900	77.817	19.583	1.00	43.05
--------	---	---	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 7	N	N	.	ILE	ILE	ILE	A	A	2	2	.	68.906	76.751	19.846	1.00	40.87
--------	---	---	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 8	CA	CA	.	ILE	ILE	ILE	A	A	2	2	.	69.595	77.336	18.722	1.00	38.87
--------	----	----	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 9	CB	CB	.	ILE	ILE	ILE	A	A	2	2	.	71.099	77.023	18.869	1.00	37.82
--------	----	----	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 10	CG1	CG1	.	ILE	ILE	ILE	A	A	2	2	.	71.623	77.778	20.047	1.00	35.48
---------	-----	-----	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 11	CD1	CD1	.	ILE	ILE	ILE	A	A	2	2	.	72.956	77.307	20.551	1.00	34.77
---------	-----	-----	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 12	CG2	CG2	.	ILE	ILE	ILE	A	A	2	2	.	71.875	77.369	17.602	1.00	36.33
---------	-----	-----	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 13	C	C	.	ILE	ILE	ILE	A	A	2	2	.	69.065	76.708	17.459	1.00	38.82
---------	---	---	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 14	O	O	.	ILE	ILE	ILE	A	A	2	2	.	69.031	75.493	17.373	1.00	38.91
---------	---	---	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 15	N	N	.	GLN	GLN	GLN	A	A	3	3	.	68.676	77.507	16.466	1.00	39.22
---------	---	---	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 16	CA	CA	.	GLN	GLN	GLN	A	A	3	3	.	68.149	76.913	15.209	1.00	40.06
---------	----	----	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 17	CB	CB	.	GLN	GLN	GLN	A	A	3	3	.	66.936	77.670	14.615	1.00	39.86
---------	----	----	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 18	CG	CG	.	GLN	GLN	GLN	A	A	3	3	.	65.789	77.963	15.582	1.00	42.25
---------	----	----	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .



























ATOM 379	N	N	. ASP ASP ASP A A 50 50 . 94.809 80.481 8.985 1.00 34.48
1 . .			
ATOM 380	CA	CA	. ASP ASP ASP A A 50 50 . 95.002 79.519 7.883 1.00 34.20
1 . .			
ATOM 381	CB	CB	. ASP ASP ASP A A 50 50 . 94.198 79.933 6.684 1.00 31.98
1 . .			
ATOM 382	CG	CG	. ASP ASP ASP A A 50 50 . 92.683 79.929 6.970 1.00 31.30
1 . .			
ATOM 383	OD1	OD1	. ASP ASP ASP A A 50 50 . 92.234 79.396 8.006 1.00 25.39
1 . .			
ATOM 384	OD2	OD2	. ASP ASP ASP A A 50 50 . 91.927 80.454 6.137 1.00 28.57
1 . .			
ATOM 385	C	C	. ASP ASP ASP A A 50 50 . 96.453 79.231 7.493 1.00 35.74
1 . .			
ATOM 386	O	O	. ASP ASP ASP A A 50 50 . 96.785 78.062 7.242 1.00 36.36
1 . .			
ATOM 387	N	N	. GLY GLY GLY A A 51 51 . 97.312 80.253 7.438 1.00 36.77
1 . .			
ATOM 388	CA	CA	. GLY GLY GLY A A 51 51 . 98.748 80.044 7.038 1.00 39.10
1 . .			
ATOM 389	C	C	. GLY GLY GLY A A 51 51 . 98.955 79.798 5.534 1.00 40.45
1 . .			
ATOM 390	O	O	. GLY GLY GLY A A 51 51 . 100.025 79.337 5.111 1.00 41.92
1 . .			
ATOM 391	N	N	. ASP ASP ASP A A 52 52 . 97.934 80.102 4.736 1.00 40.57
1 . .			
ATOM 392	CA	CA	. ASP ASP ASP A A 52 52 . 97.954 80.033 3.265 1.00 41.99
1 . .			
ATOM 393	CB	CB	. ASP ASP ASP A A 52 52 . 96.509 79.810 2.715 1.00 41.59
1 . .			
ATOM 394	CG	CG	. ASP ASP ASP A A 52 52 . 96.443 79.831 1.154 1.00 43.74
1 . .			
ATOM 395	OD1	OD1	. ASP ASP ASP A A 52 52 . 95.306 79.708 0.571 1.00 42.86
1 . .			
ATOM 396	OD2	OD2	. ASP ASP ASP A A 52 52 . 97.536 79.968 0.519 1.00 44.60
1 . .			
ATOM 397	C	C	. ASP ASP ASP A A 52 52 . 98.527 81.333 2.680 1.00 43.19
1 . .			
ATOM 398	O	O	. ASP ASP ASP A A 52 52 . 97.791 82.311 2.467 1.00 43.21
1 . .			
ATOM 399	N	N	. LYS LYS LYS A A 53 53 . 99.836 81.343 2.433 1.00 44.59
1 . .			
ATOM 400	CA	CA	. LYS LYS LYS A A 53 53 . 100.527 82.477 1.817 1.00 45.85
1 . .			
ATOM 401	CB	CB	. LYS LYS LYS A A 53 53 . 102.005 82.132 1.569 1.00 46.37
1 . .			
ATOM 402	CG	CG	. LYS LYS LYS A A 53 53 . 102.720 81.393 2.728 1.00 49.11
1 . .			
ATOM 403	CD	CD	. LYS LYS LYS A A 53 53 . 103.332 82.318 3.805 1.00 53.40
1 . .			
ATOM 404	CE	CE	. LYS LYS LYS A A 53 53 . 104.844 81.974 4.066 1.00 56.53
1 . .			
ATOM 405	NZ	NZ	. LYS LYS LYS A A 53 53 . 105.144 80.570 4.592 1.00 58.79
1 . .			
ATOM 406	C	C	. LYS LYS LYS A A 53 53 . 99.867 83.077 0.519 1.00 46.07
1 . .			
ATOM 407	O	O	. LYS LYS LYS A A 53 53 . 100.057 84.255 0.229 1.00 47.22
1 . .			
ATOM 408	N	N	. GLN GLN GLN A A 54 54 . 99.082 82.324 -0.248 1.00 46.14
1 . .			

























ATOM 709	N	N	. LEU LEU LEU A A 94 94 . 84.288 73.930 25.086 1.00 33.85
1 . .			
ATOM 710	CA	CA	. LEU LEU LEU A A 94 94 . 85.649 73.777 25.630 1.00 34.20
1 . .			
ATOM 711	CB	CB	. LEU LEU LEU A A 94 94 . 85.836 74.426 27.026 1.00 35.57
1 . .			
ATOM 712	CG	CG	. LEU LEU LEU A A 94 94 . 85.555 75.919 27.282 1.00 36.94
1 . .			
ATOM 713	CD1	CD1	. LEU LEU LEU A A 94 94 . 85.941 76.325 28.682 1.00 39.26
1 . .			
ATOM 714	CD2	CD2	. LEU LEU LEU A A 94 94 . 86.277 76.796 26.346 1.00 36.16
1 . .			
ATOM 715	C	C	. LEU LEU LEU A A 94 94 . 85.999 72.299 25.692 1.00 33.89
1 . .			
ATOM 716	O	O	. LEU LEU LEU A A 94 94 . 87.152 71.915 25.399 1.00 32.79
1 . .			
ATOM 717	N	N	. GLU GLU GLU A A 95 95 . 85.003 71.473 26.020 1.00 33.95
1 . .			
ATOM 718	CA	CA	. GLU GLU GLU A A 95 95 . 85.189 69.982 26.047 1.00 35.61
1 . .			
ATOM 719	CB	CB	. GLU GLU GLU A A 95 95 . 84.020 69.238 26.714 1.00 37.17
1 . .			
ATOM 720	CG	CG	. GLU GLU GLU A A 95 95 . 83.892 69.404 28.259 1.00 43.98
1 . .			
ATOM 721	CD	CD	. GLU GLU GLU A A 95 95 . 85.249 69.307 28.989 1.00 50.31
1 . .			
ATOM 722	OE1	OE1	. GLU GLU GLU A A 95 95 . 86.124 68.508 28.585 1.00 53.17
1 . .			
ATOM 723	OE2	OE2	. GLU GLU GLU A A 95 95 . 85.457 70.037 29.984 1.00 54.60
1 . .			
ATOM 724	C	C	. GLU GLU GLU A A 95 95 . 85.360 69.427 24.633 1.00 34.75
1 . .			
ATOM 725	O	O	. GLU GLU GLU A A 95 95 . 86.198 68.543 24.413 1.00 33.79
1 . .			
ATOM 726	N	N	. LEU LEU LEU A A 96 96 . 84.589 69.964 23.673 1.00 33.56
1 . .			
ATOM 727	CA	CA	. LEU LEU LEU A A 96 96 . 84.700 69.498 22.275 1.00 32.71
1 . .			
ATOM 728	CB	CB	. LEU LEU LEU A A 96 96 . 83.578 70.082 21.422 1.00 31.68
1 . .			
ATOM 729	CG	CG	. LEU LEU LEU A A 96 96 . 83.409 69.460 20.036 1.00 32.63
1 . .			
ATOM 730	CD1	CD1	. LEU LEU LEU A A 96 96 . 83.377 67.895 20.063 1.00 32.23
1 . .			
ATOM 731	CD2	CD2	. LEU LEU LEU A A 96 96 . 82.133 70.008 19.368 1.00 31.42
1 . .			
ATOM 732	C	C	. LEU LEU LEU A A 96 96 . 86.084 69.829 21.670 1.00 33.13
1 . .			
ATOM 733	O	O	. LEU LEU LEU A A 96 96 . 86.633 69.129 20.784 1.00 31.99
1 . .			
ATOM 734	N	N	. ASP ASP ASP A A 97 97 . 86.617 70.944 22.128 1.00 33.50
1 . .			
ATOM 735	CA	CA	. ASP ASP ASP A A 97 97 . 87.917 71.344 21.696 1.00 34.59
1 . .			
ATOM 736	CB	CB	. ASP ASP ASP A A 97 97 . 88.160 72.831 21.987 1.00 34.47
1 . .			
ATOM 737	CG	CG	. ASP ASP ASP A A 97 97 . 89.593 73.228 21.740 1.00 36.45
1 . .			
ATOM 738	OD1	OD1	. ASP ASP ASP A A 97 97 . 89.864 73.860 20.681 1.00 39.12
1 . .			



























































































ATOM 1939	C	C	. ASP ASP ASP A A	257 257	. 114.137 99.201 23.800	1.00 43.04
1 . .						
ATOM 1940	O	O	. ASP ASP ASP A A	257 257	. 113.257 98.911 22.961	1.00 43.52
1 . .						
ATOM 1941	N	N	. LEU LEU LEU A A	258 258	. 114.262 100.393 24.368	1.00 42.89
1 . .						
ATOM 1942	CA	CA	. LEU LEU LEU A A	258 258	. 113.439 101.537 24.078	1.00 43.35
1 . .						
ATOM 1943	CB	CB	. LEU LEU LEU A A	258 258	. 113.679 102.604 25.164	1.00 43.46
1 . .						
ATOM 1944	CG	CG	. LEU LEU LEU A A	258 258	. 113.134 102.208 26.541	1.00 42.97
1 . .						
ATOM 1945	CD1	CD1	. LEU LEU LEU A A	258 258	. 113.417 103.336 27.544	1.00 42.52
1 . .						
ATOM 1946	CD2	CD2	. LEU LEU LEU A A	258 258	. 111.597 101.888 26.441	1.00 42.55
1 . .						
ATOM 1947	C	C	. LEU LEU LEU A A	258 258	. 113.626 102.161 22.693	1.00 43.74
1 . .						
ATOM 1948	O	O	. LEU LEU LEU A A	258 258	. 113.072 103.227 22.428	1.00 43.76
1 . .						
ATOM 1949	N	N	. ASP ASP ASP A A	259 259	. 114.389 101.509 21.808	1.00 43.88
1 . .						
ATOM 1950	CA	CA	. ASP ASP ASP A A	259 259	. 114.479 101.942 20.401	1.00 43.15
1 . .						
ATOM 1951	CB	CB	. ASP ASP ASP A A	259 259	. 115.763 102.792 20.193	1.00 44.03
1 . .						
ATOM 1952	CG	CG	. ASP ASP ASP A A	259 259	. 115.756 103.653 18.900	1.00 47.62
1 . .						
ATOM 1953	OD1	OD1	. ASP ASP ASP A A	259 259	. 114.684 103.802 18.211	1.00 49.94
1 . .						
ATOM 1954	OD2	OD2	. ASP ASP ASP A A	259 259	. 116.877 104.204 18.571	1.00 51.24
1 . .						
ATOM 1955	C	C	. ASP ASP ASP A A	259 259	. 114.369 100.690 19.503	1.00 41.97
1 . .						
ATOM 1956	O	O	. ASP ASP ASP A A	259 259	. 114.932 100.611 18.444	1.00 41.30
1 . .						
ATOM 1957	N	N	. PHE PHE PHE A A	260 260	. 113.556 99.726 19.915	1.00 42.63
1 . .						
ATOM 1958	CA	CA	. PHE PHE PHE A A	260 260	. 113.442 98.442 19.226	1.00 42.14
1 . .						
ATOM 1959	CB	CB	. PHE PHE PHE A A	260 260	. 112.545 97.535 20.042	1.00 42.01
1 . .						
ATOM 1960	CG	CG	. PHE PHE PHE A A	260 260	. 111.072 97.831 19.899	1.00 40.89
1 . .						
ATOM 1961	CD1	CD1	. PHE PHE PHE A A	260 260	. 110.457 98.789 20.697	1.00 40.32
1 . .						
ATOM 1962	CE1	CE1	. PHE PHE PHE A A	260 260	. 109.046 99.049 20.571	1.00 41.76
1 . .						
ATOM 1963	CZ	CZ	. PHE PHE PHE A A	260 260	. 108.249 98.309 19.632	1.00 41.29
1 . .						
ATOM 1964	CE2	CE2	. PHE PHE PHE A A	260 260	. 108.872 97.334 18.835	1.00 41.90
1 . .						
ATOM 1965	CD2	CD2	. PHE PHE PHE A A	260 260	. 110.289 97.104 18.984	1.00 41.98
1 . .						
ATOM 1966	C	C	. PHE PHE PHE A A	260 260	. 112.975 98.500 17.755	1.00 43.20
1 . .						
ATOM 1967	O	O	. PHE PHE PHE A A	260 260	. 113.138 97.520 17.000	1.00 41.67
1 . .						
ATOM 1968	N	N	. LYS LYS LYS A A	261 261	. 112.375 99.629 17.340	1.00 44.59
1 . .						









ATOM 2089	N	N	. ALA ALA ALA A A	277 277	. 113.043 102.853 37.326	1.00 43.12
1 . .						
ATOM 2090	CA	CA	. ALA ALA ALA A A	277 277	. 113.448 104.182 37.791	1.00 42.69
1 . .						
ATOM 2091	CB	CB	. ALA ALA ALA A A	277 277	. 115.029 104.351 37.772	1.00 42.20
1 . .						
ATOM 2092	C	C	. ALA ALA ALA A A	277 277	. 112.819 105.187 36.879	1.00 42.32
1 . .						
ATOM 2093	O	O	. ALA ALA ALA A A	277 277	. 112.332 106.223 37.311	1.00 42.97
1 . .						
ATOM 2094	N	N	. LEU LEU LEU A A	278 278	. 112.857 104.876 35.593	1.00 42.26
1 . .						
ATOM 2095	CA	CA	. LEU LEU LEU A A	278 278	. 112.171 105.650 34.595	1.00 42.09
1 . .						
ATOM 2096	CB	CB	. LEU LEU LEU A A	278 278	. 112.395 104.995 33.241	1.00 42.76
1 . .						
ATOM 2097	CG	CG	. LEU LEU LEU A A	278 278	. 112.033 105.829 32.024	1.00 45.15
1 . .						
ATOM 2098	CD1	CD1	. LEU LEU LEU A A	278 278	. 112.868 107.149 32.022	1.00 48.95
1 . .						
ATOM 2099	CD2	CD2	. LEU LEU LEU A A	278 278	. 112.319 105.011 30.787	1.00 46.02
1 . .						
ATOM 2100	C	C	. LEU LEU LEU A A	278 278	. 110.645 105.759 34.957	1.00 41.13
1 . .						
ATOM 2101	O	O	. LEU LEU LEU A A	278 278	. 110.062 106.853 34.919	1.00 40.15
1 . .						
ATOM 2102	N	N	. TYR TYR TYR A A	279 279	. 110.025 104.671 35.397	1.00 39.97
1 . .						
ATOM 2103	CA	CA	. TYR TYR TYR A A	279 279	. 108.607 104.789 35.771	1.00 39.87
1 . .						
ATOM 2104	CB	CB	. TYR TYR TYR A A	279 279	. 107.965 103.423 36.005	1.00 38.88
1 . .						
ATOM 2105	CG	CG	. TYR TYR TYR A A	279 279	. 108.032 102.492 34.782	1.00 37.61
1 . .						
ATOM 2106	CD1	CD1	. TYR TYR TYR A A	279 279	. 107.972 103.004 33.476	1.00 34.60
1 . .						
ATOM 2107	CE1	CE1	. TYR TYR TYR A A	279 279	. 108.026 102.153 32.362	1.00 34.22
1 . .						
ATOM 2108	CZ	CZ	. TYR TYR TYR A A	279 279	. 108.147 100.772 32.528	1.00 35.95
1 . .						
ATOM 2109	OH	OH	. TYR TYR TYR A A	279 279	. 108.199 99.914 31.396	1.00 33.59
1 . .						
ATOM 2110	CE2	CE2	. TYR TYR TYR A A	279 279	. 108.231 100.249 33.825	1.00 36.03
1 . .						
ATOM 2111	CD2	CD2	. TYR TYR TYR A A	279 279	. 108.158 101.100 34.932	1.00 35.95
1 . .						
ATOM 2112	C	C	. TYR TYR TYR A A	279 279	. 108.398 105.743 36.963	1.00 40.34
1 . .						
ATOM 2113	O	O	. TYR TYR TYR A A	279 279	. 107.407 106.515 36.991	1.00 40.35
1 . .						
ATOM 2114	N	N	. GLN GLN GLN A A	280 280	. 109.361 105.749 37.892	1.00 40.08
1 . .						
ATOM 2115	CA	CA	. GLN GLN GLN A A	280 280	. 109.277 106.562 39.121	1.00 40.72
1 . .						
ATOM 2116	CB	CB	. GLN GLN GLN A A	280 280	. 110.322 106.169 40.193	1.00 40.85
1 . .						
ATOM 2117	CG	CG	. GLN GLN GLN A A	280 280	. 110.187 104.724 40.778	1.00 43.26
1 . .						
ATOM 2118	CD	CD	. GLN GLN GLN A A	280 280	. 108.996 104.536 41.749	1.00 45.97
1 . .						



































































































































































































































































































































































ATOM	6829	O	O	.	HOH	HOH	HOH	S	.	178	178	.	89.663	130.678	15.839	1.00	58.92
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6830	O	O	.	HOH	HOH	HOH	S	.	179	179	.	75.287	110.914	40.859	1.00	59.36
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6831	O	O	.	HOH	HOH	HOH	S	.	180	180	.	75.290	80.301	32.779	1.00	39.05
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6832	O	O	.	HOH	HOH	HOH	S	.	181	181	.	68.612	89.175	-7.179	1.00	57.03
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6833	O	O	.	HOH	HOH	HOH	S	.	182	182	.	94.301	101.198	24.400	1.00	27.62
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6834	O	O	.	HOH	HOH	HOH	S	.	183	183	.	81.900	119.630	7.650	1.00	35.24
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6835	O	O	.	HOH	HOH	HOH	S	.	184	184	.	76.681	84.680	-3.582	1.00	42.74
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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_atom_site_anisotrop.U[2][3]
_atom_site_anisotrop.pdbx_PDB_model_num
_atom_site_anisotrop.type_symbol
1  N  N  . SER SER SER A A 1 1 . 0.5592 0.5684 0.5599 0.0072 0.0150
0.0120 1 .
2  CA  CA  . SER SER SER A A 1 1 . 0.5542 0.5687 0.5547 -0.0041 0.0099
0.0049 1 .
3  CB  CB  . SER SER SER A A 1 1 . 0.5704 0.5740 0.5567 0.0027 0.0051
0.0026 1 .
4  OG  OG  . SER SER SER A A 1 1 . 0.5715 0.6586 0.5888 -0.0128 -0.0068
0.0050 1 .
5  C  C  . SER SER SER A A 1 1 . 0.5404 0.5472 0.5418 0.0029 0.0089
0.0020 1 .
6  O  O  . SER SER SER A A 1 1 . 0.5334 0.5526 0.5494 0.0035 0.0098
0.0093 1 .
7  N  N  . ILE ILE ILE A A 2 2 . 0.5133 0.5156 0.5237 -0.0014 0.0091 -
0.0014 1 .
8  CA  CA  . ILE ILE ILE A A 2 2 . 0.4907 0.4807 0.5055 0.0056 0.0183 -
0.0088 1 .
9  CB  CB  . ILE ILE ILE A A 2 2 . 0.4816 0.4629 0.4924 0.0006 0.0105 -
0.0098 1 .
10 CG1  CG1  . ILE ILE ILE A A 2 2 . 0.4643 0.4251 0.4584 0.0201 0.0311 -
0.0224 1 .
11 CD1  CD1  . ILE ILE ILE A A 2 2 . 0.4541 0.3747 0.4921 0.0403 0.0473 -
0.0399 1 .
12 CG2  CG2  . ILE ILE ILE A A 2 2 . 0.4802 0.4033 0.4967 0.0088 0.0412 -
0.0451 1 .

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13	C	C	. ILE ILE ILE A A 2	2	. 0.4824 0.4875 0.5050 -0.0018 0.0094 -
0.0060	1	.			
14	O	O	. ILE ILE ILE A A 2	2	. 0.4757 0.4898 0.5129 -0.0050 0.0252 -
0.0018	1	.			
15	N	N	. GLN GLN GLN A A 3	3	. 0.4843 0.4916 0.5142 0.0030 0.0036 -
0.0097	1	.			
16	CA	CA	. GLN GLN GLN A A 3	3	. 0.4965 0.5070 0.5185 0.0020 0.0036 -
0.0101	1	.			
17	CB	CB	. GLN GLN GLN A A 3	3	. 0.4968 0.4976 0.5199 0.0078 -0.0018
0.0019	1	.			
18	CG	CG	. GLN GLN GLN A A 3	3	. 0.5064 0.5596 0.5392 -0.0018 0.0164 -
0.0063	1	.			
19	CD	CD	. GLN GLN GLN A A 3	3	. 0.5522 0.6229 0.6081 -0.0081 0.0211
0.0039	1	.			
20	OE1	OE1	. GLN GLN GLN A A 3	3	. 0.5690 0.6047 0.6519 -0.0089 0.0150 -
0.0012	1	.			
21	NE2	NE2	. GLN GLN GLN A A 3	3	. 0.5772 0.6906 0.6528 -0.0486 0.0235
0.0051	1	.			
22	C	C	. GLN GLN GLN A A 3	3	. 0.4941 0.4971 0.5229 -0.0012 0.0021 -
0.0111	1	.			
23	O	O	. GLN GLN GLN A A 3	3	. 0.5010 0.5089 0.5334 -0.0095 -0.0060 -
0.0254	1	.			
24	N	N	. LYS LYS LYS A A 4	4	. 0.4971 0.4865 0.5263 0.0004 0.0033 -
0.0116	1	.			
25	CA	CA	. LYS LYS LYS A A 4	4	. 0.4879 0.4883 0.5133 -0.0064 0.0056 -
0.0065	1	.			
26	CB	CB	. LYS LYS LYS A A 4	4	. 0.4967 0.4976 0.5244 -0.0101 0.0012 -
0.0075	1	.			
27	CG	CG	. LYS LYS LYS A A 4	4	. 0.5560 0.5344 0.5827 -0.0235 0.0068
0.0034	1	.			
28	CD	CD	. LYS LYS LYS A A 4	4	. 0.6748 0.6268 0.5892 -0.0599 -0.0140 -
0.0029	1	.			
29	CE	CE	. LYS LYS LYS A A 4	4	. 0.7300 0.6474 0.6348 -0.0688 -0.0240 -
0.0100	1	.			
30	NZ	NZ	. LYS LYS LYS A A 4	4	. 0.7835 0.5672 0.6488 -0.0776 -0.0214
0.0248	1	.			
31	C	C	. LYS LYS LYS A A 4	4	. 0.4646 0.4724 0.4931 -0.0052 0.0036 -
0.0077	1	.			
32	O	O	. LYS LYS LYS A A 4	4	. 0.4448 0.4884 0.4938 -0.0109 -0.0001 -
0.0069	1	.			
33	N	N	. ILE ILE ILE A A 5	5	. 0.4534 0.4495 0.4817 -0.0024 -0.0044 -
0.0067	1	.			
34	CA	CA	. ILE ILE ILE A A 5	5	. 0.4429 0.4378 0.4680 -0.0043 0.0001 -
0.0077	1	.			
35	CB	CB	. ILE ILE ILE A A 5	5	. 0.4358 0.4207 0.4599 -0.0129 0.0005 -
0.0081	1	.			
36	CG1	CG1	. ILE ILE ILE A A 5	5	. 0.3872 0.3932 0.4383 -0.0311 0.0066 -
0.0054	1	.			
37	CD1	CD1	. ILE ILE ILE A A 5	5	. 0.2613 0.3607 0.4372 -0.0405 0.0016 -
0.0316	1	.			
38	CG2	CG2	. ILE ILE ILE A A 5	5	. 0.4393 0.4368 0.4478 -0.0017 0.0191 -
0.0176	1	.			
39	C	C	. ILE ILE ILE A A 5	5	. 0.4506 0.4471 0.4728 -0.0048 0.0010 -
0.0051	1	.			
40	O	O	. ILE ILE ILE A A 5	5	. 0.4546 0.4657 0.4813 -0.0101 0.0006 -
0.0175	1	.			
41	N	N	. TRP TRP TRP A A 6	6	. 0.4539 0.4545 0.4733 -0.0074 -0.0019 -
0.0083	1	.			
42	CA	CA	. TRP TRP TRP A A 6	6	. 0.4626 0.4632 0.4660 -0.0110 0.0105 -
0.0076	1	.			

43	CB	CB	. TRP TRP TRP A A 6 6	. 0.4923 0.4744 0.4950 0.0021 0.0103
0.0087	1	.		
44	CG	CG	. TRP TRP TRP A A 6 6	. 0.6484 0.6093 0.5748 0.0073 0.0232
0.0048	1	.		
45	CD1	CD1	. TRP TRP TRP A A 6 6	. 0.7434 0.5999 0.6534 0.0004 0.0216
0.0336	1	.		
46	NE1	NE1	. TRP TRP TRP A A 6 6	. 0.7828 0.6671 0.7094 0.0212 0.0463
0.0248	1	.		
47	CE2	CE2	. TRP TRP TRP A A 6 6	. 0.8042 0.6925 0.7196 0.0061 0.0360
0.0065	1	.		-
48	CD2	CD2	. TRP TRP TRP A A 6 6	. 0.7847 0.6664 0.6791 0.0238 0.0173
0.0164	1	.		-
49	CE3	CE3	. TRP TRP TRP A A 6 6	. 0.8309 0.7039 0.7143 0.0221 0.0094
0.0078	1	.		-
50	CZ3	CZ3	. TRP TRP TRP A A 6 6	. 0.8339 0.7549 0.7373 0.0456 0.0084
0.0211	1	.		-
51	CH2	CH2	. TRP TRP TRP A A 6 6	. 0.8482 0.7554 0.7674 0.0300 0.0086
0.0103	1	.		
52	CZ2	CZ2	. TRP TRP TRP A A 6 6	. 0.8308 0.7359 0.7548 0.0173 0.0333
0.0151	1	.		-
53	C	C	. TRP TRP TRP A A 6 6	. 0.4329 0.4382 0.4481 -0.0054 0.0150
0.0014	1	.		-
54	O	O	. TRP TRP TRP A A 6 6	. 0.4311 0.4489 0.4719 -0.0326 0.0152
0.0118	1	.		-
55	N	N	. ALA ALA ALA A A 7 7	. 0.3942 0.4030 0.4017 -0.0051 0.0138
0.0020	1	.		
56	CA	CA	. ALA ALA ALA A A 7 7	. 0.3642 0.3758 0.3577 -0.0023 0.0099
0.0070	1	.		
57	CB	CB	. ALA ALA ALA A A 7 7	. 0.3574 0.3758 0.3502 -0.0077 0.0156
0.0001	1	.		
58	C	C	. ALA ALA ALA A A 7 7	. 0.3514 0.3623 0.3549 -0.0070 0.0049
0.0043	1	.		
59	O	O	. ALA ALA ALA A A 7 7	. 0.3408 0.3728 0.3290 -0.0119 0.0080
0.0163	1	.		
60	N	N	. ARG ARG ARG A A 8 8	. 0.3276 0.3614 0.3380 -0.0060 0.0023
0.0026	1	.		
61	CA	CA	. ARG ARG ARG A A 8 8	. 0.3196 0.3447 0.3287 -0.0020 -0.0015
0.0025	1	.		-
62	CB	CB	. ARG ARG ARG A A 8 8	. 0.3080 0.3154 0.3239 0.0036 0.0023
0.0024	1	.		-
63	CG	CG	. ARG ARG ARG A A 8 8	. 0.3518 0.3262 0.3393 0.0060 -0.0065
0.0154	1	.		-
64	CD	CD	. ARG ARG ARG A A 8 8	. 0.2377 0.3173 0.3091 0.0119 -0.0597
0.0282	1	.		-
65	NE	NE	. ARG ARG ARG A A 8 8	. 0.3363 0.3821 0.3735 -0.0216 -0.0181
0.0273	1	.		-
66	CZ	CZ	. ARG ARG ARG A A 8 8	. 0.3398 0.3954 0.3648 -0.0260 -0.0060
0.0368	1	.		-
67	NH1	NH1	. ARG ARG ARG A A 8 8	. 0.2509 0.4038 0.4185 -0.0334 -0.0561
0.0551	1	.		-
68	NH2	NH2	. ARG ARG ARG A A 8 8	. 0.3557 0.3865 0.4384 -0.0255 -0.0213
0.0366	1	.		-
69	C	C	. ARG ARG ARG A A 8 8	. 0.3035 0.3331 0.3222 -0.0014 -0.0102
0.0097	1	.		-
70	O	O	. ARG ARG ARG A A 8 8	. 0.2671 0.3358 0.3248 0.0179 -0.0185
0.0216	1	.		-
71	N	N	. GLU GLU GLU A A 9 9	. 0.2953 0.3179 0.3164 -0.0001 -0.0083
0.0224	1	.		-
72	CA	CA	. GLU GLU GLU A A 9 9	. 0.3376 0.3488 0.3404 0.0049 0.0027
0.0075	1	.		-





103	O	O	. ASP ASP ASP A A 12 12 .	0.1993	0.3413	0.2845	0.0348	-0.0097	
0.0038	1	.							
104	N	N	. SER SER SER A A 13 13 .	0.2621	0.3151	0.2929	0.0125	0.0040	-
0.0026	1	.							
105	CA	CA	. SER SER SER A A 13 13 .	0.3028	0.3300	0.3104	-0.0052	0.0077	-
0.0081	1	.							
106	CB	CB	. SER SER SER A A 13 13 .	0.3168	0.3250	0.3224	0.0068	0.0044	-
0.0084	1	.							
107	OG	OG	. SER SER SER A A 13 13 .	0.3443	0.3907	0.3041	0.0046	0.0159	-
0.0362	1	.							
108	C	C	. SER SER SER A A 13 13 .	0.3275	0.3318	0.3080	-0.0133	0.0039	-
0.0005	1	.							
109	O	O	. SER SER SER A A 13 13 .	0.3534	0.3559	0.3307	-0.0305	0.0090	-
0.0138	1	.							
110	N	N	. ARG ARG ARG A A 14 14 .	0.3067	0.3366	0.3005	-0.0067	0.0019	-
0.0020	1	.							
111	CA	CA	. ARG ARG ARG A A 14 14 .	0.3346	0.3504	0.3552	-0.0182	-0.0070	
0.0047	1	.							
112	CB	CB	. ARG ARG ARG A A 14 14 .	0.3256	0.3545	0.3787	-0.0093	-0.0147	
0.0144	1	.							
113	CG	CG	. ARG ARG ARG A A 14 14 .	0.4146	0.4222	0.4223	-0.0293	-0.0177	
0.0075	1	.							
114	CD	CD	. ARG ARG ARG A A 14 14 .	0.4656	0.4642	0.4428	-0.0282	-0.0289	
0.0036	1	.							
115	NE	NE	. ARG ARG ARG A A 14 14 .	0.4566	0.4551	0.4785	-0.0104	-0.0167	
0.0194	1	.							
116	CZ	CZ	. ARG ARG ARG A A 14 14 .	0.4436	0.4689	0.4759	-0.0110	-0.0071	
0.0129	1	.							
117	NH1	NH1	. ARG ARG ARG A A 14 14 .	0.5211	0.4196	0.4688	-0.0048	0.0273	
0.0126	1	.							
118	NH2	NH2	. ARG ARG ARG A A 14 14 .	0.3449	0.4936	0.5272	-0.0492	0.0222	
0.0092	1	.							
119	C	C	. ARG ARG ARG A A 14 14 .	0.3204	0.3479	0.3638	-0.0152	0.0107	
0.0007	1	.							
120	O	O	. ARG ARG ARG A A 14 14 .	0.2600	0.3357	0.4114	-0.0175	0.0130	
0.0028	1	.							
121	N	N	. GLY GLY GLY A A 15 15 .	0.2920	0.3534	0.3636	-0.0215	0.0069	-
0.0042	1	.							
122	CA	CA	. GLY GLY GLY A A 15 15 .	0.2987	0.3614	0.3766	-0.0146	0.0112	-
0.0059	1	.							
123	C	C	. GLY GLY GLY A A 15 15 .	0.3222	0.3690	0.3774	-0.0204	0.0116	-
0.0076	1	.							
124	O	O	. GLY GLY GLY A A 15 15 .	0.3462	0.3876	0.4066	-0.0144	0.0162	-
0.0222	1	.							
125	N	N	. ASN ASN ASN A A 16 16 .	0.3067	0.3660	0.3691	-0.0184	0.0049	
0.0007	1	.							
126	CA	CA	. ASN ASN ASN A A 16 16 .	0.3120	0.3616	0.3579	-0.0114	-0.0002	-
0.0046	1	.							
127	CB	CB	. ASN ASN ASN A A 16 16 .	0.3214	0.3785	0.3535	-0.0213	-0.0068	
0.0122	1	.							
128	CG	CG	. ASN ASN ASN A A 16 16 .	0.3498	0.4167	0.3926	-0.0173	0.0104	
0.0000	1	.							
129	OD1	OD1	. ASN ASN ASN A A 16 16 .	0.4187	0.4233	0.3877	-0.0242	0.0698	
0.0266	1	.							
130	ND2	ND2	. ASN ASN ASN A A 16 16 .	0.3498	0.4369	0.4432	-0.0346	0.0018	-
0.0363	1	.							
131	C	C	. ASN ASN ASN A A 16 16 .	0.3084	0.3416	0.3311	-0.0150	-0.0058	-
0.0103	1	.							
132	O	O	. ASN ASN ASN A A 16 16 .	0.2816	0.3489	0.3157	-0.0040	-0.0185	-
0.0328	1	.							





193	OH	OH	. TYR TYR TYR A A 24 24	. 0.4315 0.5909 0.5061 -0.0260 -0.0721
0.0791	1	.		
194	CE2	CE2	. TYR TYR TYR A A 24 24	. 0.4473 0.5179 0.5205 -0.0374 -0.0368
0.0434	1	.		
195	CD2	CD2	. TYR TYR TYR A A 24 24	. 0.4371 0.4911 0.5099 -0.0050 -0.0477
0.0289	1	.		
196	C	C	. TYR TYR TYR A A 24 24	. 0.3976 0.4473 0.4537 -0.0037 -0.0086
0.0034	1	.		
197	O	O	. TYR TYR TYR A A 24 24	. 0.4000 0.4666 0.4778 0.0093 -0.0155
0.0126	1	.		
198	N	N	. THR THR THR A A 25 25	. 0.4103 0.4607 0.4685 0.0033 -0.0013
0.0029	1	.		
199	CA	CA	. THR THR THR A A 25 25	. 0.4160 0.4748 0.4815 -0.0046 -0.0038
0.0107	1	.		
200	CB	CB	. THR THR THR A A 25 25	. 0.3978 0.4545 0.4712 -0.0022 -0.0011 -
0.0006	1	.		
201	OG1	OG1	. THR THR THR A A 25 25	. 0.2821 0.4657 0.4614 -0.0089 -0.0050
0.0071	1	.		
202	CG2	CG2	. THR THR THR A A 25 25	. 0.4101 0.4251 0.5013 -0.0101 -0.0175
0.0012	1	.		
203	C	C	. THR THR THR A A 25 25	. 0.4373 0.5000 0.5041 -0.0005 0.0020
0.0132	1	.		
204	O	O	. THR THR THR A A 25 25	. 0.4200 0.5166 0.4972 -0.0079 -0.0037
0.0190	1	.		
205	N	N	. ALA ALA ALA A A 26 26	. 0.4791 0.5262 0.5365 -0.0009 0.0036
0.0165	1	.		
206	CA	CA	. ALA ALA ALA A A 26 26	. 0.5015 0.5380 0.5580 0.0006 0.0077
0.0152	1	.		
207	CB	CB	. ALA ALA ALA A A 26 26	. 0.5000 0.5350 0.5628 -0.0069 0.0131
0.0126	1	.		
208	C	C	. ALA ALA ALA A A 26 26	. 0.5187 0.5427 0.5601 0.0009 0.0057
0.0217	1	.		
209	O	O	. ALA ALA ALA A A 26 26	. 0.5076 0.5691 0.5654 -0.0072 0.0013
0.0363	1	.		
210	N	N	. LYS LYS LYS A A 27 27	. 0.5230 0.5488 0.5547 -0.0048 0.0050
0.0165	1	.		
211	CA	CA	. LYS LYS LYS A A 27 27	. 0.5415 0.5472 0.5617 0.0037 0.0072
0.0090	1	.		
212	CB	CB	. LYS LYS LYS A A 27 27	. 0.5609 0.5542 0.5775 0.0051 0.0050
0.0073	1	.		
213	CG	CG	. LYS LYS LYS A A 27 27	. 0.5939 0.6047 0.6107 0.0019 0.0301
0.0108	1	.		
214	CD	CD	. LYS LYS LYS A A 27 27	. 0.6550 0.6978 0.6982 0.0237 0.0575
0.0203	1	.		
215	CE	CE	. LYS LYS LYS A A 27 27	. 0.6966 0.7729 0.6915 0.0369 0.0538
0.0134	1	.		
216	NZ	NZ	. LYS LYS LYS A A 27 27	. 0.6863 0.8149 0.7493 0.0426 0.0616
0.0086	1	.		
217	C	C	. LYS LYS LYS A A 27 27	. 0.5364 0.5357 0.5672 0.0017 0.0077
0.0090	1	.		
218	O	O	. LYS LYS LYS A A 27 27	. 0.5441 0.5557 0.5844 0.0003 0.0078
0.0150	1	.		
219	N	N	. GLY GLY GLY A A 28 28	. 0.5216 0.5387 0.5496 -0.0029 0.0143
0.0171	1	.		
220	CA	CA	. GLY GLY GLY A A 28 28	. 0.4936 0.5181 0.5298 -0.0023 0.0084
0.0131	1	.		
221	C	C	. GLY GLY GLY A A 28 28	. 0.4807 0.5075 0.5094 -0.0031 0.0193
0.0123	1	.		
222	O	O	. GLY GLY GLY A A 28 28	. 0.4435 0.5106 0.4933 -0.0150 0.0223
0.0199	1	.		

223	N	N	. LEU LEU LEU A A 29 29	. 0.4708 0.4862 0.5031 0.0015 0.0177
0.0125	1	.		
224	CA	CA	. LEU LEU LEU A A 29 29	. 0.4755 0.4766 0.4836 0.0030 0.0153
0.0122	1	.		
225	CB	CB	. LEU LEU LEU A A 29 29	. 0.4870 0.4835 0.4918 0.0059 0.0198
0.0220	1	.		
226	CG	CG	. LEU LEU LEU A A 29 29	. 0.5179 0.5391 0.4965 -0.0040 0.0186
0.0385	1	.		
227	CD1	CD1	. LEU LEU LEU A A 29 29	. 0.5977 0.5838 0.5566 0.0132 0.0195
0.0890	1	.		
228	CD2	CD2	. LEU LEU LEU A A 29 29	. 0.5151 0.5640 0.4896 0.0078 0.0112
0.0891	1	.		
229	C	C	. LEU LEU LEU A A 29 29	. 0.4420 0.4504 0.4621 0.0073 0.0142
0.0081	1	.		
230	O	O	. LEU LEU LEU A A 29 29	. 0.4531 0.4492 0.4820 0.0141 0.0034
0.0051	1	.		
231	N	N	. PHE PHE PHE A A 30 30	. 0.4176 0.4106 0.4159 0.0149 0.0212
0.0083	1	.		
232	CA	CA	. PHE PHE PHE A A 30 30	. 0.3848 0.3774 0.4040 0.0011 0.0198 -
0.0026	1	.		
233	CB	CB	. PHE PHE PHE A A 30 30	. 0.3709 0.3744 0.3823 0.0106 0.0089 -
0.0080	1	.		
234	CG	CG	. PHE PHE PHE A A 30 30	. 0.4081 0.3947 0.4113 -0.0044 0.0149
0.0089	1	.		
235	CD1	CD1	. PHE PHE PHE A A 30 30	. 0.3978 0.3812 0.4148 0.0051 0.0386
0.0011	1	.		
236	CE1	CE1	. PHE PHE PHE A A 30 30	. 0.4179 0.3894 0.4609 -0.0233 0.0294
0.0046	1	.		
237	CZ	CZ	. PHE PHE PHE A A 30 30	. 0.3620 0.4304 0.4406 -0.0084 0.0083 -
0.0146	1	.		
238	CE2	CE2	. PHE PHE PHE A A 30 30	. 0.4015 0.4075 0.4556 -0.0054 0.0151
0.0204	1	.		
239	CD2	CD2	. PHE PHE PHE A A 30 30	. 0.3786 0.3920 0.4123 -0.0101 0.0203
0.0335	1	.		
240	C	C	. PHE PHE PHE A A 30 30	. 0.3841 0.3676 0.3951 0.0013 0.0202 -
0.0030	1	.		
241	O	O	. PHE PHE PHE A A 30 30	. 0.3863 0.3518 0.4168 0.0122 0.0196
0.0071	1	.		
242	N	N	. ARG ARG ARG A A 31 31	. 0.3491 0.3518 0.3587 -0.0087 0.0210
0.0020	1	.		
243	CA	CA	. ARG ARG ARG A A 31 31	. 0.3089 0.3401 0.3390 -0.0021 0.0134 -
0.0007	1	.		
244	CB	CB	. ARG ARG ARG A A 31 31	. 0.3193 0.3404 0.3569 0.0071 0.0220
0.0175	1	.		
245	CG	CG	. ARG ARG ARG A A 31 31	. 0.3386 0.3688 0.3735 0.0102 0.0152
0.0356	1	.		
246	CD	CD	. ARG ARG ARG A A 31 31	. 0.3510 0.3519 0.4033 0.0331 0.0037
0.0289	1	.		
247	NE	NE	. ARG ARG ARG A A 31 31	. 0.4464 0.3749 0.4512 0.0207 -0.0081
0.0358	1	.		
248	CZ	CZ	. ARG ARG ARG A A 31 31	. 0.4117 0.4583 0.5090 0.0120 0.0041
0.0121	1	.		
249	NH1	NH1	. ARG ARG ARG A A 31 31	. 0.4060 0.4955 0.5757 0.0633 0.0774
0.0578	1	.		
250	NH2	NH2	. ARG ARG ARG A A 31 31	. 0.3986 0.4852 0.5124 -0.0201 -0.0024
0.0145	1	.		
251	C	C	. ARG ARG ARG A A 31 31	. 0.2967 0.3276 0.3265 0.0007 0.0186 -
0.0031	1	.		
252	O	O	. ARG ARG ARG A A 31 31	. 0.2399 0.3040 0.3259 0.0020 0.0280 -
0.0118	1	.		

253	N	N	. ALA ALA ALA A A 32 32	. 0.2849 0.2985 0.3139 0.0101 0.0031
0.0095	1	.		
254	CA	CA	. ALA ALA ALA A A 32 32	. 0.2879 0.2850 0.2941 -0.0045 0.0104
0.0100	1	.		
255	CB	CB	. ALA ALA ALA A A 32 32	. 0.3068 0.2924 0.3160 -0.0151 0.0105
0.0154	1	.		
256	C	C	. ALA ALA ALA A A 32 32	. 0.2962 0.2909 0.2883 -0.0047 0.0152
0.0026	1	.		
257	O	O	. ALA ALA ALA A A 32 32	. 0.3213 0.3094 0.3167 -0.0158 0.0409
0.0080	1	.		
258	N	N	. ALA ALA ALA A A 33 33	. 0.2888 0.2852 0.2812 0.0011 0.0220 -
0.0013	1	.		
259	CA	CA	. ALA ALA ALA A A 33 33	. 0.2671 0.2973 0.2846 0.0087 0.0083
0.0040	1	.		
260	CB	CB	. ALA ALA ALA A A 33 33	. 0.2463 0.2988 0.2915 0.0100 0.0120 -
0.0049	1	.		
261	C	C	. ALA ALA ALA A A 33 33	. 0.2984 0.3078 0.2872 0.0179 0.0073 -
0.0009	1	.		
262	O	O	. ALA ALA ALA A A 33 33	. 0.3315 0.3057 0.3002 0.0330 0.0246 -
0.0118	1	.		
263	N	N	. VAL VAL VAL A A 34 34	. 0.2790 0.3206 0.2951 0.0141 0.0018 -
0.0087	1	.		
264	CA	CA	. VAL VAL VAL A A 34 34	. 0.3018 0.3182 0.3135 -0.0023 0.0046 -
0.0034	1	.		
265	CB	CB	. VAL VAL VAL A A 34 34	. 0.3039 0.3094 0.3099 -0.0001 0.0000 -
0.0059	1	.		
266	CG1	CG1	. VAL VAL VAL A A 34 34	. 0.3243 0.3213 0.2989 -0.0059 -0.0051 -
0.0261	1	.		
267	CG2	CG2	. VAL VAL VAL A A 34 34	. 0.3115 0.3387 0.2849 -0.0054 0.0114 -
0.0035	1	.		
268	C	C	. VAL VAL VAL A A 34 34	. 0.2743 0.3174 0.3150 -0.0078 0.0091 -
0.0076	1	.		
269	O	O	. VAL VAL VAL A A 34 34	. 0.2589 0.3211 0.3171 -0.0138 0.0102 -
0.0006	1	.		
270	N	N	. PRO PRO PRO A A 35 35	. 0.2705 0.3117 0.3123 -0.0058 0.0073 -
0.0100	1	.		
271	CA	CA	. PRO PRO PRO A A 35 35	. 0.2653 0.3067 0.3176 -0.0116 0.0178 -
0.0112	1	.		
272	CB	CB	. PRO PRO PRO A A 35 35	. 0.2574 0.2925 0.3162 -0.0177 0.0103 -
0.0176	1	.		
273	CG	CG	. PRO PRO PRO A A 35 35	. 0.2329 0.2671 0.3287 0.0070 0.0279 -
0.0233	1	.		
274	CD	CD	. PRO PRO PRO A A 35 35	. 0.2753 0.3103 0.3274 -0.0048 0.0087 -
0.0101	1	.		
275	C	C	. PRO PRO PRO A A 35 35	. 0.2845 0.3090 0.3302 -0.0047 0.0232 -
0.0137	1	.		
276	O	O	. PRO PRO PRO A A 35 35	. 0.2907 0.3461 0.3020 -0.0140 0.0516 -
0.0191	1	.		
277	N	N	. SER SER SER A A 36 36	. 0.2914 0.3297 0.3363 -0.0028 0.0202 -
0.0148	1	.		
278	CA	CA	. SER SER SER A A 36 36	. 0.2936 0.3323 0.3387 0.0005 0.0060 -
0.0151	1	.		
279	CB	CB	. SER SER SER A A 36 36	. 0.2937 0.3359 0.3544 -0.0005 0.0041 -
0.0050	1	.		
280	OG	OG	. SER SER SER A A 36 36	. 0.3436 0.3824 0.4052 0.0276 0.0332 -
0.0385	1	.		
281	C	C	. SER SER SER A A 36 36	. 0.3098 0.3405 0.3359 -0.0049 -0.0054 -
0.0057	1	.		
282	O	O	. SER SER SER A A 36 36	. 0.2841 0.3503 0.3201 -0.0170 -0.0060 -
0.0143	1	.		

283	N	N	. GLY GLY GLY A A 37 37 .	0.3470	0.3727	0.3632	-0.0113	-0.0086	-
0.0052	1	.							
284	CA	CA	. GLY GLY GLY A A 37 37 .	0.3508	0.3773	0.3595	-0.0032	-0.0171	-
0.0119	1	.							
285	C	C	. GLY GLY GLY A A 37 37 .	0.3714	0.3914	0.3766	0.0038	-0.0161	-
0.0094	1	.							
286	O	O	. GLY GLY GLY A A 37 37 .	0.3887	0.4139	0.3536	0.0021	-0.0326	-
0.0224	1	.							
287	N	N	. ALA ALA ALA A A 38 38 .	0.3879	0.3833	0.3946	0.0067	-0.0135	-
0.0055	1	.							
288	CA	CA	. ALA ALA ALA A A 38 38 .	0.3836	0.3929	0.4083	0.0138	-0.0028	-
0.0026	1	.							
289	CB	CB	. ALA ALA ALA A A 38 38 .	0.3896	0.4122	0.4240	0.0127	0.0046	-
0.0097	1	.							
290	C	C	. ALA ALA ALA A A 38 38 .	0.3925	0.4104	0.4201	0.0131	-0.0020	-
0.0173	1	.							
291	O	O	. ALA ALA ALA A A 38 38 .	0.3718	0.3975	0.4255	0.0299	0.0123	-
0.0406	1	.							
292	N	N	. SER SER SER A A 39 39 .	0.3910	0.4142	0.4127	0.0074	-0.0032	-
0.0153	1	.							
293	CA	CA	. SER SER SER A A 39 39 .	0.3841	0.4108	0.3942	0.0066	-0.0065	-
0.0042	1	.							
294	CB	CB	. SER SER SER A A 39 39 .	0.3709	0.4070	0.4087	-0.0014	-0.0008	-
0.0066	1	.							
295	OG	OG	. SER SER SER A A 39 39 .	0.3566	0.4078	0.3945	0.0331	0.0128	-
0.0159	1	.							
296	C	C	. SER SER SER A A 39 39 .	0.3784	0.4150	0.4005	0.0050	-0.0210	-
0.0058	1	.							
297	O	O	. SER SER SER A A 39 39 .	0.3311	0.4132	0.3735	-0.0035	-0.0240	-
0.0020	1	.							
298	N	N	. THR THR THR A A 40 40 .	0.3913	0.4175	0.4127	0.0216	-0.0238	-
0.0010	1	.							
299	CA	CA	. THR THR THR A A 40 40 .	0.4028	0.4295	0.4224	0.0269	-0.0097	-
0.0045	1	.							
300	CB	CB	. THR THR THR A A 40 40 .	0.4054	0.4397	0.4345	0.0252	-0.0050	-
0.0080	1	.							
301	OG1	OG1	. THR THR THR A A 40 40 .	0.4213	0.4623	0.4551	0.0276	0.0236	-
0.0059	1	.							
302	CG2	CG2	. THR THR THR A A 40 40 .	0.4251	0.4103	0.3749	0.0550	-0.0079	-
0.0274	1	.							
303	C	C	. THR THR THR A A 40 40 .	0.4325	0.4377	0.4403	0.0254	-0.0034	-
0.0040	1	.							
304	O	O	. THR THR THR A A 40 40 .	0.3776	0.4292	0.4413	0.0528	0.0034	-
0.0156	1	.							
305	N	N	. GLY GLY GLY A A 41 41 .	0.4350	0.4354	0.4325	0.0244	0.0048	-
0.0015	1	.							
306	CA	CA	. GLY GLY GLY A A 41 41 .	0.4606	0.4411	0.4491	0.0204	-0.0183	-
0.0093	1	.							
307	C	C	. GLY GLY GLY A A 41 41 .	0.4533	0.4468	0.4601	0.0164	-0.0233	-
0.0067	1	.							
308	O	O	. GLY GLY GLY A A 41 41 .	0.4320	0.4227	0.4594	0.0129	-0.0456	-
0.0083	1	.							
309	N	N	. ILE ILE ILE A A 42 42 .	0.4284	0.4579	0.4588	0.0140	-0.0202	-
0.0080	1	.							
310	CA	CA	. ILE ILE ILE A A 42 42 .	0.4261	0.4469	0.4645	0.0081	-0.0165	-
0.0016	1	.							
311	CB	CB	. ILE ILE ILE A A 42 42 .	0.4194	0.4608	0.4649	0.0081	-0.0245	-
0.0015	1	.							
312	CG1	CG1	. ILE ILE ILE A A 42 42 .	0.3985	0.4589	0.4706	0.0253	-0.0191	-
0.0149	1	.							





343	N	N	. LEU LEU LEU A A 46 46 .	0.3298	0.3709	0.3931	0.0027	-0.0009	-
0.0021	1	.							
344	CA	CA	. LEU LEU LEU A A 46 46 .	0.3689	0.4084	0.4072	0.0008	-0.0091	
0.0005	1	.							
345	CB	CB	. LEU LEU LEU A A 46 46 .	0.3948	0.4127	0.4292	-0.0068	0.0083	
0.0060	1	.							
346	CG	CG	. LEU LEU LEU A A 46 46 .	0.4143	0.4571	0.4340	-0.0356	-0.0045	
0.0158	1	.							
347	CD1	CD1	. LEU LEU LEU A A 46 46 .	0.3386	0.4007	0.4638	-0.0757	-0.0427	
0.0270	1	.							
348	CD2	CD2	. LEU LEU LEU A A 46 46 .	0.3540	0.4894	0.5152	-0.0428	0.0242	
0.0489	1	.							
349	C	C	. LEU LEU LEU A A 46 46 .	0.3830	0.4137	0.4069	0.0007	-0.0109	
0.0070	1	.							
350	O	O	. LEU LEU LEU A A 46 46 .	0.3447	0.4369	0.3871	0.0031	-0.0416	-
0.0092	1	.							
351	N	N	. GLU GLU GLU A A 47 47 .	0.3955	0.4009	0.4108	0.0017	-0.0138	
0.0041	1	.							
352	CA	CA	. GLU GLU GLU A A 47 47 .	0.4020	0.3978	0.4005	-0.0007	-0.0100	-
0.0038	1	.							
353	CB	CB	. GLU GLU GLU A A 47 47 .	0.3988	0.3843	0.4089	-0.0032	-0.0016	
0.0118	1	.							
354	CG	CG	. GLU GLU GLU A A 47 47 .	0.3855	0.4012	0.4162	-0.0216	-0.0091	-
0.0164	1	.							
355	CD	CD	. GLU GLU GLU A A 47 47 .	0.4045	0.4306	0.4702	-0.0161	0.0206	
0.0041	1	.							
356	OE1	OE1	. GLU GLU GLU A A 47 47 .	0.3037	0.4439	0.4556	-0.0243	-0.0324	-
0.0331	1	.							
357	OE2	OE2	. GLU GLU GLU A A 47 47 .	0.3566	0.4396	0.4778	-0.0412	0.0347	
0.0097	1	.							
358	C	C	. GLU GLU GLU A A 47 47 .	0.3963	0.3907	0.3988	0.0050	-0.0014	-
0.0003	1	.							
359	O	O	. GLU GLU GLU A A 47 47 .	0.3742	0.3858	0.3824	0.0109	0.0274	
0.0000	1	.							
360	N	N	. LEU LEU LEU A A 48 48 .	0.3857	0.3772	0.3824	0.0058	-0.0209	-
0.0109	1	.							
361	CA	CA	. LEU LEU LEU A A 48 48 .	0.3785	0.3726	0.3950	0.0096	-0.0038	-
0.0101	1	.							
362	CB	CB	. LEU LEU LEU A A 48 48 .	0.3716	0.3837	0.4158	-0.0007	-0.0063	-
0.0186	1	.							
363	CG	CG	. LEU LEU LEU A A 48 48 .	0.3715	0.4034	0.4360	-0.0038	0.0017	-
0.0329	1	.							
364	CD1	CD1	. LEU LEU LEU A A 48 48 .	0.4076	0.4139	0.4734	0.0198	-0.0559	-
0.0156	1	.							
365	CD2	CD2	. LEU LEU LEU A A 48 48 .	0.3415	0.4144	0.3974	-0.0069	-0.0083	-
0.0332	1	.							
366	C	C	. LEU LEU LEU A A 48 48 .	0.3762	0.3684	0.3864	0.0092	-0.0005	-
0.0124	1	.							
367	O	O	. LEU LEU LEU A A 48 48 .	0.3229	0.3153	0.3460	0.0199	0.0075	-
0.0190	1	.							
368	N	N	. ARG ARG ARG A A 49 49 .	0.3796	0.3752	0.4035	0.0187	0.0060	-
0.0082	1	.							
369	CA	CA	. ARG ARG ARG A A 49 49 .	0.4183	0.4074	0.4216	0.0170	0.0057	-
0.0023	1	.							
370	CB	CB	. ARG ARG ARG A A 49 49 .	0.4350	0.4153	0.4343	0.0092	0.0051	-
0.0115	1	.							
371	CG	CG	. ARG ARG ARG A A 49 49 .	0.4801	0.4220	0.4305	0.0281	0.0236	-
0.0134	1	.							
372	CD	CD	. ARG ARG ARG A A 49 49 .	0.4926	0.4369	0.4302	0.0323	0.0091	-
0.0008	1	.							

373	NE	NE	. ARG ARG ARG A A 49 49 .	0.5296	0.4548	0.4129	0.0536	0.0186	
0.0115	1	.							
374	CZ	CZ	. ARG ARG ARG A A 49 49 .	0.4508	0.4116	0.3736	0.0384	-0.0016	
0.0020	1	.							
375	NH1	NH1	. ARG ARG ARG A A 49 49 .	0.2811	0.3834	0.3783	0.0464	-0.0676	-
0.0435	1	.							
376	NH2	NH2	. ARG ARG ARG A A 49 49 .	0.4328	0.4114	0.3543	0.0145	0.0130	-
0.0029	1	.							
377	C	C	. ARG ARG ARG A A 49 49 .	0.4337	0.4208	0.4268	0.0135	-0.0037	
0.0002	1	.							
378	O	O	. ARG ARG ARG A A 49 49 .	0.4332	0.4425	0.4300	0.0276	-0.0151	
0.0035	1	.							
379	N	N	. ASP ASP ASP A A 50 50 .	0.4399	0.4386	0.4313	0.0116	0.0025	
0.0103	1	.							
380	CA	CA	. ASP ASP ASP A A 50 50 .	0.4372	0.4396	0.4225	0.0159	0.0043	
0.0079	1	.							
381	CB	CB	. ASP ASP ASP A A 50 50 .	0.3972	0.4226	0.3951	0.0194	0.0063	
0.0142	1	.							
382	CG	CG	. ASP ASP ASP A A 50 50 .	0.3891	0.4206	0.3794	0.0275	-0.0007	
0.0442	1	.							
383	OD1	OD1	. ASP ASP ASP A A 50 50 .	0.2475	0.3914	0.3259	0.0524	0.0251	
0.0384	1	.							
384	OD2	OD2	. ASP ASP ASP A A 50 50 .	0.2447	0.3955	0.4453	0.0702	-0.0278	
0.0251	1	.							
385	C	C	. ASP ASP ASP A A 50 50 .	0.4631	0.4591	0.4354	0.0182	0.0065	
0.0074	1	.							
386	O	O	. ASP ASP ASP A A 50 50 .	0.5000	0.4564	0.4249	0.0300	-0.0006	
0.0061	1	.							
387	N	N	. GLY GLY GLY A A 51 51 .	0.4762	0.4656	0.4553	0.0118	0.0072	
0.0080	1	.							
388	CA	CA	. GLY GLY GLY A A 51 51 .	0.5000	0.4977	0.4877	0.0161	0.0121	
0.0085	1	.							
389	C	C	. GLY GLY GLY A A 51 51 .	0.5104	0.5099	0.5164	0.0156	0.0150	
0.0070	1	.							
390	O	O	. GLY GLY GLY A A 51 51 .	0.5304	0.5275	0.5347	0.0224	0.0194	
0.0117	1	.							
391	N	N	. ASP ASP ASP A A 52 52 .	0.5105	0.5093	0.5215	0.0118	-0.0021	
0.0077	1	.							
392	CA	CA	. ASP ASP ASP A A 52 52 .	0.5260	0.5260	0.5432	0.0117	0.0061	
0.0071	1	.							
393	CB	CB	. ASP ASP ASP A A 52 52 .	0.5315	0.5197	0.5288	0.0152	-0.0131	
0.0027	1	.							
394	CG	CG	. ASP ASP ASP A A 52 52 .	0.5446	0.5598	0.5573	0.0159	-0.0064	
0.0240	1	.							
395	OD1	OD1	. ASP ASP ASP A A 52 52 .	0.5723	0.5119	0.5443	0.0100	-0.0662	
0.0082	1	.							
396	OD2	OD2	. ASP ASP ASP A A 52 52 .	0.5511	0.5816	0.5617	0.0597	0.0261	
0.0535	1	.							
397	C	C	. ASP ASP ASP A A 52 52 .	0.5339	0.5419	0.5649	0.0127	0.0102	
0.0131	1	.							
398	O	O	. ASP ASP ASP A A 52 52 .	0.5315	0.5421	0.5681	0.0212	0.0152	
0.0137	1	.							
399	N	N	. LYS LYS LYS A A 53 53 .	0.5471	0.5591	0.5878	0.0219	0.0206	
0.0153	1	.							
400	CA	CA	. LYS LYS LYS A A 53 53 .	0.5578	0.5758	0.6085	0.0118	0.0186	
0.0146	1	.							
401	CB	CB	. LYS LYS LYS A A 53 53 .	0.5618	0.5770	0.6228	0.0108	0.0110	
0.0192	1	.							
402	CG	CG	. LYS LYS LYS A A 53 53 .	0.5900	0.6294	0.6464	-0.0014	-0.0036	
0.0262	1	.							



433	CE1	CE1	. TYR TYR TYR A A 56 56	. 0.3148 0.3564 0.3305 0.0445 0.0134
0.0028	1	.		
434	CZ	CZ	. TYR TYR TYR A A 56 56	. 0.3000 0.3451 0.3035 0.0385 -0.0007 -
0.0114	1	.		
435	OH	OH	. TYR TYR TYR A A 56 56	. 0.3195 0.3524 0.2784 0.1307 0.0828
0.0673	1	.		
436	CE2	CE2	. TYR TYR TYR A A 56 56	. 0.3059 0.3452 0.3361 0.0221 0.0306 -
0.0222	1	.		
437	CD2	CD2	. TYR TYR TYR A A 56 56	. 0.4030 0.3815 0.3366 0.0194 -0.0173
0.0200	1	.		
438	C	C	. TYR TYR TYR A A 56 56	. 0.4275 0.4505 0.4422 0.0091 0.0065 -
0.0015	1	.		
439	O	O	. TYR TYR TYR A A 56 56	. 0.4145 0.4533 0.4443 0.0164 0.0200 -
0.0100	1	.		
440	N	N	. LEU LEU LEU A A 57 57	. 0.4521 0.4714 0.4603 0.0082 0.0065 -
0.0020	1	.		
441	CA	CA	. LEU LEU LEU A A 57 57	. 0.4620 0.4904 0.4940 0.0060 0.0128 -
0.0050	1	.		
442	CB	CB	. LEU LEU LEU A A 57 57	. 0.4629 0.5076 0.5197 0.0055 0.0129 -
0.0062	1	.		
443	CG	CG	. LEU LEU LEU A A 57 57	. 0.5110 0.5356 0.6107 0.0097 0.0204
0.0192	1	.		
444	CD1	CD1	. LEU LEU LEU A A 57 57	. 0.5231 0.5687 0.7241 0.0385 0.0410
0.0014	1	.		
445	CD2	CD2	. LEU LEU LEU A A 57 57	. 0.5165 0.5833 0.7052 0.0193 0.0411
0.0046	1	.		
446	C	C	. LEU LEU LEU A A 57 57	. 0.4654 0.4941 0.4830 0.0083 0.0057 -
0.0090	1	.		
447	O	O	. LEU LEU LEU A A 57 57	. 0.4753 0.5276 0.5104 0.0086 -0.0044 -
0.0188	1	.		
448	N	N	. GLY GLY GLY A A 58 58	. 0.4680 0.4923 0.4735 0.0027 0.0159 -
0.0034	1	.		
449	CA	CA	. GLY GLY GLY A A 58 58	. 0.4477 0.4704 0.4746 0.0070 0.0147
0.0058	1	.		
450	C	C	. GLY GLY GLY A A 58 58	. 0.4548 0.4609 0.4629 -0.0040 0.0068
0.0079	1	.		
451	O	O	. GLY GLY GLY A A 58 58	. 0.4411 0.4565 0.4786 -0.0125 0.0060
0.0128	1	.		
452	N	N	. LYS LYS LYS A A 59 59	. 0.4178 0.4450 0.4524 0.0029 0.0016
0.0065	1	.		
453	CA	CA	. LYS LYS LYS A A 59 59	. 0.4158 0.4438 0.4515 0.0023 -0.0081
0.0050	1	.		
454	CB	CB	. LYS LYS LYS A A 59 59	. 0.4279 0.4509 0.4545 0.0013 -0.0135
0.0089	1	.		
455	CG	CG	. LYS LYS LYS A A 59 59	. 0.4656 0.5089 0.5095 -0.0034 -0.0066 -
0.0002	1	.		
456	CD	CD	. LYS LYS LYS A A 59 59	. 0.5608 0.5820 0.5898 -0.0211 -0.0244 -
0.0385	1	.		
457	CE	CE	. LYS LYS LYS A A 59 59	. 0.5855 0.6648 0.7026 -0.0085 -0.0062 -
0.0445	1	.		
458	NZ	NZ	. LYS LYS LYS A A 59 59	. 0.5802 0.7021 0.7764 0.0132 0.0011 -
0.0385	1	.		
459	C	C	. LYS LYS LYS A A 59 59	. 0.4037 0.4329 0.4332 0.0020 -0.0079 -
0.0013	1	.		
460	O	O	. LYS LYS LYS A A 59 59	. 0.4187 0.4657 0.4458 0.0036 -0.0186
0.0001	1	.		
461	N	N	. GLY GLY GLY A A 60 60	. 0.3704 0.4070 0.4045 0.0016 -0.0093 -
0.0054	1	.		
462	CA	CA	. GLY GLY GLY A A 60 60	. 0.3482 0.3835 0.3700 0.0030 -0.0120 -
0.0057	1	.		

463	C	C	. GLY GLY GLY A A 60 60 .	0.3192	0.3704	0.3617	0.0034	-0.0077	-
0.0125	1	.							
464	O	O	. GLY GLY GLY A A 60 60 .	0.2992	0.3826	0.3292	0.0104	-0.0328	-
0.0265	1	.							
465	N	N	. VAL VAL VAL A A 61 61 .	0.2993	0.3440	0.3464	0.0064	-0.0101	-
0.0210	1	.							
466	CA	CA	. VAL VAL VAL A A 61 61 .	0.2743	0.3366	0.3230	0.0022	-0.0041	-
0.0183	1	.							
467	CB	CB	. VAL VAL VAL A A 61 61 .	0.2712	0.3490	0.3129	0.0056	-0.0164	-
0.0189	1	.							
468	CG1	CG1	. VAL VAL VAL A A 61 61 .	0.3340	0.3108	0.3488	-0.0435	0.0225	
0.0083	1	.							
469	CG2	CG2	. VAL VAL VAL A A 61 61 .	0.3258	0.2841	0.2871	0.0353	0.0174	-
0.0303	1	.							
470	C	C	. VAL VAL VAL A A 61 61 .	0.3128	0.3402	0.3300	-0.0085	0.0086	-
0.0197	1	.							
471	O	O	. VAL VAL VAL A A 61 61 .	0.2812	0.3328	0.2945	-0.0299	0.0009	-
0.0432	1	.							
472	N	N	. LEU LEU LEU A A 62 62 .	0.3119	0.3456	0.3314	-0.0126	0.0072	-
0.0194	1	.							
473	CA	CA	. LEU LEU LEU A A 62 62 .	0.3435	0.3656	0.3415	-0.0035	0.0048	-
0.0055	1	.							
474	CB	CB	. LEU LEU LEU A A 62 62 .	0.3303	0.3814	0.3449	0.0111	0.0070	
0.0047	1	.							
475	CG	CG	. LEU LEU LEU A A 62 62 .	0.3596	0.3870	0.3604	0.0131	0.0107	
0.0132	1	.							
476	CD1	CD1	. LEU LEU LEU A A 62 62 .	0.4331	0.4589	0.3854	-0.0010	0.0423	
0.0252	1	.							
477	CD2	CD2	. LEU LEU LEU A A 62 62 .	0.3222	0.3214	0.4341	0.0113	-0.0152	
0.0560	1	.							
478	C	C	. LEU LEU LEU A A 62 62 .	0.3350	0.3539	0.3500	0.0007	0.0066	-
0.0038	1	.							
479	O	O	. LEU LEU LEU A A 62 62 .	0.2916	0.3426	0.3670	-0.0138	-0.0085	-
0.0257	1	.							
480	N	N	. LYS LYS LYS A A 63 63 .	0.3201	0.3499	0.3157	-0.0007	-0.0083	-
0.0085	1	.							
481	CA	CA	. LYS LYS LYS A A 63 63 .	0.3371	0.3488	0.3418	0.0074	0.0035	
0.0004	1	.							
482	CB	CB	. LYS LYS LYS A A 63 63 .	0.3227	0.3491	0.3504	0.0107	0.0034	-
0.0024	1	.							
483	CG	CG	. LYS LYS LYS A A 63 63 .	0.3645	0.3668	0.3670	0.0185	0.0135	-
0.0009	1	.							
484	CD	CD	. LYS LYS LYS A A 63 63 .	0.3315	0.4179	0.3778	0.0308	-0.0019	-
0.0094	1	.							
485	CE	CE	. LYS LYS LYS A A 63 63 .	0.4021	0.4502	0.4150	0.0450	-0.0198	-
0.0412	1	.							
486	NZ	NZ	. LYS LYS LYS A A 63 63 .	0.4268	0.5529	0.4766	0.0356	-0.0034	-
0.0549	1	.							
487	C	C	. LYS LYS LYS A A 63 63 .	0.3342	0.3436	0.3345	0.0083	0.0011	-
0.0005	1	.							
488	O	O	. LYS LYS LYS A A 63 63 .	0.3271	0.3553	0.3314	0.0117	-0.0023	
0.0148	1	.							
489	N	N	. ALA ALA ALA A A 64 64 .	0.3290	0.3518	0.3226	0.0125	-0.0087	
0.0050	1	.							
490	CA	CA	. ALA ALA ALA A A 64 64 .	0.3094	0.3494	0.3240	0.0283	-0.0172	
0.0036	1	.							
491	CB	CB	. ALA ALA ALA A A 64 64 .	0.2684	0.3340	0.2896	0.0363	-0.0352	-
0.0004	1	.							
492	C	C	. ALA ALA ALA A A 64 64 .	0.3115	0.3577	0.3296	0.0188	-0.0227	
0.0155	1	.							



523	CD1	CD1	. ILE ILE ILE A A 68 68	. 0.2526 0.2959 0.2833 0.0354 -0.0276
0.0130	1	.		
524	CG2	CG2	. ILE ILE ILE A A 68 68	. 0.2202 0.2393 0.2716 0.0077 -0.0032 -
0.0089	1	.		
525	C	C	. ILE ILE ILE A A 68 68	. 0.3158 0.3205 0.3214 -0.0019 -0.0026 -
0.0034	1	.		
526	O	O	. ILE ILE ILE A A 68 68	. 0.3617 0.3069 0.3344 -0.0078 -0.0096 -
0.0192	1	.		
527	N	N	. ASN ASN ASN A A 69 69	. 0.3175 0.3353 0.3392 -0.0015 -0.0007
0.0065	1	.		
528	CA	CA	. ASN ASN ASN A A 69 69	. 0.3572 0.3465 0.3542 -0.0106 -0.0056
0.0073	1	.		
529	CB	CB	. ASN ASN ASN A A 69 69	. 0.3480 0.3517 0.3637 0.0027 -0.0008
0.0122	1	.		
530	CG	CG	. ASN ASN ASN A A 69 69	. 0.3693 0.3456 0.3861 -0.0024 0.0071 -
0.0055	1	.		
531	OD1	OD1	. ASN ASN ASN A A 69 69	. 0.3810 0.3892 0.4511 -0.0033 0.0157 -
0.0054	1	.		
532	ND2	ND2	. ASN ASN ASN A A 69 69	. 0.2635 0.3909 0.4351 0.0281 0.0188
0.0000	1	.		
533	C	C	. ASN ASN ASN A A 69 69	. 0.3540 0.3621 0.3590 -0.0093 -0.0049
0.0051	1	.		
534	O	O	. ASN ASN ASN A A 69 69	. 0.3203 0.3604 0.3584 -0.0295 -0.0132
0.0097	1	.		
535	N	N	. SER SER SER A A 70 70	. 0.3491 0.3581 0.3627 0.0066 -0.0028
0.0035	1	.		
536	CA	CA	. SER SER SER A A 70 70	. 0.3505 0.3668 0.3858 0.0022 -0.0039 -
0.0006	1	.		
537	CB	CB	. SER SER SER A A 70 70	. 0.3871 0.3735 0.3773 0.0044 0.0048
0.0007	1	.		
538	OG	OG	. SER SER SER A A 70 70	. 0.3212 0.4353 0.4553 0.0261 -0.0405 -
0.0215	1	.		
539	C	C	. SER SER SER A A 70 70	. 0.3530 0.3590 0.3818 -0.0038 -0.0005 -
0.0047	1	.		
540	O	O	. SER SER SER A A 70 70	. 0.3754 0.3544 0.4260 0.0010 0.0003 -
0.0014	1	.		
541	N	N	. THR THR THR A A 71 71	. 0.3336 0.3435 0.3711 -0.0049 -0.0073 -
0.0100	1	.		
542	CA	CA	. THR THR THR A A 71 71	. 0.3085 0.3386 0.3515 -0.0046 -0.0034 -
0.0014	1	.		
543	CB	CB	. THR THR THR A A 71 71	. 0.3085 0.3555 0.3433 -0.0019 -0.0073 -
0.0033	1	.		
544	OG1	OG1	. THR THR THR A A 71 71	. 0.1970 0.3623 0.3253 -0.0244 -0.0034
0.0106	1	.		
545	CG2	CG2	. THR THR THR A A 71 71	. 0.2512 0.3345 0.3005 -0.0141 -0.0183 -
0.0066	1	.		
546	C	C	. THR THR THR A A 71 71	. 0.3262 0.3411 0.3675 -0.0012 0.0000
0.0000	1	.		
547	O	O	. THR THR THR A A 71 71	. 0.3473 0.3400 0.3838 -0.0113 -0.0063
0.0031	1	.		
548	N	N	. ILE ILE ILE A A 72 72	. 0.3227 0.3585 0.3640 -0.0053 -0.0036 -
0.0054	1	.		
549	CA	CA	. ILE ILE ILE A A 72 72	. 0.3195 0.3532 0.3659 -0.0045 0.0038 -
0.0060	1	.		
550	CB	CB	. ILE ILE ILE A A 72 72	. 0.3037 0.3397 0.3681 -0.0036 -0.0040 -
0.0044	1	.		
551	CG1	CG1	. ILE ILE ILE A A 72 72	. 0.3140 0.3594 0.4205 -0.0240 -0.0232 -
0.0001	1	.		
552	CD1	CD1	. ILE ILE ILE A A 72 72	. 0.2227 0.3869 0.4513 -0.0148 -0.0697
0.0063	1	.		





583	CB	CB	. ILE ILE ILE A A 77 77	. 0.4364 0.4413 0.4700 -0.0105 0.0008
0.0199	1	.		
584	CG1	CG1	. ILE ILE ILE A A 77 77	. 0.4026 0.4523 0.4744 -0.0157 0.0151
0.0303	1	.		
585	CD1	CD1	. ILE ILE ILE A A 77 77	. 0.4046 0.4373 0.4389 -0.0917 0.0724
0.0272	1	.		
586	CG2	CG2	. ILE ILE ILE A A 77 77	. 0.4174 0.4007 0.4839 0.0008 -0.0123
0.0490	1	.		
587	C	C	. ILE ILE ILE A A 77 77	. 0.4676 0.4629 0.4813 -0.0041 0.0092
0.0109	1	.		
588	O	O	. ILE ILE ILE A A 77 77	. 0.4675 0.4721 0.4821 0.0029 0.0134
0.0132	1	.		
589	N	N	. SER SER SER A A 78 78	. 0.4812 0.4767 0.4823 0.0026 0.0164
0.0018	1	.		
590	CA	CA	. SER SER SER A A 78 78	. 0.4888 0.4815 0.4817 -0.0042 0.0147
0.0004	1	.		
591	CB	CB	. SER SER SER A A 78 78	. 0.4989 0.4748 0.4844 -0.0036 0.0103
0.0012	1	.		
592	OG	OG	. SER SER SER A A 78 78	. 0.4616 0.4324 0.5137 -0.0053 0.0224
0.0042	1	.		
593	C	C	. SER SER SER A A 78 78	. 0.4978 0.4960 0.4840 -0.0110 0.0106 -
0.0004	1	.		
594	O	O	. SER SER SER A A 78 78	. 0.5153 0.5055 0.4914 -0.0270 0.0126
0.0017	1	.		
595	N	N	. SER SER SER A A 79 79	. 0.4985 0.4959 0.4746 -0.0160 0.0027 -
0.0117	1	.		
596	CA	CA	. SER SER SER A A 79 79	. 0.4964 0.4977 0.4762 -0.0150 0.0088 -
0.0061	1	.		
597	CB	CB	. SER SER SER A A 79 79	. 0.4902 0.4854 0.4673 -0.0132 0.0106 -
0.0107	1	.		
598	OG	OG	. SER SER SER A A 79 79	. 0.4866 0.4861 0.4489 -0.0373 0.0503 -
0.0122	1	.		
599	C	C	. SER SER SER A A 79 79	. 0.4960 0.5016 0.4734 -0.0109 0.0034 -
0.0052	1	.		
600	O	O	. SER SER SER A A 79 79	. 0.5089 0.5129 0.4728 -0.0225 0.0024
0.0037	1	.		
601	N	N	. GLY GLY GLY A A 80 80	. 0.5053 0.4929 0.4695 -0.0048 0.0042 -
0.0040	1	.		
602	CA	CA	. GLY GLY GLY A A 80 80	. 0.4907 0.4903 0.4776 -0.0069 0.0075 -
0.0080	1	.		
603	C	C	. GLY GLY GLY A A 80 80	. 0.4863 0.5002 0.4870 0.0024 0.0098 -
0.0027	1	.		
604	O	O	. GLY GLY GLY A A 80 80	. 0.4727 0.5146 0.4974 -0.0019 0.0128
0.0002	1	.		
605	N	N	. LEU LEU LEU A A 81 81	. 0.4836 0.4946 0.4849 -0.0001 0.0061 -
0.0032	1	.		
606	CA	CA	. LEU LEU LEU A A 81 81	. 0.4817 0.4840 0.4895 0.0068 0.0118 -
0.0011	1	.		
607	CB	CB	. LEU LEU LEU A A 81 81	. 0.4757 0.4860 0.4817 0.0124 0.0137
0.0052	1	.		
608	CG	CG	. LEU LEU LEU A A 81 81	. 0.4918 0.4878 0.4923 -0.0025 0.0234
0.0209	1	.		
609	CD1	CD1	. LEU LEU LEU A A 81 81	. 0.4572 0.4070 0.4772 -0.0257 0.0037
0.0479	1	.		
610	CD2	CD2	. LEU LEU LEU A A 81 81	. 0.5028 0.4760 0.5040 -0.0392 0.0736
0.0162	1	.		
611	C	C	. LEU LEU LEU A A 81 81	. 0.4841 0.4849 0.4880 0.0084 0.0149
0.0009	1	.		
612	O	O	. LEU LEU LEU A A 81 81	. 0.4884 0.4768 0.4952 0.0129 0.0231 -
0.0073	1	.		





673	CD1	CD1	. LEU LEU LEU A A 89 89	. 0.2896 0.3264 0.3721 -0.0259 -0.0063 -
0.0675	1	.		
674	CD2	CD2	. LEU LEU LEU A A 89 89	. 0.3713 0.3350 0.3593 0.0196 0.0208
0.0042	1	.		
675	C	C	. LEU LEU LEU A A 89 89	. 0.4244 0.4144 0.4150 -0.0069 0.0280
0.0166	1	.		
676	O	O	. LEU LEU LEU A A 89 89	. 0.4135 0.4107 0.4399 0.0032 0.0383
0.0249	1	.		
677	N	N	. ASP ASP ASP A A 90 90	. 0.4297 0.4210 0.3928 -0.0127 0.0188
0.0157	1	.		
678	CA	CA	. ASP ASP ASP A A 90 90	. 0.4684 0.4324 0.4122 -0.0095 0.0165
0.0162	1	.		
679	CB	CB	. ASP ASP ASP A A 90 90	. 0.4865 0.4273 0.4073 -0.0192 0.0145
0.0139	1	.		
680	CG	CG	. ASP ASP ASP A A 90 90	. 0.5319 0.4567 0.4325 -0.0249 0.0083
0.0123	1	.		
681	OD1	OD1	. ASP ASP ASP A A 90 90	. 0.5706 0.4670 0.4191 -0.0562 0.0200
0.0517	1	.		
682	OD2	OD2	. ASP ASP ASP A A 90 90	. 0.6269 0.4407 0.4370 -0.0704 0.0138
0.0067	1	.		
683	C	C	. ASP ASP ASP A A 90 90	. 0.4746 0.4184 0.4250 -0.0051 0.0239
0.0139	1	.		
684	O	O	. ASP ASP ASP A A 90 90	. 0.4978 0.4157 0.4342 -0.0118 0.0353
0.0281	1	.		
685	N	N	. ASN ASN ASN A A 91 91	. 0.4896 0.4306 0.4254 0.0034 0.0194
0.0111	1	.		
686	CA	CA	. ASN ASN ASN A A 91 91	. 0.4715 0.4253 0.4376 0.0028 0.0151
0.0145	1	.		
687	CB	CB	. ASN ASN ASN A A 91 91	. 0.4929 0.4361 0.4406 -0.0032 0.0221
0.0105	1	.		
688	CG	CG	. ASN ASN ASN A A 91 91	. 0.5059 0.4679 0.4765 -0.0253 0.0167
0.0035	1	.		
689	OD1	OD1	. ASN ASN ASN A A 91 91	. 0.5484 0.5104 0.5079 -0.0815 -0.0105
0.0013	1	.		
690	ND2	ND2	. ASN ASN ASN A A 91 91	. 0.5750 0.4811 0.5050 -0.0260 0.0647 -
0.0003	1	.		
691	C	C	. ASN ASN ASN A A 91 91	. 0.4530 0.4119 0.4371 0.0039 0.0083
0.0275	1	.		
692	O	O	. ASN ASN ASN A A 91 91	. 0.4279 0.3992 0.4593 0.0078 0.0075
0.0382	1	.		
693	N	N	. LEU LEU LEU A A 92 92	. 0.4219 0.3965 0.4425 -0.0023 0.0029
0.0302	1	.		
694	CA	CA	. LEU LEU LEU A A 92 92	. 0.4298 0.4148 0.4597 0.0053 -0.0031
0.0227	1	.		
695	CB	CB	. LEU LEU LEU A A 92 92	. 0.4238 0.4097 0.4778 0.0091 -0.0135
0.0250	1	.		
696	CG	CG	. LEU LEU LEU A A 92 92	. 0.4289 0.4475 0.4977 0.0158 -0.0361
0.0269	1	.		
697	CD1	CD1	. LEU LEU LEU A A 92 92	. 0.4330 0.4803 0.4873 -0.0109 -0.0369
0.0494	1	.		
698	CD2	CD2	. LEU LEU LEU A A 92 92	. 0.4109 0.4634 0.5016 0.0292 0.0290 -
0.0035	1	.		
699	C	C	. LEU LEU LEU A A 92 92	. 0.4347 0.4144 0.4494 0.0069 0.0024
0.0163	1	.		
700	O	O	. LEU LEU LEU A A 92 92	. 0.4480 0.4195 0.4495 0.0039 0.0011
0.0170	1	.		
701	N	N	. MET MET MET A A 93 93	. 0.4315 0.4136 0.4461 0.0074 0.0034
0.0083	1	.		
702	CA	CA	. MET MET MET A A 93 93	. 0.4229 0.4122 0.4179 0.0055 0.0010
0.0015	1	.		



733	O	O	. LEU LEU LEU A A 96 96 .	0.3772	0.4223	0.4157	0.0150	0.0044	-
0.0007	1	.							
734	N	N	. ASP ASP ASP A A 97 97 .	0.4088	0.4252	0.4386	-0.0015	-0.0083	
0.0001	1	.							
735	CA	CA	. ASP ASP ASP A A 97 97 .	0.4253	0.4416	0.4470	0.0068	-0.0022	
0.0066	1	.							
736	CB	CB	. ASP ASP ASP A A 97 97 .	0.4168	0.4404	0.4523	-0.0063	-0.0070	
0.0037	1	.							
737	CG	CG	. ASP ASP ASP A A 97 97 .	0.4416	0.4693	0.4740	-0.0164	-0.0091	
0.0126	1	.							
738	OD1	OD1	. ASP ASP ASP A A 97 97 .	0.4679	0.5079	0.5107	-0.0355	-0.0224	
0.0228	1	.							
739	OD2	OD2	. ASP ASP ASP A A 97 97 .	0.4611	0.4501	0.4482	-0.0559	-0.0270	
0.0259	1	.							
740	C	C	. ASP ASP ASP A A 97 97 .	0.4316	0.4437	0.4527	0.0138	-0.0030	
0.0092	1	.							
741	O	O	. ASP ASP ASP A A 97 97 .	0.4631	0.4235	0.4410	0.0305	-0.0016	
0.0092	1	.							
742	N	N	. GLY GLY GLY A A 98 98 .	0.4291	0.4506	0.4455	0.0138	-0.0024	
0.0096	1	.							
743	CA	CA	. GLY GLY GLY A A 98 98 .	0.4322	0.4704	0.4699	0.0118	-0.0123	
0.0108	1	.							
744	C	C	. GLY GLY GLY A A 98 98 .	0.4548	0.4793	0.4838	0.0053	-0.0217	
0.0108	1	.							
745	O	O	. GLY GLY GLY A A 98 98 .	0.4430	0.4806	0.5016	0.0004	-0.0305	
0.0078	1	.							
746	N	N	. THR THR THR A A 99 99 .	0.4677	0.4662	0.4804	0.0054	-0.0226	
0.0117	1	.							
747	CA	CA	. THR THR THR A A 99 99 .	0.4911	0.4752	0.4858	0.0110	-0.0150	
0.0066	1	.							
748	CB	CB	. THR THR THR A A 99 99 .	0.5022	0.4711	0.5025	0.0172	-0.0136	
0.0031	1	.							
749	OG1	OG1	. THR THR THR A A 99 99 .	0.5155	0.4449	0.5112	0.0435	-0.0269	-
0.0004	1	.							
750	CG2	CG2	. THR THR THR A A 99 99 .	0.4971	0.5042	0.4975	0.0250	-0.0320	-
0.0005	1	.							
751	C	C	. THR THR THR A A 99 99 .	0.5012	0.4787	0.4993	0.0025	-0.0127	
0.0077	1	.							
752	O	O	. THR THR THR A A 99 99 .	0.4876	0.4712	0.4907	0.0074	-0.0218	-
0.0017	1	.							
753	N	N	. GLU GLU GLU A A 100 100 .	0.5081	0.4962	0.5116	0.0066	-0.0175	
0.0101	1	.							
754	CA	CA	. GLU GLU GLU A A 100 100 .	0.5389	0.5221	0.5287	0.0058	-0.0155	
0.0127	1	.							
755	CB	CB	. GLU GLU GLU A A 100 100 .	0.5722	0.5563	0.5560	0.0041	-0.0216	
0.0157	1	.							
756	CG	CG	. GLU GLU GLU A A 100 100 .	0.6637	0.5890	0.6063	0.0172	-0.0275	
0.0040	1	.							
757	CD	CD	. GLU GLU GLU A A 100 100 .	0.7276	0.7166	0.6777	0.0399	-0.0026	
0.0344	1	.							
758	OE1	OE1	. GLU GLU GLU A A 100 100 .	0.8177	0.7851	0.7537	0.0626	-0.0381	
0.0594	1	.							
759	OE2	OE2	. GLU GLU GLU A A 100 100 .	0.7278	0.7585	0.7054	0.0734	-0.0218	
0.0468	1	.							
760	C	C	. GLU GLU GLU A A 100 100 .	0.5213	0.5194	0.5191	0.0065	-0.0083	
0.0063	1	.							
761	O	O	. GLU GLU GLU A A 100 100 .	0.5578	0.5243	0.5073	0.0133	-0.0074	
0.0033	1	.							
762	N	N	. ASN ASN ASN A A 101 101 .	0.4879	0.4999	0.4958	-0.0025	-0.0108	
0.0163	1	.							

763	CA	CA	. ASN ASN ASN A A 101 101 .	0.4686	0.4922	0.4863	-0.0110	-0.0074	
0.0131	1	.							
764	CB	CB	. ASN ASN ASN A A 101 101 .	0.4741	0.5092	0.5227	-0.0064	0.0010	
0.0220	1	.							
765	CG	CG	. ASN ASN ASN A A 101 101 .	0.5477	0.5805	0.5899	-0.0159	0.0045	
0.0099	1	.							
766	OD1	OD1	. ASN ASN ASN A A 101 101 .	0.6949	0.6542	0.6806	-0.0683	0.0265	
0.0698	1	.							
767	ND2	ND2	. ASN ASN ASN A A 101 101 .	0.5463	0.6569	0.6773	-0.0566	-0.0198	
0.0173	1	.							
768	C	C	. ASN ASN ASN A A 101 101 .	0.4288	0.4562	0.4569	-0.0100	-0.0079	
0.0253	1	.							
769	O	O	. ASN ASN ASN A A 101 101 .	0.3837	0.4490	0.4173	-0.0176	-0.0146	
0.0238	1	.							
770	N	N	. LYS LYS LYS A A 102 102 .	0.4385	0.4409	0.4370	-0.0009	-0.0196	
0.0240	1	.							
771	CA	CA	. LYS LYS LYS A A 102 102 .	0.4165	0.4309	0.4229	-0.0015	-0.0147	
0.0112	1	.							
772	CB	CB	. LYS LYS LYS A A 102 102 .	0.3999	0.4477	0.4256	0.0003	-0.0267	-
0.0019	1	.							
773	CG	CG	. LYS LYS LYS A A 102 102 .	0.4327	0.4799	0.4018	-0.0056	-0.0035	
0.0237	1	.							
774	CD	CD	. LYS LYS LYS A A 102 102 .	0.5135	0.5113	0.4241	0.0637	-0.0061	
0.0105	1	.							
775	CE	CE	. LYS LYS LYS A A 102 102 .	0.5932	0.5025	0.4813	0.0848	-0.0261	-
0.0144	1	.							
776	NZ	NZ	. LYS LYS LYS A A 102 102 .	0.6436	0.4962	0.4238	0.0960	-0.0033	-
0.0481	1	.							
777	C	C	. LYS LYS LYS A A 102 102 .	0.4200	0.4355	0.4223	0.0044	-0.0200	
0.0118	1	.							
778	O	O	. LYS LYS LYS A A 102 102 .	0.4042	0.4261	0.4122	0.0157	-0.0308	
0.0227	1	.							
779	N	N	. SER SER SER A A 103 103 .	0.4094	0.4301	0.4148	0.0127	-0.0121	
0.0064	1	.							
780	CA	CA	. SER SER SER A A 103 103 .	0.4064	0.4274	0.4308	0.0011	-0.0079	
0.0115	1	.							
781	CB	CB	. SER SER SER A A 103 103 .	0.4116	0.4201	0.4406	0.0014	-0.0060	
0.0159	1	.							
782	OG	OG	. SER SER SER A A 103 103 .	0.4114	0.4106	0.4938	0.0022	-0.0253	
0.0134	1	.							
783	C	C	. SER SER SER A A 103 103 .	0.4040	0.4143	0.4207	-0.0048	0.0051	
0.0008	1	.							
784	O	O	. SER SER SER A A 103 103 .	0.4029	0.4258	0.4438	-0.0033	0.0186	-
0.0142	1	.							
785	N	N	. LYS LYS LYS A A 104 104 .	0.4080	0.4073	0.4060	-0.0066	-0.0016	
0.0048	1	.							
786	CA	CA	. LYS LYS LYS A A 104 104 .	0.3926	0.3952	0.3886	-0.0002	-0.0024	-
0.0041	1	.							
787	CB	CB	. LYS LYS LYS A A 104 104 .	0.4045	0.3865	0.3774	-0.0045	-0.0093	-
0.0006	1	.							
788	CG	CG	. LYS LYS LYS A A 104 104 .	0.4315	0.3824	0.3753	0.0006	-0.0061	-
0.0101	1	.							
789	CD	CD	. LYS LYS LYS A A 104 104 .	0.4924	0.4066	0.3874	-0.0107	-0.0557	
0.0087	1	.							
790	CE	CE	. LYS LYS LYS A A 104 104 .	0.5586	0.3412	0.4101	-0.0041	0.0008	
0.0304	1	.							
791	NZ	NZ	. LYS LYS LYS A A 104 104 .	0.5153	0.3852	0.5217	-0.0544	-0.0011	
0.0357	1	.							
792	C	C	. LYS LYS LYS A A 104 104 .	0.3761	0.3833	0.3834	0.0068	-0.0019	
0.0009	1	.							





823	CA	CA	. ALA ALA ALA A A	109 109	. 0.3671 0.3713 0.3530 -0.0006 -0.0036
0.0007	1	.			
824	CB	CB	. ALA ALA ALA A A	109 109	. 0.3801 0.3784 0.3416 -0.0074 -0.0066
0.0026	1	.			
825	C	C	. ALA ALA ALA A A	109 109	. 0.3674 0.3752 0.3570 0.0089 -0.0063 -
0.0004	1	.			
826	O	O	. ALA ALA ALA A A	109 109	. 0.3589 0.3564 0.3685 0.0237 -0.0096 -
0.0030	1	.			
827	N	N	. ILE ILE ILE A A	110 110	. 0.3803 0.3800 0.3449 -0.0020 0.0005
0.0030	1	.			
828	CA	CA	. ILE ILE ILE A A	110 110	. 0.3869 0.3729 0.3502 0.0025 -0.0031
0.0067	1	.			
829	CB	CB	. ILE ILE ILE A A	110 110	. 0.3998 0.3809 0.3623 0.0113 -0.0002
0.0088	1	.			
830	CG1	CG1	. ILE ILE ILE A A	110 110	. 0.3774 0.3741 0.3756 0.0061 -0.0031
0.0135	1	.			
831	CD1	CD1	. ILE ILE ILE A A	110 110	. 0.3959 0.3650 0.3948 0.0034 -0.0195
0.0658	1	.			
832	CG2	CG2	. ILE ILE ILE A A	110 110	. 0.4192 0.3510 0.3503 -0.0078 0.0224 -
0.0088	1	.			
833	C	C	. ILE ILE ILE A A	110 110	. 0.3562 0.3478 0.3394 0.0033 -0.0040
0.0144	1	.			
834	O	O	. ILE ILE ILE A A	110 110	. 0.3546 0.3697 0.3476 -0.0218 -0.0157
0.0270	1	.			
835	N	N	. LEU LEU LEU A A	111 111	. 0.3550 0.3386 0.3304 0.0022 0.0020
0.0178	1	.			
836	CA	CA	. LEU LEU LEU A A	111 111	. 0.3488 0.3347 0.3278 0.0058 0.0085
0.0026	1	.			
837	CB	CB	. LEU LEU LEU A A	111 111	. 0.3362 0.3090 0.3290 0.0008 0.0226 -
0.0016	1	.			
838	CG	CG	. LEU LEU LEU A A	111 111	. 0.3510 0.3446 0.3337 0.0028 0.0355
0.0025	1	.			
839	CD1	CD1	. LEU LEU LEU A A	111 111	. 0.2824 0.2713 0.3226 -0.0026 0.0164 -
0.0094	1	.			
840	CD2	CD2	. LEU LEU LEU A A	111 111	. 0.3363 0.3948 0.3058 0.0128 0.0781 -
0.0027	1	.			
841	C	C	. LEU LEU LEU A A	111 111	. 0.3497 0.3190 0.3325 0.0053 0.0106
0.0061	1	.			
842	O	O	. LEU LEU LEU A A	111 111	. 0.3443 0.3350 0.3396 0.0115 0.0255
0.0088	1	.			
843	N	N	. GLY GLY GLY A A	112 112	. 0.3559 0.3016 0.3204 -0.0162 0.0017
0.0194	1	.			
844	CA	CA	. GLY GLY GLY A A	112 112	. 0.3371 0.3163 0.3203 -0.0117 -0.0027
0.0183	1	.			
845	C	C	. GLY GLY GLY A A	112 112	. 0.3399 0.3263 0.3282 -0.0044 0.0044
0.0153	1	.			
846	O	O	. GLY GLY GLY A A	112 112	. 0.3536 0.3253 0.3529 -0.0008 0.0085
0.0009	1	.			
847	N	N	. VAL VAL VAL A A	113 113	. 0.3389 0.3425 0.3200 -0.0191 -0.0005
0.0066	1	.			
848	CA	CA	. VAL VAL VAL A A	113 113	. 0.3150 0.3333 0.3273 -0.0134 -0.0052
0.0103	1	.			
849	CB	CB	. VAL VAL VAL A A	113 113	. 0.3211 0.3339 0.3313 -0.0064 -0.0024
0.0062	1	.			
850	CG1	CG1	. VAL VAL VAL A A	113 113	. 0.2924 0.3192 0.3390 -0.0089 0.0107 -
0.0012	1	.			
851	CG2	CG2	. VAL VAL VAL A A	113 113	. 0.2459 0.2988 0.3195 0.0159 0.0106
0.0363	1	.			
852	C	C	. VAL VAL VAL A A	113 113	. 0.3142 0.3402 0.3335 -0.0044 -0.0013
0.0052	1	.			



883	SG	SG	. CYS CYS CYS A A 118 118 .	0.4942	0.4014	0.4357	-0.0320	0.0666	
0.0175	1	.							
884	C	C	. CYS CYS CYS A A 118 118 .	0.4170	0.4091	0.4148	-0.0160	0.0219	
0.0105	1	.							
885	O	O	. CYS CYS CYS A A 118 118 .	0.4284	0.4135	0.4164	-0.0353	0.0386	
0.0197	1	.							
886	N	N	. LYS LYS LYS A A 119 119 .	0.3997	0.4089	0.4169	-0.0077	0.0216	
0.0074	1	.							
887	CA	CA	. LYS LYS LYS A A 119 119 .	0.3888	0.3988	0.4179	-0.0151	0.0145	-
0.0039	1	.							
888	CB	CB	. LYS LYS LYS A A 119 119 .	0.3686	0.3692	0.4053	-0.0194	0.0228	-
0.0111	1	.							
889	CG	CG	. LYS LYS LYS A A 119 119 .	0.3871	0.4130	0.4177	-0.0244	0.0318	
0.0001	1	.							
890	CD	CD	. LYS LYS LYS A A 119 119 .	0.3296	0.4466	0.4281	-0.0850	0.0961	-
0.0332	1	.							
891	CE	CE	. LYS LYS LYS A A 119 119 .	0.3621	0.5310	0.4221	-0.0813	0.0931	
0.0273	1	.							
892	NZ	NZ	. LYS LYS LYS A A 119 119 .	0.2349	0.5010	0.4538	-0.0577	0.1330	
0.0075	1	.							
893	C	C	. LYS LYS LYS A A 119 119 .	0.3866	0.3957	0.4291	-0.0157	0.0163	-
0.0111	1	.							
894	O	O	. LYS LYS LYS A A 119 119 .	0.4063	0.3946	0.4459	-0.0230	0.0309	-
0.0200	1	.							
895	N	N	. ALA ALA ALA A A 120 120 .	0.3828	0.3841	0.4172	-0.0137	0.0207	-
0.0082	1	.							
896	CA	CA	. ALA ALA ALA A A 120 120 .	0.3692	0.3788	0.3991	-0.0143	0.0125	-
0.0096	1	.							
897	CB	CB	. ALA ALA ALA A A 120 120 .	0.3433	0.3778	0.3792	-0.0129	0.0250	-
0.0098	1	.							
898	C	C	. ALA ALA ALA A A 120 120 .	0.3798	0.3863	0.4143	-0.0128	0.0130	-
0.0062	1	.							
899	O	O	. ALA ALA ALA A A 120 120 .	0.3564	0.3717	0.4304	-0.0002	0.0147	-
0.0095	1	.							
900	N	N	. GLY GLY GLY A A 121 121 .	0.3984	0.4092	0.4155	-0.0095	0.0052	
0.0086	1	.							
901	CA	CA	. GLY GLY GLY A A 121 121 .	0.4291	0.4301	0.4476	-0.0121	0.0149	
0.0103	1	.							
902	C	C	. GLY GLY GLY A A 121 121 .	0.4409	0.4481	0.4683	-0.0098	0.0184	
0.0085	1	.							
903	O	O	. GLY GLY GLY A A 121 121 .	0.4634	0.4698	0.4647	-0.0195	0.0351	
0.0163	1	.							
904	N	N	. ALA ALA ALA A A 122 122 .	0.4482	0.4544	0.4837	-0.0080	0.0174	
0.0131	1	.							
905	CA	CA	. ALA ALA ALA A A 122 122 .	0.4492	0.4536	0.4799	0.0017	0.0188	
0.0003	1	.							
906	CB	CB	. ALA ALA ALA A A 122 122 .	0.4233	0.4326	0.4749	0.0033	0.0129	-
0.0075	1	.							
907	C	C	. ALA ALA ALA A A 122 122 .	0.4548	0.4674	0.4917	0.0002	0.0155	-
0.0014	1	.							
908	O	O	. ALA ALA ALA A A 122 122 .	0.4680	0.4669	0.5068	-0.0043	0.0224	-
0.0048	1	.							
909	N	N	. ALA ALA ALA A A 123 123 .	0.4697	0.4776	0.5029	0.0006	0.0139	-
0.0018	1	.							
910	CA	CA	. ALA ALA ALA A A 123 123 .	0.4961	0.4986	0.5168	-0.0023	0.0100	
0.0057	1	.							
911	CB	CB	. ALA ALA ALA A A 123 123 .	0.4941	0.4894	0.5156	0.0011	0.0100	-
0.0029	1	.							
912	C	C	. ALA ALA ALA A A 123 123 .	0.5211	0.5190	0.5396	-0.0018	0.0075	
0.0058	1	.							



943	N	N	. LEU LEU LEU A A 127 127 .	0.5278	0.5403	0.5358	0.0031	0.0102	-
0.0131	1	.							
944	CA	CA	. LEU LEU LEU A A 127 127 .	0.5107	0.5125	0.5184	0.0003	0.0154	-
0.0122	1	.							
945	CB	CB	. LEU LEU LEU A A 127 127 .	0.5043	0.5096	0.5131	0.0079	0.0127	-
0.0245	1	.							
946	CG	CG	. LEU LEU LEU A A 127 127 .	0.5111	0.5162	0.5306	0.0015	0.0133	-
0.0116	1	.							
947	CD1	CD1	. LEU LEU LEU A A 127 127 .	0.5826	0.5013	0.5422	0.0311	0.0190	-
0.0051	1	.							
948	CD2	CD2	. LEU LEU LEU A A 127 127 .	0.5037	0.5388	0.5393	0.0027	0.0240	-
0.0169	1	.							
949	C	C	. LEU LEU LEU A A 127 127 .	0.4803	0.4915	0.5144	-0.0059	0.0139	-
0.0148	1	.							
950	O	O	. LEU LEU LEU A A 127 127 .	0.4673	0.5003	0.5325	-0.0245	0.0189	-
0.0079	1	.							
951	N	N	. PRO PRO PRO A A 128 128 .	0.4609	0.4834	0.5000	-0.0058	0.0204	-
0.0097	1	.							
952	CA	CA	. PRO PRO PRO A A 128 128 .	0.4518	0.4631	0.4823	0.0029	0.0124	-
0.0053	1	.							
953	CB	CB	. PRO PRO PRO A A 128 128 .	0.4619	0.4625	0.4914	-0.0060	0.0059	-
0.0133	1	.							
954	CG	CG	. PRO PRO PRO A A 128 128 .	0.4444	0.4682	0.4840	-0.0087	0.0303	-
0.0129	1	.							
955	CD	CD	. PRO PRO PRO A A 128 128 .	0.4729	0.4776	0.4927	-0.0027	0.0171	-
0.0163	1	.							
956	C	C	. PRO PRO PRO A A 128 128 .	0.4172	0.4446	0.4497	0.0081	0.0220	-
0.0020	1	.							
957	O	O	. PRO PRO PRO A A 128 128 .	0.3860	0.4440	0.4038	0.0249	0.0335	-
0.0003	1	.							
958	N	N	. LEU LEU LEU A A 129 129 .	0.4099	0.4214	0.4190	0.0102	0.0201	-
0.0117	1	.							
959	CA	CA	. LEU LEU LEU A A 129 129 .	0.3865	0.4099	0.4062	-0.0016	0.0218	-
0.0134	1	.							
960	CB	CB	. LEU LEU LEU A A 129 129 .	0.3995	0.4061	0.4026	0.0060	0.0206	-
0.0249	1	.							
961	CG	CG	. LEU LEU LEU A A 129 129 .	0.3792	0.3914	0.4059	-0.0270	0.0154	-
0.0198	1	.							
962	CD1	CD1	. LEU LEU LEU A A 129 129 .	0.4211	0.4197	0.4071	-0.0542	-0.0025	-
0.0416	1	.							
963	CD2	CD2	. LEU LEU LEU A A 129 129 .	0.3881	0.3413	0.3762	-0.0908	-0.0114	-
0.0405	1	.							
964	C	C	. LEU LEU LEU A A 129 129 .	0.3694	0.4024	0.3948	-0.0013	0.0255	-
0.0087	1	.							
965	O	O	. LEU LEU LEU A A 129 129 .	0.3289	0.4160	0.3544	-0.0205	0.0498	-
0.0166	1	.							
966	N	N	. TYR TYR TYR A A 130 130 .	0.3748	0.4160	0.4002	0.0051	0.0257	-
0.0022	1	.							
967	CA	CA	. TYR TYR TYR A A 130 130 .	0.3784	0.4171	0.3854	0.0101	0.0226	-
0.0053	1	.							
968	CB	CB	. TYR TYR TYR A A 130 130 .	0.4013	0.4209	0.3837	0.0106	0.0235	-
0.0006	1	.							
969	CG	CG	. TYR TYR TYR A A 130 130 .	0.3887	0.4473	0.4114	0.0104	0.0235	-
0.0045	1	.							
970	CD1	CD1	. TYR TYR TYR A A 130 130 .	0.4491	0.4773	0.4512	0.0323	0.0222	-
0.0100	1	.							
971	CE1	CE1	. TYR TYR TYR A A 130 130 .	0.4925	0.4022	0.4641	0.0401	0.0086	-
0.0462	1	.							
972	CZ	CZ	. TYR TYR TYR A A 130 130 .	0.4929	0.4344	0.5143	0.0370	0.0001	-
0.0365	1	.							



1003	CD1	CD1	. ILE ILE ILE A A 133 133 .	0.3989	0.3005	0.3798	-0.0704	0.0024	
0.0389	1	.							
1004	CG2	CG2	. ILE ILE ILE A A 133 133 .	0.2551	0.3347	0.2947	-0.0625	0.0412	
0.0074	1	.							
1005	C	C	. ILE ILE ILE A A 133 133 .	0.3870	0.4013	0.3918	-0.0098	0.0334	
0.0239	1	.							
1006	O	O	. ILE ILE ILE A A 133 133 .	0.3688	0.4049	0.3920	-0.0085	0.0363	
0.0405	1	.							
1007	N	N	. ALA ALA ALA A A 134 134 .	0.4476	0.4234	0.4242	-0.0145	0.0319	
0.0159	1	.							
1008	CA	CA	. ALA ALA ALA A A 134 134 .	0.4755	0.4577	0.4486	-0.0085	0.0208	
0.0054	1	.							
1009	CB	CB	. ALA ALA ALA A A 134 134 .	0.4942	0.4627	0.4527	-0.0014	0.0337	
0.0065	1	.							
1010	C	C	. ALA ALA ALA A A 134 134 .	0.4912	0.4885	0.4584	0.0002	0.0141	
0.0063	1	.							
1011	O	O	. ALA ALA ALA A A 134 134 .	0.4943	0.5193	0.4858	0.0190	0.0095	
0.0064	1	.							
1012	N	N	. GLN GLN GLN A A 135 135 .	0.4723	0.4962	0.4726	-0.0048	0.0086	
0.0074	1	.							
1013	CA	CA	. GLN GLN GLN A A 135 135 .	0.4873	0.4994	0.4663	0.0001	0.0099	
0.0133	1	.							
1014	CB	CB	. GLN GLN GLN A A 135 135 .	0.4515	0.4909	0.4633	-0.0017	0.0079	
0.0210	1	.							
1015	CG	CG	. GLN GLN GLN A A 135 135 .	0.4779	0.5174	0.4558	-0.0001	0.0166	
0.0133	1	.							
1016	CD	CD	. GLN GLN GLN A A 135 135 .	0.4681	0.5222	0.5063	0.0226	0.0394	
0.0146	1	.							
1017	OE1	OE1	. GLN GLN GLN A A 135 135 .	0.5061	0.5865	0.5357	0.0480	0.1124	-
0.0165	1	.							
1018	NE2	NE2	. GLN GLN GLN A A 135 135 .	0.4276	0.4610	0.5286	0.0062	0.0102	
0.0402	1	.							
1019	C	C	. GLN GLN GLN A A 135 135 .	0.4886	0.5104	0.4738	0.0042	0.0112	
0.0148	1	.							
1020	O	O	. GLN GLN GLN A A 135 135 .	0.5075	0.5234	0.4530	-0.0002	0.0082	
0.0163	1	.							
1021	N	N	. LEU LEU LEU A A 136 136 .	0.4933	0.5128	0.4728	0.0000	0.0177	
0.0082	1	.							
1022	CA	CA	. LEU LEU LEU A A 136 136 .	0.5089	0.5048	0.4841	0.0009	0.0099	
0.0028	1	.							
1023	CB	CB	. LEU LEU LEU A A 136 136 .	0.4996	0.5003	0.4631	-0.0046	0.0135	-
0.0051	1	.							
1024	CG	CG	. LEU LEU LEU A A 136 136 .	0.5204	0.5125	0.4754	-0.0166	0.0205	-
0.0071	1	.							
1025	CD1	CD1	. LEU LEU LEU A A 136 136 .	0.4817	0.5430	0.4229	-0.0097	0.0238	-
0.0241	1	.							
1026	CD2	CD2	. LEU LEU LEU A A 136 136 .	0.4566	0.5183	0.4464	-0.0647	0.0042	-
0.0112	1	.							
1027	C	C	. LEU LEU LEU A A 136 136 .	0.5150	0.5098	0.4810	-0.0016	0.0060	
0.0012	1	.							
1028	O	O	. LEU LEU LEU A A 136 136 .	0.5291	0.5123	0.4802	-0.0083	0.0160	
0.0046	1	.							
1029	N	N	. ALA ALA ALA A A 137 137 .	0.5143	0.5093	0.4860	-0.0038	0.0059	
0.0035	1	.							
1030	CA	CA	. ALA ALA ALA A A 137 137 .	0.5368	0.5285	0.5078	-0.0066	0.0002	
0.0039	1	.							
1031	CB	CB	. ALA ALA ALA A A 137 137 .	0.5190	0.5299	0.4975	-0.0102	-0.0029	
0.0006	1	.							
1032	C	C	. ALA ALA ALA A A 137 137 .	0.5512	0.5417	0.5260	-0.0036	-0.0009	
0.0032	1	.							





1063	CG	CG	. LEU LEU LEU A A 142 142 .	0.5971	0.5706	0.5502	0.0000	0.0037	
0.0098	1	.							
1064	CD1	CD1	. LEU LEU LEU A A 142 142 .	0.5795	0.5815	0.5562	-0.0317	0.0172	
0.0078	1	.							
1065	CD2	CD2	. LEU LEU LEU A A 142 142 .	0.6268	0.5101	0.5247	-0.0090	0.0129	
0.0226	1	.							
1066	C	C	. LEU LEU LEU A A 142 142 .	0.5720	0.5903	0.5652	-0.0068	-0.0056	
0.0151	1	.							
1067	O	O	. LEU LEU LEU A A 142 142 .	0.5693	0.5971	0.5677	-0.0038	-0.0228	
0.0222	1	.							
1068	N	N	. ILE ILE ILE A A 143 143 .	0.5327	0.5480	0.5187	-0.0082	0.0025	
0.0146	1	.							
1069	CA	CA	. ILE ILE ILE A A 143 143 .	0.4824	0.5159	0.4809	-0.0058	0.0084	
0.0162	1	.							
1070	CB	CB	. ILE ILE ILE A A 143 143 .	0.4986	0.5298	0.4896	0.0102	0.0092	
0.0257	1	.							
1071	CG1	CG1	. ILE ILE ILE A A 143 143 .	0.4750	0.5361	0.4993	0.0113	0.0265	
0.0362	1	.							
1072	CD1	CD1	. ILE ILE ILE A A 143 143 .	0.4916	0.5386	0.5580	-0.0001	0.0156	
0.0725	1	.							
1073	CG2	CG2	. ILE ILE ILE A A 143 143 .	0.4844	0.5220	0.5125	-0.0024	0.0189	
0.0328	1	.							
1074	C	C	. ILE ILE ILE A A 143 143 .	0.4353	0.4751	0.4574	-0.0047	0.0100	
0.0093	1	.							
1075	O	O	. ILE ILE ILE A A 143 143 .	0.4073	0.4604	0.4309	-0.0198	0.0264	
0.0207	1	.							
1076	N	N	. LEU LEU LEU A A 144 144 .	0.3817	0.4500	0.4246	-0.0084	0.0164	
0.0034	1	.							
1077	CA	CA	. LEU LEU LEU A A 144 144 .	0.3547	0.4155	0.3905	-0.0079	0.0012	-
0.0095	1	.							
1078	CB	CB	. LEU LEU LEU A A 144 144 .	0.3328	0.4096	0.3569	0.0004	0.0006	-
0.0126	1	.							
1079	CG	CG	. LEU LEU LEU A A 144 144 .	0.3910	0.4048	0.3662	-0.0332	0.0315	-
0.0187	1	.							
1080	CD1	CD1	. LEU LEU LEU A A 144 144 .	0.3833	0.3794	0.3703	0.0113	0.0264	-
0.0467	1	.							
1081	CD2	CD2	. LEU LEU LEU A A 144 144 .	0.3603	0.4863	0.3185	-0.0042	0.0917	-
0.0829	1	.							
1082	C	C	. LEU LEU LEU A A 144 144 .	0.3320	0.4131	0.3819	0.0007	-0.0086	-
0.0185	1	.							
1083	O	O	. LEU LEU LEU A A 144 144 .	0.3022	0.4239	0.3850	0.0110	-0.0286	-
0.0246	1	.							
1084	N	N	. PRO PRO PRO A A 145 145 .	0.3250	0.4028	0.3450	0.0022	-0.0030	-
0.0169	1	.							
1085	CA	CA	. PRO PRO PRO A A 145 145 .	0.3341	0.3794	0.3414	0.0044	-0.0091	-
0.0125	1	.							
1086	CB	CB	. PRO PRO PRO A A 145 145 .	0.3452	0.3946	0.3489	0.0054	-0.0076	-
0.0123	1	.							
1087	CG	CG	. PRO PRO PRO A A 145 145 .	0.3246	0.3884	0.3352	0.0326	-0.0143	-
0.0241	1	.							
1088	CD	CD	. PRO PRO PRO A A 145 145 .	0.3068	0.3969	0.3671	-0.0186	-0.0063	-
0.0283	1	.							
1089	C	C	. PRO PRO PRO A A 145 145 .	0.3446	0.3724	0.3469	0.0089	-0.0073	-
0.0110	1	.							
1090	O	O	. PRO PRO PRO A A 145 145 .	0.3592	0.3808	0.3392	0.0022	-0.0095	-
0.0008	1	.							
1091	N	N	. VAL VAL VAL A A 146 146 .	0.3551	0.3559	0.3450	0.0019	0.0041	-
0.0166	1	.							
1092	CA	CA	. VAL VAL VAL A A 146 146 .	0.3789	0.3558	0.3272	0.0010	0.0184	-
0.0035	1	.							







1183	C	C	. GLY GLY GLY A A 159 159 .	0.4299	0.4535	0.4625	-0.0108	-0.0109	-
0.0026	1	.							
1184	O	O	. GLY GLY GLY A A 159 159 .	0.4087	0.4454	0.4918	-0.0099	-0.0148	-
0.0234	1	.							
1185	N	N	. ASN ASN ASN A A 160 160 .	0.4240	0.4620	0.4693	-0.0021	-0.0119	-
0.0078	1	.							
1186	CA	CA	. ASN ASN ASN A A 160 160 .	0.4172	0.4542	0.4626	0.0050	-0.0038	-
0.0052	1	.							
1187	CB	CB	. ASN ASN ASN A A 160 160 .	0.4135	0.4469	0.4649	0.0077	-0.0033	-
0.0079	1	.							
1188	CG	CG	. ASN ASN ASN A A 160 160 .	0.4043	0.4327	0.4222	0.0165	-0.0164	-
0.0030	1	.							
1189	OD1	OD1	. ASN ASN ASN A A 160 160 .	0.2734	0.4404	0.4046	-0.0012	-0.0515	-
0.0283	1	.							
1190	ND2	ND2	. ASN ASN ASN A A 160 160 .	0.3939	0.4282	0.4266	0.0215	-0.0155	-
0.0351	1	.							
1191	C	C	. ASN ASN ASN A A 160 160 .	0.4117	0.4535	0.4654	0.0136	-0.0019	-
0.0065	1	.							
1192	O	O	. ASN ASN ASN A A 160 160 .	0.3881	0.4738	0.4779	0.0376	0.0102	-
0.0172	1	.							
1193	N	N	. LYS LYS LYS A A 161 161 .	0.4080	0.4690	0.4804	0.0152	-0.0001	-
0.0038	1	.							
1194	CA	CA	. LYS LYS LYS A A 161 161 .	0.4255	0.4812	0.4794	0.0056	0.0056	-
0.0004	1	.							
1195	CB	CB	. LYS LYS LYS A A 161 161 .	0.4194	0.4925	0.4840	-0.0053	-0.0055	-
0.0048	1	.							
1196	CG	CG	. LYS LYS LYS A A 161 161 .	0.4291	0.5078	0.5260	0.0097	0.0171	-
0.0051	1	.							
1197	CD	CD	. LYS LYS LYS A A 161 161 .	0.4899	0.5612	0.6017	-0.0238	0.0125	-
0.0124	1	.							
1198	CE	CE	. LYS LYS LYS A A 161 161 .	0.5621	0.5956	0.6620	-0.0591	0.0201	-
0.0177	1	.							
1199	NZ	NZ	. LYS LYS LYS A A 161 161 .	0.6040	0.6799	0.7306	-0.0380	-0.0118	-
0.0332	1	.							
1200	C	C	. LYS LYS LYS A A 161 161 .	0.4180	0.4688	0.4789	0.0059	0.0108	-
0.0007	1	.							
1201	O	O	. LYS LYS LYS A A 161 161 .	0.3693	0.4529	0.4924	0.0158	0.0179	-
0.0077	1	.							
1202	N	N	. LEU LEU LEU A A 162 162 .	0.4235	0.4658	0.4774	0.0051	0.0178	-
0.0084	1	.							
1203	CA	CA	. LEU LEU LEU A A 162 162 .	0.4225	0.4543	0.4576	0.0119	0.0096	-
0.0076	1	.							
1204	CB	CB	. LEU LEU LEU A A 162 162 .	0.3989	0.4518	0.4622	0.0106	0.0023	-
0.0114	1	.							
1205	CG	CG	. LEU LEU LEU A A 162 162 .	0.3610	0.4439	0.4675	0.0058	-0.0123	-
0.0121	1	.							
1206	CD1	CD1	. LEU LEU LEU A A 162 162 .	0.3098	0.4974	0.4908	0.0068	-0.0299	-
0.0232	1	.							
1207	CD2	CD2	. LEU LEU LEU A A 162 162 .	0.2492	0.4787	0.5213	-0.0160	-0.0137	-
0.0187	1	.							
1208	C	C	. LEU LEU LEU A A 162 162 .	0.4155	0.4402	0.4499	0.0128	0.0089	-
0.0141	1	.							
1209	O	O	. LEU LEU LEU A A 162 162 .	0.3814	0.4293	0.4327	0.0199	0.0000	-
0.0324	1	.							
1210	N	N	. ALA ALA ALA A A 163 163 .	0.4211	0.4375	0.4491	0.0115	0.0097	-
0.0069	1	.							
1211	CA	CA	. ALA ALA ALA A A 163 163 .	0.4236	0.4401	0.4428	0.0024	0.0064	-
0.0011	1	.							
1212	CB	CB	. ALA ALA ALA A A 163 163 .	0.4048	0.4462	0.4492	0.0011	-0.0008	-
0.0041	1	.							



1243	CB	CB	. PHE PHE PHE A A 167 167 .	0.3136	0.3596	0.3988	0.0074	0.0021	
0.0025	1	.							
1244	CG	CG	. PHE PHE PHE A A 167 167 .	0.3459	0.4145	0.4207	0.0113	-0.0046	-
0.0223	1	.							
1245	CD1	CD1	. PHE PHE PHE A A 167 167 .	0.3338	0.4494	0.4169	0.0055	0.0113	-
0.0265	1	.							
1246	CE1	CE1	. PHE PHE PHE A A 167 167 .	0.3912	0.4629	0.4380	0.0313	-0.0144	-
0.0454	1	.							
1247	CZ	CZ	. PHE PHE PHE A A 167 167 .	0.3318	0.4632	0.3878	0.0087	-0.0017	-
0.0304	1	.							
1248	CE2	CE2	. PHE PHE PHE A A 167 167 .	0.3649	0.4327	0.4386	0.0363	-0.0201	-
0.0705	1	.							
1249	CD2	CD2	. PHE PHE PHE A A 167 167 .	0.3250	0.4340	0.4032	0.0016	-0.0084	-
0.0586	1	.							
1250	C	C	. PHE PHE PHE A A 167 167 .	0.3226	0.3758	0.3849	-0.0003	0.0025	-
0.0089	1	.							
1251	O	O	. PHE PHE PHE A A 167 167 .	0.2979	0.3826	0.3870	0.0075	-0.0023	-
0.0081	1	.							
1252	N	N	. MET MET MET A A 168 168 .	0.3443	0.3776	0.3836	-0.0096	0.0045	-
0.0162	1	.							
1253	CA	CA	. MET MET MET A A 168 168 .	0.3618	0.3845	0.3864	0.0004	0.0050	-
0.0189	1	.							
1254	CB	CB	. MET MET MET A A 168 168 .	0.3527	0.3936	0.3916	-0.0120	0.0035	-
0.0214	1	.							
1255	CG	CG	. MET MET MET A A 168 168 .	0.4189	0.4068	0.4113	0.0219	0.0301	-
0.0223	1	.							
1256	SD	SD	. MET MET MET A A 168 168 .	0.3942	0.4290	0.5121	0.0073	-0.0233	-
0.0298	1	.							
1257	CE	CE	. MET MET MET A A 168 168 .	0.3619	0.3417	0.4061	0.0121	-0.0359	-
0.0281	1	.							
1258	C	C	. MET MET MET A A 168 168 .	0.3643	0.3983	0.3894	0.0018	-0.0005	-
0.0144	1	.							
1259	O	O	. MET MET MET A A 168 168 .	0.3901	0.3999	0.3954	0.0057	-0.0007	-
0.0332	1	.							
1260	N	N	. ILE ILE ILE A A 169 169 .	0.3726	0.4048	0.3851	-0.0030	-0.0046	-
0.0115	1	.							
1261	CA	CA	. ILE ILE ILE A A 169 169 .	0.3508	0.3982	0.3854	-0.0042	-0.0021	-
0.0104	1	.							
1262	CB	CB	. ILE ILE ILE A A 169 169 .	0.3556	0.4056	0.3931	-0.0150	-0.0014	-
0.0115	1	.							
1263	CG1	CG1	. ILE ILE ILE A A 169 169 .	0.3044	0.3937	0.4017	-0.0280	0.0033	-
0.0103	1	.							
1264	CD1	CD1	. ILE ILE ILE A A 169 169 .	0.1588	0.3785	0.4701	-0.1122	-0.0232	
0.0098	1	.							
1265	CG2	CG2	. ILE ILE ILE A A 169 169 .	0.3279	0.4110	0.4060	0.0086	0.0006	-
0.0215	1	.							
1266	C	C	. ILE ILE ILE A A 169 169 .	0.3676	0.3997	0.3786	-0.0107	0.0006	-
0.0062	1	.							
1267	O	O	. ILE ILE ILE A A 169 169 .	0.3428	0.4018	0.3740	0.0034	-0.0034	-
0.0070	1	.							
1268	N	N	. LEU LEU LEU A A 170 170 .	0.3623	0.3987	0.3795	-0.0133	-0.0019	-
0.0004	1	.							
1269	CA	CA	. LEU LEU LEU A A 170 170 .	0.3414	0.3804	0.3587	-0.0194	0.0040	
0.0081	1	.							
1270	CB	CB	. LEU LEU LEU A A 170 170 .	0.3197	0.3826	0.3702	-0.0168	0.0045	
0.0070	1	.							
1271	CG	CG	. LEU LEU LEU A A 170 170 .	0.3295	0.3894	0.3515	-0.0331	0.0160	-
0.0029	1	.							
1272	CD1	CD1	. LEU LEU LEU A A 170 170 .	0.3826	0.4164	0.3384	-0.0069	0.0593	
0.0184	1	.							





1303	CD	CD	. GLU GLU GLU A A	175 175	. 0.6684 0.7348 0.6063 -0.0429 0.0112	-
0.0147	1	.				
1304	OE1	OE1	. GLU GLU GLU A A	175 175	. 0.7551 0.7910 0.6483 -0.0333 -0.0709	
0.0016	1	.				
1305	OE2	OE2	. GLU GLU GLU A A	175 175	. 0.6653 0.7539 0.6470 -0.0796 0.0095	-
0.0348	1	.				
1306	C	C	. GLU GLU GLU A A	175 175	. 0.4469 0.4460 0.4263 0.0183 0.0148	
0.0035	1	.				
1307	O	O	. GLU GLU GLU A A	175 175	. 0.4759 0.4577 0.4172 0.0147 0.0211	-
0.0033	1	.				
1308	N	N	. SER SER SER A A	176 176	. 0.4248 0.4080 0.4044 0.0249 0.0123	
0.0148	1	.				
1309	CA	CA	. SER SER SER A A	176 176	. 0.4008 0.3983 0.3952 0.0227 0.0038	
0.0115	1	.				
1310	CB	CB	. SER SER SER A A	176 176	. 0.4273 0.4041 0.4039 0.0345 0.0065	
0.0132	1	.				
1311	OG	OG	. SER SER SER A A	176 176	. 0.4321 0.4012 0.4480 0.0162 0.0293	
0.0371	1	.				
1312	C	C	. SER SER SER A A	176 176	. 0.3835 0.3848 0.3825 0.0195 -0.0029	
0.0098	1	.				
1313	O	O	. SER SER SER A A	176 176	. 0.3500 0.3669 0.3788 0.0223 -0.0229	
0.0018	1	.				
1314	N	N	. PHE PHE PHE A A	177 177	. 0.3740 0.3701 0.3703 0.0235 0.0017	
0.0042	1	.				
1315	CA	CA	. PHE PHE PHE A A	177 177	. 0.3763 0.3751 0.3642 0.0181 -0.0065	
0.0075	1	.				
1316	CB	CB	. PHE PHE PHE A A	177 177	. 0.3699 0.3637 0.3541 0.0221 -0.0019	-
0.0015	1	.				
1317	CG	CG	. PHE PHE PHE A A	177 177	. 0.3393 0.3983 0.3488 0.0129 0.0233	
0.0250	1	.				
1318	CD1	CD1	. PHE PHE PHE A A	177 177	. 0.2917 0.3567 0.3119 0.0230 0.0184	
0.0077	1	.				
1319	CE1	CE1	. PHE PHE PHE A A	177 177	. 0.2600 0.3817 0.3220 -0.0073 0.0039	-
0.0153	1	.				
1320	CZ	CZ	. PHE PHE PHE A A	177 177	. 0.2607 0.3838 0.2907 0.0194 0.0217	-
0.0028	1	.				
1321	CE2	CE2	. PHE PHE PHE A A	177 177	. 0.3629 0.4165 0.3664 0.0522 0.0367	
0.0117	1	.				
1322	CD2	CD2	. PHE PHE PHE A A	177 177	. 0.2965 0.3898 0.3295 0.0166 0.0203	-
0.0208	1	.				
1323	C	C	. PHE PHE PHE A A	177 177	. 0.3713 0.3803 0.3667 0.0181 -0.0094	
0.0026	1	.				
1324	O	O	. PHE PHE PHE A A	177 177	. 0.3358 0.3634 0.3601 0.0337 -0.0145	
0.0063	1	.				
1325	N	N	. ARG ARG ARG A A	178 178	. 0.3681 0.3745 0.3839 0.0277 -0.0052	-
0.0045	1	.				
1326	CA	CA	. ARG ARG ARG A A	178 178	. 0.3758 0.3902 0.3883 0.0189 -0.0009	
0.0017	1	.				
1327	CB	CB	. ARG ARG ARG A A	178 178	. 0.3759 0.4130 0.4164 0.0161 -0.0144	
0.0071	1	.				
1328	CG	CG	. ARG ARG ARG A A	178 178	. 0.4797 0.4923 0.4588 0.0175 0.0003	
0.0346	1	.				
1329	CD	CD	. ARG ARG ARG A A	178 178	. 0.5479 0.5934 0.6207 0.0614 -0.0102	
0.0344	1	.				
1330	NE	NE	. ARG ARG ARG A A	178 178	. 0.6880 0.6894 0.6447 0.0447 -0.0291	
0.0475	1	.				
1331	CZ	CZ	. ARG ARG ARG A A	178 178	. 0.7952 0.7173 0.7246 0.0194 -0.0376	
0.0242	1	.				
1332	NH1	NH1	. ARG ARG ARG A A	178 178	. 0.7780 0.7277 0.7182 0.0302 -0.0434	
0.0290	1	.				

1333	NH2	NH2	. ARG ARG ARG A A 178 178 .	0.8251	0.7592	0.6901	0.0060	-0.0467	
0.0098	1	.							
1334	C	C	. ARG ARG ARG A A 178 178 .	0.3566	0.3987	0.3856	0.0159	0.0019	
0.0013	1	.							
1335	O	O	. ARG ARG ARG A A 178 178 .	0.3419	0.4051	0.3822	0.0260	0.0087	-
0.0048	1	.							
1336	N	N	. ASP ASP ASP A A 179 179 .	0.3345	0.3785	0.3570	0.0149	-0.0028	-
0.0039	1	.							
1337	CA	CA	. ASP ASP ASP A A 179 179 .	0.3409	0.3755	0.3565	0.0178	-0.0038	-
0.0095	1	.							
1338	CB	CB	. ASP ASP ASP A A 179 179 .	0.3660	0.4004	0.3689	0.0080	-0.0031	
0.0040	1	.							
1339	CG	CG	. ASP ASP ASP A A 179 179 .	0.4207	0.4270	0.4093	0.0173	-0.0118	-
0.0038	1	.							
1340	OD1	OD1	. ASP ASP ASP A A 179 179 .	0.4798	0.5167	0.4205	0.0122	-0.0291	
0.0427	1	.							
1341	OD2	OD2	. ASP ASP ASP A A 179 179 .	0.4746	0.4864	0.4595	0.0684	-0.0116	
0.0109	1	.							
1342	C	C	. ASP ASP ASP A A 179 179 .	0.3265	0.3605	0.3359	0.0130	0.0055	-
0.0028	1	.							
1343	O	O	. ASP ASP ASP A A 179 179 .	0.3089	0.3700	0.3243	0.0210	-0.0075	-
0.0210	1	.							
1344	N	N	. ALA ALA ALA A A 180 180 .	0.3183	0.3603	0.3405	0.0283	0.0113	-
0.0161	1	.							
1345	CA	CA	. ALA ALA ALA A A 180 180 .	0.3388	0.3515	0.3318	0.0225	0.0014	
0.0011	1	.							
1346	CB	CB	. ALA ALA ALA A A 180 180 .	0.3181	0.3263	0.3484	0.0160	0.0044	
0.0043	1	.							
1347	C	C	. ALA ALA ALA A A 180 180 .	0.3341	0.3464	0.3299	0.0167	0.0073	-
0.0052	1	.							
1348	O	O	. ALA ALA ALA A A 180 180 .	0.3337	0.3226	0.3290	0.0176	-0.0028	-
0.0177	1	.							
1349	N	N	. MET MET MET A A 181 181 .	0.3433	0.3462	0.3229	-0.0044	0.0030	-
0.0182	1	.							
1350	CA	CA	. MET MET MET A A 181 181 .	0.3457	0.3541	0.3383	0.0039	0.0092	-
0.0076	1	.							
1351	CB	CB	. MET MET MET A A 181 181 .	0.3588	0.3620	0.3419	0.0033	0.0084	-
0.0044	1	.							
1352	CG	CG	. MET MET MET A A 181 181 .	0.3752	0.3424	0.3216	0.0128	0.0334	-
0.0097	1	.							
1353	SD	SD	. MET MET MET A A 181 181 .	0.4095	0.3529	0.3315	0.0041	-0.0073	
0.0285	1	.							
1354	CE	CE	. MET MET MET A A 181 181 .	0.3859	0.3083	0.2822	-0.0003	0.0201	
0.0182	1	.							
1355	C	C	. MET MET MET A A 181 181 .	0.3478	0.3644	0.3451	0.0068	0.0127	-
0.0099	1	.							
1356	O	O	. MET MET MET A A 181 181 .	0.3084	0.3808	0.3549	0.0315	0.0293	-
0.0237	1	.							
1357	N	N	. ARG ARG ARG A A 182 182 .	0.3093	0.3567	0.3311	0.0235	0.0172	-
0.0083	1	.							
1358	CA	CA	. ARG ARG ARG A A 182 182 .	0.3276	0.3454	0.3355	0.0018	0.0072	-
0.0138	1	.							
1359	CB	CB	. ARG ARG ARG A A 182 182 .	0.3465	0.3441	0.3436	0.0109	-0.0063	-
0.0024	1	.							
1360	CG	CG	. ARG ARG ARG A A 182 182 .	0.3545	0.3775	0.3662	-0.0408	-0.0252	-
0.0198	1	.							
1361	CD	CD	. ARG ARG ARG A A 182 182 .	0.4160	0.4339	0.5370	0.0644	-0.0006	-
0.0164	1	.							
1362	NE	NE	. ARG ARG ARG A A 182 182 .	0.5332	0.4912	0.6000	0.0506	0.0326	-
0.0215	1	.							



1393	O	O	. GLU GLU GLU A A 186 186 .	0.2865	0.3593	0.3658	-0.0077	0.0297	-
0.0051	1	.							
1394	N	N	. VAL VAL VAL A A 187 187 .	0.3220	0.3286	0.3481	-0.0017	0.0128	-
0.0159	1	.							
1395	CA	CA	. VAL VAL VAL A A 187 187 .	0.3211	0.3196	0.3313	-0.0068	0.0064	-
0.0254	1	.							
1396	CB	CB	. VAL VAL VAL A A 187 187 .	0.3132	0.3159	0.3309	-0.0018	0.0117	-
0.0227	1	.							
1397	CG1	CG1	. VAL VAL VAL A A 187 187 .	0.3399	0.2940	0.3118	-0.0085	0.0060	-
0.0504	1	.							
1398	CG2	CG2	. VAL VAL VAL A A 187 187 .	0.3618	0.3065	0.3265	0.0021	0.0058	-
0.0048	1	.							
1399	C	C	. VAL VAL VAL A A 187 187 .	0.3228	0.3413	0.3738	-0.0087	0.0155	-
0.0142	1	.							
1400	O	O	. VAL VAL VAL A A 187 187 .	0.3163	0.3306	0.4102	-0.0106	0.0183	-
0.0188	1	.							
1401	N	N	. TYR TYR TYR A A 188 188 .	0.3370	0.3559	0.3674	-0.0151	0.0193	-
0.0232	1	.							
1402	CA	CA	. TYR TYR TYR A A 188 188 .	0.3515	0.3680	0.3584	-0.0146	0.0083	-
0.0121	1	.							
1403	CB	CB	. TYR TYR TYR A A 188 188 .	0.3797	0.3693	0.3510	-0.0202	0.0125	-
0.0035	1	.							
1404	CG	CG	. TYR TYR TYR A A 188 188 .	0.3754	0.3385	0.3424	-0.0192	0.0157	-
0.0018	1	.							
1405	CD1	CD1	. TYR TYR TYR A A 188 188 .	0.3160	0.3607	0.3332	-0.0277	-0.0175	-
0.0133	1	.							
1406	CE1	CE1	. TYR TYR TYR A A 188 188 .	0.3779	0.3987	0.3680	-0.0438	-0.0002	-
0.0088	1	.							
1407	CZ	CZ	. TYR TYR TYR A A 188 188 .	0.3506	0.3857	0.3972	-0.0426	-0.0058	-
0.0161	1	.							
1408	OH	OH	. TYR TYR TYR A A 188 188 .	0.3576	0.4466	0.4366	-0.0312	0.0354	-
0.0065	1	.							
1409	CE2	CE2	. TYR TYR TYR A A 188 188 .	0.3984	0.3852	0.4112	-0.0138	0.0000	-
0.0285	1	.							
1410	CD2	CD2	. TYR TYR TYR A A 188 188 .	0.3547	0.3620	0.3163	-0.0413	-0.0124	-
0.0254	1	.							
1411	C	C	. TYR TYR TYR A A 188 188 .	0.3656	0.3718	0.3712	-0.0094	0.0008	-
0.0154	1	.							
1412	O	O	. TYR TYR TYR A A 188 188 .	0.3754	0.3795	0.3610	-0.0175	0.0127	-
0.0191	1	.							
1413	N	N	. HIS HIS HIS A A 189 189 .	0.3624	0.3759	0.3770	0.0025	0.0038	-
0.0228	1	.							
1414	CA	CA	. HIS HIS HIS A A 189 189 .	0.3596	0.3816	0.3885	-0.0015	-0.0055	-
0.0117	1	.							
1415	CB	CB	. HIS HIS HIS A A 189 189 .	0.3473	0.3955	0.3976	-0.0063	-0.0069	-
0.0158	1	.							
1416	CG	CG	. HIS HIS HIS A A 189 189 .	0.4007	0.4135	0.4226	-0.0191	-0.0116	-
0.0253	1	.							
1417	ND1	ND1	. HIS HIS HIS A A 189 189 .	0.4600	0.4577	0.4211	-0.0722	0.0072	-
0.0038	1	.							
1418	CE1	CE1	. HIS HIS HIS A A 189 189 .	0.4552	0.4849	0.3521	-0.0533	-0.0354	-
0.0360	1	.							
1419	NE2	NE2	. HIS HIS HIS A A 189 189 .	0.3702	0.4427	0.4194	-0.0127	-0.0775	-
0.0764	1	.							
1420	CD2	CD2	. HIS HIS HIS A A 189 189 .	0.4037	0.4077	0.4347	-0.0012	-0.0141	-
0.0316	1	.							
1421	C	C	. HIS HIS HIS A A 189 189 .	0.3382	0.3843	0.3861	0.0012	-0.0044	-
0.0082	1	.							
1422	O	O	. HIS HIS HIS A A 189 189 .	0.3401	0.3747	0.3956	-0.0015	-0.0219	-
0.0042	1	.							

1423	N	N	. THR THR THR A A 190 190 .	0.3318	0.3945	0.3906	0.0002	0.0033	-
0.0065	1	.							
1424	CA	CA	. THR THR THR A A 190 190 .	0.3559	0.3902	0.3867	0.0018	0.0075	-
0.0096	1	.							
1425	CB	CB	. THR THR THR A A 190 190 .	0.3493	0.3935	0.3764	-0.0012	0.0090	-
0.0018	1	.							
1426	OG1	OG1	. THR THR THR A A 190 190 .	0.3570	0.4116	0.3941	-0.0062	0.0389	-
0.0058	1	.							
1427	CG2	CG2	. THR THR THR A A 190 190 .	0.3518	0.3910	0.3258	-0.0098	0.0024	-
0.0253	1	.							
1428	C	C	. THR THR THR A A 190 190 .	0.3515	0.3994	0.3974	-0.0056	0.0025	-
0.0025	1	.							
1429	O	O	. THR THR THR A A 190 190 .	0.3640	0.4012	0.4033	-0.0030	-0.0028	-
0.0127	1	.							
1430	N	N	. LEU LEU LEU A A 191 191 .	0.3585	0.3828	0.4010	0.0003	0.0025	-
0.0149	1	.							
1431	CA	CA	. LEU LEU LEU A A 191 191 .	0.3706	0.3923	0.4043	-0.0139	-0.0098	-
0.0133	1	.							
1432	CB	CB	. LEU LEU LEU A A 191 191 .	0.3631	0.3887	0.4042	-0.0163	-0.0138	-
0.0073	1	.							
1433	CG	CG	. LEU LEU LEU A A 191 191 .	0.3304	0.3682	0.3699	-0.0324	-0.0288	-
0.0067	1	.							
1434	CD1	CD1	. LEU LEU LEU A A 191 191 .	0.3051	0.3936	0.3394	-0.0524	-0.0002	-
0.0185	1	.							
1435	CD2	CD2	. LEU LEU LEU A A 191 191 .	0.2792	0.3736	0.3345	-0.0432	-0.0369	-
0.0130	1	.							
1436	C	C	. LEU LEU LEU A A 191 191 .	0.3871	0.4029	0.4178	-0.0104	-0.0052	-
0.0248	1	.							
1437	O	O	. LEU LEU LEU A A 191 191 .	0.3933	0.4053	0.4386	-0.0303	0.0020	-
0.0498	1	.							
1438	N	N	. LYS LYS LYS A A 192 192 .	0.3896	0.4053	0.4107	-0.0165	-0.0138	-
0.0235	1	.							
1439	CA	CA	. LYS LYS LYS A A 192 192 .	0.3901	0.4124	0.4108	-0.0151	0.0015	-
0.0117	1	.							
1440	CB	CB	. LYS LYS LYS A A 192 192 .	0.3857	0.4135	0.3914	-0.0217	-0.0045	-
0.0185	1	.							
1441	CG	CG	. LYS LYS LYS A A 192 192 .	0.3934	0.4433	0.3676	-0.0284	-0.0080	-
0.0097	1	.							
1442	CD	CD	. LYS LYS LYS A A 192 192 .	0.3784	0.4638	0.3090	0.0151	-0.0331	-
0.0043	1	.							
1443	CE	CE	. LYS LYS LYS A A 192 192 .	0.4633	0.5167	0.3936	0.0046	-0.0725	-
0.0227	1	.							
1444	NZ	NZ	. LYS LYS LYS A A 192 192 .	0.4059	0.5298	0.4551	0.0054	-0.0765	-
0.0198	1	.							
1445	C	C	. LYS LYS LYS A A 192 192 .	0.3910	0.4221	0.4335	-0.0223	0.0011	-
0.0209	1	.							
1446	O	O	. LYS LYS LYS A A 192 192 .	0.3659	0.4325	0.4491	-0.0314	0.0071	-
0.0199	1	.							
1447	N	N	. GLY GLY GLY A A 193 193 .	0.3889	0.4239	0.4290	-0.0141	-0.0070	-
0.0191	1	.							
1448	CA	CA	. GLY GLY GLY A A 193 193 .	0.3896	0.4186	0.4195	-0.0210	-0.0022	-
0.0042	1	.							
1449	C	C	. GLY GLY GLY A A 193 193 .	0.4108	0.4245	0.4243	-0.0237	0.0008	-
0.0112	1	.							
1450	O	O	. GLY GLY GLY A A 193 193 .	0.4027	0.4474	0.4382	-0.0437	-0.0077	-
0.0159	1	.							
1451	N	N	. VAL VAL VAL A A 194 194 .	0.4105	0.4182	0.4073	-0.0085	-0.0034	-
0.0204	1	.							
1452	CA	CA	. VAL VAL VAL A A 194 194 .	0.4034	0.4142	0.4181	-0.0067	0.0091	-
0.0174	1	.							



1483	N	N	. LYS LYS LYS A A 198 198 .	0.4907	0.4881	0.5087	-0.0076	-0.0094	-
0.0120	1	.							
1484	CA	CA	. LYS LYS LYS A A 198 198 .	0.5056	0.4902	0.5088	-0.0040	-0.0104	-
0.0179	1	.							
1485	CB	CB	. LYS LYS LYS A A 198 198 .	0.5044	0.4743	0.4978	-0.0083	-0.0116	-
0.0123	1	.							
1486	CG	CG	. LYS LYS LYS A A 198 198 .	0.5550	0.5255	0.5246	0.0005	-0.0308	-
0.0113	1	.							
1487	CD	CD	. LYS LYS LYS A A 198 198 .	0.5636	0.5416	0.5183	-0.0058	-0.0574	-
0.0092	1	.							
1488	CE	CE	. LYS LYS LYS A A 198 198 .	0.5926	0.5719	0.5563	-0.0247	-0.0736	-
0.0152	1	.							
1489	NZ	NZ	. LYS LYS LYS A A 198 198 .	0.6113	0.6013	0.5240	-0.0376	-0.1389	-
0.0028	1	.							
1490	C	C	. LYS LYS LYS A A 198 198 .	0.5032	0.5123	0.5139	-0.0135	-0.0054	-
0.0133	1	.							
1491	O	O	. LYS LYS LYS A A 198 198 .	0.5202	0.5137	0.5415	-0.0327	0.0006	-
0.0169	1	.							
1492	N	N	. TYR TYR TYR A A 199 199 .	0.4952	0.5246	0.5037	-0.0059	-0.0054	-
0.0147	1	.							
1493	CA	CA	. TYR TYR TYR A A 199 199 .	0.4813	0.5113	0.4951	0.0016	-0.0110	-
0.0063	1	.							
1494	CB	CB	. TYR TYR TYR A A 199 199 .	0.4607	0.5141	0.4991	-0.0009	-0.0117	-
0.0020	1	.							
1495	CG	CG	. TYR TYR TYR A A 199 199 .	0.4501	0.5083	0.4879	-0.0009	-0.0007	-
0.0093	1	.							
1496	CD1	CD1	. TYR TYR TYR A A 199 199 .	0.3434	0.4895	0.5088	0.0113	0.0180	-
0.0003	1	.							
1497	CE1	CE1	. TYR TYR TYR A A 199 199 .	0.3984	0.4941	0.5139	-0.0155	-0.0086	-
0.0049	1	.							
1498	CZ	CZ	. TYR TYR TYR A A 199 199 .	0.4113	0.5182	0.5032	0.0271	-0.0060	-
0.0083	1	.							
1499	OH	OH	. TYR TYR TYR A A 199 199 .	0.4149	0.5444	0.5467	0.0173	-0.0357	-
0.0507	1	.							
1500	CE2	CE2	. TYR TYR TYR A A 199 199 .	0.4096	0.5316	0.5325	0.0044	-0.0051	-
0.0094	1	.							
1501	CD2	CD2	. TYR TYR TYR A A 199 199 .	0.4111	0.4662	0.4975	-0.0002	-0.0168	-
0.0043	1	.							
1502	C	C	. TYR TYR TYR A A 199 199 .	0.4824	0.5127	0.4831	0.0066	-0.0054	-
0.0018	1	.							
1503	O	O	. TYR TYR TYR A A 199 199 .	0.4882	0.5297	0.4711	0.0171	-0.0118	-
0.0026	1	.							
1504	N	N	. GLY GLY GLY A A 200 200 .	0.4793	0.5050	0.4732	0.0007	-0.0058	-
0.0082	1	.							
1505	CA	CA	. GLY GLY GLY A A 200 200 .	0.4675	0.4866	0.4685	-0.0006	-0.0124	-
0.0008	1	.							
1506	C	C	. GLY GLY GLY A A 200 200 .	0.4590	0.4782	0.4648	-0.0037	-0.0114	-
0.0022	1	.							
1507	O	O	. GLY GLY GLY A A 200 200 .	0.4128	0.4580	0.4219	-0.0051	-0.0299	-
0.0006	1	.							
1508	N	N	. LYS LYS LYS A A 201 201 .	0.4782	0.4868	0.4711	-0.0051	-0.0107	-
0.0119	1	.							
1509	CA	CA	. LYS LYS LYS A A 201 201 .	0.4959	0.5211	0.4962	-0.0015	-0.0098	-
0.0143	1	.							
1510	CB	CB	. LYS LYS LYS A A 201 201 .	0.5267	0.5503	0.4961	0.0000	-0.0097	-
0.0199	1	.							
1511	CG	CG	. LYS LYS LYS A A 201 201 .	0.5837	0.6335	0.5619	-0.0065	0.0107	-
0.0320	1	.							
1512	CD	CD	. LYS LYS LYS A A 201 201 .	0.6362	0.6939	0.6035	0.0005	0.0126	-
0.0550	1	.							





1543	C	C	. ASN ASN ASN A A 205 205 .	0.3668	0.4023	0.3997	-0.0079	0.0008	-
0.0120	1	.							
1544	O	O	. ASN ASN ASN A A 205 205 .	0.3964	0.4197	0.4199	-0.0223	0.0052	-
0.0219	1	.							
1545	N	N	. VAL VAL VAL A A 206 206 .	0.3680	0.3817	0.3879	-0.0082	0.0133	-
0.0108	1	.							
1546	CA	CA	. VAL VAL VAL A A 206 206 .	0.3389	0.3638	0.3809	-0.0088	0.0085	-
0.0096	1	.							
1547	CB	CB	. VAL VAL VAL A A 206 206 .	0.3412	0.3552	0.3828	-0.0132	0.0029	-
0.0060	1	.							
1548	CG1	CG1	. VAL VAL VAL A A 206 206 .	0.3193	0.3732	0.3789	0.0207	0.0019	-
0.0561	1	.							
1549	CG2	CG2	. VAL VAL VAL A A 206 206 .	0.2717	0.3489	0.3646	-0.0369	-0.0068	
0.0147	1	.							
1550	C	C	. VAL VAL VAL A A 206 206 .	0.3300	0.3737	0.3741	-0.0147	0.0106	
0.0017	1	.							
1551	O	O	. VAL VAL VAL A A 206 206 .	0.3163	0.3716	0.3884	-0.0224	0.0208	-
0.0012	1	.							
1552	N	N	. GLY GLY GLY A A 207 207 .	0.3291	0.3832	0.3652	-0.0062	0.0066	
0.0022	1	.							
1553	CA	CA	. GLY GLY GLY A A 207 207 .	0.3294	0.3607	0.3385	-0.0112	0.0146	
0.0023	1	.							
1554	C	C	. GLY GLY GLY A A 207 207 .	0.3311	0.3671	0.3350	-0.0022	0.0043	-
0.0021	1	.							
1555	O	O	. GLY GLY GLY A A 207 207 .	0.3281	0.3622	0.3127	0.0124	0.0236	
0.0029	1	.							
1556	N	N	. ASP ASP ASP A A 208 208 .	0.3184	0.3527	0.3228	-0.0011	0.0058	-
0.0066	1	.							
1557	CA	CA	. ASP ASP ASP A A 208 208 .	0.3493	0.3595	0.3446	0.0088	0.0152	-
0.0103	1	.							
1558	CB	CB	. ASP ASP ASP A A 208 208 .	0.3463	0.3718	0.3505	0.0314	0.0198	-
0.0109	1	.							
1559	CG	CG	. ASP ASP ASP A A 208 208 .	0.3324	0.3936	0.4037	0.0054	0.0379	-
0.0052	1	.							
1560	OD1	OD1	. ASP ASP ASP A A 208 208 .	0.2567	0.4208	0.4289	0.0161	0.0458	-
0.0129	1	.							
1561	OD2	OD2	. ASP ASP ASP A A 208 208 .	0.2599	0.3979	0.4724	-0.0162	0.0701	
0.0086	1	.							
1562	C	C	. ASP ASP ASP A A 208 208 .	0.3299	0.3493	0.3432	0.0110	0.0118	-
0.0161	1	.							
1563	O	O	. ASP ASP ASP A A 208 208 .	0.3442	0.3361	0.3361	0.0184	0.0300	-
0.0170	1	.							
1564	N	N	. GLU GLU GLU A A 209 209 .	0.3449	0.3661	0.3433	0.0064	0.0067	-
0.0151	1	.							
1565	CA	CA	. GLU GLU GLU A A 209 209 .	0.3707	0.3738	0.3533	0.0047	0.0002	-
0.0087	1	.							
1566	CB	CB	. GLU GLU GLU A A 209 209 .	0.3878	0.3721	0.3500	0.0059	0.0005	-
0.0110	1	.							
1567	CG	CG	. GLU GLU GLU A A 209 209 .	0.4437	0.3600	0.3717	0.0375	-0.0087	-
0.0195	1	.							
1568	CD	CD	. GLU GLU GLU A A 209 209 .	0.5330	0.3875	0.4087	0.0349	-0.0149	-
0.0163	1	.							
1569	OE1	OE1	. GLU GLU GLU A A 209 209 .	0.5695	0.3896	0.3866	0.0547	-0.0546	-
0.0488	1	.							
1570	OE2	OE2	. GLU GLU GLU A A 209 209 .	0.6010	0.3530	0.4162	0.0065	-0.0459	-
0.0212	1	.							
1571	C	C	. GLU GLU GLU A A 209 209 .	0.3721	0.3774	0.3532	0.0042	0.0004	-
0.0022	1	.							
1572	O	O	. GLU GLU GLU A A 209 209 .	0.3638	0.4104	0.3578	-0.0019	0.0110	-
0.0025	1	.							

1573	N	N	. GLY GLY GLY A A 210 210 .	0.3670	0.3816	0.3494	-0.0012	0.0123	-
0.0013	1	.							
1574	CA	CA	. GLY GLY GLY A A 210 210 .	0.3765	0.3646	0.3375	-0.0012	0.0029	
0.0054	1	.							
1575	C	C	. GLY GLY GLY A A 210 210 .	0.3505	0.3632	0.3465	-0.0125	0.0160	
0.0110	1	.							
1576	O	O	. GLY GLY GLY A A 210 210 .	0.3277	0.3837	0.3507	-0.0035	0.0294	-
0.0089	1	.							
1577	N	N	. GLY GLY GLY A A 211 211 .	0.3532	0.3748	0.3520	-0.0176	0.0110	
0.0096	1	.							
1578	CA	CA	. GLY GLY GLY A A 211 211 .	0.3680	0.3750	0.3635	-0.0121	0.0092	-
0.0026	1	.							
1579	C	C	. GLY GLY GLY A A 211 211 .	0.3561	0.3861	0.3763	-0.0091	0.0033	-
0.0099	1	.							
1580	O	O	. GLY GLY GLY A A 211 211 .	0.3668	0.4163	0.3954	-0.0014	-0.0021	-
0.0141	1	.							
1581	N	N	. PHE PHE PHE A A 212 212 .	0.3659	0.3683	0.3749	-0.0004	0.0017	
0.0005	1	.							
1582	CA	CA	. PHE PHE PHE A A 212 212 .	0.3520	0.3685	0.3844	-0.0011	0.0066	-
0.0051	1	.							
1583	CB	CB	. PHE PHE PHE A A 212 212 .	0.3400	0.3542	0.3705	-0.0065	0.0121	-
0.0048	1	.							
1584	CG	CG	. PHE PHE PHE A A 212 212 .	0.3268	0.3085	0.3654	-0.0180	0.0047	-
0.0070	1	.							
1585	CD1	CD1	. PHE PHE PHE A A 212 212 .	0.2851	0.2799	0.3528	-0.0342	0.0142	
0.0044	1	.							
1586	CE1	CE1	. PHE PHE PHE A A 212 212 .	0.3296	0.3431	0.3732	-0.0014	-0.0170	
0.0306	1	.							
1587	CZ	CZ	. PHE PHE PHE A A 212 212 .	0.2168	0.3902	0.3544	-0.0322	-0.0021	-
0.0423	1	.							
1588	CE2	CE2	. PHE PHE PHE A A 212 212 .	0.3435	0.3682	0.3829	0.0103	-0.0139	-
0.0497	1	.							
1589	CD2	CD2	. PHE PHE PHE A A 212 212 .	0.3035	0.3068	0.3715	-0.0022	-0.0010	-
0.0440	1	.							
1590	C	C	. PHE PHE PHE A A 212 212 .	0.3621	0.3841	0.3930	-0.0007	-0.0070	-
0.0010	1	.							
1591	O	O	. PHE PHE PHE A A 212 212 .	0.3613	0.4131	0.3961	0.0039	-0.0257	-
0.0108	1	.							
1592	N	N	. ALA ALA ALA A A 213 213 .	0.3419	0.3889	0.4017	-0.0052	0.0014	-
0.0099	1	.							
1593	CA	CA	. ALA ALA ALA A A 213 213 .	0.3859	0.4094	0.4192	-0.0040	0.0028	-
0.0024	1	.							
1594	CB	CB	. ALA ALA ALA A A 213 213 .	0.3909	0.4265	0.4265	-0.0106	-0.0065	-
0.0149	1	.							
1595	C	C	. ALA ALA ALA A A 213 213 .	0.3598	0.4189	0.4221	-0.0032	-0.0007	-
0.0008	1	.							
1596	O	O	. ALA ALA ALA A A 213 213 .	0.3461	0.4456	0.4259	0.0019	0.0019	
0.0084	1	.							
1597	N	N	. PRO PRO PRO A A 214 214 .	0.3631	0.4115	0.4141	0.0018	-0.0005	-
0.0004	1	.							
1598	CA	CA	. PRO PRO PRO A A 214 214 .	0.3846	0.4273	0.4316	0.0034	0.0032	
0.0065	1	.							
1599	CB	CB	. PRO PRO PRO A A 214 214 .	0.3462	0.4075	0.4209	0.0103	-0.0043	
0.0028	1	.							
1600	CG	CG	. PRO PRO PRO A A 214 214 .	0.3507	0.4252	0.4130	0.0013	-0.0032	
0.0032	1	.							
1601	CD	CD	. PRO PRO PRO A A 214 214 .	0.3766	0.4065	0.4156	-0.0030	0.0116	
0.0077	1	.							
1602	C	C	. PRO PRO PRO A A 214 214 .	0.4041	0.4377	0.4557	0.0061	0.0071	
0.0096	1	.							

1603	O	O	. PRO PRO PRO A A 214 214 .	0.3758	0.4299	0.4688	0.0014	0.0162	
0.0219	1	.							
1604	N	N	. ASN ASN ASN A A 215 215 .	0.4603	0.4803	0.4839	0.0007	0.0078	
0.0122	1	.							
1605	CA	CA	. ASN ASN ASN A A 215 215 .	0.4961	0.5099	0.5208	-0.0004	0.0017	
0.0075	1	.							
1606	CB	CB	. ASN ASN ASN A A 215 215 .	0.5226	0.5418	0.5274	0.0002	-0.0063	
0.0134	1	.							
1607	CG	CG	. ASN ASN ASN A A 215 215 .	0.5970	0.5673	0.6069	-0.0112	-0.0384	
0.0213	1	.							
1608	OD1	OD1	. ASN ASN ASN A A 215 215 .	0.6872	0.6457	0.6377	-0.0538	-0.1119	
0.0005	1	.							
1609	ND2	ND2	. ASN ASN ASN A A 215 215 .	0.6193	0.6231	0.6510	0.0039	-0.0466	
0.0449	1	.							
1610	C	C	. ASN ASN ASN A A 215 215 .	0.5037	0.5184	0.5193	-0.0035	0.0070	
0.0020	1	.							
1611	O	O	. ASN ASN ASN A A 215 215 .	0.5131	0.5193	0.5411	-0.0053	0.0160	-
0.0035	1	.							
1612	N	N	. ILE ILE ILE A A 216 216 .	0.5052	0.5218	0.5203	-0.0082	0.0070	
0.0010	1	.							
1613	CA	CA	. ILE ILE ILE A A 216 216 .	0.4913	0.5234	0.5267	-0.0080	0.0046	-
0.0031	1	.							
1614	CB	CB	. ILE ILE ILE A A 216 216 .	0.4811	0.5103	0.5119	-0.0143	0.0013	-
0.0107	1	.							
1615	CG1	CG1	. ILE ILE ILE A A 216 216 .	0.4930	0.5081	0.5136	-0.0092	0.0224	-
0.0079	1	.							
1616	CD1	CD1	. ILE ILE ILE A A 216 216 .	0.4988	0.5149	0.5152	-0.0443	0.0006	-
0.0283	1	.							
1617	CG2	CG2	. ILE ILE ILE A A 216 216 .	0.4164	0.5135	0.5210	-0.0223	-0.0255	-
0.0208	1	.							
1618	C	C	. ILE ILE ILE A A 216 216 .	0.5029	0.5313	0.5279	-0.0036	0.0082	
0.0016	1	.							
1619	O	O	. ILE ILE ILE A A 216 216 .	0.5036	0.5346	0.5441	-0.0009	0.0182	
0.0046	1	.							
1620	N	N	. LEU LEU LEU A A 217 217 .	0.5162	0.5443	0.5306	-0.0003	0.0080	
0.0023	1	.							
1621	CA	CA	. LEU LEU LEU A A 217 217 .	0.5204	0.5370	0.5348	0.0005	0.0076	
0.0050	1	.							
1622	CB	CB	. LEU LEU LEU A A 217 217 .	0.5189	0.5357	0.5364	-0.0028	0.0087	
0.0035	1	.							
1623	CG	CG	. LEU LEU LEU A A 217 217 .	0.5416	0.5688	0.5736	0.0000	0.0030	
0.0214	1	.							
1624	CD1	CD1	. LEU LEU LEU A A 217 217 .	0.5932	0.5502	0.5830	0.0113	0.0056	
0.0474	1	.							
1625	CD2	CD2	. LEU LEU LEU A A 217 217 .	0.5362	0.6350	0.6328	0.0072	-0.0044	
0.0297	1	.							
1626	C	C	. LEU LEU LEU A A 217 217 .	0.5130	0.5340	0.5270	-0.0042	0.0118	
0.0012	1	.							
1627	O	O	. LEU LEU LEU A A 217 217 .	0.5366	0.5460	0.5349	-0.0001	0.0065	
0.0016	1	.							
1628	N	N	. GLU GLU GLU A A 218 218 .	0.4941	0.5312	0.5267	-0.0050	0.0158	-
0.0013	1	.							
1629	CA	CA	. GLU GLU GLU A A 218 218 .	0.4915	0.5335	0.5160	-0.0107	0.0151	
0.0099	1	.							
1630	CB	CB	. GLU GLU GLU A A 218 218 .	0.4957	0.5437	0.5171	-0.0158	0.0135	
0.0044	1	.							
1631	CG	CG	. GLU GLU GLU A A 218 218 .	0.5572	0.6346	0.5943	-0.0239	0.0160	
0.0340	1	.							
1632	CD	CD	. GLU GLU GLU A A 218 218 .	0.6319	0.7233	0.6686	-0.0228	-0.0052	
0.0593	1	.							



1663	C	C	. ALA ALA ALA A A 222 222 .	0.4607	0.4920	0.4747	-0.0137	-0.0102	
0.0052	1	.							
1664	O	O	. ALA ALA ALA A A 222 222 .	0.4610	0.5007	0.4711	-0.0115	-0.0246	
0.0153	1	.							
1665	N	N	. LEU LEU LEU A A 223 223 .	0.4765	0.4875	0.4715	-0.0087	-0.0062	
0.0042	1	.							
1666	CA	CA	. LEU LEU LEU A A 223 223 .	0.4806	0.4790	0.4732	-0.0035	0.0012	-
0.0050	1	.							
1667	CB	CB	. LEU LEU LEU A A 223 223 .	0.4831	0.4745	0.4627	0.0000	0.0016	-
0.0034	1	.							
1668	CG	CG	. LEU LEU LEU A A 223 223 .	0.4785	0.4870	0.4739	-0.0122	-0.0140	
0.0048	1	.							
1669	CD1	CD1	. LEU LEU LEU A A 223 223 .	0.4606	0.4755	0.5267	0.0119	-0.0022	
0.0133	1	.							
1670	CD2	CD2	. LEU LEU LEU A A 223 223 .	0.4917	0.4778	0.4838	0.0248	0.0208	
0.0326	1	.							
1671	C	C	. LEU LEU LEU A A 223 223 .	0.4804	0.4774	0.4808	-0.0013	0.0053	-
0.0058	1	.							
1672	O	O	. LEU LEU LEU A A 223 223 .	0.4971	0.4796	0.4726	-0.0090	0.0215	-
0.0204	1	.							
1673	N	N	. GLU GLU GLU A A 224 224 .	0.4666	0.4784	0.4875	-0.0035	0.0056	-
0.0111	1	.							
1674	CA	CA	. GLU GLU GLU A A 224 224 .	0.4677	0.4875	0.4953	0.0069	-0.0074	-
0.0006	1	.							
1675	CB	CB	. GLU GLU GLU A A 224 224 .	0.4926	0.4984	0.4931	0.0053	0.0012	-
0.0009	1	.							
1676	CG	CG	. GLU GLU GLU A A 224 224 .	0.5670	0.5323	0.5607	0.0077	-0.0126	-
0.0137	1	.							
1677	CD	CD	. GLU GLU GLU A A 224 224 .	0.6548	0.6233	0.6152	0.0424	-0.0304	-
0.0524	1	.							
1678	OE1	OE1	. GLU GLU GLU A A 224 224 .	0.7212	0.5978	0.6866	0.0831	-0.0591	-
0.0510	1	.							
1679	OE2	OE2	. GLU GLU GLU A A 224 224 .	0.6660	0.6908	0.6308	0.0433	-0.0677	-
0.0748	1	.							
1680	C	C	. GLU GLU GLU A A 224 224 .	0.4543	0.4903	0.4892	-0.0002	-0.0071	-
0.0036	1	.							
1681	O	O	. GLU GLU GLU A A 224 224 .	0.4001	0.4971	0.5094	0.0204	-0.0176	
0.0167	1	.							
1682	N	N	. LEU LEU LEU A A 225 225 .	0.4371	0.4874	0.4681	-0.0018	-0.0013	
0.0012	1	.							
1683	CA	CA	. LEU LEU LEU A A 225 225 .	0.4491	0.4709	0.4613	-0.0103	0.0044	-
0.0078	1	.							
1684	CB	CB	. LEU LEU LEU A A 225 225 .	0.4390	0.4694	0.4494	-0.0025	0.0171	-
0.0076	1	.							
1685	CG	CG	. LEU LEU LEU A A 225 225 .	0.4604	0.4571	0.4617	0.0010	0.0271	-
0.0090	1	.							
1686	CD1	CD1	. LEU LEU LEU A A 225 225 .	0.4018	0.4695	0.4467	0.0466	0.0775	-
0.0126	1	.							
1687	CD2	CD2	. LEU LEU LEU A A 225 225 .	0.3964	0.4680	0.4527	-0.0224	0.0241	
0.0102	1	.							
1688	C	C	. LEU LEU LEU A A 225 225 .	0.4359	0.4551	0.4498	-0.0073	0.0044	-
0.0136	1	.							
1689	O	O	. LEU LEU LEU A A 225 225 .	0.4559	0.4450	0.4555	-0.0169	0.0041	-
0.0290	1	.							
1690	N	N	. VAL VAL VAL A A 226 226 .	0.4336	0.4553	0.4454	-0.0101	0.0057	-
0.0131	1	.							
1691	CA	CA	. VAL VAL VAL A A 226 226 .	0.4335	0.4520	0.4497	-0.0123	0.0006	-
0.0150	1	.							
1692	CB	CB	. VAL VAL VAL A A 226 226 .	0.4335	0.4465	0.4517	-0.0111	0.0056	-
0.0168	1	.							







1753	O	O	. GLY GLY GLY A A 234 234 .	0.4208	0.4217	0.4427	0.0176	-0.0089	-
0.0204	1	.							
1754	N	N	. TYR TYR TYR A A 235 235 .	0.4229	0.4310	0.4429	0.0021	-0.0037	-
0.0092	1	.							
1755	CA	CA	. TYR TYR TYR A A 235 235 .	0.4284	0.4307	0.4350	-0.0008	-0.0103	-
0.0080	1	.							
1756	CB	CB	. TYR TYR TYR A A 235 235 .	0.4427	0.4218	0.4285	0.0040	-0.0224	-
0.0059	1	.							
1757	CG	CG	. TYR TYR TYR A A 235 235 .	0.4163	0.4139	0.4204	-0.0202	-0.0257	-
0.0102	1	.							
1758	CD1	CD1	. TYR TYR TYR A A 235 235 .	0.4528	0.4393	0.4247	-0.0079	-0.0376	-
0.0189	1	.							
1759	CE1	CE1	. TYR TYR TYR A A 235 235 .	0.4639	0.4325	0.4032	0.0029	-0.0186	-
0.0122	1	.							
1760	CZ	CZ	. TYR TYR TYR A A 235 235 .	0.4596	0.3893	0.3940	0.0104	-0.0049	-
0.0106	1	.							
1761	OH	OH	. TYR TYR TYR A A 235 235 .	0.5098	0.4203	0.3262	0.0059	0.0357	
0.0330	1	.							
1762	CE2	CE2	. TYR TYR TYR A A 235 235 .	0.5035	0.3600	0.3984	0.0126	-0.0434	-
0.0137	1	.							
1763	CD2	CD2	. TYR TYR TYR A A 235 235 .	0.4307	0.3515	0.3826	0.0000	-0.0295	-
0.0509	1	.							
1764	C	C	. TYR TYR TYR A A 235 235 .	0.4366	0.4496	0.4380	0.0014	-0.0015	-
0.0132	1	.							
1765	O	O	. TYR TYR TYR A A 235 235 .	0.4030	0.4515	0.4138	-0.0013	0.0056	-
0.0193	1	.							
1766	N	N	. THR THR THR A A 236 236 .	0.4610	0.4715	0.4711	-0.0052	-0.0024	-
0.0102	1	.							
1767	CA	CA	. THR THR THR A A 236 236 .	0.4999	0.5075	0.5108	-0.0106	-0.0090	-
0.0040	1	.							
1768	CB	CB	. THR THR THR A A 236 236 .	0.5024	0.5033	0.5166	-0.0119	-0.0052	-
0.0068	1	.							
1769	OG1	OG1	. THR THR THR A A 236 236 .	0.5484	0.5194	0.5287	-0.0303	0.0191	
0.0229	1	.							
1770	CG2	CG2	. THR THR THR A A 236 236 .	0.4795	0.5304	0.5260	-0.0190	-0.0198	-
0.0167	1	.							
1771	C	C	. THR THR THR A A 236 236 .	0.5161	0.5205	0.5091	-0.0086	-0.0091	-
0.0005	1	.							
1772	O	O	. THR THR THR A A 236 236 .	0.5274	0.5243	0.5268	-0.0149	-0.0185	-
0.0064	1	.							
1773	N	N	. GLU GLU GLU A A 237 237 .	0.5311	0.5464	0.5204	-0.0111	-0.0058	-
0.0079	1	.							
1774	CA	CA	. GLU GLU GLU A A 237 237 .	0.5605	0.5573	0.5455	-0.0195	0.0030	-
0.0032	1	.							
1775	CB	CB	. GLU GLU GLU A A 237 237 .	0.5846	0.5846	0.5676	-0.0168	0.0090	-
0.0066	1	.							
1776	CG	CG	. GLU GLU GLU A A 237 237 .	0.6468	0.6441	0.6411	-0.0429	0.0219	-
0.0052	1	.							
1777	CD	CD	. GLU GLU GLU A A 237 237 .	0.7329	0.8087	0.6925	-0.0567	0.0156	-
0.0128	1	.							
1778	OE1	OE1	. GLU GLU GLU A A 237 237 .	0.7525	0.8407	0.7308	-0.0446	0.0640	-
0.0179	1	.							
1779	OE2	OE2	. GLU GLU GLU A A 237 237 .	0.7992	0.8711	0.7174	-0.0923	0.0774	-
0.0078	1	.							
1780	C	C	. GLU GLU GLU A A 237 237 .	0.5665	0.5440	0.5265	-0.0121	-0.0004	-
0.0028	1	.							
1781	O	O	. GLU GLU GLU A A 237 237 .	0.5908	0.5609	0.5266	-0.0206	-0.0025	-
0.0088	1	.							
1782	N	N	. LYS LYS LYS A A 238 238 .	0.5323	0.5147	0.4985	-0.0095	0.0047	-
0.0092	1	.							



1813	O	O	. ILE ILE ILE A A 241 241 .	0.4158	0.4182	0.4177	-0.0100	0.0070	-
0.0138	1	.							
1814	N	N	. GLY GLY GLY A A 242 242 .	0.3991	0.4207	0.4130	-0.0002	0.0077	-
0.0089	1	.							
1815	CA	CA	. GLY GLY GLY A A 242 242 .	0.3858	0.3996	0.4072	0.0020	0.0065	-
0.0048	1	.							
1816	C	C	. GLY GLY GLY A A 242 242 .	0.3956	0.4107	0.4183	-0.0073	0.0037	-
0.0050	1	.							
1817	O	O	. GLY GLY GLY A A 242 242 .	0.3836	0.4015	0.4195	-0.0210	0.0200	-
0.0052	1	.							
1818	N	N	. MET MET MET A A 243 243 .	0.3662	0.4229	0.4280	-0.0055	-0.0004	-
0.0142	1	.							
1819	CA	CA	. MET MET MET A A 243 243 .	0.3734	0.4264	0.4356	-0.0097	-0.0065	-
0.0157	1	.							
1820	CB	CB	. MET MET MET A A 243 243 .	0.3525	0.4384	0.4303	-0.0147	-0.0162	-
0.0188	1	.							
1821	CG	CG	. MET MET MET A A 243 243 .	0.3288	0.4444	0.4657	-0.0395	-0.0204	-
0.0435	1	.							
1822	SD	SD	. MET MET MET A A 243 243 .	0.3918	0.5931	0.5816	-0.0826	-0.0233	-
0.0944	1	.							
1823	CE	CE	. MET MET MET A A 243 243 .	0.1819	0.5640	0.6222	-0.0803	-0.0014	-
0.0652	1	.							
1824	C	C	. MET MET MET A A 243 243 .	0.3792	0.4255	0.4335	-0.0009	-0.0060	-
0.0043	1	.							
1825	O	O	. MET MET MET A A 243 243 .	0.3967	0.4279	0.4463	0.0017	-0.0041	
0.0090	1	.							
1826	N	N	. ASP ASP ASP A A 244 244 .	0.3661	0.4192	0.4180	0.0015	-0.0140	-
0.0111	1	.							
1827	CA	CA	. ASP ASP ASP A A 244 244 .	0.3784	0.4135	0.4145	0.0059	-0.0130	-
0.0019	1	.							
1828	CB	CB	. ASP ASP ASP A A 244 244 .	0.3590	0.4067	0.4167	0.0070	-0.0156	-
0.0016	1	.							
1829	CG	CG	. ASP ASP ASP A A 244 244 .	0.3811	0.4441	0.4348	-0.0008	-0.0379	
0.0078	1	.							
1830	OD1	OD1	. ASP ASP ASP A A 244 244 .	0.3365	0.4653	0.4580	-0.0368	-0.0405	
0.0421	1	.							
1831	OD2	OD2	. ASP ASP ASP A A 244 244 .	0.3084	0.4854	0.4452	-0.0269	-0.0750	
0.0016	1	.							
1832	C	C	. ASP ASP ASP A A 244 244 .	0.3743	0.4060	0.4072	0.0108	-0.0052	-
0.0019	1	.							
1833	O	O	. ASP ASP ASP A A 244 244 .	0.3709	0.4246	0.4248	0.0231	0.0030	-
0.0175	1	.							
1834	N	N	. VAL VAL VAL A A 245 245 .	0.3641	0.4067	0.4100	-0.0006	-0.0011	-
0.0021	1	.							
1835	CA	CA	. VAL VAL VAL A A 245 245 .	0.3732	0.4024	0.4032	0.0052	-0.0116	
0.0000	1	.							
1836	CB	CB	. VAL VAL VAL A A 245 245 .	0.3625	0.3980	0.3898	-0.0048	-0.0119	-
0.0042	1	.							
1837	CG1	CG1	. VAL VAL VAL A A 245 245 .	0.3948	0.4113	0.3978	0.0083	-0.0101	-
0.0082	1	.							
1838	CG2	CG2	. VAL VAL VAL A A 245 245 .	0.3532	0.3551	0.4071	0.0017	0.0032	
0.0169	1	.							
1839	C	C	. VAL VAL VAL A A 245 245 .	0.3718	0.4156	0.3960	-0.0039	-0.0196	
0.0026	1	.							
1840	O	O	. VAL VAL VAL A A 245 245 .	0.3519	0.4243	0.3929	-0.0215	-0.0321	
0.0160	1	.							
1841	N	N	. ALA ALA ALA A A 246 246 .	0.3619	0.4253	0.4015	-0.0005	-0.0202	
0.0008	1	.							
1842	CA	CA	. ALA ALA ALA A A 246 246 .	0.3721	0.4177	0.4148	0.0068	-0.0146	-
0.0089	1	.							



1873	CE2	CE2	. PHE PHE PHE A A 250 250 .	0.4873	0.5107	0.4875	0.0404	-0.0429	
0.0035	1	.							
1874	CD2	CD2	. PHE PHE PHE A A 250 250 .	0.4292	0.5019	0.5139	0.0623	-0.0159	
0.0058	1	.							
1875	C	C	. PHE PHE PHE A A 250 250 .	0.5447	0.5649	0.5643	0.0117	-0.0105	-
0.0006	1	.							
1876	O	O	. PHE PHE PHE A A 250 250 .	0.5426	0.5542	0.5670	0.0246	-0.0272	-
0.0022	1	.							
1877	N	N	. TYR TYR TYR A A 251 251 .	0.5858	0.5893	0.5866	0.0080	-0.0011	
0.0020	1	.							
1878	CA	CA	. TYR TYR TYR A A 251 251 .	0.6120	0.6166	0.6153	0.0047	-0.0040	-
0.0012	1	.							
1879	CB	CB	. TYR TYR TYR A A 251 251 .	0.6252	0.6192	0.6129	0.0009	-0.0025	
0.0014	1	.							
1880	CG	CG	. TYR TYR TYR A A 251 251 .	0.6672	0.6663	0.6682	0.0124	-0.0197	-
0.0027	1	.							
1881	CD1	CD1	. TYR TYR TYR A A 251 251 .	0.6967	0.7030	0.6787	0.0124	-0.0247	-
0.0090	1	.							
1882	CE1	CE1	. TYR TYR TYR A A 251 251 .	0.6656	0.7055	0.6873	0.0221	-0.0387	-
0.0136	1	.							
1883	CZ	CZ	. TYR TYR TYR A A 251 251 .	0.6860	0.7091	0.7008	0.0087	-0.0416	
0.0069	1	.							
1884	OH	OH	. TYR TYR TYR A A 251 251 .	0.7280	0.7421	0.7142	-0.0176	-0.0827	
0.0134	1	.							
1885	CE2	CE2	. TYR TYR TYR A A 251 251 .	0.6997	0.7110	0.6973	0.0125	-0.0365	
0.0056	1	.							
1886	CD2	CD2	. TYR TYR TYR A A 251 251 .	0.7006	0.6775	0.7016	0.0105	-0.0239	
0.0001	1	.							
1887	C	C	. TYR TYR TYR A A 251 251 .	0.6300	0.6298	0.6292	-0.0001	0.0004	-
0.0018	1	.							
1888	O	O	. TYR TYR TYR A A 251 251 .	0.6312	0.6300	0.6261	-0.0097	-0.0020	
0.0034	1	.							
1889	N	N	. ARG ARG ARG A A 252 252 .	0.6359	0.6499	0.6489	-0.0030	-0.0037	-
0.0046	1	.							
1890	CA	CA	. ARG ARG ARG A A 252 252 .	0.6554	0.6692	0.6631	0.0030	-0.0025	-
0.0063	1	.							
1891	CB	CB	. ARG ARG ARG A A 252 252 .	0.6600	0.6701	0.6599	0.0064	-0.0028	-
0.0083	1	.							
1892	CG	CG	. ARG ARG ARG A A 252 252 .	0.6746	0.6728	0.6655	0.0136	-0.0134	-
0.0105	1	.							
1893	CD	CD	. ARG ARG ARG A A 252 252 .	0.6457	0.6753	0.6884	0.0148	-0.0316	-
0.0233	1	.							
1894	NE	NE	. ARG ARG ARG A A 252 252 .	0.6632	0.6730	0.7079	0.0272	-0.0334	-
0.0104	1	.							
1895	CZ	CZ	. ARG ARG ARG A A 252 252 .	0.6459	0.6776	0.7170	0.0298	-0.0261	
0.0051	1	.							
1896	NH1	NH1	. ARG ARG ARG A A 252 252 .	0.5795	0.6612	0.7225	0.0313	-0.0216	-
0.0084	1	.							
1897	NH2	NH2	. ARG ARG ARG A A 252 252 .	0.6000	0.7019	0.7422	0.0261	-0.0537	-
0.0037	1	.							
1898	C	C	. ARG ARG ARG A A 252 252 .	0.6634	0.6850	0.6780	0.0057	0.0000	-
0.0028	1	.							
1899	O	O	. ARG ARG ARG A A 252 252 .	0.6426	0.6953	0.6736	0.0121	0.0042	-
0.0044	1	.							
1900	N	N	. ASP ASP ASP A A 253 253 .	0.6894	0.7026	0.7015	0.0015	0.0009	
0.0000	1	.							
1901	CA	CA	. ASP ASP ASP A A 253 253 .	0.7071	0.7241	0.7183	-0.0002	0.0008	-
0.0002	1	.							
1902	CB	CB	. ASP ASP ASP A A 253 253 .	0.7310	0.7384	0.7303	-0.0071	0.0096	
0.0041	1	.							

1903	CG	CG	. ASP ASP ASP A A 253 253 .	0.7720	0.7471	0.7675	-0.0220	0.0050	
0.0040	1	.							
1904	OD1	OD1	. ASP ASP ASP A A 253 253 .	0.8307	0.7482	0.7772	-0.0290	-0.0007	
0.0081	1	.							
1905	OD2	OD2	. ASP ASP ASP A A 253 253 .	0.8024	0.7872	0.7682	-0.0242	-0.0045	
0.0008	1	.							
1906	C	C	. ASP ASP ASP A A 253 253 .	0.6967	0.7218	0.7117	-0.0007	0.0041	-
0.0020	1	.							
1907	O	O	. ASP ASP ASP A A 253 253 .	0.6993	0.7380	0.7332	-0.0004	0.0073	-
0.0006	1	.							
1908	N	N	. GLY GLY GLY A A 254 254 .	0.6620	0.7004	0.6904	-0.0011	0.0020	-
0.0011	1	.							
1909	CA	CA	. GLY GLY GLY A A 254 254 .	0.6290	0.6678	0.6651	0.0036	0.0059	-
0.0005	1	.							
1910	C	C	. GLY GLY GLY A A 254 254 .	0.6089	0.6514	0.6451	0.0042	-0.0006	
0.0023	1	.							
1911	O	O	. GLY GLY GLY A A 254 254 .	0.5890	0.6496	0.6438	0.0112	-0.0042	
0.0034	1	.							
1912	N	N	. LYS LYS LYS A A 255 255 .	0.5982	0.6333	0.6295	-0.0011	0.0036	-
0.0045	1	.							
1913	CA	CA	. LYS LYS LYS A A 255 255 .	0.5925	0.6215	0.6236	-0.0012	0.0031	-
0.0009	1	.							
1914	CB	CB	. LYS LYS LYS A A 255 255 .	0.6000	0.6249	0.6258	-0.0018	0.0113	
0.0063	1	.							
1915	CG	CG	. LYS LYS LYS A A 255 255 .	0.6174	0.6580	0.6555	-0.0219	0.0010	-
0.0090	1	.							
1916	CD	CD	. LYS LYS LYS A A 255 255 .	0.6391	0.7192	0.7303	-0.0472	-0.0071	
0.0117	1	.							
1917	CE	CE	. LYS LYS LYS A A 255 255 .	0.6840	0.7715	0.7561	-0.0604	-0.0142	
0.0099	1	.							
1918	NZ	NZ	. LYS LYS LYS A A 255 255 .	0.6806	0.7987	0.7927	-0.0578	-0.0099	
0.0297	1	.							
1919	C	C	. LYS LYS LYS A A 255 255 .	0.5833	0.6005	0.6101	-0.0009	0.0052	-
0.0009	1	.							
1920	O	O	. LYS LYS LYS A A 255 255 .	0.5699	0.5965	0.6227	0.0054	0.0109	-
0.0047	1	.							
1921	N	N	. TYR TYR TYR A A 256 256 .	0.5643	0.5899	0.5933	0.0038	0.0018	-
0.0057	1	.							
1922	CA	CA	. TYR TYR TYR A A 256 256 .	0.5581	0.5762	0.5789	0.0020	-0.0018	-
0.0056	1	.							
1923	CB	CB	. TYR TYR TYR A A 256 256 .	0.5442	0.5728	0.5722	-0.0014	0.0009	-
0.0025	1	.							
1924	CG	CG	. TYR TYR TYR A A 256 256 .	0.5310	0.5644	0.5556	-0.0216	-0.0156	
0.0044	1	.							
1925	CD1	CD1	. TYR TYR TYR A A 256 256 .	0.5568	0.5530	0.5414	-0.0353	-0.0305	
0.0103	1	.							
1926	CE1	CE1	. TYR TYR TYR A A 256 256 .	0.5433	0.5730	0.5432	-0.0506	-0.0575	
0.0160	1	.							
1927	CZ	CZ	. TYR TYR TYR A A 256 256 .	0.5428	0.5704	0.5164	-0.0612	-0.0307	
0.0179	1	.							
1928	OH	OH	. TYR TYR TYR A A 256 256 .	0.5091	0.5767	0.4660	-0.0536	-0.0289	
0.0374	1	.							
1929	CE2	CE2	. TYR TYR TYR A A 256 256 .	0.5377	0.5973	0.5131	-0.0476	-0.0404	
0.0072	1	.							
1930	CD2	CD2	. TYR TYR TYR A A 256 256 .	0.5092	0.5437	0.5469	-0.0593	-0.0379	-
0.0025	1	.							
1931	C	C	. TYR TYR TYR A A 256 256 .	0.5470	0.5699	0.5740	0.0063	-0.0071	-
0.0090	1	.							
1932	O	O	. TYR TYR TYR A A 256 256 .	0.5314	0.5749	0.5860	0.0174	-0.0158	-
0.0223	1	.							

1933	N	N	. ASP ASP ASP A A 257 257 .	0.5382	0.5621	0.5682	0.0051	-0.0097	-
0.0103	1	.							
1934	CA	CA	. ASP ASP ASP A A 257 257 .	0.5046	0.5511	0.5528	0.0076	-0.0115	-
0.0064	1	.							
1935	CB	CB	. ASP ASP ASP A A 257 257 .	0.4567	0.5446	0.5584	0.0097	-0.0151	-
0.0070	1	.							
1936	CG	CG	. ASP ASP ASP A A 257 257 .	0.3594	0.5506	0.5767	0.0302	-0.0335	-
0.0183	1	.							
1937	OD1	OD1	. ASP ASP ASP A A 257 257 .	0.1279	0.5608	0.6108	0.1273	-0.0357	-
0.0823	1	.							
1938	OD2	OD2	. ASP ASP ASP A A 257 257 .	0.2750	0.5506	0.6113	0.0036	-0.0969	-
0.0470	1	.							
1939	C	C	. ASP ASP ASP A A 257 257 .	0.5127	0.5657	0.5567	0.0033	-0.0035	-
0.0099	1	.							
1940	O	O	. ASP ASP ASP A A 257 257 .	0.5021	0.5857	0.5655	0.0125	-0.0083	-
0.0103	1	.							
1941	N	N	. LEU LEU LEU A A 258 258 .	0.5203	0.5549	0.5544	0.0032	0.0011	-
0.0130	1	.							
1942	CA	CA	. LEU LEU LEU A A 258 258 .	0.5359	0.5626	0.5486	0.0010	-0.0005	-
0.0097	1	.							
1943	CB	CB	. LEU LEU LEU A A 258 258 .	0.5310	0.5683	0.5518	-0.0060	0.0025	-
0.0130	1	.							
1944	CG	CG	. LEU LEU LEU A A 258 258 .	0.5191	0.5721	0.5412	-0.0177	0.0031	-
0.0054	1	.							
1945	CD1	CD1	. LEU LEU LEU A A 258 258 .	0.4750	0.6028	0.5375	-0.0311	0.0255	-
0.0005	1	.							
1946	CD2	CD2	. LEU LEU LEU A A 258 258 .	0.5124	0.5480	0.5560	-0.0534	0.0261	-
0.0032	1	.							
1947	C	C	. LEU LEU LEU A A 258 258 .	0.5451	0.5623	0.5542	0.0039	-0.0007	-
0.0106	1	.							
1948	O	O	. LEU LEU LEU A A 258 258 .	0.5562	0.5518	0.5543	0.0126	-0.0097	-
0.0151	1	.							
1949	N	N	. ASP ASP ASP A A 259 259 .	0.5367	0.5692	0.5612	0.0024	0.0012	-
0.0045	1	.							
1950	CA	CA	. ASP ASP ASP A A 259 259 .	0.5226	0.5630	0.5538	0.0038	0.0001	-
0.0044	1	.							
1951	CB	CB	. ASP ASP ASP A A 259 259 .	0.5359	0.5687	0.5683	-0.0013	0.0120	-
0.0023	1	.							
1952	CG	CG	. ASP ASP ASP A A 259 259 .	0.5820	0.6037	0.6237	-0.0047	0.0173	-
0.0053	1	.							
1953	OD1	OD1	. ASP ASP ASP A A 259 259 .	0.5471	0.6638	0.6865	-0.0500	0.0430	-
0.0012	1	.							
1954	OD2	OD2	. ASP ASP ASP A A 259 259 .	0.5987	0.6468	0.7012	-0.0169	0.0295	-
0.0139	1	.							
1955	C	C	. ASP ASP ASP A A 259 259 .	0.4996	0.5511	0.5437	0.0041	-0.0023	-
0.0075	1	.							
1956	O	O	. ASP ASP ASP A A 259 259 .	0.4565	0.5596	0.5531	0.0043	-0.0060	-
0.0089	1	.							
1957	N	N	. PHE PHE PHE A A 260 260 .	0.5164	0.5531	0.5501	0.0088	-0.0011	-
0.0007	1	.							
1958	CA	CA	. PHE PHE PHE A A 260 260 .	0.5085	0.5433	0.5492	0.0003	-0.0022	-
0.0033	1	.							
1959	CB	CB	. PHE PHE PHE A A 260 260 .	0.5164	0.5379	0.5418	0.0040	-0.0001	-
0.0087	1	.							
1960	CG	CG	. PHE PHE PHE A A 260 260 .	0.4831	0.5293	0.5409	0.0084	-0.0020	-
0.0211	1	.							
1961	CD1	CD1	. PHE PHE PHE A A 260 260 .	0.4829	0.4951	0.5539	-0.0130	-0.0217	-
0.0342	1	.							
1962	CE1	CE1	. PHE PHE PHE A A 260 260 .	0.5305	0.4968	0.5591	0.0288	-0.0297	-
0.0319	1	.							







2023	NE	NE	. ARG ARG ARG A A 268 268 .	0.6826	0.6642	0.6387	-0.0132	0.0093	
0.0090	1	.							
2024	CZ	CZ	. ARG ARG ARG A A 268 268 .	0.6454	0.6258	0.6292	0.0092	-0.0046	-
0.0093	1	.							
2025	NH1	NH1	. ARG ARG ARG A A 268 268 .	0.6416	0.5471	0.6088	0.0330	0.0220	-
0.0021	1	.							
2026	NH2	NH2	. ARG ARG ARG A A 268 268 .	0.6250	0.6002	0.6069	0.0428	-0.0194	
0.0001	1	.							
2027	C	C	. ARG ARG ARG A A 268 268 .	0.6490	0.6645	0.6639	-0.0005	0.0011	-
0.0020	1	.							
2028	O	O	. ARG ARG ARG A A 268 268 .	0.6450	0.6735	0.6659	-0.0021	0.0055	
0.0013	1	.							
2029	N	N	. TYR TYR TYR A A 269 269 .	0.6243	0.6460	0.6509	-0.0011	0.0041	-
0.0022	1	.							
2030	CA	CA	. TYR TYR TYR A A 269 269 .	0.6120	0.6326	0.6297	0.0029	0.0047	-
0.0063	1	.							
2031	CB	CB	. TYR TYR TYR A A 269 269 .	0.6187	0.6348	0.6301	0.0026	0.0057	-
0.0047	1	.							
2032	CG	CG	. TYR TYR TYR A A 269 269 .	0.6063	0.6397	0.6460	-0.0018	0.0010	-
0.0179	1	.							
2033	CD1	CD1	. TYR TYR TYR A A 269 269 .	0.5761	0.6641	0.6361	-0.0118	0.0056	-
0.0325	1	.							
2034	CE1	CE1	. TYR TYR TYR A A 269 269 .	0.5062	0.6695	0.6470	-0.0185	-0.0177	-
0.0386	1	.							
2035	CZ	CZ	. TYR TYR TYR A A 269 269 .	0.4824	0.6704	0.6553	0.0029	-0.0130	-
0.0216	1	.							
2036	OH	OH	. TYR TYR TYR A A 269 269 .	0.4185	0.6812	0.6820	0.0461	-0.0080	-
0.0407	1	.							
2037	CE2	CE2	. TYR TYR TYR A A 269 269 .	0.4899	0.6619	0.6489	0.0104	0.0035	-
0.0171	1	.							
2038	CD2	CD2	. TYR TYR TYR A A 269 269 .	0.5466	0.6499	0.6603	-0.0024	0.0079	-
0.0293	1	.							
2039	C	C	. TYR TYR TYR A A 269 269 .	0.5873	0.6205	0.6180	0.0012	0.0015	-
0.0059	1	.							
2040	O	O	. TYR TYR TYR A A 269 269 .	0.5482	0.6132	0.6224	0.0091	0.0115	-
0.0040	1	.							
2041	N	N	. ILE ILE ILE A A 270 270 .	0.5512	0.6064	0.5980	0.0011	0.0003	-
0.0082	1	.							
2042	CA	CA	. ILE ILE ILE A A 270 270 .	0.5370	0.5939	0.5956	-0.0002	-0.0014	-
0.0069	1	.							
2043	CB	CB	. ILE ILE ILE A A 270 270 .	0.5371	0.5869	0.5915	-0.0013	-0.0096	-
0.0086	1	.							
2044	CG1	CG1	. ILE ILE ILE A A 270 270 .	0.5165	0.5708	0.5697	0.0141	-0.0009	-
0.0130	1	.							
2045	CD1	CD1	. ILE ILE ILE A A 270 270 .	0.5112	0.5394	0.4838	0.0119	-0.0496	-
0.0092	1	.							
2046	CG2	CG2	. ILE ILE ILE A A 270 270 .	0.4739	0.5948	0.5835	0.0106	0.0031	
0.0006	1	.							
2047	C	C	. ILE ILE ILE A A 270 270 .	0.5447	0.5937	0.5961	-0.0018	-0.0040	-
0.0105	1	.							
2048	O	O	. ILE ILE ILE A A 270 270 .	0.5811	0.6145	0.6314	-0.0098	0.0070	-
0.0157	1	.							
2049	N	N	. THR THR THR A A 271 271 .	0.5166	0.5917	0.5860	0.0021	-0.0047	-
0.0061	1	.							
2050	CA	CA	. THR THR THR A A 271 271 .	0.4985	0.5793	0.5766	0.0162	-0.0126	-
0.0116	1	.							
2051	CB	CB	. THR THR THR A A 271 271 .	0.4926	0.5827	0.5791	0.0139	-0.0084	-
0.0133	1	.							
2052	OG1	OG1	. THR THR THR A A 271 271 .	0.3208	0.6027	0.6269	0.0857	-0.0242	-
0.0339	1	.							



2083	C	C	. LEU LEU LEU A A 275 275 .	0.5728	0.5777	0.5759	-0.0084	-0.0119	-
0.0113	1	.							
2084	O	O	. LEU LEU LEU A A 275 275 .	0.5861	0.5805	0.5647	-0.0037	-0.0168	-
0.0205	1	.							
2085	N	N	. GLY GLY GLY A A 276 276 .	0.5605	0.5726	0.5680	-0.0088	-0.0153	-
0.0176	1	.							
2086	CA	CA	. GLY GLY GLY A A 276 276 .	0.5504	0.5633	0.5689	-0.0065	-0.0072	-
0.0112	1	.							
2087	C	C	. GLY GLY GLY A A 276 276 .	0.5462	0.5666	0.5713	0.0026	-0.0073	-
0.0142	1	.							
2088	O	O	. GLY GLY GLY A A 276 276 .	0.5274	0.5688	0.5875	0.0144	-0.0065	-
0.0146	1	.							
2089	N	N	. ALA ALA ALA A A 277 277 .	0.5191	0.5557	0.5633	0.0007	-0.0108	-
0.0124	1	.							
2090	CA	CA	. ALA ALA ALA A A 277 277 .	0.5153	0.5492	0.5575	0.0014	-0.0137	-
0.0084	1	.							
2091	CB	CB	. ALA ALA ALA A A 277 277 .	0.5034	0.5451	0.5546	0.0011	-0.0127	-
0.0079	1	.							
2092	C	C	. ALA ALA ALA A A 277 277 .	0.5014	0.5559	0.5504	0.0008	-0.0168	-
0.0128	1	.							
2093	O	O	. ALA ALA ALA A A 277 277 .	0.5001	0.5719	0.5604	-0.0052	-0.0336	-
0.0188	1	.							
2094	N	N	. LEU LEU LEU A A 278 278 .	0.4958	0.5583	0.5513	0.0030	-0.0137	-
0.0097	1	.							
2095	CA	CA	. LEU LEU LEU A A 278 278 .	0.5183	0.5469	0.5340	-0.0019	-0.0063	-
0.0028	1	.							
2096	CB	CB	. LEU LEU LEU A A 278 278 .	0.5313	0.5489	0.5443	-0.0106	-0.0026	-
0.0039	1	.							
2097	CG	CG	. LEU LEU LEU A A 278 278 .	0.6135	0.5527	0.5493	-0.0301	-0.0025	-
0.0093	1	.							
2098	CD1	CD1	. LEU LEU LEU A A 278 278 .	0.6808	0.5773	0.6014	-0.0597	-0.0013	-
0.0096	1	.							
2099	CD2	CD2	. LEU LEU LEU A A 278 278 .	0.6689	0.5190	0.5606	-0.0340	-0.0025	-
0.0037	1	.							
2100	C	C	. LEU LEU LEU A A 278 278 .	0.5003	0.5350	0.5274	-0.0040	-0.0160	-
0.0032	1	.							
2101	O	O	. LEU LEU LEU A A 278 278 .	0.4771	0.5316	0.5166	-0.0041	-0.0267	-
0.0012	1	.							
2102	N	N	. TYR TYR TYR A A 279 279 .	0.4859	0.5176	0.5151	-0.0051	-0.0116	-
0.0061	1	.							
2103	CA	CA	. TYR TYR TYR A A 279 279 .	0.4910	0.5126	0.5111	0.0029	-0.0102	-
0.0082	1	.							
2104	CB	CB	. TYR TYR TYR A A 279 279 .	0.4769	0.4986	0.5016	0.0010	-0.0083	-
0.0049	1	.							
2105	CG	CG	. TYR TYR TYR A A 279 279 .	0.4353	0.5073	0.4863	-0.0025	-0.0216	-
0.0070	1	.							
2106	CD1	CD1	. TYR TYR TYR A A 279 279 .	0.3428	0.5064	0.4651	-0.0194	-0.0049	-
0.0064	1	.							
2107	CE1	CE1	. TYR TYR TYR A A 279 279 .	0.3191	0.4985	0.4825	0.0001	0.0159	-
0.0122	1	.							
2108	CZ	CZ	. TYR TYR TYR A A 279 279 .	0.3697	0.5055	0.4906	-0.0147	0.0092	-
0.0030	1	.							
2109	OH	OH	. TYR TYR TYR A A 279 279 .	0.2484	0.5443	0.4835	-0.0366	-0.0048	-
0.0180	1	.							
2110	CE2	CE2	. TYR TYR TYR A A 279 279 .	0.3885	0.5155	0.4648	-0.0145	-0.0109	-
0.0061	1	.							
2111	CD2	CD2	. TYR TYR TYR A A 279 279 .	0.4028	0.4891	0.4738	-0.0212	-0.0197	-
0.0189	1	.							
2112	C	C	. TYR TYR TYR A A 279 279 .	0.4982	0.5194	0.5149	0.0095	-0.0141	-
0.0101	1	.							

2113	O	O	. TYR TYR TYR A A 279 279 .	0.4769	0.5409	0.5150	0.0076	-0.0222	-
0.0123	1	.							
2114	N	N	. GLN GLN GLN A A 280 280 .	0.4941	0.5173	0.5114	0.0200	-0.0226	-
0.0083	1	.							
2115	CA	CA	. GLN GLN GLN A A 280 280 .	0.5074	0.5171	0.5227	0.0132	-0.0207	-
0.0088	1	.							
2116	CB	CB	. GLN GLN GLN A A 280 280 .	0.5106	0.5245	0.5168	0.0078	-0.0257	-
0.0092	1	.							
2117	CG	CG	. GLN GLN GLN A A 280 280 .	0.5376	0.5455	0.5603	0.0093	-0.0150	-
0.0089	1	.							
2118	CD	CD	. GLN GLN GLN A A 280 280 .	0.5439	0.5880	0.6147	0.0046	-0.0168	-
0.0146	1	.							
2119	OE1	OE1	. GLN GLN GLN A A 280 280 .	0.5790	0.5949	0.6514	0.0064	-0.0102	-
0.0497	1	.							
2120	NE2	NE2	. GLN GLN GLN A A 280 280 .	0.5017	0.5779	0.6413	0.0297	-0.0540	-
0.0035	1	.							
2121	C	C	. GLN GLN GLN A A 280 280 .	0.5013	0.5135	0.5114	0.0038	-0.0241	-
0.0093	1	.							
2122	O	O	. GLN GLN GLN A A 280 280 .	0.4980	0.4834	0.5081	0.0093	-0.0339	-
0.0271	1	.							
2123	N	N	. ASP ASP ASP A A 281 281 .	0.4963	0.5281	0.5238	0.0047	-0.0269	-
0.0087	1	.							
2124	CA	CA	. ASP ASP ASP A A 281 281 .	0.4998	0.5250	0.5359	0.0018	-0.0185	-
0.0132	1	.							
2125	CB	CB	. ASP ASP ASP A A 281 281 .	0.5138	0.5335	0.5333	-0.0005	-0.0071	-
0.0158	1	.							
2126	CG	CG	. ASP ASP ASP A A 281 281 .	0.5349	0.5745	0.5548	-0.0102	-0.0001	-
0.0137	1	.							
2127	OD1	OD1	. ASP ASP ASP A A 281 281 .	0.6150	0.6604	0.5785	-0.0401	-0.0038	-
0.0441	1	.							
2128	OD2	OD2	. ASP ASP ASP A A 281 281 .	0.5194	0.5538	0.5993	-0.0272	0.0401	-
0.0311	1	.							
2129	C	C	. ASP ASP ASP A A 281 281 .	0.5034	0.5258	0.5398	0.0080	-0.0207	-
0.0170	1	.							
2130	O	O	. ASP ASP ASP A A 281 281 .	0.4816	0.5273	0.5629	0.0174	-0.0245	-
0.0143	1	.							
2131	N	N	. PHE PHE PHE A A 282 282 .	0.4903	0.5361	0.5227	0.0046	-0.0269	-
0.0217	1	.							
2132	CA	CA	. PHE PHE PHE A A 282 282 .	0.5054	0.5257	0.5180	-0.0020	-0.0198	-
0.0194	1	.							
2133	CB	CB	. PHE PHE PHE A A 282 282 .	0.5118	0.5297	0.5120	0.0010	-0.0221	-
0.0181	1	.							
2134	CG	CG	. PHE PHE PHE A A 282 282 .	0.5213	0.5294	0.5236	0.0005	-0.0212	-
0.0020	1	.							
2135	CD1	CD1	. PHE PHE PHE A A 282 282 .	0.5366	0.5181	0.5311	0.0034	-0.0189	-
0.0002	1	.							
2136	CE1	CE1	. PHE PHE PHE A A 282 282 .	0.5202	0.5361	0.5450	-0.0103	-0.0256	-
0.0180	1	.							
2137	CZ	CZ	. PHE PHE PHE A A 282 282 .	0.5972	0.5128	0.5790	0.0001	0.0002	-
0.0110	1	.							
2138	CE2	CE2	. PHE PHE PHE A A 282 282 .	0.5879	0.5210	0.5493	-0.0214	-0.0030	-
0.0088	1	.							
2139	CD2	CD2	. PHE PHE PHE A A 282 282 .	0.5393	0.5217	0.5502	-0.0054	-0.0126	-
0.0281	1	.							
2140	C	C	. PHE PHE PHE A A 282 282 .	0.4857	0.5092	0.5073	-0.0099	-0.0219	-
0.0265	1	.							
2141	O	O	. PHE PHE PHE A A 282 282 .	0.4795	0.5199	0.5144	-0.0233	-0.0311	-
0.0303	1	.							
2142	N	N	. VAL VAL VAL A A 283 283 .	0.4858	0.5085	0.5030	-0.0212	-0.0132	-
0.0331	1	.							

2143	CA	CA	. VAL VAL VAL A A 283 283 .	0.5020	0.5209	0.5153	-0.0123	-0.0017	-
0.0281	1	.							
2144	CB	CB	. VAL VAL VAL A A 283 283 .	0.5143	0.5272	0.5093	-0.0126	-0.0007	-
0.0281	1	.							
2145	CG1	CG1	. VAL VAL VAL A A 283 283 .	0.5195	0.5589	0.5435	-0.0235	0.0039	-
0.0447	1	.							
2146	CG2	CG2	. VAL VAL VAL A A 283 283 .	0.5250	0.5468	0.5345	-0.0277	0.0054	-
0.0261	1	.							
2147	C	C	. VAL VAL VAL A A 283 283 .	0.4998	0.5290	0.5088	-0.0096	-0.0031	-
0.0275	1	.							
2148	O	O	. VAL VAL VAL A A 283 283 .	0.4546	0.5213	0.4788	0.0012	0.0003	-
0.0343	1	.							
2149	N	N	. ARG ARG ARG A A 284 284 .	0.5109	0.5446	0.5241	0.0020	-0.0043	-
0.0186	1	.							
2150	CA	CA	. ARG ARG ARG A A 284 284 .	0.5283	0.5445	0.5379	-0.0057	-0.0036	-
0.0103	1	.							
2151	CB	CB	. ARG ARG ARG A A 284 284 .	0.5321	0.5662	0.5554	0.0022	-0.0029	-
0.0050	1	.							
2152	CG	CG	. ARG ARG ARG A A 284 284 .	0.5551	0.6085	0.5997	-0.0172	0.0158	
0.0013	1	.							
2153	CD	CD	. ARG ARG ARG A A 284 284 .	0.6028	0.6456	0.6436	-0.0418	-0.0036	-
0.0147	1	.							
2154	NE	NE	. ARG ARG ARG A A 284 284 .	0.6359	0.6396	0.6717	-0.0143	0.0245	
0.0162	1	.							
2155	CZ	CZ	. ARG ARG ARG A A 284 284 .	0.6539	0.6479	0.6890	-0.0036	0.0441	
0.0074	1	.							
2156	NH1	NH1	. ARG ARG ARG A A 284 284 .	0.6457	0.6702	0.6981	0.0191	0.0431	
0.0090	1	.							
2157	NH2	NH2	. ARG ARG ARG A A 284 284 .	0.6841	0.6771	0.7295	0.0249	0.0576	
0.0034	1	.							
2158	C	C	. ARG ARG ARG A A 284 284 .	0.5238	0.5479	0.5355	0.0016	-0.0061	-
0.0106	1	.							
2159	O	O	. ARG ARG ARG A A 284 284 .	0.5266	0.5495	0.5347	0.0034	-0.0038	-
0.0186	1	.							
2160	N	N	. ASP ASP ASP A A 285 285 .	0.5060	0.5414	0.5293	0.0011	-0.0044	-
0.0063	1	.							
2161	CA	CA	. ASP ASP ASP A A 285 285 .	0.4900	0.5355	0.5321	-0.0012	-0.0083	-
0.0022	1	.							
2162	CB	CB	. ASP ASP ASP A A 285 285 .	0.4950	0.5448	0.5456	-0.0023	-0.0055	-
0.0023	1	.							
2163	CG	CG	. ASP ASP ASP A A 285 285 .	0.4921	0.5997	0.5869	-0.0019	-0.0127	-
0.0199	1	.							
2164	OD1	OD1	. ASP ASP ASP A A 285 285 .	0.3985	0.6244	0.5990	0.0109	-0.0363	-
0.0534	1	.							
2165	OD2	OD2	. ASP ASP ASP A A 285 285 .	0.5189	0.6616	0.6657	-0.0347	0.0156	-
0.0159	1	.							
2166	C	C	. ASP ASP ASP A A 285 285 .	0.4917	0.5124	0.5223	-0.0007	-0.0077	
0.0002	1	.							
2167	O	O	. ASP ASP ASP A A 285 285 .	0.4891	0.5318	0.5219	-0.0014	-0.0104	
0.0090	1	.							
2168	N	N	. TYR TYR TYR A A 286 286 .	0.4693	0.4889	0.5014	0.0019	-0.0139	-
0.0062	1	.							
2169	CA	CA	. TYR TYR TYR A A 286 286 .	0.4557	0.4527	0.4646	-0.0001	-0.0122	-
0.0059	1	.							
2170	CB	CB	. TYR TYR TYR A A 286 286 .	0.4626	0.4456	0.4618	0.0008	-0.0185	-
0.0051	1	.							
2171	CG	CG	. TYR TYR TYR A A 286 286 .	0.4667	0.4694	0.4745	-0.0011	-0.0079	-
0.0124	1	.							
2172	CD1	CD1	. TYR TYR TYR A A 286 286 .	0.4904	0.4936	0.4907	-0.0253	0.0013	-
0.0089	1	.							







2233	CA	CA	. PRO PRO PRO A A 294 294 .	0.3704	0.4162	0.4138	0.0039	-0.0113	-
0.0036	1	.							
2234	CB	CB	. PRO PRO PRO A A 294 294 .	0.3310	0.4194	0.3860	0.0100	-0.0098	
0.0039	1	.							
2235	CG	CG	. PRO PRO PRO A A 294 294 .	0.3717	0.3923	0.4129	-0.0028	-0.0206	-
0.0003	1	.							
2236	CD	CD	. PRO PRO PRO A A 294 294 .	0.3620	0.4058	0.3956	0.0026	-0.0139	
0.0018	1	.							
2237	C	C	. PRO PRO PRO A A 294 294 .	0.3875	0.4288	0.4165	0.0037	-0.0102	-
0.0021	1	.							
2238	O	O	. PRO PRO PRO A A 294 294 .	0.4103	0.4646	0.4255	0.0243	-0.0101	
0.0042	1	.							
2239	N	N	. PHE PHE PHE A A 295 295 .	0.4105	0.4456	0.4358	0.0051	-0.0145	-
0.0095	1	.							
2240	CA	CA	. PHE PHE PHE A A 295 295 .	0.4324	0.4626	0.4546	0.0096	-0.0152	-
0.0121	1	.							
2241	CB	CB	. PHE PHE PHE A A 295 295 .	0.4308	0.4638	0.4655	0.0111	-0.0100	-
0.0145	1	.							
2242	CG	CG	. PHE PHE PHE A A 295 295 .	0.4246	0.4746	0.4609	0.0114	-0.0331	-
0.0114	1	.							
2243	CD1	CD1	. PHE PHE PHE A A 295 295 .	0.4333	0.4541	0.4845	0.0196	-0.0655	
0.0014	1	.							
2244	CE1	CE1	. PHE PHE PHE A A 295 295 .	0.3545	0.4690	0.4252	0.0525	-0.0945	-
0.0006	1	.							
2245	CZ	CZ	. PHE PHE PHE A A 295 295 .	0.4141	0.4577	0.4205	0.0485	-0.0631	
0.0243	1	.							
2246	CE2	CE2	. PHE PHE PHE A A 295 295 .	0.4466	0.4611	0.4171	0.0255	-0.0490	
0.0026	1	.							
2247	CD2	CD2	. PHE PHE PHE A A 295 295 .	0.4257	0.4703	0.3996	0.0109	-0.0606	-
0.0017	1	.							
2248	C	C	. PHE PHE PHE A A 295 295 .	0.4591	0.4666	0.4753	0.0150	-0.0112	-
0.0150	1	.							
2249	O	O	. PHE PHE PHE A A 295 295 .	0.4690	0.4741	0.4924	0.0223	-0.0130	-
0.0273	1	.							
2250	N	N	. ASP ASP ASP A A 296 296 .	0.4656	0.4855	0.4787	0.0281	-0.0115	-
0.0147	1	.							
2251	CA	CA	. ASP ASP ASP A A 296 296 .	0.4874	0.4907	0.5016	0.0219	-0.0085	-
0.0195	1	.							
2252	CB	CB	. ASP ASP ASP A A 296 296 .	0.4986	0.4996	0.5126	0.0320	-0.0119	-
0.0260	1	.							
2253	CG	CG	. ASP ASP ASP A A 296 296 .	0.4813	0.5062	0.5337	0.0409	-0.0075	-
0.0186	1	.							
2254	OD1	OD1	. ASP ASP ASP A A 296 296 .	0.3931	0.5166	0.5332	0.0815	-0.0178	-
0.0074	1	.							
2255	OD2	OD2	. ASP ASP ASP A A 296 296 .	0.4424	0.5163	0.6044	0.0487	-0.0466	
0.0214	1	.							
2256	C	C	. ASP ASP ASP A A 296 296 .	0.5057	0.4964	0.5004	0.0232	-0.0078	-
0.0190	1	.							
2257	O	O	. ASP ASP ASP A A 296 296 .	0.5130	0.4945	0.5095	0.0379	-0.0265	-
0.0183	1	.							
2258	N	N	. GLN GLN GLN A A 297 297 .	0.4985	0.5011	0.5012	0.0143	-0.0138	-
0.0163	1	.							
2259	CA	CA	. GLN GLN GLN A A 297 297 .	0.5256	0.4934	0.4938	0.0113	-0.0061	-
0.0145	1	.							
2260	CB	CB	. GLN GLN GLN A A 297 297 .	0.5170	0.4880	0.5034	0.0090	-0.0092	-
0.0137	1	.							
2261	CG	CG	. GLN GLN GLN A A 297 297 .	0.5498	0.4648	0.4940	0.0005	0.0076	-
0.0179	1	.							
2262	CD	CD	. GLN GLN GLN A A 297 297 .	0.5264	0.4260	0.5213	-0.0287	0.0139	-
0.0538	1	.							



2293	CH2	CH2	. TRP TRP TRP A A 300 300 .	0.6424	0.5551	0.5743	0.0250	-0.0043
0.0194	1 .							
2294	CZ2	CZ2	. TRP TRP TRP A A 300 300 .	0.5867	0.5171	0.6071	0.0319	-0.0019
0.0360	1 .							
2295	C	C	. TRP TRP TRP A A 300 300 .	0.6017	0.6264	0.5978	0.0024	-0.0150 -
0.0079	1 .							
2296	O	O	. TRP TRP TRP A A 300 300 .	0.6147	0.6397	0.6029	0.0046	-0.0255 -
0.0055	1 .							
2297	N	N	. ALA ALA ALA A A 301 301 .	0.6010	0.6312	0.5944	0.0104	-0.0191 -
0.0060	1 .							
2298	CA	CA	. ALA ALA ALA A A 301 301 .	0.6031	0.6195	0.6078	0.0104	-0.0100 -
0.0063	1 .							
2299	CB	CB	. ALA ALA ALA A A 301 301 .	0.6006	0.6218	0.6027	0.0139	-0.0172 -
0.0132	1 .							
2300	C	C	. ALA ALA ALA A A 301 301 .	0.6009	0.6151	0.6007	0.0171	-0.0090
0.0020	1 .							
2301	O	O	. ALA ALA ALA A A 301 301 .	0.6186	0.6275	0.6045	0.0298	-0.0093 -
0.0063	1 .							
2302	N	N	. ALA ALA ALA A A 302 302 .	0.5892	0.6065	0.5991	0.0165	-0.0071
0.0051	1 .							
2303	CA	CA	. ALA ALA ALA A A 302 302 .	0.5727	0.5895	0.5889	0.0101	-0.0028
0.0054	1 .							
2304	CB	CB	. ALA ALA ALA A A 302 302 .	0.5569	0.5803	0.5795	0.0136	-0.0010
0.0081	1 .							
2305	C	C	. ALA ALA ALA A A 302 302 .	0.5562	0.5766	0.5744	0.0071	-0.0031
0.0017	1 .							
2306	O	O	. ALA ALA ALA A A 302 302 .	0.5444	0.5845	0.5652	0.0019	-0.0061
0.0084	1 .							
2307	N	N	. TRP TRP TRP A A 303 303 .	0.5551	0.5785	0.5667	0.0088	-0.0067 -
0.0072	1 .							
2308	CA	CA	. TRP TRP TRP A A 303 303 .	0.5506	0.5737	0.5575	0.0096	-0.0124 -
0.0103	1 .							
2309	CB	CB	. TRP TRP TRP A A 303 303 .	0.5484	0.5745	0.5486	0.0171	-0.0155 -
0.0085	1 .							
2310	CG	CG	. TRP TRP TRP A A 303 303 .	0.5196	0.5638	0.5285	0.0202	-0.0106 -
0.0225	1 .							
2311	CD1	CD1	. TRP TRP TRP A A 303 303 .	0.4752	0.5539	0.4976	0.0261	-0.0126 -
0.0252	1 .							
2312	NE1	NE1	. TRP TRP TRP A A 303 303 .	0.5146	0.5858	0.5283	0.0390	-0.0083 -
0.0285	1 .							
2313	CE2	CE2	. TRP TRP TRP A A 303 303 .	0.4951	0.5436	0.5068	0.0276	-0.0203 -
0.0157	1 .							
2314	CD2	CD2	. TRP TRP TRP A A 303 303 .	0.4959	0.5493	0.4938	0.0122	-0.0126 -
0.0151	1 .							
2315	CE3	CE3	. TRP TRP TRP A A 303 303 .	0.4939	0.5563	0.5110	0.0065	-0.0385 -
0.0065	1 .							
2316	CZ3	CZ3	. TRP TRP TRP A A 303 303 .	0.4998	0.5511	0.4929	-0.0111	-0.0106
0.0201	1 .							
2317	CH2	CH2	. TRP TRP TRP A A 303 303 .	0.4698	0.5345	0.4723	-0.0213	-0.0359 -
0.0105	1 .							
2318	CZ2	CZ2	. TRP TRP TRP A A 303 303 .	0.4998	0.5134	0.5048	0.0122	-0.0280 -
0.0264	1 .							
2319	C	C	. TRP TRP TRP A A 303 303 .	0.5575	0.5780	0.5564	0.0082	-0.0181 -
0.0057	1 .							
2320	O	O	. TRP TRP TRP A A 303 303 .	0.5604	0.5817	0.5585	0.0179	-0.0369 -
0.0096	1 .							
2321	N	N	. SER SER SER A A 304 304 .	0.5510	0.5740	0.5551	0.0051	-0.0212
0.0011	1 .							
2322	CA	CA	. SER SER SER A A 304 304 .	0.5538	0.5752	0.5619	0.0064	-0.0107
0.0057	1 .							

2323	CB	CB	. SER SER SER A A 304 304 .	0.5490	0.5743	0.5583	0.0067	-0.0095	
0.0066	1	.							
2324	OG	OG	. SER SER SER A A 304 304 .	0.5237	0.5572	0.6080	-0.0022	-0.0218	-
0.0028	1	.							
2325	C	C	. SER SER SER A A 304 304 .	0.5598	0.5819	0.5514	0.0101	-0.0147	
0.0050	1	.							
2326	O	O	. SER SER SER A A 304 304 .	0.5627	0.5960	0.5497	0.0207	-0.0256	
0.0079	1	.							
2327	N	N	. LYS LYS LYS A A 305 305 .	0.5679	0.5865	0.5604	0.0111	-0.0172	
0.0041	1	.							
2328	CA	CA	. LYS LYS LYS A A 305 305 .	0.5835	0.5882	0.5819	0.0032	-0.0114	-
0.0007	1	.							
2329	CB	CB	. LYS LYS LYS A A 305 305 .	0.5851	0.5936	0.5981	0.0033	-0.0049	-
0.0077	1	.							
2330	CG	CG	. LYS LYS LYS A A 305 305 .	0.5939	0.6063	0.6130	-0.0108	-0.0105	-
0.0186	1	.							
2331	CD	CD	. LYS LYS LYS A A 305 305 .	0.6216	0.6315	0.6101	0.0082	0.0095	-
0.0293	1	.							
2332	CE	CE	. LYS LYS LYS A A 305 305 .	0.6464	0.6823	0.6352	0.0212	0.0068	-
0.0180	1	.							
2333	NZ	NZ	. LYS LYS LYS A A 305 305 .	0.7064	0.7269	0.7139	-0.0110	0.0181	-
0.0006	1	.							
2334	C	C	. LYS LYS LYS A A 305 305 .	0.5882	0.5970	0.5779	0.0091	-0.0138	-
0.0061	1	.							
2335	O	O	. LYS LYS LYS A A 305 305 .	0.5988	0.6152	0.5604	0.0224	-0.0159	-
0.0087	1	.							
2336	N	N	. PHE PHE PHE A A 306 306 .	0.5868	0.5883	0.5756	0.0042	-0.0144	-
0.0018	1	.							
2337	CA	CA	. PHE PHE PHE A A 306 306 .	0.5891	0.5925	0.5712	0.0073	-0.0122	-
0.0034	1	.							
2338	CB	CB	. PHE PHE PHE A A 306 306 .	0.5992	0.5932	0.5746	0.0075	-0.0054	-
0.0057	1	.							
2339	CG	CG	. PHE PHE PHE A A 306 306 .	0.6031	0.5943	0.5778	0.0064	-0.0056	-
0.0041	1	.							
2340	CD1	CD1	. PHE PHE PHE A A 306 306 .	0.6099	0.5930	0.5849	-0.0045	-0.0331	-
0.0152	1	.							
2341	CE1	CE1	. PHE PHE PHE A A 306 306 .	0.6180	0.5910	0.6003	0.0021	-0.0361	-
0.0409	1	.							
2342	CZ	CZ	. PHE PHE PHE A A 306 306 .	0.5899	0.5844	0.6063	0.0127	-0.0208	-
0.0365	1	.							
2343	CE2	CE2	. PHE PHE PHE A A 306 306 .	0.6003	0.6091	0.6242	0.0116	-0.0160	-
0.0026	1	.							
2344	CD2	CD2	. PHE PHE PHE A A 306 306 .	0.5964	0.6085	0.5740	0.0078	-0.0190	-
0.0112	1	.							
2345	C	C	. PHE PHE PHE A A 306 306 .	0.5846	0.5891	0.5654	0.0067	-0.0141	-
0.0046	1	.							
2346	O	O	. PHE PHE PHE A A 306 306 .	0.5918	0.6047	0.5683	0.0108	-0.0296	-
0.0102	1	.							
2347	N	N	. THR THR THR A A 307 307 .	0.5791	0.5765	0.5627	0.0027	-0.0118	-
0.0016	1	.							
2348	CA	CA	. THR THR THR A A 307 307 .	0.5725	0.5834	0.5672	-0.0003	-0.0166	-
0.0005	1	.							
2349	CB	CB	. THR THR THR A A 307 307 .	0.5819	0.5878	0.5665	0.0004	-0.0138	-
0.0076	1	.							
2350	OG1	OG1	. THR THR THR A A 307 307 .	0.5671	0.6049	0.5575	0.0022	-0.0515	-
0.0298	1	.							
2351	CG2	CG2	. THR THR THR A A 307 307 .	0.5525	0.5863	0.5293	-0.0073	-0.0257	-
0.0131	1	.							
2352	C	C	. THR THR THR A A 307 307 .	0.5762	0.5811	0.5700	0.0020	-0.0188	-
0.0008	1	.							

2353	O	O	. THR THR THR A A 307 307 .	0.5802	0.5795	0.5706	0.0062	-0.0297	
0.0012	1	.							
2354	N	N	. ALA ALA ALA A A 308 308 .	0.5807	0.5799	0.5772	0.0030	-0.0146	
0.0002	1	.							
2355	CA	CA	. ALA ALA ALA A A 308 308 .	0.5821	0.5788	0.5799	0.0039	-0.0159	-
0.0015	1	.							
2356	CB	CB	. ALA ALA ALA A A 308 308 .	0.5872	0.5745	0.5789	0.0040	-0.0080	
0.0013	1	.							
2357	C	C	. ALA ALA ALA A A 308 308 .	0.5779	0.5762	0.5821	0.0057	-0.0130	
0.0019	1	.							
2358	O	O	. ALA ALA ALA A A 308 308 .	0.5588	0.5576	0.5746	0.0152	-0.0220	-
0.0029	1	.							
2359	N	N	. ASN ASN ASN A A 309 309 .	0.5660	0.5861	0.5841	-0.0028	-0.0082	
0.0047	1	.							
2360	CA	CA	. ASN ASN ASN A A 309 309 .	0.5723	0.6012	0.5881	-0.0047	-0.0074	-
0.0049	1	.							
2361	CB	CB	. ASN ASN ASN A A 309 309 .	0.5840	0.6316	0.6021	-0.0136	0.0000	-
0.0040	1	.							
2362	CG	CG	. ASN ASN ASN A A 309 309 .	0.6017	0.7215	0.6294	-0.0287	-0.0028	-
0.0166	1	.							
2363	OD1	OD1	. ASN ASN ASN A A 309 309 .	0.6411	0.8386	0.6593	-0.0234	0.0157	-
0.0360	1	.							
2364	ND2	ND2	. ASN ASN ASN A A 309 309 .	0.6174	0.8222	0.6101	-0.0286	0.0185	
0.0122	1	.							
2365	C	C	. ASN ASN ASN A A 309 309 .	0.5577	0.5799	0.5744	-0.0031	-0.0051	-
0.0081	1	.							
2366	O	O	. ASN ASN ASN A A 309 309 .	0.5592	0.5911	0.5785	-0.0010	-0.0085	-
0.0139	1	.							
2367	N	N	. VAL VAL VAL A A 310 310 .	0.5549	0.5587	0.5538	-0.0024	-0.0132	-
0.0092	1	.							
2368	CA	CA	. VAL VAL VAL A A 310 310 .	0.5394	0.5510	0.5260	-0.0061	-0.0104	-
0.0103	1	.							
2369	CB	CB	. VAL VAL VAL A A 310 310 .	0.5482	0.5555	0.5270	-0.0048	-0.0109	-
0.0066	1	.							
2370	CG1	CG1	. VAL VAL VAL A A 310 310 .	0.5637	0.5747	0.5418	0.0033	0.0044	
0.0000	1	.							
2371	CG2	CG2	. VAL VAL VAL A A 310 310 .	0.5740	0.5471	0.4934	-0.0156	-0.0440	-
0.0125	1	.							
2372	C	C	. VAL VAL VAL A A 310 310 .	0.5115	0.5317	0.4977	-0.0062	-0.0046	-
0.0133	1	.							
2373	O	O	. VAL VAL VAL A A 310 310 .	0.5025	0.5290	0.4838	-0.0135	-0.0042	-
0.0147	1	.							
2374	N	N	. GLY GLY GLY A A 311 311 .	0.4856	0.5249	0.4746	-0.0075	-0.0126	-
0.0153	1	.							
2375	CA	CA	. GLY GLY GLY A A 311 311 .	0.4926	0.5146	0.4618	0.0023	-0.0017	-
0.0142	1	.							
2376	C	C	. GLY GLY GLY A A 311 311 .	0.4771	0.5093	0.4715	0.0038	0.0016	-
0.0098	1	.							
2377	O	O	. GLY GLY GLY A A 311 311 .	0.4887	0.5072	0.4507	0.0084	0.0360	-
0.0160	1	.							
2378	N	N	. ILE ILE ILE A A 312 312 .	0.4671	0.4968	0.4644	0.0069	-0.0012	-
0.0089	1	.							
2379	CA	CA	. ILE ILE ILE A A 312 312 .	0.4745	0.4792	0.4715	0.0061	-0.0006	-
0.0018	1	.							
2380	CB	CB	. ILE ILE ILE A A 312 312 .	0.4642	0.4815	0.4736	0.0085	0.0076	-
0.0014	1	.							
2381	CG1	CG1	. ILE ILE ILE A A 312 312 .	0.4563	0.4899	0.5168	0.0028	0.0006	-
0.0124	1	.							
2382	CD1	CD1	. ILE ILE ILE A A 312 312 .	0.4328	0.5032	0.5429	0.0079	-0.0285	
0.0362	1	.							



2413	O	O	. GLY GLY GLY A A 316 316 .	0.3765	0.4248	0.3774	0.0089	-0.0182	-
0.0335	1	.							
2414	N	N	. ASP ASP ASP A A 317 317 .	0.3981	0.4192	0.3906	0.0074	0.0073	-
0.0095	1	.							
2415	CA	CA	. ASP ASP ASP A A 317 317 .	0.3972	0.4224	0.3935	0.0097	0.0068	-
0.0026	1	.							
2416	CB	CB	. ASP ASP ASP A A 317 317 .	0.3832	0.4196	0.4066	0.0094	0.0083	-
0.0023	1	.							
2417	CG	CG	. ASP ASP ASP A A 317 317 .	0.3692	0.4394	0.4119	0.0101	-0.0016	-
0.0010	1	.							
2418	OD1	OD1	. ASP ASP ASP A A 317 317 .	0.2635	0.4186	0.4340	0.0425	-0.0393	-
0.0170	1	.							
2419	OD2	OD2	. ASP ASP ASP A A 317 317 .	0.4366	0.4806	0.4818	0.0009	-0.0313	-
0.0415	1	.							
2420	C	C	. ASP ASP ASP A A 317 317 .	0.4076	0.4158	0.4015	0.0038	0.0045	-
0.0032	1	.							
2421	O	O	. ASP ASP ASP A A 317 317 .	0.4084	0.4116	0.3698	-0.0002	0.0059	-
0.0036	1	.							
2422	N	N	. ASP ASP ASP A A 318 318 .	0.4161	0.4303	0.4063	0.0143	0.0060	-
0.0059	1	.							
2423	CA	CA	. ASP ASP ASP A A 318 318 .	0.4291	0.4331	0.4258	0.0108	0.0013	-
0.0036	1	.							
2424	CB	CB	. ASP ASP ASP A A 318 318 .	0.4296	0.4476	0.4313	0.0185	0.0070	-
0.0068	1	.							
2425	CG	CG	. ASP ASP ASP A A 318 318 .	0.4830	0.4860	0.4726	0.0168	0.0124	-
0.0047	1	.							
2426	OD1	OD1	. ASP ASP ASP A A 318 318 .	0.5252	0.5413	0.5148	0.0424	-0.0247	-
0.0189	1	.							
2427	OD2	OD2	. ASP ASP ASP A A 318 318 .	0.5144	0.5197	0.4999	0.0189	0.0480	-
0.0219	1	.							
2428	C	C	. ASP ASP ASP A A 318 318 .	0.4198	0.4340	0.4210	0.0120	-0.0101	-
0.0075	1	.							
2429	O	O	. ASP ASP ASP A A 318 318 .	0.4116	0.4416	0.4345	-0.0021	-0.0246	-
0.0028	1	.							
2430	N	N	. LEU LEU LEU A A 319 319 .	0.4068	0.4316	0.4219	0.0170	-0.0098	-
0.0041	1	.							
2431	CA	CA	. LEU LEU LEU A A 319 319 .	0.4012	0.4237	0.4111	0.0072	-0.0062	-
0.0022	1	.							
2432	CB	CB	. LEU LEU LEU A A 319 319 .	0.3749	0.4027	0.4126	0.0091	-0.0088	-
0.0063	1	.							
2433	CG	CG	. LEU LEU LEU A A 319 319 .	0.3157	0.3998	0.4074	0.0059	-0.0085	-
0.0010	1	.							
2434	CD1	CD1	. LEU LEU LEU A A 319 319 .	0.2688	0.3656	0.4088	0.0074	-0.0014	-
0.0431	1	.							
2435	CD2	CD2	. LEU LEU LEU A A 319 319 .	0.1877	0.4427	0.4281	0.0381	0.0169	-
0.0266	1	.							
2436	C	C	. LEU LEU LEU A A 319 319 .	0.4265	0.4247	0.4255	0.0120	-0.0136	-
0.0007	1	.							
2437	O	O	. LEU LEU LEU A A 319 319 .	0.4484	0.4216	0.4253	0.0343	-0.0258	-
0.0169	1	.							
2438	N	N	. THR THR THR A A 320 320 .	0.4164	0.4283	0.4200	0.0135	-0.0153	-
0.0042	1	.							
2439	CA	CA	. THR THR THR A A 320 320 .	0.4110	0.4205	0.3995	0.0039	-0.0098	-
0.0014	1	.							
2440	CB	CB	. THR THR THR A A 320 320 .	0.4214	0.4233	0.4006	0.0066	-0.0189	-
0.0013	1	.							
2441	OG1	OG1	. THR THR THR A A 320 320 .	0.4214	0.4447	0.3765	-0.0072	-0.0431	-
0.0062	1	.							
2442	CG2	CG2	. THR THR THR A A 320 320 .	0.4254	0.4182	0.3831	0.0193	0.0079	-
0.0056	1	.							

2443	C	C	. THR THR THR A A 320 320 .	0.4120	0.4123	0.4051	0.0043	-0.0028	
0.0001	1	.							
2444	O	O	. THR THR THR A A 320 320 .	0.4205	0.4311	0.4129	-0.0037	-0.0012	-
0.0059	1	.							
2445	N	N	. VAL VAL VAL A A 321 321 .	0.3964	0.4004	0.3961	0.0020	0.0034	-
0.0009	1	.							
2446	CA	CA	. VAL VAL VAL A A 321 321 .	0.3905	0.3944	0.3840	0.0029	-0.0018	
0.0063	1	.							
2447	CB	CB	. VAL VAL VAL A A 321 321 .	0.3950	0.3855	0.3913	0.0014	-0.0040	
0.0071	1	.							
2448	CG1	CG1	. VAL VAL VAL A A 321 321 .	0.4046	0.3755	0.3914	-0.0023	0.0066	
0.0187	1	.							
2449	CG2	CG2	. VAL VAL VAL A A 321 321 .	0.4399	0.4134	0.3784	-0.0204	-0.0133	
0.0177	1	.							
2450	C	C	. VAL VAL VAL A A 321 321 .	0.3891	0.3904	0.3804	0.0007	-0.0047	
0.0023	1	.							
2451	O	O	. VAL VAL VAL A A 321 321 .	0.3848	0.4074	0.3755	0.0047	-0.0059	
0.0004	1	.							
2452	N	N	. THR THR THR A A 322 322 .	0.3815	0.3895	0.3854	0.0065	-0.0004	-
0.0017	1	.							
2453	CA	CA	. THR THR THR A A 322 322 .	0.3786	0.4016	0.3840	0.0030	-0.0135	-
0.0080	1	.							
2454	CB	CB	. THR THR THR A A 322 322 .	0.3746	0.4024	0.3777	0.0005	-0.0107	-
0.0056	1	.							
2455	OG1	OG1	. THR THR THR A A 322 322 .	0.3388	0.4334	0.3357	0.0055	-0.0635	-
0.0241	1	.							
2456	CG2	CG2	. THR THR THR A A 322 322 .	0.3677	0.4062	0.3438	0.0350	-0.0169	-
0.0174	1	.							
2457	C	C	. THR THR THR A A 322 322 .	0.4059	0.4220	0.4024	0.0016	-0.0081	-
0.0076	1	.							
2458	O	O	. THR THR THR A A 322 322 .	0.4038	0.4224	0.4096	-0.0038	-0.0070	-
0.0028	1	.							
2459	N	N	. ASN ASN ASN A A 323 323 .	0.4492	0.4537	0.4317	0.0043	-0.0147	-
0.0067	1	.							
2460	CA	CA	. ASN ASN ASN A A 323 323 .	0.4874	0.4663	0.4523	0.0018	-0.0109	-
0.0039	1	.							
2461	CB	CB	. ASN ASN ASN A A 323 323 .	0.5152	0.4796	0.4522	0.0092	-0.0075	-
0.0076	1	.							
2462	CG	CG	. ASN ASN ASN A A 323 323 .	0.6054	0.4936	0.4775	0.0183	-0.0038	
0.0144	1	.							
2463	OD1	OD1	. ASN ASN ASN A A 323 323 .	0.6964	0.5779	0.4724	-0.0139	0.0643	
0.0142	1	.							
2464	ND2	ND2	. ASN ASN ASN A A 323 323 .	0.6437	0.4953	0.4327	0.0305	-0.0387	
0.0403	1	.							
2465	C	C	. ASN ASN ASN A A 323 323 .	0.4930	0.4787	0.4685	0.0011	-0.0040	-
0.0003	1	.							
2466	O	O	. ASN ASN ASN A A 323 323 .	0.5120	0.4654	0.4435	0.0063	-0.0056	
0.0011	1	.							
2467	N	N	. PRO PRO PRO A A 324 324 .	0.5140	0.4956	0.4907	-0.0020	-0.0049	
0.0015	1	.							
2468	CA	CA	. PRO PRO PRO A A 324 324 .	0.5291	0.5191	0.5108	-0.0039	-0.0048	
0.0013	1	.							
2469	CB	CB	. PRO PRO PRO A A 324 324 .	0.5300	0.5225	0.5147	-0.0050	-0.0042	-
0.0004	1	.							
2470	CG	CG	. PRO PRO PRO A A 324 324 .	0.5357	0.5213	0.5076	0.0055	-0.0012	
0.0021	1	.							
2471	CD	CD	. PRO PRO PRO A A 324 324 .	0.5013	0.4952	0.4995	-0.0006	-0.0069	
0.0093	1	.							
2472	C	C	. PRO PRO PRO A A 324 324 .	0.5414	0.5312	0.5274	0.0036	-0.0031	
0.0039	1	.							



2473	O	O	. PRO PRO PRO A A 324 324 .	0.5584	0.5395	0.5320	-0.0079	-0.0088
0.0013	1	.						
2474	N	N	. LYS LYS LYS A A 325 325 .	0.5568	0.5435	0.5331	0.0090	0.0045
0.0037	1	.						
2475	CA	CA	. LYS LYS LYS A A 325 325 .	0.5580	0.5609	0.5475	0.0087	-0.0017
0.0124	1	.						
2476	CB	CB	. LYS LYS LYS A A 325 325 .	0.5689	0.5650	0.5626	0.0140	0.0081
0.0192	1	.						
2477	CG	CG	. LYS LYS LYS A A 325 325 .	0.6101	0.6333	0.6252	0.0067	-0.0149
0.0449	1	.						
2478	CD	CD	. LYS LYS LYS A A 325 325 .	0.6711	0.6896	0.6952	-0.0412	-0.0158
0.0666	1	.						
2479	CE	CE	. LYS LYS LYS A A 325 325 .	0.7307	0.7072	0.7085	-0.0522	-0.0545
0.0399	1	.						
2480	NZ	NZ	. LYS LYS LYS A A 325 325 .	0.7674	0.7410	0.6720	-0.0856	-0.0958
0.0203	1	.						
2481	C	C	. LYS LYS LYS A A 325 325 .	0.5576	0.5546	0.5323	0.0081	0.0004
0.0111	1	.						
2482	O	O	. LYS LYS LYS A A 325 325 .	0.5679	0.5683	0.5264	0.0258	-0.0016
0.0210	1	.						
2483	N	N	. ARG ARG ARG A A 326 326 .	0.5476	0.5441	0.5147	0.0032	-0.0024
0.0104	1	.						
2484	CA	CA	. ARG ARG ARG A A 326 326 .	0.5272	0.5176	0.5043	-0.0019	0.0014
0.0077	1	.						
2485	CB	CB	. ARG ARG ARG A A 326 326 .	0.5318	0.5184	0.5104	-0.0096	0.0015
0.0059	1	.						
2486	CG	CG	. ARG ARG ARG A A 326 326 .	0.5512	0.5265	0.5186	0.0026	-0.0049 -
0.0109	1	.						
2487	CD	CD	. ARG ARG ARG A A 326 326 .	0.5803	0.5886	0.5530	0.0278	0.0066
0.0024	1	.						
2488	NE	NE	. ARG ARG ARG A A 326 326 .	0.6267	0.6543	0.5980	0.0507	-0.0370 -
0.0063	1	.						
2489	CZ	CZ	. ARG ARG ARG A A 326 326 .	0.6371	0.6207	0.5806	0.0365	-0.0511 -
0.0087	1	.						
2490	NH1	NH1	. ARG ARG ARG A A 326 326 .	0.6051	0.6026	0.4762	0.1061	-0.1000
0.0176	1	.						
2491	NH2	NH2	. ARG ARG ARG A A 326 326 .	0.6957	0.6580	0.6158	0.0836	-0.0187 -
0.0461	1	.						
2492	C	C	. ARG ARG ARG A A 326 326 .	0.5125	0.5117	0.4983	-0.0032	0.0009
0.0156	1	.						
2493	O	O	. ARG ARG ARG A A 326 326 .	0.4989	0.4996	0.4740	-0.0035	-0.0072
0.0213	1	.						
2494	N	N	. ILE ILE ILE A A 327 327 .	0.4930	0.5043	0.4974	0.0045	-0.0021
0.0154	1	.						
2495	CA	CA	. ILE ILE ILE A A 327 327 .	0.4927	0.5004	0.4979	0.0062	-0.0053
0.0034	1	.						
2496	CB	CB	. ILE ILE ILE A A 327 327 .	0.4858	0.4933	0.4836	0.0189	-0.0175
0.0015	1	.						
2497	CG1	CG1	. ILE ILE ILE A A 327 327 .	0.4601	0.4729	0.4966	0.0256	-0.0247 -
0.0157	1	.						
2498	CD1	CD1	. ILE ILE ILE A A 327 327 .	0.4719	0.4193	0.4451	0.0533	-0.0892
0.0088	1	.						
2499	CG2	CG2	. ILE ILE ILE A A 327 327 .	0.4453	0.4501	0.4726	0.0117	-0.0112
0.0055	1	.						
2500	C	C	. ILE ILE ILE A A 327 327 .	0.5133	0.5172	0.5173	0.0068	-0.0069
0.0048	1	.						
2501	O	O	. ILE ILE ILE A A 327 327 .	0.5219	0.5190	0.5210	0.0005	0.0029
0.0005	1	.						
2502	N	N	. GLU GLU GLU A A 328 328 .	0.5318	0.5288	0.5370	0.0029	-0.0016
0.0041	1	.						

2503	CA	CA	. GLU GLU GLU A A 328 328 .	0.5531	0.5462	0.5402	0.0047	-0.0022	
0.0086	1	.							
2504	CB	CB	. GLU GLU GLU A A 328 328 .	0.5644	0.5391	0.5447	0.0072	-0.0002	
0.0003	1	.							
2505	CG	CG	. GLU GLU GLU A A 328 328 .	0.6085	0.6007	0.6370	-0.0040	-0.0044	
0.0117	1	.							
2506	CD	CD	. GLU GLU GLU A A 328 328 .	0.6770	0.6891	0.7194	-0.0085	0.0145	
0.0090	1	.							
2507	OE1	OE1	. GLU GLU GLU A A 328 328 .	0.6878	0.7135	0.7930	-0.0333	-0.0074	
0.0270	1	.							
2508	OE2	OE2	. GLU GLU GLU A A 328 328 .	0.7129	0.6901	0.7716	-0.0200	-0.0128	
0.0118	1	.							
2509	C	C	. GLU GLU GLU A A 328 328 .	0.5582	0.5464	0.5386	0.0133	-0.0053	
0.0088	1	.							
2510	O	O	. GLU GLU GLU A A 328 328 .	0.5915	0.5400	0.5279	0.0211	-0.0039	
0.0165	1	.							
2511	N	N	. ARG ARG ARG A A 329 329 .	0.5520	0.5600	0.5384	0.0154	-0.0057	
0.0065	1	.							
2512	CA	CA	. ARG ARG ARG A A 329 329 .	0.5519	0.5601	0.5505	0.0078	-0.0050	
0.0054	1	.							
2513	CB	CB	. ARG ARG ARG A A 329 329 .	0.5426	0.5650	0.5581	0.0167	-0.0061	
0.0016	1	.							
2514	CG	CG	. ARG ARG ARG A A 329 329 .	0.5575	0.5701	0.6093	0.0072	0.0164	-
0.0036	1	.							
2515	CD	CD	. ARG ARG ARG A A 329 329 .	0.5614	0.5949	0.6493	0.0088	0.0477	-
0.0189	1	.							
2516	NE	NE	. ARG ARG ARG A A 329 329 .	0.5317	0.5958	0.6438	0.0298	0.0213	-
0.0215	1	.							
2517	CZ	CZ	. ARG ARG ARG A A 329 329 .	0.5115	0.5989	0.6595	0.0424	0.0035	-
0.0331	1	.							
2518	NH1	NH1	. ARG ARG ARG A A 329 329 .	0.3774	0.5529	0.6535	0.0511	0.0274	-
0.0746	1	.							
2519	NH2	NH2	. ARG ARG ARG A A 329 329 .	0.5019	0.5579	0.7183	0.0496	-0.0433	-
0.0032	1	.							
2520	C	C	. ARG ARG ARG A A 329 329 .	0.5522	0.5635	0.5495	0.0117	-0.0110	-
0.0014	1	.							
2521	O	O	. ARG ARG ARG A A 329 329 .	0.5589	0.5831	0.5393	0.0148	-0.0161	-
0.0064	1	.							
2522	N	N	. ALA ALA ALA A A 330 330 .	0.5492	0.5518	0.5415	0.0096	-0.0148	
0.0044	1	.							
2523	CA	CA	. ALA ALA ALA A A 330 330 .	0.5499	0.5389	0.5335	0.0016	-0.0151	
0.0077	1	.							
2524	CB	CB	. ALA ALA ALA A A 330 330 .	0.5257	0.5352	0.5275	0.0017	-0.0187	
0.0001	1	.							
2525	C	C	. ALA ALA ALA A A 330 330 .	0.5489	0.5362	0.5286	0.0054	-0.0146	
0.0166	1	.							
2526	O	O	. ALA ALA ALA A A 330 330 .	0.5671	0.5408	0.5014	0.0152	-0.0315	
0.0293	1	.							
2527	N	N	. VAL VAL VAL A A 331 331 .	0.5361	0.5343	0.5315	0.0077	-0.0151	
0.0162	1	.							
2528	CA	CA	. VAL VAL VAL A A 331 331 .	0.5486	0.5429	0.5398	0.0039	-0.0104	
0.0042	1	.							
2529	CB	CB	. VAL VAL VAL A A 331 331 .	0.5336	0.5318	0.5325	0.0005	-0.0085	
0.0012	1	.							
2530	CG1	CG1	. VAL VAL VAL A A 331 331 .	0.5454	0.5245	0.5360	-0.0043	0.0137	-
0.0025	1	.							
2531	CG2	CG2	. VAL VAL VAL A A 331 331 .	0.5284	0.4843	0.5060	-0.0155	0.0149	-
0.0182	1	.							
2532	C	C	. VAL VAL VAL A A 331 331 .	0.5605	0.5685	0.5639	0.0035	-0.0212	
0.0019	1	.							

2533	O	O	. VAL VAL VAL A A 331 331 .	0.5735	0.5807	0.5527	0.0114	-0.0414	
0.0084	1	.							
2534	N	N	. GLU GLU GLU A A 332 332 .	0.5810	0.5798	0.5887	0.0031	-0.0193	
0.0081	1	.							
2535	CA	CA	. GLU GLU GLU A A 332 332 .	0.6113	0.6035	0.6095	-0.0019	-0.0194	
0.0077	1	.							
2536	CB	CB	. GLU GLU GLU A A 332 332 .	0.6418	0.6189	0.6169	-0.0058	-0.0247	
0.0094	1	.							
2537	CG	CG	. GLU GLU GLU A A 332 332 .	0.6877	0.6743	0.7045	0.0226	-0.0259	
0.0196	1	.							
2538	CD	CD	. GLU GLU GLU A A 332 332 .	0.7992	0.7494	0.7498	0.0169	-0.0066	
0.0235	1	.							
2539	OE1	OE1	. GLU GLU GLU A A 332 332 .	0.8288	0.7399	0.8252	0.0172	-0.0222	
0.0248	1	.							
2540	OE2	OE2	. GLU GLU GLU A A 332 332 .	0.8432	0.7637	0.8001	0.0392	0.0186	
0.0153	1	.							
2541	C	C	. GLU GLU GLU A A 332 332 .	0.6076	0.6004	0.6044	-0.0105	-0.0123	
0.0058	1	.							
2542	O	O	. GLU GLU GLU A A 332 332 .	0.6113	0.5996	0.6105	-0.0236	-0.0100	
0.0100	1	.							
2543	N	N	. GLU GLU GLU A A 333 333 .	0.5997	0.5944	0.5978	-0.0115	-0.0064	
0.0022	1	.							
2544	CA	CA	. GLU GLU GLU A A 333 333 .	0.5959	0.6038	0.6054	-0.0044	-0.0089	-
0.0028	1	.							
2545	CB	CB	. GLU GLU GLU A A 333 333 .	0.5890	0.6193	0.6170	-0.0084	-0.0030	-
0.0016	1	.							
2546	CG	CG	. GLU GLU GLU A A 333 333 .	0.6334	0.6497	0.6879	-0.0231	-0.0113	
0.0031	1	.							
2547	CD	CD	. GLU GLU GLU A A 333 333 .	0.6911	0.7299	0.7287	-0.0329	0.0007	-
0.0010	1	.							
2548	OE1	OE1	. GLU GLU GLU A A 333 333 .	0.6933	0.7428	0.7595	-0.0492	-0.0352	-
0.0041	1	.							
2549	OE2	OE2	. GLU GLU GLU A A 333 333 .	0.7097	0.7543	0.8043	-0.0654	-0.0263	
0.0328	1	.							
2550	C	C	. GLU GLU GLU A A 333 333 .	0.5910	0.6018	0.5934	-0.0024	-0.0106	-
0.0010	1	.							
2551	O	O	. GLU GLU GLU A A 333 333 .	0.5768	0.6082	0.5901	-0.0013	-0.0149	
0.0000	1	.							
2552	N	N	. LYS LYS LYS A A 334 334 .	0.5910	0.5850	0.5759	0.0024	-0.0070	-
0.0100	1	.							
2553	CA	CA	. LYS LYS LYS A A 334 334 .	0.5887	0.5860	0.5677	0.0011	-0.0066	-
0.0030	1	.							
2554	CB	CB	. LYS LYS LYS A A 334 334 .	0.5922	0.5910	0.5842	0.0007	-0.0062	-
0.0122	1	.							
2555	CG	CG	. LYS LYS LYS A A 334 334 .	0.6145	0.6311	0.6015	0.0068	-0.0114	
0.0078	1	.							
2556	CD	CD	. LYS LYS LYS A A 334 334 .	0.6554	0.7161	0.6877	0.0242	-0.0647	
0.0006	1	.							
2557	CE	CE	. LYS LYS LYS A A 334 334 .	0.6995	0.7648	0.7083	0.0268	-0.0939	
0.0049	1	.							
2558	NZ	NZ	. LYS LYS LYS A A 334 334 .	0.6972	0.8104	0.6161	0.0789	-0.1303	
0.0214	1	.							
2559	C	C	. LYS LYS LYS A A 334 334 .	0.5798	0.5661	0.5478	0.0042	-0.0165	-
0.0046	1	.							
2560	O	O	. LYS LYS LYS A A 334 334 .	0.6047	0.5626	0.5440	-0.0084	-0.0284	-
0.0043	1	.							
2561	N	N	. ALA ALA ALA A A 335 335 .	0.5510	0.5427	0.5250	0.0135	-0.0122	-
0.0042	1	.							
2562	CA	CA	. ALA ALA ALA A A 335 335 .	0.5228	0.5163	0.5008	0.0138	-0.0132	-
0.0029	1	.							

2563	CB	CB	. ALA ALA ALA A A 335 335 .	0.5185	0.5205	0.4981	0.0215	-0.0117	-
0.0093	1	.							
2564	C	C	. ALA ALA ALA A A 335 335 .	0.4957	0.5052	0.4803	0.0080	-0.0143	-
0.0019	1	.							
2565	O	O	. ALA ALA ALA A A 335 335 .	0.4848	0.5063	0.4853	0.0099	-0.0186	
0.0025	1	.							
2566	N	N	. CYS CYS CYS A A 336 336 .	0.4708	0.4811	0.4511	0.0089	-0.0172	
0.0005	1	.							
2567	CA	CA	. CYS CYS CYS A A 336 336 .	0.4604	0.4747	0.4485	0.0053	-0.0174	-
0.0009	1	.							
2568	CB	CB	. CYS CYS CYS A A 336 336 .	0.4515	0.4739	0.4588	0.0118	-0.0235	
0.0062	1	.							
2569	SG	SG	. CYS CYS CYS A A 336 336 .	0.5180	0.5099	0.4595	0.0198	-0.0986	
0.0188	1	.							
2570	C	C	. CYS CYS CYS A A 336 336 .	0.4633	0.4580	0.4397	0.0045	-0.0125	-
0.0037	1	.							
2571	O	O	. CYS CYS CYS A A 336 336 .	0.4768	0.4453	0.4141	-0.0020	-0.0129	-
0.0003	1	.							
2572	N	N	. ASN ASN ASN A A 337 337 .	0.4509	0.4361	0.4268	0.0063	-0.0131	-
0.0014	1	.							
2573	CA	CA	. ASN ASN ASN A A 337 337 .	0.4371	0.4307	0.4256	0.0138	-0.0180	-
0.0007	1	.							
2574	CB	CB	. ASN ASN ASN A A 337 337 .	0.4312	0.4355	0.4263	0.0119	-0.0219	-
0.0013	1	.							
2575	CG	CG	. ASN ASN ASN A A 337 337 .	0.4566	0.4595	0.4469	0.0115	-0.0550	
0.0071	1	.							
2576	OD1	OD1	. ASN ASN ASN A A 337 337 .	0.4339	0.5234	0.4590	0.0278	-0.1149	
0.0207	1	.							
2577	ND2	ND2	. ASN ASN ASN A A 337 337 .	0.4522	0.5216	0.3809	0.0334	-0.0813	-
0.0001	1	.							
2578	C	C	. ASN ASN ASN A A 337 337 .	0.4432	0.4250	0.4095	0.0223	-0.0166	
0.0040	1	.							
2579	O	O	. ASN ASN ASN A A 337 337 .	0.4607	0.4087	0.3976	0.0374	-0.0213	
0.0127	1	.							
2580	N	N	. CYS CYS CYS A A 338 338 .	0.4404	0.4132	0.4109	0.0243	-0.0153	
0.0117	1	.							
2581	CA	CA	. CYS CYS CYS A A 338 338 .	0.4242	0.4144	0.4070	0.0237	-0.0175	
0.0011	1	.							
2582	CB	CB	. CYS CYS CYS A A 338 338 .	0.4305	0.4207	0.4075	0.0339	-0.0324	
0.0055	1	.							
2583	SG	SG	. CYS CYS CYS A A 338 338 .	0.3983	0.4441	0.4879	0.0905	-0.0120	
0.0068	1	.							
2584	C	C	. CYS CYS CYS A A 338 338 .	0.4110	0.4094	0.3952	0.0131	-0.0113	
0.0005	1	.							
2585	O	O	. CYS CYS CYS A A 338 338 .	0.3935	0.4198	0.4251	0.0261	-0.0208	-
0.0026	1	.							
2586	N	N	. LEU LEU LEU A A 339 339 .	0.3921	0.4115	0.3663	0.0142	-0.0084	-
0.0032	1	.							
2587	CA	CA	. LEU LEU LEU A A 339 339 .	0.4009	0.4144	0.3729	0.0119	-0.0101	
0.0029	1	.							
2588	CB	CB	. LEU LEU LEU A A 339 339 .	0.4156	0.4021	0.3725	0.0155	-0.0142	
0.0030	1	.							
2589	CG	CG	. LEU LEU LEU A A 339 339 .	0.4160	0.4205	0.3396	0.0260	-0.0126	-
0.0030	1	.							
2590	CD1	CD1	. LEU LEU LEU A A 339 339 .	0.4251	0.4050	0.2796	0.0845	-0.0687	
0.0133	1	.							
2591	CD2	CD2	. LEU LEU LEU A A 339 339 .	0.3870	0.4332	0.3475	0.0293	-0.0033	-
0.0383	1	.							
2592	C	C	. LEU LEU LEU A A 339 339 .	0.3963	0.4160	0.3540	0.0150	-0.0112	-
0.0004	1	.							

2593	O	O	. LEU LEU LEU A A 339 339 .	0.3846	0.4159	0.3164	0.0271	-0.0225	-
0.0102	1	.							
2594	N	N	. LEU LEU LEU A A 340 340 .	0.3889	0.4136	0.3719	0.0089	-0.0072	
0.0076	1	.							
2595	CA	CA	. LEU LEU LEU A A 340 340 .	0.3859	0.4055	0.3669	0.0045	-0.0039	
0.0064	1	.							
2596	CB	CB	. LEU LEU LEU A A 340 340 .	0.3791	0.4190	0.3835	0.0053	-0.0033	
0.0098	1	.							
2597	CG	CG	. LEU LEU LEU A A 340 340 .	0.3629	0.3984	0.4147	0.0174	-0.0063	
0.0006	1	.							
2598	CD1	CD1	. LEU LEU LEU A A 340 340 .	0.3483	0.4147	0.3919	0.0416	-0.0463	-
0.0500	1	.							
2599	CD2	CD2	. LEU LEU LEU A A 340 340 .	0.4427	0.3719	0.3624	0.0034	-0.0223	-
0.0753	1	.							
2600	C	C	. LEU LEU LEU A A 340 340 .	0.3912	0.3865	0.3662	0.0058	0.0037	
0.0051	1	.							
2601	O	O	. LEU LEU LEU A A 340 340 .	0.4134	0.3696	0.3540	0.0173	0.0178	-
0.0078	1	.							
2602	N	N	. LEU LEU LEU A A 341 341 .	0.3616	0.3845	0.3635	0.0028	0.0016	
0.0056	1	.							
2603	CA	CA	. LEU LEU LEU A A 341 341 .	0.3684	0.3827	0.3625	0.0050	0.0052	-
0.0044	1	.							
2604	CB	CB	. LEU LEU LEU A A 341 341 .	0.3593	0.3779	0.3539	0.0007	0.0067	
0.0089	1	.							
2605	CG	CG	. LEU LEU LEU A A 341 341 .	0.3795	0.4336	0.3843	0.0146	0.0010	
0.0077	1	.							
2606	CD1	CD1	. LEU LEU LEU A A 341 341 .	0.3570	0.4001	0.4633	0.0206	0.0120	
0.0397	1	.							
2607	CD2	CD2	. LEU LEU LEU A A 341 341 .	0.3822	0.5134	0.4262	0.0301	-0.0368	
0.0036	1	.							
2608	C	C	. LEU LEU LEU A A 341 341 .	0.3560	0.3782	0.3617	0.0074	0.0044	-
0.0022	1	.							
2609	O	O	. LEU LEU LEU A A 341 341 .	0.3482	0.3654	0.3619	0.0193	0.0141	-
0.0076	1	.							
2610	N	N	. LYS LYS LYS A A 342 342 .	0.3405	0.3845	0.3569	0.0049	0.0009	-
0.0152	1	.							
2611	CA	CA	. LYS LYS LYS A A 342 342 .	0.3417	0.3857	0.3489	-0.0024	0.0070	
0.0051	1	.							
2612	CB	CB	. LYS LYS LYS A A 342 342 .	0.3217	0.3845	0.3391	-0.0054	0.0093	-
0.0001	1	.							
2613	CG	CG	. LYS LYS LYS A A 342 342 .	0.3007	0.3822	0.3163	-0.0112	-0.0058	
0.0047	1	.							
2614	CD	CD	. LYS LYS LYS A A 342 342 .	0.2826	0.3570	0.2744	-0.0219	0.0087	
0.0039	1	.							
2615	CE	CE	. LYS LYS LYS A A 342 342 .	0.2753	0.3242	0.3439	-0.0134	-0.0019	-
0.0143	1	.							
2616	NZ	NZ	. LYS LYS LYS A A 342 342 .	0.2652	0.3577	0.3670	0.0422	-0.0053	-
0.0550	1	.							
2617	C	C	. LYS LYS LYS A A 342 342 .	0.3508	0.3781	0.3522	0.0113	0.0011	-
0.0056	1	.							
2618	O	O	. LYS LYS LYS A A 342 342 .	0.3693	0.3905	0.3419	0.0267	-0.0020	
0.0195	1	.							
2619	N	N	. VAL VAL VAL A A 343 343 .	0.3677	0.3828	0.3498	0.0047	-0.0067	
0.0023	1	.							
2620	CA	CA	. VAL VAL VAL A A 343 343 .	0.3646	0.3718	0.3581	0.0066	-0.0005	
0.0089	1	.							
2621	CB	CB	. VAL VAL VAL A A 343 343 .	0.3687	0.3918	0.3478	0.0004	-0.0061	
0.0081	1	.							
2622	CG1	CG1	. VAL VAL VAL A A 343 343 .	0.3213	0.3670	0.3275	0.0279	-0.0108	
0.0062	1	.							



2653	C	C	. GLY GLY GLY A A 347 347 .	0.3491	0.3349	0.3499	0.0015	-0.0165	
0.0098	1	.							
2654	O	O	. GLY GLY GLY A A 347 347 .	0.3637	0.3172	0.3663	-0.0010	-0.0190	
0.0149	1	.							
2655	N	N	. SER SER SER A A 348 348 .	0.3538	0.3507	0.3416	-0.0032	-0.0098	
0.0090	1	.							
2656	CA	CA	. SER SER SER A A 348 348 .	0.3750	0.3666	0.3597	0.0080	-0.0021	
0.0088	1	.							
2657	CB	CB	. SER SER SER A A 348 348 .	0.4023	0.3755	0.3575	0.0136	0.0014	
0.0150	1	.							
2658	OG	OG	. SER SER SER A A 348 348 .	0.4372	0.4211	0.3658	0.0379	-0.0023	
0.0068	1	.							
2659	C	C	. SER SER SER A A 348 348 .	0.3712	0.3722	0.3613	0.0003	-0.0027	
0.0134	1	.							
2660	O	O	. SER SER SER A A 348 348 .	0.3592	0.3790	0.3521	0.0075	-0.0187	
0.0081	1	.							
2661	N	N	. VAL VAL VAL A A 349 349 .	0.3479	0.3648	0.3625	0.0104	0.0021	
0.0288	1	.							
2662	CA	CA	. VAL VAL VAL A A 349 349 .	0.3659	0.3863	0.3631	0.0061	0.0004	
0.0070	1	.							
2663	CB	CB	. VAL VAL VAL A A 349 349 .	0.3729	0.3973	0.3696	0.0131	0.0071	
0.0070	1	.							
2664	CG1	CG1	. VAL VAL VAL A A 349 349 .	0.3531	0.4195	0.3275	0.0147	0.0299	-
0.0223	1	.							
2665	CG2	CG2	. VAL VAL VAL A A 349 349 .	0.3594	0.3974	0.3505	0.0162	-0.0007	
0.0051	1	.							
2666	C	C	. VAL VAL VAL A A 349 349 .	0.3921	0.4051	0.3909	0.0018	0.0001	
0.0063	1	.							
2667	O	O	. VAL VAL VAL A A 349 349 .	0.3948	0.4385	0.3850	0.0109	0.0040	
0.0019	1	.							
2668	N	N	. THR THR THR A A 350 350 .	0.4130	0.4189	0.3968	-0.0057	-0.0005	
0.0078	1	.							
2669	CA	CA	. THR THR THR A A 350 350 .	0.4392	0.4286	0.4108	-0.0011	-0.0183	
0.0164	1	.							
2670	CB	CB	. THR THR THR A A 350 350 .	0.4328	0.4319	0.4055	-0.0108	-0.0135	
0.0160	1	.							
2671	OG1	OG1	. THR THR THR A A 350 350 .	0.5005	0.4889	0.4115	-0.0066	-0.0203	
0.0113	1	.							
2672	CG2	CG2	. THR THR THR A A 350 350 .	0.4693	0.4576	0.4264	-0.0112	-0.0233	
0.0286	1	.							
2673	C	C	. THR THR THR A A 350 350 .	0.4220	0.4189	0.4111	-0.0065	-0.0094	
0.0081	1	.							
2674	O	O	. THR THR THR A A 350 350 .	0.4323	0.4117	0.4120	0.0001	-0.0201	
0.0220	1	.							
2675	N	N	. GLU GLU GLU A A 351 351 .	0.4282	0.4184	0.4185	0.0016	-0.0099	
0.0084	1	.							
2676	CA	CA	. GLU GLU GLU A A 351 351 .	0.4323	0.4193	0.4200	0.0062	-0.0088	
0.0048	1	.							
2677	CB	CB	. GLU GLU GLU A A 351 351 .	0.4421	0.4297	0.4322	0.0021	-0.0133	-
0.0072	1	.							
2678	CG	CG	. GLU GLU GLU A A 351 351 .	0.4909	0.4388	0.4498	0.0144	-0.0209	-
0.0020	1	.							
2679	CD	CD	. GLU GLU GLU A A 351 351 .	0.4940	0.4523	0.4966	-0.0007	0.0013	-
0.0189	1	.							
2680	OE1	OE1	. GLU GLU GLU A A 351 351 .	0.5256	0.4603	0.4694	-0.0766	0.0258	
0.0045	1	.							
2681	OE2	OE2	. GLU GLU GLU A A 351 351 .	0.4969	0.4670	0.5291	0.0075	-0.0215	
0.0028	1	.							
2682	C	C	. GLU GLU GLU A A 351 351 .	0.4332	0.4339	0.4155	0.0042	-0.0105	
0.0035	1	.							

2683	O	O	. GLU GLU GLU A A 351 351 .	0.4315	0.4638	0.4136	0.0169	-0.0228	
0.0224	1	.							
2684	N	N	. ALA ALA ALA A A 352 352 .	0.4270	0.4172	0.3999	0.0004	-0.0036	
0.0041	1	.							
2685	CA	CA	. ALA ALA ALA A A 352 352 .	0.4245	0.4127	0.3929	-0.0044	0.0038	
0.0011	1	.							
2686	CB	CB	. ALA ALA ALA A A 352 352 .	0.4297	0.4080	0.3746	-0.0055	-0.0098	-
0.0024	1	.							
2687	C	C	. ALA ALA ALA A A 352 352 .	0.4195	0.4130	0.3915	-0.0120	0.0044	-
0.0008	1	.							
2688	O	O	. ALA ALA ALA A A 352 352 .	0.4325	0.4060	0.3650	-0.0234	0.0107	-
0.0127	1	.							
2689	N	N	. ILE ILE ILE A A 353 353 .	0.4135	0.4108	0.4041	-0.0141	0.0118	
0.0028	1	.							
2690	CA	CA	. ILE ILE ILE A A 353 353 .	0.4029	0.4109	0.4141	-0.0095	0.0129	
0.0000	1	.							
2691	CB	CB	. ILE ILE ILE A A 353 353 .	0.4013	0.3982	0.4151	-0.0056	0.0097	-
0.0069	1	.							
2692	CG1	CG1	. ILE ILE ILE A A 353 353 .	0.3998	0.4229	0.4078	-0.0241	-0.0035	-
0.0210	1	.							
2693	CD1	CD1	. ILE ILE ILE A A 353 353 .	0.3811	0.4172	0.4637	-0.0307	0.0178	-
0.0171	1	.							
2694	CG2	CG2	. ILE ILE ILE A A 353 353 .	0.3772	0.3922	0.4010	-0.0460	0.0572	
0.0083	1	.							
2695	C	C	. ILE ILE ILE A A 353 353 .	0.4281	0.4393	0.4381	-0.0101	0.0034	-
0.0060	1	.							
2696	O	O	. ILE ILE ILE A A 353 353 .	0.4134	0.4561	0.4348	-0.0111	0.0100	
0.0003	1	.							
2697	N	N	. GLN GLN GLN A A 354 354 .	0.4395	0.4598	0.4616	0.0002	0.0029	-
0.0041	1	.							
2698	CA	CA	. GLN GLN GLN A A 354 354 .	0.4719	0.4824	0.4586	-0.0132	-0.0060	-
0.0033	1	.							
2699	CB	CB	. GLN GLN GLN A A 354 354 .	0.4993	0.4913	0.4666	-0.0240	-0.0032	-
0.0047	1	.							
2700	CG	CG	. GLN GLN GLN A A 354 354 .	0.5729	0.5615	0.5384	-0.0400	-0.0093	
0.0196	1	.							
2701	CD	CD	. GLN GLN GLN A A 354 354 .	0.6674	0.6136	0.6138	-0.0346	0.0043	
0.0095	1	.							
2702	OE1	OE1	. GLN GLN GLN A A 354 354 .	0.7180	0.6932	0.6327	-0.0859	-0.0172	
0.0235	1	.							
2703	NE2	NE2	. GLN GLN GLN A A 354 354 .	0.6961	0.6605	0.6174	-0.0377	0.0422	
0.0516	1	.							
2704	C	C	. GLN GLN GLN A A 354 354 .	0.4615	0.4772	0.4554	-0.0187	-0.0021	-
0.0116	1	.							
2705	O	O	. GLN GLN GLN A A 354 354 .	0.4501	0.4892	0.4638	-0.0188	0.0014	-
0.0262	1	.							
2706	N	N	. ALA ALA ALA A A 355 355 .	0.4659	0.4694	0.4473	-0.0197	-0.0070	-
0.0100	1	.							
2707	CA	CA	. ALA ALA ALA A A 355 355 .	0.4481	0.4673	0.4434	-0.0022	-0.0109	-
0.0040	1	.							
2708	CB	CB	. ALA ALA ALA A A 355 355 .	0.4451	0.4612	0.4445	-0.0010	-0.0108	-
0.0156	1	.							
2709	C	C	. ALA ALA ALA A A 355 355 .	0.4547	0.4735	0.4450	0.0029	-0.0153	-
0.0019	1	.							
2710	O	O	. ALA ALA ALA A A 355 355 .	0.4349	0.4715	0.4334	-0.0029	-0.0355	
0.0022	1	.							
2711	N	N	. CYS CYS CYS A A 356 356 .	0.4711	0.4814	0.4488	0.0205	-0.0114	-
0.0025	1	.							
2712	CA	CA	. CYS CYS CYS A A 356 356 .	0.4796	0.4733	0.4435	0.0255	-0.0068	-
0.0031	1	.							



2713	CB	CB	. CYS CYS CYS A A 356 356 .	0.4760	0.4746	0.4237	0.0344	-0.0038	-
0.0005	1	.							
2714	SG	SG	. CYS CYS CYS A A 356 356 .	0.5657	0.5022	0.4201	0.0565	-0.0262	-
0.0054	1	.							
2715	C	C	. CYS CYS CYS A A 356 356 .	0.4677	0.4739	0.4514	0.0203	-0.0042	
0.0032	1	.							
2716	O	O	. CYS CYS CYS A A 356 356 .	0.4495	0.4610	0.4508	0.0311	-0.0075	-
0.0043	1	.							
2717	N	N	. LYS LYS LYS A A 357 357 .	0.4861	0.4764	0.4674	0.0069	0.0022	
0.0096	1	.							
2718	CA	CA	. LYS LYS LYS A A 357 357 .	0.5041	0.5003	0.4798	0.0001	0.0057	
0.0056	1	.							
2719	CB	CB	. LYS LYS LYS A A 357 357 .	0.4941	0.5226	0.4978	-0.0076	0.0149	
0.0160	1	.							
2720	CG	CG	. LYS LYS LYS A A 357 357 .	0.5756	0.5973	0.5297	0.0033	-0.0068	
0.0224	1	.							
2721	CD	CD	. LYS LYS LYS A A 357 357 .	0.6232	0.6862	0.6617	-0.0376	-0.0114	
0.0406	1	.							
2722	CE	CE	. LYS LYS LYS A A 357 357 .	0.7350	0.7151	0.7067	-0.0369	-0.0298	
0.0353	1	.							
2723	NZ	NZ	. LYS LYS LYS A A 357 357 .	0.8001	0.8011	0.7041	-0.0324	-0.0167	
0.0540	1	.							
2724	C	C	. LYS LYS LYS A A 357 357 .	0.4919	0.4821	0.4616	0.0031	0.0076	
0.0067	1	.							
2725	O	O	. LYS LYS LYS A A 357 357 .	0.5077	0.4745	0.4645	0.0065	0.0144	-
0.0020	1	.							
2726	N	N	. LEU LEU LEU A A 358 358 .	0.4921	0.4768	0.4554	0.0006	0.0011	
0.0093	1	.							
2727	CA	CA	. LEU LEU LEU A A 358 358 .	0.4870	0.4888	0.4541	0.0080	-0.0031	
0.0129	1	.							
2728	CB	CB	. LEU LEU LEU A A 358 358 .	0.4965	0.5029	0.4571	0.0255	-0.0102	
0.0156	1	.							
2729	CG	CG	. LEU LEU LEU A A 358 358 .	0.4705	0.5545	0.4645	0.0235	-0.0063	
0.0056	1	.							
2730	CD1	CD1	. LEU LEU LEU A A 358 358 .	0.4574	0.5764	0.4660	0.0642	-0.0397	
0.0013	1	.							
2731	CD2	CD2	. LEU LEU LEU A A 358 358 .	0.4675	0.5807	0.4467	0.0290	-0.0082	
0.0163	1	.							
2732	C	C	. LEU LEU LEU A A 358 358 .	0.4946	0.4825	0.4514	0.0057	-0.0091	
0.0145	1	.							
2733	O	O	. LEU LEU LEU A A 358 358 .	0.5140	0.4923	0.4479	0.0099	-0.0127	
0.0358	1	.							
2734	N	N	. ALA ALA ALA A A 359 359 .	0.4754	0.4723	0.4346	0.0017	-0.0056	
0.0115	1	.							
2735	CA	CA	. ALA ALA ALA A A 359 359 .	0.4684	0.4486	0.4313	0.0095	-0.0026	
0.0080	1	.							
2736	CB	CB	. ALA ALA ALA A A 359 359 .	0.4629	0.4473	0.4319	0.0151	0.0085	
0.0019	1	.							
2737	C	C	. ALA ALA ALA A A 359 359 .	0.4638	0.4430	0.4340	0.0051	-0.0080	
0.0121	1	.							
2738	O	O	. ALA ALA ALA A A 359 359 .	0.4701	0.4388	0.4268	0.0141	-0.0235	
0.0065	1	.							
2739	N	N	. GLN GLN GLN A A 360 360 .	0.4483	0.4460	0.4351	0.0087	-0.0141	
0.0178	1	.							
2740	CA	CA	. GLN GLN GLN A A 360 360 .	0.4581	0.4662	0.4467	0.0032	-0.0134	
0.0136	1	.							
2741	CB	CB	. GLN GLN GLN A A 360 360 .	0.4671	0.4649	0.4468	0.0212	-0.0189	
0.0210	1	.							
2742	CG	CG	. GLN GLN GLN A A 360 360 .	0.4970	0.4930	0.4396	0.0223	0.0001	
0.0189	1	.							

2743	CD	CD	. GLN GLN GLN A A 360 360 .	0.5037	0.5056	0.4534	-0.0036	-0.0151	
0.0392	1	.							
2744	OE1	OE1	. GLN GLN GLN A A 360 360 .	0.5166	0.5130	0.4924	0.0118	0.0144	
0.0089	1	.							
2745	NE2	NE2	. GLN GLN GLN A A 360 360 .	0.5428	0.4777	0.5040	-0.0109	-0.0676	
0.0359	1	.							
2746	C	C	. GLN GLN GLN A A 360 360 .	0.4628	0.4715	0.4630	0.0023	-0.0235	
0.0143	1	.							
2747	O	O	. GLN GLN GLN A A 360 360 .	0.4674	0.4736	0.4681	0.0030	-0.0203	
0.0227	1	.							
2748	N	N	. GLU GLU GLU A A 361 361 .	0.4652	0.4933	0.4801	-0.0076	-0.0280	
0.0127	1	.							
2749	CA	CA	. GLU GLU GLU A A 361 361 .	0.4907	0.5149	0.4992	-0.0139	-0.0140	
0.0148	1	.							
2750	CB	CB	. GLU GLU GLU A A 361 361 .	0.5080	0.5237	0.5082	-0.0184	-0.0211	
0.0186	1	.							
2751	CG	CG	. GLU GLU GLU A A 361 361 .	0.5580	0.5875	0.5907	-0.0256	-0.0083	
0.0172	1	.							
2752	CD	CD	. GLU GLU GLU A A 361 361 .	0.6842	0.6281	0.6870	-0.0069	0.0032	-
0.0105	1	.							
2753	OE1	OE1	. GLU GLU GLU A A 361 361 .	0.7047	0.6524	0.7295	0.0228	0.0286	-
0.0010	1	.							
2754	OE2	OE2	. GLU GLU GLU A A 361 361 .	0.6862	0.6961	0.7141	-0.0178	0.0212	
0.0092	1	.							
2755	C	C	. GLU GLU GLU A A 361 361 .	0.4949	0.5207	0.4843	-0.0186	-0.0131	
0.0106	1	.							
2756	O	O	. GLU GLU GLU A A 361 361 .	0.5065	0.5376	0.4979	-0.0325	0.0019	
0.0070	1	.							
2757	N	N	. ASN ASN ASN A A 362 362 .	0.4916	0.5262	0.4823	-0.0136	-0.0167	
0.0048	1	.							
2758	CA	CA	. ASN ASN ASN A A 362 362 .	0.5052	0.5160	0.4838	-0.0043	-0.0104	
0.0083	1	.							
2759	CB	CB	. ASN ASN ASN A A 362 362 .	0.4951	0.5119	0.4858	0.0049	-0.0190	
0.0109	1	.							
2760	CG	CG	. ASN ASN ASN A A 362 362 .	0.5353	0.5195	0.5179	0.0042	-0.0320	
0.0162	1	.							
2761	OD1	OD1	. ASN ASN ASN A A 362 362 .	0.6327	0.5151	0.5399	0.0781	-0.0546	
0.0445	1	.							
2762	ND2	ND2	. ASN ASN ASN A A 362 362 .	0.4662	0.5122	0.5410	0.0179	-0.0335	
0.0273	1	.							
2763	C	C	. ASN ASN ASN A A 362 362 .	0.5096	0.5150	0.4654	-0.0068	-0.0031	
0.0135	1	.							
2764	O	O	. ASN ASN ASN A A 362 362 .	0.5308	0.5313	0.4519	0.0031	-0.0240	
0.0179	1	.							
2765	N	N	. GLY GLY GLY A A 363 363 .	0.5066	0.5020	0.4513	-0.0013	0.0119	
0.0110	1	.							
2766	CA	CA	. GLY GLY GLY A A 363 363 .	0.5319	0.5055	0.4675	-0.0069	0.0169	
0.0060	1	.							
2767	C	C	. GLY GLY GLY A A 363 363 .	0.5400	0.5044	0.4795	-0.0065	0.0123	
0.0008	1	.							
2768	O	O	. GLY GLY GLY A A 363 363 .	0.5441	0.4890	0.4702	-0.0152	0.0176	-
0.0043	1	.							
2769	N	N	. TRP TRP TRP A A 364 364 .	0.5345	0.5057	0.4699	-0.0044	-0.0009	
0.0023	1	.							
2770	CA	CA	. TRP TRP TRP A A 364 364 .	0.5117	0.5137	0.4715	-0.0003	-0.0040	-
0.0095	1	.							
2771	CB	CB	. TRP TRP TRP A A 364 364 .	0.5205	0.5275	0.4801	0.0064	-0.0051	-
0.0120	1	.							
2772	CG	CG	. TRP TRP TRP A A 364 364 .	0.5473	0.5641	0.5303	0.0199	-0.0180	-
0.0084	1	.							







2863	CA	CA	. GLU GLU GLU A A 376 376 .	0.3302	0.3450	0.3501	-0.0065	0.0069	
0.0012	1	.							
2864	CB	CB	. GLU GLU GLU A A 376 376 .	0.3240	0.3701	0.3587	-0.0114	0.0155	
0.0017	1	.							
2865	CG	CG	. GLU GLU GLU A A 376 376 .	0.3273	0.3589	0.3619	0.0055	0.0088	-
0.0040	1	.							
2866	CD	CD	. GLU GLU GLU A A 376 376 .	0.3802	0.4436	0.3750	-0.0174	-0.0091	-
0.0196	1	.							
2867	OE1	OE1	. GLU GLU GLU A A 376 376 .	0.3383	0.4503	0.3913	-0.0471	-0.0005	-
0.0440	1	.							
2868	OE2	OE2	. GLU GLU GLU A A 376 376 .	0.4133	0.4251	0.4169	-0.0282	-0.0870	
0.0159	1	.							
2869	C	C	. GLU GLU GLU A A 376 376 .	0.3490	0.3447	0.3387	0.0015	-0.0013	-
0.0028	1	.							
2870	O	O	. GLU GLU GLU A A 376 376 .	0.3642	0.3509	0.3451	0.0072	0.0122	-
0.0216	1	.							
2871	N	N	. ASP ASP ASP A A 377 377 .	0.3542	0.3599	0.3353	0.0025	-0.0077	-
0.0053	1	.							
2872	CA	CA	. ASP ASP ASP A A 377 377 .	0.3338	0.3564	0.3516	-0.0152	-0.0074	
0.0079	1	.							
2873	CB	CB	. ASP ASP ASP A A 377 377 .	0.3479	0.3498	0.3535	-0.0234	0.0062	
0.0034	1	.							
2874	CG	CG	. ASP ASP ASP A A 377 377 .	0.3678	0.3858	0.4296	-0.0540	-0.0249	
0.0293	1	.							
2875	OD1	OD1	. ASP ASP ASP A A 377 377 .	0.4143	0.3856	0.4714	-0.0414	-0.0504	
0.0354	1	.							
2876	OD2	OD2	. ASP ASP ASP A A 377 377 .	0.1955	0.3661	0.4831	-0.0783	-0.0417	
0.0616	1	.							
2877	C	C	. ASP ASP ASP A A 377 377 .	0.3366	0.3481	0.3494	-0.0052	-0.0026	
0.0108	1	.							
2878	O	O	. ASP ASP ASP A A 377 377 .	0.3651	0.3525	0.3530	-0.0113	-0.0225	
0.0106	1	.							
2879	N	N	. THR THR THR A A 378 378 .	0.3268	0.3415	0.3353	-0.0162	0.0011	
0.0141	1	.							
2880	CA	CA	. THR THR THR A A 378 378 .	0.3161	0.3396	0.3274	-0.0146	0.0000	
0.0086	1	.							
2881	CB	CB	. THR THR THR A A 378 378 .	0.3174	0.3297	0.3298	-0.0195	0.0026	
0.0175	1	.							
2882	OG1	OG1	. THR THR THR A A 378 378 .	0.3466	0.3671	0.3065	-0.0401	0.0027	
0.0158	1	.							
2883	CG2	CG2	. THR THR THR A A 378 378 .	0.2766	0.3571	0.3188	-0.0308	0.0266	
0.0125	1	.							
2884	C	C	. THR THR THR A A 378 378 .	0.3342	0.3422	0.3383	0.0019	0.0066	
0.0022	1	.							
2885	O	O	. THR THR THR A A 378 378 .	0.3514	0.3489	0.3645	0.0174	0.0154	-
0.0119	1	.							
2886	N	N	. PHE PHE PHE A A 379 379 .	0.3334	0.3188	0.3252	0.0052	0.0138	-
0.0109	1	.							
2887	CA	CA	. PHE PHE PHE A A 379 379 .	0.3284	0.3329	0.3398	0.0033	0.0066	-
0.0103	1	.							
2888	CB	CB	. PHE PHE PHE A A 379 379 .	0.3505	0.3280	0.3470	0.0037	0.0024	-
0.0091	1	.							
2889	CG	CG	. PHE PHE PHE A A 379 379 .	0.3705	0.3487	0.3716	0.0055	0.0179	-
0.0119	1	.							
2890	CD1	CD1	. PHE PHE PHE A A 379 379 .	0.3927	0.3567	0.3931	0.0479	0.0116	-
0.0231	1	.							
2891	CE1	CE1	. PHE PHE PHE A A 379 379 .	0.3581	0.3902	0.4634	0.0560	0.0276	
0.0073	1	.							
2892	CZ	CZ	. PHE PHE PHE A A 379 379 .	0.4130	0.4320	0.4766	0.0228	-0.0018	
0.0071	1	.							

2893	CE2	CE2	. PHE PHE PHE A A	379 379	. 0.3571 0.4375 0.4286 0.0141 0.0271	-
0.0006	1	.				
2894	CD2	CD2	. PHE PHE PHE A A	379 379	. 0.3741 0.3858 0.4329 0.0236 0.0412	-
0.0123	1	.				
2895	C	C	. PHE PHE PHE A A	379 379	. 0.3116 0.3425 0.3277 0.0025 0.0139	-
0.0047	1	.				
2896	O	O	. PHE PHE PHE A A	379 379	. 0.2377 0.3307 0.3262 0.0111 0.0440	-
0.0088	1	.				
2897	N	N	. ILE ILE ILE A A	380 380	. 0.2646 0.3350 0.3263 -0.0068 0.0136	-
0.0006	1	.				
2898	CA	CA	. ILE ILE ILE A A	380 380	. 0.2686 0.3377 0.3105 0.0014 0.0002	-
0.0024	1	.				
2899	CB	CB	. ILE ILE ILE A A	380 380	. 0.2671 0.3456 0.3222 -0.0059 0.0146	
0.0031	1	.				
2900	CG1	CG1	. ILE ILE ILE A A	380 380	. 0.2150 0.3165 0.3007 -0.0029 -0.0047	
0.0099	1	.				
2901	CD1	CD1	. ILE ILE ILE A A	380 380	. 0.2189 0.3025 0.2597 -0.0173 0.0509	-
0.0267	1	.				
2902	CG2	CG2	. ILE ILE ILE A A	380 380	. 0.2564 0.3707 0.3182 0.0192 -0.0263	-
0.0270	1	.				
2903	C	C	. ILE ILE ILE A A	380 380	. 0.2865 0.3495 0.3179 -0.0019 0.0044	
0.0012	1	.				
2904	O	O	. ILE ILE ILE A A	380 380	. 0.3005 0.3630 0.3194 -0.0011 -0.0016	-
0.0252	1	.				
2905	N	N	. ALA ALA ALA A A	381 381	. 0.2993 0.3451 0.3207 -0.0025 0.0027	
0.0063	1	.				
2906	CA	CA	. ALA ALA ALA A A	381 381	. 0.3266 0.3439 0.3160 -0.0071 0.0082	
0.0009	1	.				
2907	CB	CB	. ALA ALA ALA A A	381 381	. 0.3249 0.3526 0.3275 -0.0095 -0.0028	
0.0152	1	.				
2908	C	C	. ALA ALA ALA A A	381 381	. 0.3213 0.3483 0.3261 -0.0119 0.0167	
0.0030	1	.				
2909	O	O	. ALA ALA ALA A A	381 381	. 0.3143 0.3713 0.3179 -0.0085 0.0357	
0.0155	1	.				
2910	N	N	. ASP ASP ASP A A	382 382	. 0.3160 0.3260 0.3088 -0.0133 0.0102	-
0.0122	1	.				
2911	CA	CA	. ASP ASP ASP A A	382 382	. 0.3334 0.3450 0.3319 -0.0059 0.0178	-
0.0036	1	.				
2912	CB	CB	. ASP ASP ASP A A	382 382	. 0.3364 0.3516 0.3416 -0.0270 0.0154	-
0.0035	1	.				
2913	CG	CG	. ASP ASP ASP A A	382 382	. 0.3914 0.3484 0.4289 0.0034 0.0481	
0.0093	1	.				
2914	OD1	OD1	. ASP ASP ASP A A	382 382	. 0.4129 0.3931 0.4787 -0.0042 0.1020	
0.0305	1	.				
2915	OD2	OD2	. ASP ASP ASP A A	382 382	. 0.4184 0.3800 0.5244 -0.0373 0.1061	-
0.0475	1	.				
2916	C	C	. ASP ASP ASP A A	382 382	. 0.3298 0.3525 0.3318 -0.0024 0.0171	-
0.0035	1	.				
2917	O	O	. ASP ASP ASP A A	382 382	. 0.3131 0.3593 0.3274 0.0021 0.0280	
0.0053	1	.				
2918	N	N	. LEU LEU LEU A A	383 383	. 0.3352 0.3560 0.3192 0.0043 0.0257	-
0.0022	1	.				
2919	CA	CA	. LEU LEU LEU A A	383 383	. 0.3348 0.3490 0.3124 0.0080 0.0133	
0.0109	1	.				
2920	CB	CB	. LEU LEU LEU A A	383 383	. 0.3607 0.3504 0.3198 0.0101 0.0031	
0.0221	1	.				
2921	CG	CG	. LEU LEU LEU A A	383 383	. 0.3496 0.3613 0.3106 0.0223 -0.0087	
0.0444	1	.				
2922	CD1	CD1	. LEU LEU LEU A A	383 383	. 0.3715 0.3247 0.3049 0.0047 -0.0643	
0.0684	1	.				

2923	CD2	CD2	. LEU LEU LEU A A 383 383 .	0.3705	0.3841	0.2920	0.0230	-0.0163	
0.0886	1	.							
2924	C	C	. LEU LEU LEU A A 383 383 .	0.3454	0.3500	0.3331	0.0007	0.0079	
0.0061	1	.							
2925	O	O	. LEU LEU LEU A A 383 383 .	0.3592	0.3606	0.3296	0.0031	-0.0029	-
0.0025	1	.							
2926	N	N	. VAL VAL VAL A A 384 384 .	0.3572	0.3483	0.3376	0.0082	0.0030	
0.0092	1	.							
2927	CA	CA	. VAL VAL VAL A A 384 384 .	0.3528	0.3497	0.3410	0.0099	0.0021	
0.0107	1	.							
2928	CB	CB	. VAL VAL VAL A A 384 384 .	0.3446	0.3525	0.3347	0.0057	0.0017	
0.0077	1	.							
2929	CG1	CG1	. VAL VAL VAL A A 384 384 .	0.3170	0.3243	0.3254	0.0116	0.0186	-
0.0021	1	.							
2930	CG2	CG2	. VAL VAL VAL A A 384 384 .	0.3619	0.3587	0.3494	0.0241	-0.0136	
0.0113	1	.							
2931	C	C	. VAL VAL VAL A A 384 384 .	0.3520	0.3599	0.3399	0.0118	0.0054	
0.0091	1	.							
2932	O	O	. VAL VAL VAL A A 384 384 .	0.3578	0.3648	0.3497	0.0106	0.0175	
0.0097	1	.							
2933	N	N	. VAL VAL VAL A A 385 385 .	0.3464	0.3704	0.3516	0.0082	0.0133	
0.0056	1	.							
2934	CA	CA	. VAL VAL VAL A A 385 385 .	0.3552	0.3623	0.3427	0.0128	0.0226	
0.0049	1	.							
2935	CB	CB	. VAL VAL VAL A A 385 385 .	0.3389	0.3686	0.3313	0.0047	0.0157	
0.0058	1	.							
2936	CG1	CG1	. VAL VAL VAL A A 385 385 .	0.3690	0.3794	0.3584	0.0053	0.0536	
0.0293	1	.							
2937	CG2	CG2	. VAL VAL VAL A A 385 385 .	0.3267	0.3738	0.3413	0.0129	0.0485	
0.0044	1	.							
2938	C	C	. VAL VAL VAL A A 385 385 .	0.3700	0.3638	0.3501	0.0211	0.0108	
0.0070	1	.							
2939	O	O	. VAL VAL VAL A A 385 385 .	0.3943	0.3712	0.3484	0.0269	0.0105	
0.0172	1	.							
2940	N	N	. GLY GLY GLY A A 386 386 .	0.3675	0.3746	0.3498	0.0112	0.0033	
0.0120	1	.							
2941	CA	CA	. GLY GLY GLY A A 386 386 .	0.3740	0.3799	0.3597	0.0079	0.0079	
0.0135	1	.							
2942	C	C	. GLY GLY GLY A A 386 386 .	0.3809	0.3915	0.3500	-0.0068	0.0064	
0.0109	1	.							
2943	O	O	. GLY GLY GLY A A 386 386 .	0.3730	0.3983	0.3596	-0.0329	0.0108	
0.0191	1	.							
2944	N	N	. LEU LEU LEU A A 387 387 .	0.3722	0.3796	0.3480	-0.0110	0.0128	
0.0087	1	.							
2945	CA	CA	. LEU LEU LEU A A 387 387 .	0.3850	0.3883	0.3708	0.0009	0.0161	
0.0076	1	.							
2946	CB	CB	. LEU LEU LEU A A 387 387 .	0.4133	0.3927	0.3794	0.0065	0.0103	
0.0099	1	.							
2947	CG	CG	. LEU LEU LEU A A 387 387 .	0.4149	0.3922	0.3884	0.0088	0.0323	-
0.0089	1	.							
2948	CD1	CD1	. LEU LEU LEU A A 387 387 .	0.3520	0.4117	0.4550	0.0324	-0.0248	-
0.0287	1	.							
2949	CD2	CD2	. LEU LEU LEU A A 387 387 .	0.4127	0.4096	0.4176	-0.0187	0.0779	-
0.0245	1	.							
2950	C	C	. LEU LEU LEU A A 387 387 .	0.4056	0.4152	0.3954	-0.0027	0.0061	
0.0157	1	.							
2951	O	O	. LEU LEU LEU A A 387 387 .	0.4179	0.4322	0.3843	-0.0007	0.0009	
0.0247	1	.							
2952	N	N	. CYS CYS CYS A A 388 388 .	0.4139	0.4148	0.4114	0.0025	0.0167	
0.0089	1	.							



2953	CA	CA	. CYS CYS CYS A A 388 388 .	0.4473	0.4303	0.4286	0.0106	0.0146	
0.0027	1	.							
2954	CB	CB	. CYS CYS CYS A A 388 388 .	0.4786	0.4405	0.4531	0.0111	0.0166	-
0.0022	1	.							
2955	SG	SG	. CYS CYS CYS A A 388 388 .	0.6087	0.5673	0.5787	0.0890	0.0747	-
0.0387	1	.							
2956	C	C	. CYS CYS CYS A A 388 388 .	0.4488	0.4258	0.4139	0.0068	0.0022	
0.0025	1	.							
2957	O	O	. CYS CYS CYS A A 388 388 .	0.4864	0.4143	0.4103	0.0105	-0.0075	
0.0078	1	.							
2958	N	N	. THR THR THR A A 389 389 .	0.4220	0.4079	0.3896	0.0054	0.0062	
0.0087	1	.							
2959	CA	CA	. THR THR THR A A 389 389 .	0.4102	0.3993	0.3787	-0.0095	0.0111	-
0.0020	1	.							
2960	CB	CB	. THR THR THR A A 389 389 .	0.4155	0.3917	0.3924	-0.0036	0.0107	-
0.0063	1	.							
2961	OG1	OG1	. THR THR THR A A 389 389 .	0.4333	0.4176	0.3443	-0.0046	0.0205	-
0.0446	1	.							
2962	CG2	CG2	. THR THR THR A A 389 389 .	0.4200	0.3846	0.3670	-0.0261	0.0219	-
0.0132	1	.							
2963	C	C	. THR THR THR A A 389 389 .	0.4036	0.4054	0.3869	-0.0020	0.0086	-
0.0062	1	.							
2964	O	O	. THR THR THR A A 389 389 .	0.4009	0.4333	0.4015	-0.0181	0.0166	-
0.0101	1	.							
2965	N	N	. GLY GLY GLY A A 390 390 .	0.3844	0.3922	0.3867	-0.0087	0.0172	-
0.0081	1	.							
2966	CA	CA	. GLY GLY GLY A A 390 390 .	0.3743	0.3784	0.3664	-0.0231	0.0262	-
0.0075	1	.							
2967	C	C	. GLY GLY GLY A A 390 390 .	0.3486	0.3618	0.3584	-0.0170	0.0185	-
0.0116	1	.							
2968	O	O	. GLY GLY GLY A A 390 390 .	0.3360	0.3587	0.3217	-0.0126	0.0250	-
0.0140	1	.							
2969	N	N	. GLN GLN GLN A A 391 391 .	0.3322	0.3482	0.3404	-0.0179	0.0109	-
0.0134	1	.							
2970	CA	CA	. GLN GLN GLN A A 391 391 .	0.3190	0.3386	0.3317	-0.0077	0.0006	-
0.0130	1	.							
2971	CB	CB	. GLN GLN GLN A A 391 391 .	0.3261	0.3397	0.3328	-0.0133	0.0046	-
0.0088	1	.							
2972	CG	CG	. GLN GLN GLN A A 391 391 .	0.2937	0.3011	0.3460	0.0108	-0.0178	-
0.0197	1	.							
2973	CD	CD	. GLN GLN GLN A A 391 391 .	0.3007	0.3408	0.3727	-0.0035	-0.0066	-
0.0170	1	.							
2974	OE1	OE1	. GLN GLN GLN A A 391 391 .	0.3007	0.3344	0.3907	-0.0019	0.0036	-
0.0376	1	.							
2975	NE2	NE2	. GLN GLN GLN A A 391 391 .	0.1717	0.3514	0.3804	0.0639	-0.0435	-
0.0033	1	.							
2976	C	C	. GLN GLN GLN A A 391 391 .	0.3095	0.3373	0.3265	-0.0053	-0.0050	-
0.0063	1	.							
2977	O	O	. GLN GLN GLN A A 391 391 .	0.3292	0.3447	0.3301	-0.0159	-0.0193	-
0.0202	1	.							
2978	N	N	. ILE ILE ILE A A 392 392 .	0.2992	0.3547	0.3257	0.0005	-0.0101	-
0.0202	1	.							
2979	CA	CA	. ILE ILE ILE A A 392 392 .	0.2714	0.3349	0.2999	0.0014	-0.0170	-
0.0173	1	.							
2980	CB	CB	. ILE ILE ILE A A 392 392 .	0.2832	0.3244	0.2848	0.0042	-0.0160	-
0.0235	1	.							
2981	CG1	CG1	. ILE ILE ILE A A 392 392 .	0.2512	0.3652	0.2938	-0.0016	-0.0193	-
0.0378	1	.							
2982	CD1	CD1	. ILE ILE ILE A A 392 392 .	0.2368	0.2970	0.2460	-0.0310	0.0438	-
0.1345	1	.							



3013	CB	CB	. PRO PRO PRO A A 397 397 .	0.2835	0.2899	0.3025	0.0223	-0.0166	-
0.0037	1	.							
3014	CG	CG	. PRO PRO PRO A A 397 397 .	0.2885	0.2835	0.3143	0.0178	0.0059	
0.0142	1	.							
3015	CD	CD	. PRO PRO PRO A A 397 397 .	0.2632	0.2703	0.2949	0.0060	-0.0006	-
0.0007	1	.							
3016	C	C	. PRO PRO PRO A A 397 397 .	0.3052	0.3160	0.3190	0.0048	-0.0007	
0.0069	1	.							
3017	O	O	. PRO PRO PRO A A 397 397 .	0.3070	0.3166	0.3072	0.0138	-0.0031	
0.0127	1	.							
3018	N	N	. CYS CYS CYS A A 398 398 .	0.3044	0.3376	0.3276	0.0004	0.0174	
0.0006	1	.							
3019	CA	CA	. CYS CYS CYS A A 398 398 .	0.3115	0.3382	0.3320	-0.0147	0.0162	
0.0102	1	.							
3020	CB	CB	. CYS CYS CYS A A 398 398 .	0.3097	0.3563	0.3470	-0.0142	0.0224	
0.0090	1	.							
3021	SG	SG	. CYS CYS CYS A A 398 398 .	0.3404	0.4075	0.3704	-0.0485	0.0452	
0.0238	1	.							
3022	C	C	. CYS CYS CYS A A 398 398 .	0.3031	0.3330	0.3158	-0.0144	0.0047	
0.0042	1	.							
3023	O	O	. CYS CYS CYS A A 398 398 .	0.3343	0.3442	0.3273	-0.0171	-0.0003	
0.0062	1	.							
3024	N	N	. ARG ARG ARG A A 399 399 .	0.2775	0.3242	0.3044	-0.0169	0.0127	
0.0118	1	.							
3025	CA	CA	. ARG ARG ARG A A 399 399 .	0.2608	0.2952	0.2804	-0.0077	0.0065	
0.0074	1	.							
3026	CB	CB	. ARG ARG ARG A A 399 399 .	0.2482	0.2879	0.2839	-0.0116	0.0123	
0.0111	1	.							
3027	CG	CG	. ARG ARG ARG A A 399 399 .	0.2594	0.2771	0.3004	-0.0155	0.0142	
0.0172	1	.							
3028	CD	CD	. ARG ARG ARG A A 399 399 .	0.2278	0.2506	0.2976	-0.0033	0.0059	
0.0121	1	.							
3029	NE	NE	. ARG ARG ARG A A 399 399 .	0.2326	0.2901	0.2627	-0.0059	0.0367	-
0.0280	1	.							
3030	CZ	CZ	. ARG ARG ARG A A 399 399 .	0.2684	0.2740	0.3022	0.0022	0.0136	-
0.0175	1	.							
3031	NH1	NH1	. ARG ARG ARG A A 399 399 .	0.2643	0.2733	0.2727	-0.0142	0.0254	-
0.0031	1	.							
3032	NH2	NH2	. ARG ARG ARG A A 399 399 .	0.2863	0.2831	0.2605	-0.0364	0.0147	-
0.0358	1	.							
3033	C	C	. ARG ARG ARG A A 399 399 .	0.2694	0.2941	0.2858	-0.0001	0.0075	
0.0029	1	.							
3034	O	O	. ARG ARG ARG A A 399 399 .	0.2617	0.3269	0.2842	-0.0057	0.0033	-
0.0018	1	.							
3035	N	N	. SER SER SER A A 400 400 .	0.2814	0.2905	0.2795	-0.0123	0.0045	-
0.0057	1	.							
3036	CA	CA	. SER SER SER A A 400 400 .	0.2856	0.3229	0.2942	0.0033	0.0102	
0.0052	1	.							
3037	CB	CB	. SER SER SER A A 400 400 .	0.3105	0.3229	0.2957	0.0039	0.0154	
0.0070	1	.							
3038	OG	OG	. SER SER SER A A 400 400 .	0.3306	0.2794	0.2850	0.0188	0.0341	
0.0389	1	.							
3039	C	C	. SER SER SER A A 400 400 .	0.2865	0.3346	0.3056	-0.0047	0.0115	
0.0066	1	.							
3040	O	O	. SER SER SER A A 400 400 .	0.2797	0.3950	0.3072	0.0017	0.0152	
0.0066	1	.							
3041	N	N	. GLU GLU GLU A A 401 401 .	0.2810	0.3280	0.2876	0.0020	0.0130	
0.0051	1	.							
3042	CA	CA	. GLU GLU GLU A A 401 401 .	0.2617	0.3134	0.2861	-0.0068	0.0038	-
0.0073	1	.							



3073	O	O	. ALA ALA ALA A A	404 404	. 0.1728 0.2781 0.2687 -0.0027 0.0306 -
0.0030	1	.			
3074	N	N	. LYS LYS LYS A A	405 405	. 0.2317 0.2795 0.2453 0.0039 -0.0162 -
0.0031	1	.			
3075	CA	CA	. LYS LYS LYS A A	405 405	. 0.2637 0.3045 0.2835 0.0018 -0.0018 -
0.0029	1	.			
3076	CB	CB	. LYS LYS LYS A A	405 405	. 0.2579 0.2952 0.2643 0.0186 -0.0083
0.0106	1	.			
3077	CG	CG	. LYS LYS LYS A A	405 405	. 0.3263 0.3080 0.2861 0.0118 -0.0016
0.0029	1	.			
3078	CD	CD	. LYS LYS LYS A A	405 405	. 0.3760 0.3446 0.2921 0.0335 0.0010
0.0012	1	.			
3079	CE	CE	. LYS LYS LYS A A	405 405	. 0.3045 0.3578 0.3120 0.0105 0.0281 -
0.0368	1	.			
3080	NZ	NZ	. LYS LYS LYS A A	405 405	. 0.3662 0.3924 0.2605 0.0443 0.0030 -
0.0353	1	.			
3081	C	C	. LYS LYS LYS A A	405 405	. 0.2581 0.3081 0.2823 0.0004 0.0106 -
0.0035	1	.			
3082	O	O	. LYS LYS LYS A A	405 405	. 0.2162 0.3466 0.2647 -0.0116 0.0171 -
0.0013	1	.			
3083	N	N	. TYR TYR TYR A A	406 406	. 0.2487 0.3049 0.2827 -0.0009 0.0053 -
0.0118	1	.			
3084	CA	CA	. TYR TYR TYR A A	406 406	. 0.2306 0.2966 0.2990 0.0023 0.0015 -
0.0051	1	.			
3085	CB	CB	. TYR TYR TYR A A	406 406	. 0.2230 0.2831 0.2912 -0.0100 -0.0064
0.0073	1	.			
3086	CG	CG	. TYR TYR TYR A A	406 406	. 0.1787 0.2377 0.2693 0.0082 -0.0194 -
0.0014	1	.			
3087	CD1	CD1	. TYR TYR TYR A A	406 406	. 0.1120 0.1545 0.2793 -0.0175 -0.0157
0.0319	1	.			
3088	CE1	CE1	. TYR TYR TYR A A	406 406	. 0.1924 0.1979 0.3201 0.0158 0.0000
0.0004	1	.			
3089	CZ	CZ	. TYR TYR TYR A A	406 406	. 0.1537 0.2278 0.2511 0.0008 -0.0196 -
0.0154	1	.			
3090	OH	OH	. TYR TYR TYR A A	406 406	. 0.2448 0.2891 0.2825 -0.0086 -0.0099 -
0.0109	1	.			
3091	CE2	CE2	. TYR TYR TYR A A	406 406	. 0.1671 0.1678 0.2527 0.0206 -0.0224
0.0101	1	.			
3092	CD2	CD2	. TYR TYR TYR A A	406 406	. 0.1449 0.1963 0.2582 0.0015 -0.0419 -
0.0193	1	.			
3093	C	C	. TYR TYR TYR A A	406 406	. 0.2257 0.3149 0.2913 0.0073 0.0073 -
0.0052	1	.			
3094	O	O	. TYR TYR TYR A A	406 406	. 0.1852 0.3365 0.3295 0.0133 0.0133 -
0.0128	1	.			
3095	N	N	. ASN ASN ASN A A	407 407	. 0.2162 0.2928 0.2795 -0.0023 -0.0020 -
0.0105	1	.			
3096	CA	CA	. ASN ASN ASN A A	407 407	. 0.2557 0.2908 0.2853 0.0159 0.0145
0.0014	1	.			
3097	CB	CB	. ASN ASN ASN A A	407 407	. 0.2417 0.2848 0.2715 0.0235 0.0239 -
0.0069	1	.			
3098	CG	CG	. ASN ASN ASN A A	407 407	. 0.2764 0.3058 0.2725 0.0174 0.0296 -
0.0094	1	.			
3099	OD1	OD1	. ASN ASN ASN A A	407 407	. 0.2018 0.3262 0.3511 0.0178 0.0681
0.0014	1	.			
3100	ND2	ND2	. ASN ASN ASN A A	407 407	. 0.2636 0.3056 0.2504 0.0347 0.0072 -
0.0469	1	.			
3101	C	C	. ASN ASN ASN A A	407 407	. 0.2565 0.2920 0.2803 0.0176 0.0141
0.0074	1	.			
3102	O	O	. ASN ASN ASN A A	407 407	. 0.3119 0.2792 0.2941 0.0332 0.0567 -
0.0066	1	.			

3103	N	N	. GLN GLN GLN A A 408 408 .	0.2481	0.2806	0.2948	0.0116	0.0155	-
0.0186	1	.							
3104	CA	CA	. GLN GLN GLN A A 408 408 .	0.2843	0.2967	0.2827	0.0038	0.0095	-
0.0061	1	.							
3105	CB	CB	. GLN GLN GLN A A 408 408 .	0.2887	0.2819	0.2395	0.0113	0.0060	-
0.0192	1	.							
3106	CG	CG	. GLN GLN GLN A A 408 408 .	0.2293	0.2719	0.2635	-0.0385	0.0033	-
0.0373	1	.							
3107	CD	CD	. GLN GLN GLN A A 408 408 .	0.3058	0.3226	0.3270	-0.0303	-0.0114	
0.0356	1	.							
3108	OE1	OE1	. GLN GLN GLN A A 408 408 .	0.3792	0.3782	0.3316	0.0026	-0.0518	
0.0557	1	.							
3109	NE2	NE2	. GLN GLN GLN A A 408 408 .	0.1654	0.3387	0.3782	-0.1090	0.0574	
0.0310	1	.							
3110	C	C	. GLN GLN GLN A A 408 408 .	0.2903	0.3111	0.2907	-0.0006	0.0022	-
0.0143	1	.							
3111	O	O	. GLN GLN GLN A A 408 408 .	0.2544	0.3395	0.3092	0.0026	0.0007	-
0.0156	1	.							
3112	N	N	. LEU LEU LEU A A 409 409 .	0.2653	0.3152	0.3017	-0.0095	0.0099	-
0.0049	1	.							
3113	CA	CA	. LEU LEU LEU A A 409 409 .	0.2980	0.3326	0.3204	-0.0110	0.0073	
0.0067	1	.							
3114	CB	CB	. LEU LEU LEU A A 409 409 .	0.2710	0.3281	0.2968	0.0038	-0.0064	
0.0104	1	.							
3115	CG	CG	. LEU LEU LEU A A 409 409 .	0.2964	0.3149	0.3037	-0.0115	-0.0065	-
0.0092	1	.							
3116	CD1	CD1	. LEU LEU LEU A A 409 409 .	0.2756	0.2999	0.3461	0.0617	0.0307	-
0.0231	1	.							
3117	CD2	CD2	. LEU LEU LEU A A 409 409 .	0.1388	0.3008	0.2681	0.0062	-0.0307	
0.0106	1	.							
3118	C	C	. LEU LEU LEU A A 409 409 .	0.3026	0.3424	0.3334	0.0001	0.0087	
0.0099	1	.							
3119	O	O	. LEU LEU LEU A A 409 409 .	0.3147	0.3530	0.3332	0.0038	0.0108	
0.0088	1	.							
3120	N	N	. MET MET MET A A 410 410 .	0.3021	0.3505	0.3621	-0.0133	0.0016	
0.0103	1	.							
3121	CA	CA	. MET MET MET A A 410 410 .	0.3220	0.3452	0.3637	-0.0120	0.0092	
0.0003	1	.							
3122	CB	CB	. MET MET MET A A 410 410 .	0.3472	0.3729	0.3645	-0.0232	0.0023	-
0.0099	1	.							
3123	CG	CG	. MET MET MET A A 410 410 .	0.3323	0.3711	0.4190	-0.0053	0.0337	
0.0187	1	.							
3124	SD	SD	. MET MET MET A A 410 410 .	0.3856	0.3975	0.4581	0.0350	0.0376	
0.0477	1	.							
3125	CE	CE	. MET MET MET A A 410 410 .	0.3766	0.3167	0.3645	-0.0077	0.0513	
0.1067	1	.							
3126	C	C	. MET MET MET A A 410 410 .	0.3227	0.3621	0.3658	-0.0027	0.0120	-
0.0038	1	.							
3127	O	O	. MET MET MET A A 410 410 .	0.3188	0.3722	0.3837	-0.0132	0.0115	
0.0180	1	.							
3128	N	N	. ARG ARG ARG A A 411 411 .	0.3190	0.3769	0.3653	0.0010	0.0129	-
0.0012	1	.							
3129	CA	CA	. ARG ARG ARG A A 411 411 .	0.3173	0.3744	0.3614	-0.0010	0.0166	
0.0067	1	.							
3130	CB	CB	. ARG ARG ARG A A 411 411 .	0.2999	0.3775	0.3563	0.0020	0.0227	
0.0063	1	.							
3131	CG	CG	. ARG ARG ARG A A 411 411 .	0.2891	0.3457	0.3517	-0.0046	0.0275	
0.0384	1	.							
3132	CD	CD	. ARG ARG ARG A A 411 411 .	0.2192	0.3405	0.3317	0.0227	0.0139	
0.0418	1	.							

3133	NE	NE	. ARG ARG ARG A A 411 411 .	0.3139	0.3991	0.4159	0.0483	0.0349	
0.0270	1	.							
3134	CZ	CZ	. ARG ARG ARG A A 411 411 .	0.3492	0.4159	0.4335	0.0706	0.0406	
0.0091	1	.							
3135	NH1	NH1	. ARG ARG ARG A A 411 411 .	0.3001	0.4458	0.4674	0.0774	0.0223	
0.0211	1	.							
3136	NH2	NH2	. ARG ARG ARG A A 411 411 .	0.3321	0.4319	0.4870	0.0602	0.0383	-
0.0089	1	.							
3137	C	C	. ARG ARG ARG A A 411 411 .	0.3382	0.3897	0.3836	0.0078	0.0125	
0.0078	1	.							
3138	O	O	. ARG ARG ARG A A 411 411 .	0.2895	0.3756	0.3835	0.0198	0.0292	-
0.0035	1	.							
3139	N	N	. ILE ILE ILE A A 412 412 .	0.3391	0.3905	0.3875	0.0203	0.0043	
0.0095	1	.							
3140	CA	CA	. ILE ILE ILE A A 412 412 .	0.3520	0.3976	0.3860	0.0073	0.0122	
0.0085	1	.							
3141	CB	CB	. ILE ILE ILE A A 412 412 .	0.3444	0.3863	0.3716	0.0100	0.0160	
0.0081	1	.							
3142	CG1	CG1	. ILE ILE ILE A A 412 412 .	0.3299	0.3666	0.3566	0.0200	0.0133	
0.0151	1	.							
3143	CD1	CD1	. ILE ILE ILE A A 412 412 .	0.3752	0.3741	0.3056	0.0741	0.0775	-
0.0068	1	.							
3144	CG2	CG2	. ILE ILE ILE A A 412 412 .	0.3121	0.3955	0.3822	-0.0087	0.0059	
0.0264	1	.							
3145	C	C	. ILE ILE ILE A A 412 412 .	0.3759	0.4132	0.4133	0.0048	0.0155	
0.0002	1	.							
3146	O	O	. ILE ILE ILE A A 412 412 .	0.3973	0.4372	0.4381	-0.0026	0.0211	
0.0019	1	.							
3147	N	N	. GLU GLU GLU A A 413 413 .	0.3862	0.4246	0.4223	0.0093	0.0150	
0.0057	1	.							
3148	CA	CA	. GLU GLU GLU A A 413 413 .	0.3978	0.4367	0.4286	0.0075	0.0060	
0.0016	1	.							
3149	CB	CB	. GLU GLU GLU A A 413 413 .	0.4072	0.4343	0.4191	0.0085	0.0012	
0.0113	1	.							
3150	CG	CG	. GLU GLU GLU A A 413 413 .	0.3972	0.4299	0.3919	0.0195	-0.0175	
0.0120	1	.							
3151	CD	CD	. GLU GLU GLU A A 413 413 .	0.4112	0.4480	0.3931	0.0013	-0.0102	
0.0269	1	.							
3152	OE1	OE1	. GLU GLU GLU A A 413 413 .	0.4168	0.4049	0.3952	-0.0014	0.0318	
0.0175	1	.							
3153	OE2	OE2	. GLU GLU GLU A A 413 413 .	0.3746	0.4891	0.3703	-0.0080	-0.0142	
0.0004	1	.							
3154	C	C	. GLU GLU GLU A A 413 413 .	0.4038	0.4543	0.4418	0.0085	0.0088	-
0.0016	1	.							
3155	O	O	. GLU GLU GLU A A 413 413 .	0.3679	0.4793	0.4623	0.0012	0.0108	-
0.0055	1	.							
3156	N	N	. GLU GLU GLU A A 414 414 .	0.4177	0.4653	0.4327	0.0096	0.0097	-
0.0088	1	.							
3157	CA	CA	. GLU GLU GLU A A 414 414 .	0.4581	0.4893	0.4647	0.0145	0.0096	-
0.0066	1	.							
3158	CB	CB	. GLU GLU GLU A A 414 414 .	0.4608	0.4972	0.4577	0.0202	0.0078	-
0.0143	1	.							
3159	CG	CG	. GLU GLU GLU A A 414 414 .	0.5068	0.5522	0.4829	0.0295	-0.0012	-
0.0065	1	.							
3160	CD	CD	. GLU GLU GLU A A 414 414 .	0.5277	0.5940	0.5038	0.0291	0.0143	
0.0136	1	.							
3161	OE1	OE1	. GLU GLU GLU A A 414 414 .	0.4687	0.5973	0.4891	0.0850	0.0773	-
0.0028	1	.							
3162	OE2	OE2	. GLU GLU GLU A A 414 414 .	0.5939	0.7097	0.4796	0.0243	-0.0116	
0.0181	1	.							

3163	C	C	. GLU GLU GLU A A 414 414 .	0.4678	0.5067	0.4785	0.0143	0.0105	-
0.0089	1	.							
3164	O	O	. GLU GLU GLU A A 414 414 .	0.4613	0.5242	0.4949	0.0255	0.0203	-
0.0111	1	.							
3165	N	N	. GLU GLU GLU A A 415 415 .	0.4876	0.5064	0.4797	0.0091	0.0109	-
0.0022	1	.							
3166	CA	CA	. GLU GLU GLU A A 415 415 .	0.4975	0.5266	0.4976	-0.0022	0.0086	
0.0017	1	.							
3167	CB	CB	. GLU GLU GLU A A 415 415 .	0.5038	0.5450	0.5054	0.0106	0.0123	
0.0005	1	.							
3168	CG	CG	. GLU GLU GLU A A 415 415 .	0.5645	0.6162	0.5499	-0.0188	0.0083	
0.0237	1	.							
3169	CD	CD	. GLU GLU GLU A A 415 415 .	0.6538	0.7516	0.6319	-0.0048	-0.0222	
0.0397	1	.							
3170	OE1	OE1	. GLU GLU GLU A A 415 415 .	0.7041	0.7895	0.6483	-0.0150	-0.0210	
0.0519	1	.							
3171	OE2	OE2	. GLU GLU GLU A A 415 415 .	0.7266	0.8239	0.6609	-0.0067	0.0049	
0.0588	1	.							
3172	C	C	. GLU GLU GLU A A 415 415 .	0.4996	0.5242	0.5041	-0.0009	0.0100	-
0.0047	1	.							
3173	O	O	. GLU GLU GLU A A 415 415 .	0.5022	0.5361	0.5106	-0.0087	0.0211	-
0.0055	1	.							
3174	N	N	. LEU LEU LEU A A 416 416 .	0.4929	0.5124	0.4907	-0.0052	0.0045	-
0.0019	1	.							
3175	CA	CA	. LEU LEU LEU A A 416 416 .	0.4998	0.5240	0.4977	0.0014	0.0100	
0.0015	1	.							
3176	CB	CB	. LEU LEU LEU A A 416 416 .	0.4899	0.5006	0.4680	0.0035	0.0168	-
0.0035	1	.							
3177	CG	CG	. LEU LEU LEU A A 416 416 .	0.4559	0.4867	0.4206	-0.0004	0.0291	
0.0207	1	.							
3178	CD1	CD1	. LEU LEU LEU A A 416 416 .	0.4153	0.4788	0.3090	0.0042	0.0744	
0.0264	1	.							
3179	CD2	CD2	. LEU LEU LEU A A 416 416 .	0.4431	0.4316	0.4075	-0.0145	0.0961	-
0.0630	1	.							
3180	C	C	. LEU LEU LEU A A 416 416 .	0.5213	0.5423	0.5166	0.0014	0.0056	-
0.0022	1	.							
3181	O	O	. LEU LEU LEU A A 416 416 .	0.5138	0.5655	0.5014	0.0028	0.0076	-
0.0001	1	.							
3182	N	N	. GLY GLY GLY A A 417 417 .	0.5475	0.5630	0.5395	0.0018	-0.0007	-
0.0027	1	.							
3183	CA	CA	. GLY GLY GLY A A 417 417 .	0.5659	0.5883	0.5634	0.0059	0.0002	-
0.0074	1	.							
3184	C	C	. GLY GLY GLY A A 417 417 .	0.5896	0.6165	0.5751	0.0039	-0.0005	-
0.0091	1	.							
3185	O	O	. GLY GLY GLY A A 417 417 .	0.5941	0.6311	0.5573	0.0027	-0.0005	-
0.0065	1	.							
3186	N	N	. ASP ASP ASP A A 418 418 .	0.6036	0.6285	0.6018	0.0051	0.0031	-
0.0091	1	.							
3187	CA	CA	. ASP ASP ASP A A 418 418 .	0.6234	0.6328	0.6198	0.0102	-0.0005	-
0.0082	1	.							
3188	CB	CB	. ASP ASP ASP A A 418 418 .	0.6572	0.6528	0.6496	0.0145	-0.0033	-
0.0118	1	.							
3189	CG	CG	. ASP ASP ASP A A 418 418 .	0.7168	0.7036	0.7289	0.0272	-0.0334	-
0.0206	1	.							
3190	OD1	OD1	. ASP ASP ASP A A 418 418 .	0.7292	0.7986	0.8103	0.0467	-0.0681	-
0.0031	1	.							
3191	OD2	OD2	. ASP ASP ASP A A 418 418 .	0.7688	0.7535	0.8244	0.0890	-0.0561	-
0.0090	1	.							
3192	C	C	. ASP ASP ASP A A 418 418 .	0.6150	0.6214	0.6074	0.0031	0.0079	-
0.0048	1	.							



3193	O	O	. ASP ASP ASP A A 418 418 .	0.6196	0.6164	0.6055	0.0005	0.0106	-
0.0068	1	.							
3194	N	N	. GLU GLU GLU A A 419 419 .	0.5917	0.6077	0.5888	-0.0015	0.0104	-
0.0021	1	.							
3195	CA	CA	. GLU GLU GLU A A 419 419 .	0.5792	0.5953	0.5736	-0.0050	0.0092	
0.0032	1	.							
3196	CB	CB	. GLU GLU GLU A A 419 419 .	0.6054	0.6137	0.5876	-0.0055	0.0006	
0.0025	1	.							
3197	CG	CG	. GLU GLU GLU A A 419 419 .	0.6567	0.6926	0.6844	-0.0044	-0.0006	
0.0105	1	.							
3198	CD	CD	. GLU GLU GLU A A 419 419 .	0.7658	0.7509	0.7813	-0.0067	-0.0175	-
0.0138	1	.							
3199	OE1	OE1	. GLU GLU GLU A A 419 419 .	0.7802	0.7899	0.7964	0.0140	-0.0344	
0.0092	1	.							
3200	OE2	OE2	. GLU GLU GLU A A 419 419 .	0.8382	0.7785	0.8527	0.0153	0.0269	
0.0091	1	.							
3201	C	C	. GLU GLU GLU A A 419 419 .	0.5561	0.5676	0.5449	0.0002	0.0076	
0.0035	1	.							
3202	O	O	. GLU GLU GLU A A 419 419 .	0.5347	0.5661	0.5224	-0.0024	0.0125	
0.0103	1	.							
3203	N	N	. ALA ALA ALA A A 420 420 .	0.5177	0.5354	0.5228	-0.0060	0.0140	
0.0006	1	.							
3204	CA	CA	. ALA ALA ALA A A 420 420 .	0.5146	0.5009	0.4964	0.0004	0.0117	-
0.0047	1	.							
3205	CB	CB	. ALA ALA ALA A A 420 420 .	0.5073	0.4857	0.4882	0.0057	0.0197	-
0.0092	1	.							
3206	C	C	. ALA ALA ALA A A 420 420 .	0.4951	0.4888	0.4846	-0.0067	0.0134	-
0.0043	1	.							
3207	O	O	. ALA ALA ALA A A 420 420 .	0.5233	0.5133	0.4958	-0.0138	0.0110	
0.0002	1	.							
3208	N	N	. ARG ARG ARG A A 421 421 .	0.4768	0.4675	0.4584	-0.0017	0.0117	-
0.0031	1	.							
3209	CA	CA	. ARG ARG ARG A A 421 421 .	0.4726	0.4800	0.4488	-0.0060	0.0122	-
0.0041	1	.							
3210	CB	CB	. ARG ARG ARG A A 421 421 .	0.4841	0.4913	0.4707	-0.0094	0.0108	-
0.0023	1	.							
3211	CG	CG	. ARG ARG ARG A A 421 421 .	0.5371	0.5729	0.5178	0.0045	0.0215	-
0.0015	1	.							
3212	CD	CD	. ARG ARG ARG A A 421 421 .	0.6243	0.6284	0.5970	0.0281	0.0127	-
0.0342	1	.							
3213	NE	NE	. ARG ARG ARG A A 421 421 .	0.6780	0.7252	0.6012	0.0243	0.0403	-
0.0203	1	.							
3214	CZ	CZ	. ARG ARG ARG A A 421 421 .	0.6911	0.7647	0.6583	0.0268	0.0312	-
0.0214	1	.							
3215	NH1	NH1	. ARG ARG ARG A A 421 421 .	0.7303	0.7692	0.7009	0.0210	0.0229	-
0.0042	1	.							
3216	NH2	NH2	. ARG ARG ARG A A 421 421 .	0.6916	0.7877	0.6282	0.0208	0.0588	-
0.0443	1	.							
3217	C	C	. ARG ARG ARG A A 421 421 .	0.4654	0.4562	0.4208	-0.0149	0.0099	-
0.0028	1	.							
3218	O	O	. ARG ARG ARG A A 421 421 .	0.4874	0.4783	0.4316	-0.0115	0.0258	
0.0124	1	.							
3219	N	N	. PHE PHE PHE A A 422 422 .	0.4258	0.4336	0.3991	-0.0140	0.0142	-
0.0057	1	.							
3220	CA	CA	. PHE PHE PHE A A 422 422 .	0.3954	0.4072	0.3772	0.0058	0.0134	-
0.0234	1	.							
3221	CB	CB	. PHE PHE PHE A A 422 422 .	0.3774	0.3833	0.3738	0.0131	0.0253	-
0.0229	1	.							
3222	CG	CG	. PHE PHE PHE A A 422 422 .	0.3774	0.3757	0.3706	-0.0012	0.0241	-
0.0255	1	.							



3253	OD1	OD1	. ASN ASN ASN A A 426 426 .	0.5338	0.4633	0.3698	-0.0150	-0.0588	-
0.0432	1	.							
3254	ND2	ND2	. ASN ASN ASN A A 426 426 .	0.4773	0.3950	0.3801	0.0579	-0.0634	
0.0127	1	.							
3255	C	C	. ASN ASN ASN A A 426 426 .	0.4050	0.4108	0.3969	-0.0029	-0.0059	
0.0016	1	.							
3256	O	O	. ASN ASN ASN A A 426 426 .	0.4465	0.4179	0.4105	-0.0016	-0.0165	-
0.0029	1	.							
3257	N	N	. PHE PHE PHE A A 427 427 .	0.4070	0.4335	0.4100	0.0080	-0.0064	-
0.0096	1	.							
3258	CA	CA	. PHE PHE PHE A A 427 427 .	0.4184	0.4357	0.4290	0.0006	-0.0067	-
0.0136	1	.							
3259	CB	CB	. PHE PHE PHE A A 427 427 .	0.4200	0.4245	0.3905	0.0052	-0.0141	-
0.0159	1	.							
3260	CG	CG	. PHE PHE PHE A A 427 427 .	0.4053	0.4352	0.4063	0.0098	0.0029	-
0.0176	1	.							
3261	CD1	CD1	. PHE PHE PHE A A 427 427 .	0.3899	0.4049	0.3886	0.0040	-0.0182	-
0.0024	1	.							
3262	CE1	CE1	. PHE PHE PHE A A 427 427 .	0.4143	0.3977	0.4284	-0.0054	0.0042	
0.0150	1	.							
3263	CZ	CZ	. PHE PHE PHE A A 427 427 .	0.4028	0.4282	0.4566	0.0047	-0.0081	-
0.0159	1	.							
3264	CE2	CE2	. PHE PHE PHE A A 427 427 .	0.3935	0.4178	0.4285	0.0116	-0.0014	-
0.0306	1	.							
3265	CD2	CD2	. PHE PHE PHE A A 427 427 .	0.4247	0.4496	0.4161	0.0154	-0.0297	-
0.0330	1	.							
3266	C	C	. PHE PHE PHE A A 427 427 .	0.4556	0.4453	0.4560	-0.0032	0.0001	-
0.0136	1	.							
3267	O	O	. PHE PHE PHE A A 427 427 .	0.4621	0.4704	0.4755	-0.0011	0.0113	-
0.0149	1	.							
3268	N	N	. ARG ARG ARG A A 428 428 .	0.4775	0.4621	0.4645	0.0039	-0.0029	-
0.0055	1	.							
3269	CA	CA	. ARG ARG ARG A A 428 428 .	0.5042	0.4808	0.4906	0.0033	0.0005	-
0.0087	1	.							
3270	CB	CB	. ARG ARG ARG A A 428 428 .	0.4941	0.4726	0.4857	-0.0009	0.0005	-
0.0159	1	.							
3271	CG	CG	. ARG ARG ARG A A 428 428 .	0.5137	0.4500	0.4805	0.0127	0.0030	-
0.0258	1	.							
3272	CD	CD	. ARG ARG ARG A A 428 428 .	0.5494	0.4669	0.4813	0.0351	-0.0445	-
0.0174	1	.							
3273	NE	NE	. ARG ARG ARG A A 428 428 .	0.5749	0.4612	0.5205	0.0455	-0.0266	-
0.0273	1	.							
3274	CZ	CZ	. ARG ARG ARG A A 428 428 .	0.5393	0.5049	0.5696	0.0402	-0.0022	
0.0003	1	.							
3275	NH1	NH1	. ARG ARG ARG A A 428 428 .	0.5704	0.4937	0.6098	0.0614	0.0200	
0.0582	1	.							
3276	NH2	NH2	. ARG ARG ARG A A 428 428 .	0.5679	0.5522	0.5471	0.0420	0.0106	
0.0139	1	.							
3277	C	C	. ARG ARG ARG A A 428 428 .	0.5214	0.5043	0.5112	0.0011	-0.0018	-
0.0049	1	.							
3278	O	O	. ARG ARG ARG A A 428 428 .	0.5394	0.5029	0.5363	0.0026	-0.0144	-
0.0051	1	.							
3279	N	N	. ASN ASN ASN A A 429 429 .	0.5315	0.5191	0.5080	0.0090	0.0004	-
0.0068	1	.							
3280	CA	CA	. ASN ASN ASN A A 429 429 .	0.5341	0.5342	0.5332	-0.0039	0.0068	-
0.0055	1	.							
3281	CB	CB	. ASN ASN ASN A A 429 429 .	0.5477	0.5505	0.5249	-0.0011	0.0112	-
0.0062	1	.							
3282	CG	CG	. ASN ASN ASN A A 429 429 .	0.5916	0.5812	0.5579	0.0148	0.0323	-
0.0136	1	.							



3313	C	C	. LEU LEU LEU A A 433 433 .	0.6239	0.6020	0.6113	-0.0250	0.0175	-
0.0090	1	.							
3314	O	O	. LEU LEU LEU A A 433 433 .	0.6312	0.6134	0.6088	-0.0365	0.0227	-
0.0111	1	.							
3315	G+2	G+2	. MG2 MG2 MG2 A . 601 601 .	0.0580	0.1607	0.2070	0.0464	0.0250	-
0.0064	1	.							
3316	G+2	G+2	. MG2 MG2 MG2 A . 602 602 .	0.1428	0.1863	0.1711	-0.0481	-0.0831	-
0.0174	1	.							
3317	O4P	O4P	. 2PG 2PG 2PG A . 603 603 .	0.2655	0.4248	0.3520	-0.0129	-0.0225	-
0.0608	1	.							
3318	P	P	. 2PG 2PG 2PG A . 603 603 .	0.2974	0.3903	0.3824	0.0002	0.0123	
0.0257	1	.							
3319	O2P	O2P	. 2PG 2PG 2PG A . 603 603 .	0.2773	0.4011	0.3739	0.0705	0.0291	
0.0127	1	.							
3320	O3P	O3P	. 2PG 2PG 2PG A . 603 603 .	0.2382	0.4436	0.3787	0.0140	-0.0299	
0.0194	1	.							
3321	O1P	O1P	. 2PG 2PG 2PG A . 603 603 .	0.3311	0.4246	0.3904	-0.0496	-0.0032	-
0.0117	1	.							
3322	C2	C2	. 2PG 2PG 2PG A . 603 603 .	0.4344	0.4547	0.4069	-0.0132	-0.0013	-
0.0167	1	.							
3323	C1	C1	. 2PG 2PG 2PG A . 603 603 .	0.4003	0.4565	0.4074	-0.0235	0.0067	-
0.0408	1	.							
3324	O2	O2	. 2PG 2PG 2PG A . 603 603 .	0.3627	0.5377	0.4399	-0.0185	0.0105	-
0.0484	1	.							
3325	O1	O1	. 2PG 2PG 2PG A . 603 603 .	0.4031	0.4367	0.4029	-0.0032	-0.0061	-
0.0295	1	.							
3326	C3	C3	. 2PG 2PG 2PG A . 603 603 .	0.4614	0.4657	0.4158	0.0086	-0.0110	-
0.0182	1	.							
3327	O3	O3	. 2PG 2PG 2PG A . 603 603 .	0.6114	0.5209	0.4388	-0.0267	-0.0444	
0.0632	1	.							
3328	O	O	. HOH HOH HOH A . 604 604 .	0.1859	0.4411	0.3479	0.0420	0.0390	-
0.0710	1	.							
3329	O	O	. HOH HOH HOH A . 605 605 .	0.2705	0.5031	0.2805	-0.0139	-0.1250	
0.0251	1	.							
3330	O	O	. HOH HOH HOH A . 606 606 .	0.2397	0.3674	0.3369	-0.0688	-0.0967	
0.0391	1	.							
3331	N	N	. SER SER SER B B 1 1 .	0.5638	0.6008	0.6138	-0.0089	-0.0181	-
0.0031	1	.							
3332	CA	CA	. SER SER SER B B 1 1 .	0.5774	0.6153	0.6170	0.0019	-0.0142	
0.0031	1	.							
3333	CB	CB	. SER SER SER B B 1 1 .	0.5759	0.6252	0.6176	0.0033	-0.0131	
0.0051	1	.							
3334	OG	OG	. SER SER SER B B 1 1 .	0.5873	0.6676	0.6247	-0.0063	-0.0131	
0.0163	1	.							
3335	C	C	. SER SER SER B B 1 1 .	0.5664	0.6013	0.6199	0.0041	-0.0120	
0.0036	1	.							
3336	O	O	. SER SER SER B B 1 1 .	0.5682	0.6159	0.6357	0.0119	-0.0060	
0.0035	1	.							
3337	N	N	. ILE ILE ILE B B 2 2 .	0.5500	0.5793	0.6076	0.0065	-0.0108	
0.0075	1	.							
3338	CA	CA	. ILE ILE ILE B B 2 2 .	0.5590	0.5669	0.5879	0.0018	-0.0043	
0.0035	1	.							
3339	CB	CB	. ILE ILE ILE B B 2 2 .	0.5549	0.5521	0.5816	-0.0015	-0.0043	
0.0032	1	.							
3340	CG1	CG1	. ILE ILE ILE B B 2 2 .	0.5443	0.5566	0.5763	-0.0044	-0.0060	
0.0159	1	.							
3341	CD1	CD1	. ILE ILE ILE B B 2 2 .	0.5131	0.5224	0.5816	-0.0091	-0.0155	-
0.0066	1	.							
3342	CG2	CG2	. ILE ILE ILE B B 2 2 .	0.5460	0.5465	0.5838	0.0025	-0.0097	
0.0067	1	.							

3343	C	C	. ILE ILE ILE B B 2	2	. 0.5438 0.5568 0.5816 0.0027 0.0048
0.0046	1	.			
3344	O	O	. ILE ILE ILE B B 2	2	. 0.5336 0.5513 0.5965 0.0040 0.0000
0.0092	1	.			
3345	N	N	. GLN GLN GLN B B 3	3	. 0.5394 0.5571 0.5694 0.0036 0.0090
0.0059	1	.			
3346	CA	CA	. GLN GLN GLN B B 3	3	. 0.5395 0.5574 0.5613 0.0049 0.0082
0.0079	1	.			
3347	CB	CB	. GLN GLN GLN B B 3	3	. 0.5543 0.5721 0.5733 0.0083 0.0143
0.0113	1	.			
3348	CG	CG	. GLN GLN GLN B B 3	3	. 0.6142 0.6129 0.6422 -0.0029 0.0218
0.0003	1	.			-
3349	CD	CD	. GLN GLN GLN B B 3	3	. 0.6846 0.6566 0.7396 0.0426 0.0513
0.0258	1	.			
3350	OE1	OE1	. GLN GLN GLN B B 3	3	. 0.7140 0.6614 0.7882 0.0916 0.0784
0.0188	1	.			-
3351	NE2	NE2	. GLN GLN GLN B B 3	3	. 0.6810 0.7014 0.7981 0.0260 0.0689
0.0292	1	.			
3352	C	C	. GLN GLN GLN B B 3	3	. 0.5293 0.5482 0.5411 0.0129 0.0090
0.0113	1	.			
3353	O	O	. GLN GLN GLN B B 3	3	. 0.5031 0.5473 0.5180 0.0229 0.0205
0.0152	1	.			
3354	N	N	. LYS LYS LYS B B 4	4	. 0.5257 0.5380 0.5299 0.0093 0.0111
0.0096	1	.			
3355	CA	CA	. LYS LYS LYS B B 4	4	. 0.5094 0.5242 0.5257 0.0033 0.0098
0.0075	1	.			
3356	CB	CB	. LYS LYS LYS B B 4	4	. 0.5115 0.5298 0.5338 0.0139 0.0146
0.0062	1	.			
3357	CG	CG	. LYS LYS LYS B B 4	4	. 0.5266 0.5510 0.5817 -0.0080 0.0143
0.0074	1	.			-
3358	CD	CD	. LYS LYS LYS B B 4	4	. 0.6457 0.6798 0.6406 -0.0100 -0.0074
0.0108	1	.			
3359	CE	CE	. LYS LYS LYS B B 4	4	. 0.7353 0.7424 0.7095 -0.0320 0.0064
0.0232	1	.			-
3360	NZ	NZ	. LYS LYS LYS B B 4	4	. 0.7661 0.7678 0.7731 -0.0758 0.0002
0.0154	1	.			
3361	C	C	. LYS LYS LYS B B 4	4	. 0.5199 0.5098 0.5090 0.0035 0.0067
0.0096	1	.			
3362	O	O	. LYS LYS LYS B B 4	4	. 0.5028 0.4921 0.5067 0.0049 0.0080
0.0208	1	.			
3363	N	N	. ILE ILE ILE B B 5	5	. 0.5097 0.5113 0.5044 0.0016 0.0054
0.0001	1	.			-
3364	CA	CA	. ILE ILE ILE B B 5	5	. 0.4880 0.5013 0.5031 0.0033 0.0018
0.0030	1	.			-
3365	CB	CB	. ILE ILE ILE B B 5	5	. 0.4845 0.4962 0.5050 0.0061 0.0047
0.0125	1	.			-
3366	CG1	CG1	. ILE ILE ILE B B 5	5	. 0.4853 0.4999 0.4749 0.0248 0.0107
0.0050	1	.			
3367	CD1	CD1	. ILE ILE ILE B B 5	5	. 0.5586 0.5240 0.4710 0.0411 -0.0084
0.0236	1	.			-
3368	CG2	CG2	. ILE ILE ILE B B 5	5	. 0.5057 0.4964 0.5079 0.0009 0.0248
0.0071	1	.			-
3369	C	C	. ILE ILE ILE B B 5	5	. 0.4895 0.5100 0.5115 0.0077 0.0062
0.0087	1	.			-
3370	O	O	. ILE ILE ILE B B 5	5	. 0.4679 0.5359 0.5163 0.0109 0.0084
0.0147	1	.			-
3371	N	N	. TRP TRP TRP B B 6	6	. 0.4649 0.5035 0.5083 0.0087 0.0017
0.0010	1	.			-
3372	CA	CA	. TRP TRP TRP B B 6	6	. 0.4854 0.5112 0.5047 0.0058 0.0111
0.0063	1	.			-

3373	CB	CB	. TRP TRP TRP B B 6 6	. 0.5151 0.5412 0.5292 0.0134 0.0139 -
0.0057	1 .			
3374	CG	CG	. TRP TRP TRP B B 6 6	. 0.6559 0.6873 0.6334 0.0217 -0.0246 -
0.0384	1 .			
3375	CD1	CD1	. TRP TRP TRP B B 6 6	. 0.6977 0.7757 0.7219 0.0547 -0.0462 -
0.0498	1 .			
3376	NE1	NE1	. TRP TRP TRP B B 6 6	. 0.7888 0.8526 0.7668 0.0686 -0.0518 -
0.0755	1 .			
3377	CE2	CE2	. TRP TRP TRP B B 6 6	. 0.8020 0.8470 0.7899 0.0671 -0.0460 -
0.0683	1 .			
3378	CD2	CD2	. TRP TRP TRP B B 6 6	. 0.7870 0.7865 0.7405 0.0579 -0.0208 -
0.0697	1 .			
3379	CE3	CE3	. TRP TRP TRP B B 6 6	. 0.8249 0.8143 0.7651 0.0644 -0.0408 -
0.0431	1 .			
3380	CZ3	CZ3	. TRP TRP TRP B B 6 6	. 0.8872 0.8432 0.8197 0.0701 -0.0350 -
0.0542	1 .			
3381	CH2	CH2	. TRP TRP TRP B B 6 6	. 0.8945 0.8620 0.8402 0.0747 -0.0467 -
0.0677	1 .			
3382	CZ2	CZ2	. TRP TRP TRP B B 6 6	. 0.8519 0.8747 0.8271 0.0587 -0.0540 -
0.0842	1 .			
3383	C	C	. TRP TRP TRP B B 6 6	. 0.4462 0.4669 0.4689 0.0079 0.0141 -
0.0004	1 .			
3384	O	O	. TRP TRP TRP B B 6 6	. 0.4233 0.4725 0.4564 0.0060 0.0270
0.0049	1 .			
3385	N	N	. ALA ALA ALA B B 7 7	. 0.4040 0.4373 0.4264 0.0154 0.0224
0.0209	1 .			
3386	CA	CA	. ALA ALA ALA B B 7 7	. 0.3860 0.4231 0.4137 0.0223 0.0195
0.0069	1 .			
3387	CB	CB	. ALA ALA ALA B B 7 7	. 0.3606 0.3939 0.4078 0.0241 0.0346
0.0124	1 .			
3388	C	C	. ALA ALA ALA B B 7 7	. 0.3802 0.4136 0.3953 0.0175 0.0191
0.0026	1 .			
3389	O	O	. ALA ALA ALA B B 7 7	. 0.3826 0.4267 0.4123 0.0247 0.0289 -
0.0088	1 .			
3390	N	N	. ARG ARG ARG B B 8 8	. 0.3414 0.3785 0.3859 0.0143 0.0158
0.0118	1 .			
3391	CA	CA	. ARG ARG ARG B B 8 8	. 0.3338 0.3625 0.3645 0.0071 0.0158
0.0032	1 .			
3392	CB	CB	. ARG ARG ARG B B 8 8	. 0.3461 0.3744 0.3726 0.0015 0.0186
0.0018	1 .			
3393	CG	CG	. ARG ARG ARG B B 8 8	. 0.2665 0.3517 0.3907 0.0154 -0.0084
0.0179	1 .			
3394	CD	CD	. ARG ARG ARG B B 8 8	. 0.3144 0.3943 0.4036 -0.0237 0.0021
0.0440	1 .			
3395	NE	NE	. ARG ARG ARG B B 8 8	. 0.3920 0.3709 0.3712 -0.0099 0.0097
0.0497	1 .			
3396	CZ	CZ	. ARG ARG ARG B B 8 8	. 0.3868 0.3969 0.4218 -0.0092 0.0114
0.0523	1 .			
3397	NH1	NH1	. ARG ARG ARG B B 8 8	. 0.3855 0.3957 0.4422 0.0067 0.0445
0.0592	1 .			
3398	NH2	NH2	. ARG ARG ARG B B 8 8	. 0.4837 0.4595 0.3927 -0.0248 0.0736
0.0386	1 .			
3399	C	C	. ARG ARG ARG B B 8 8	. 0.3424 0.3700 0.3651 0.0012 0.0155
0.0059	1 .			
3400	O	O	. ARG ARG ARG B B 8 8	. 0.3263 0.3744 0.3662 0.0203 0.0323
0.0114	1 .			
3401	N	N	. GLU GLU GLU B B 9 9	. 0.3313 0.3845 0.3504 0.0013 0.0162 -
0.0052	1 .			
3402	CA	CA	. GLU GLU GLU B B 9 9	. 0.3631 0.3905 0.3634 -0.0056 0.0148
0.0080	1 .			





3433	O	O	. ASP ASP ASP B B 12 12 .	0.2539	0.2663	0.2815	-0.0269	-0.0256	-
0.0280	1	.							
3434	N	N	. SER SER SER B B 13 13 .	0.2322	0.2949	0.2780	-0.0046	0.0014	-
0.0112	1	.							
3435	CA	CA	. SER SER SER B B 13 13 .	0.2816	0.2927	0.2857	-0.0052	0.0041	-
0.0031	1	.							
3436	CB	CB	. SER SER SER B B 13 13 .	0.2783	0.2852	0.2860	0.0028	0.0143	-
0.0040	1	.							
3437	OG	OG	. SER SER SER B B 13 13 .	0.2910	0.2811	0.3044	0.0169	0.0183	-
0.0111	1	.							
3438	C	C	. SER SER SER B B 13 13 .	0.2842	0.3093	0.2937	-0.0054	-0.0032	-
0.0041	1	.							
3439	O	O	. SER SER SER B B 13 13 .	0.3026	0.3294	0.3183	-0.0161	0.0153	-
0.0135	1	.							
3440	N	N	. ARG ARG ARG B B 14 14 .	0.3038	0.3218	0.3160	-0.0152	0.0023	-
0.0144	1	.							
3441	CA	CA	. ARG ARG ARG B B 14 14 .	0.3196	0.3425	0.3310	-0.0163	0.0091	-
0.0040	1	.							
3442	CB	CB	. ARG ARG ARG B B 14 14 .	0.3227	0.3255	0.3408	-0.0174	0.0073	-
0.0081	1	.							
3443	CG	CG	. ARG ARG ARG B B 14 14 .	0.3701	0.3238	0.3456	-0.0417	0.0002	-
0.0073	1	.							
3444	CD	CD	. ARG ARG ARG B B 14 14 .	0.4289	0.3404	0.3952	0.0073	-0.0577	-
0.0238	1	.							
3445	NE	NE	. ARG ARG ARG B B 14 14 .	0.4127	0.3059	0.3927	0.0366	-0.0083	-
0.0382	1	.							
3446	CZ	CZ	. ARG ARG ARG B B 14 14 .	0.3576	0.3056	0.3949	0.0063	-0.0061	-
0.0212	1	.							
3447	NH1	NH1	. ARG ARG ARG B B 14 14 .	0.3289	0.2790	0.3702	-0.0718	0.0445	-
0.0440	1	.							
3448	NH2	NH2	. ARG ARG ARG B B 14 14 .	0.2530	0.2171	0.4019	-0.0521	-0.0161	-
0.0710	1	.							
3449	C	C	. ARG ARG ARG B B 14 14 .	0.3101	0.3505	0.3330	-0.0156	0.0115	-
0.0057	1	.							
3450	O	O	. ARG ARG ARG B B 14 14 .	0.2822	0.3436	0.3445	-0.0124	0.0170	-
0.0056	1	.							
3451	N	N	. GLY GLY GLY B B 15 15 .	0.2977	0.3707	0.3309	-0.0100	0.0099	-
0.0036	1	.							
3452	CA	CA	. GLY GLY GLY B B 15 15 .	0.2866	0.3358	0.3174	-0.0002	0.0117	-
0.0071	1	.							
3453	C	C	. GLY GLY GLY B B 15 15 .	0.3167	0.3431	0.3208	-0.0004	0.0017	-
0.0068	1	.							
3454	O	O	. GLY GLY GLY B B 15 15 .	0.3003	0.3298	0.3041	0.0095	-0.0089	-
0.0088	1	.							
3455	N	N	. ASN ASN ASN B B 16 16 .	0.3158	0.3338	0.3061	0.0063	-0.0024	-
0.0019	1	.							
3456	CA	CA	. ASN ASN ASN B B 16 16 .	0.3175	0.3267	0.3125	0.0026	0.0103	-
0.0023	1	.							
3457	CB	CB	. ASN ASN ASN B B 16 16 .	0.3378	0.3247	0.3025	-0.0021	0.0166	-
0.0081	1	.							
3458	CG	CG	. ASN ASN ASN B B 16 16 .	0.3458	0.3235	0.3069	-0.0171	0.0051	-
0.0214	1	.							
3459	OD1	OD1	. ASN ASN ASN B B 16 16 .	0.3387	0.4165	0.2750	-0.0400	-0.0102	-
0.0218	1	.							
3460	ND2	ND2	. ASN ASN ASN B B 16 16 .	0.3788	0.2653	0.2854	-0.0170	0.0127	-
0.0173	1	.							
3461	C	C	. ASN ASN ASN B B 16 16 .	0.3088	0.3164	0.3035	0.0007	0.0188	-
0.0063	1	.							
3462	O	O	. ASN ASN ASN B B 16 16 .	0.2834	0.3214	0.2825	0.0142	0.0353	-
0.0053	1	.							

3463	N	N	. PRO PRO PRO B B 17 17 .	0.2916	0.3018	0.3115	0.0080	0.0102	-
0.0046	1	.							
3464	CA	CA	. PRO PRO PRO B B 17 17 .	0.2990	0.3082	0.3078	0.0067	0.0076	-
0.0066	1	.							
3465	CB	CB	. PRO PRO PRO B B 17 17 .	0.3017	0.2813	0.3166	0.0082	0.0023	-
0.0074	1	.							
3466	CG	CG	. PRO PRO PRO B B 17 17 .	0.2844	0.2937	0.3027	0.0119	0.0071	-
0.0135	1	.							
3467	CD	CD	. PRO PRO PRO B B 17 17 .	0.3053	0.3090	0.2873	0.0102	-0.0027	
0.0028	1	.							
3468	C	C	. PRO PRO PRO B B 17 17 .	0.2880	0.3147	0.3121	-0.0036	0.0058	-
0.0070	1	.							
3469	O	O	. PRO PRO PRO B B 17 17 .	0.2796	0.3272	0.3158	-0.0044	0.0041	-
0.0138	1	.							
3470	N	N	. THR THR THR B B 18 18 .	0.2868	0.3068	0.3152	-0.0023	0.0163	-
0.0014	1	.							
3471	CA	CA	. THR THR THR B B 18 18 .	0.2652	0.3016	0.3022	-0.0047	0.0068	
0.0050	1	.							
3472	CB	CB	. THR THR THR B B 18 18 .	0.2516	0.3042	0.3013	-0.0036	0.0115	
0.0127	1	.							
3473	OG1	OG1	. THR THR THR B B 18 18 .	0.2690	0.3361	0.3438	-0.0224	0.0154	
0.0327	1	.							
3474	CG2	CG2	. THR THR THR B B 18 18 .	0.2873	0.3037	0.2810	-0.0061	0.0417	
0.0132	1	.							
3475	C	C	. THR THR THR B B 18 18 .	0.2737	0.3115	0.3097	0.0116	0.0095	
0.0096	1	.							
3476	O	O	. THR THR THR B B 18 18 .	0.2548	0.3421	0.3172	0.0367	0.0062	-
0.0008	1	.							
3477	N	N	. VAL VAL VAL B B 19 19 .	0.2646	0.3179	0.3204	0.0007	-0.0036	
0.0073	1	.							
3478	CA	CA	. VAL VAL VAL B B 19 19 .	0.3038	0.3206	0.3473	0.0140	-0.0102	
0.0152	1	.							
3479	CB	CB	. VAL VAL VAL B B 19 19 .	0.2933	0.3064	0.3494	0.0097	-0.0115	
0.0171	1	.							
3480	CG1	CG1	. VAL VAL VAL B B 19 19 .	0.3225	0.3076	0.3821	0.0062	-0.0015	
0.0125	1	.							
3481	CG2	CG2	. VAL VAL VAL B B 19 19 .	0.3365	0.3099	0.3496	0.0170	0.0155	-
0.0106	1	.							
3482	C	C	. VAL VAL VAL B B 19 19 .	0.2940	0.3269	0.3420	0.0151	-0.0112	
0.0157	1	.							
3483	O	O	. VAL VAL VAL B B 19 19 .	0.3332	0.3304	0.3359	0.0296	-0.0158	
0.0247	1	.							
3484	N	N	. GLU GLU GLU B B 20 20 .	0.2354	0.3376	0.3516	0.0183	-0.0047	
0.0142	1	.							
3485	CA	CA	. GLU GLU GLU B B 20 20 .	0.2392	0.3429	0.3573	0.0066	-0.0025	
0.0031	1	.							
3486	CB	CB	. GLU GLU GLU B B 20 20 .	0.1983	0.3507	0.3662	0.0040	-0.0035	
0.0072	1	.							
3487	CG	CG	. GLU GLU GLU B B 20 20 .	0.2955	0.3302	0.3625	0.0259	0.0287	-
0.0174	1	.							
3488	CD	CD	. GLU GLU GLU B B 20 20 .	0.4333	0.3222	0.4216	0.0254	0.0557	
0.0013	1	.							
3489	OE1	OE1	. GLU GLU GLU B B 20 20 .	0.4616	0.4275	0.4987	0.0118	0.1292	
0.0226	1	.							
3490	OE2	OE2	. GLU GLU GLU B B 20 20 .	0.5280	0.2912	0.4008	0.0472	0.0964	-
0.0433	1	.							
3491	C	C	. GLU GLU GLU B B 20 20 .	0.2340	0.3589	0.3597	0.0072	-0.0105	-
0.0147	1	.							
3492	O	O	. GLU GLU GLU B B 20 20 .	0.1698	0.3930	0.3695	0.0102	-0.0211	-
0.0143	1	.							

3493	N	N	. VAL VAL VAL B B 21 21 .	0.2878	0.3729	0.3632	-0.0049	0.0014	-
0.0188	1	.							
3494	CA	CA	. VAL VAL VAL B B 21 21 .	0.3008	0.3813	0.3756	-0.0056	-0.0107	-
0.0163	1	.							
3495	CB	CB	. VAL VAL VAL B B 21 21 .	0.3144	0.3888	0.3777	-0.0217	-0.0062	-
0.0105	1	.							
3496	CG1	CG1	. VAL VAL VAL B B 21 21 .	0.2238	0.4026	0.3724	-0.0189	-0.0324	-
0.0247	1	.							
3497	CG2	CG2	. VAL VAL VAL B B 21 21 .	0.2930	0.3926	0.4126	-0.0485	-0.0370	-
0.0374	1	.							
3498	C	C	. VAL VAL VAL B B 21 21 .	0.3439	0.3901	0.3882	-0.0031	-0.0037	-
0.0077	1	.							
3499	O	O	. VAL VAL VAL B B 21 21 .	0.3624	0.4052	0.3876	-0.0019	-0.0037	-
0.0057	1	.							
3500	N	N	. ASP ASP ASP B B 22 22 .	0.3832	0.4108	0.3902	0.0047	0.0000	-
0.0056	1	.							
3501	CA	CA	. ASP ASP ASP B B 22 22 .	0.3991	0.4092	0.4078	0.0017	-0.0030	-
0.0009	1	.							
3502	CB	CB	. ASP ASP ASP B B 22 22 .	0.3897	0.4083	0.4012	0.0126	-0.0044	-
0.0051	1	.							
3503	CG	CG	. ASP ASP ASP B B 22 22 .	0.4064	0.4615	0.4225	-0.0051	-0.0031	-
0.0127	1	.							
3504	OD1	OD1	. ASP ASP ASP B B 22 22 .	0.3986	0.5459	0.4303	-0.0305	-0.0577	-
0.0614	1	.							
3505	OD2	OD2	. ASP ASP ASP B B 22 22 .	0.3794	0.4912	0.4474	0.0105	0.0232	-
0.0366	1	.							
3506	C	C	. ASP ASP ASP B B 22 22 .	0.4195	0.4257	0.4153	0.0071	-0.0057	-
0.0010	1	.							
3507	O	O	. ASP ASP ASP B B 22 22 .	0.4077	0.4387	0.4107	0.0081	-0.0030	-
0.0010	1	.							
3508	N	N	. LEU LEU LEU B B 23 23 .	0.4386	0.4531	0.4227	0.0023	-0.0085	-
0.0006	1	.							
3509	CA	CA	. LEU LEU LEU B B 23 23 .	0.4456	0.4695	0.4515	0.0030	0.0015	-
0.0064	1	.							
3510	CB	CB	. LEU LEU LEU B B 23 23 .	0.4492	0.4630	0.4426	0.0017	-0.0006	-
0.0103	1	.							
3511	CG	CG	. LEU LEU LEU B B 23 23 .	0.4538	0.4498	0.4385	-0.0240	-0.0035	-
0.0112	1	.							
3512	CD1	CD1	. LEU LEU LEU B B 23 23 .	0.4494	0.4588	0.3756	-0.0389	0.0035	-
0.0527	1	.							
3513	CD2	CD2	. LEU LEU LEU B B 23 23 .	0.4268	0.4856	0.4673	-0.0416	0.0150	-
0.0215	1	.							
3514	C	C	. LEU LEU LEU B B 23 23 .	0.4615	0.4795	0.4684	0.0077	0.0015	-
0.0130	1	.							
3515	O	O	. LEU LEU LEU B B 23 23 .	0.4441	0.4936	0.4885	0.0172	0.0089	-
0.0244	1	.							
3516	N	N	. TYR TYR TYR B B 24 24 .	0.4523	0.4970	0.4728	0.0114	-0.0069	-
0.0164	1	.							
3517	CA	CA	. TYR TYR TYR B B 24 24 .	0.4708	0.5068	0.4900	0.0004	-0.0076	-
0.0106	1	.							
3518	CB	CB	. TYR TYR TYR B B 24 24 .	0.4753	0.5172	0.4990	0.0000	-0.0019	-
0.0127	1	.							
3519	CG	CG	. TYR TYR TYR B B 24 24 .	0.5198	0.5529	0.5062	-0.0072	-0.0104	-
0.0120	1	.							
3520	CD1	CD1	. TYR TYR TYR B B 24 24 .	0.5381	0.5801	0.5249	-0.0191	-0.0027	-
0.0005	1	.							
3521	CE1	CE1	. TYR TYR TYR B B 24 24 .	0.5425	0.6042	0.5525	-0.0222	-0.0034	-
0.0040	1	.							
3522	CZ	CZ	. TYR TYR TYR B B 24 24 .	0.5536	0.5911	0.5420	-0.0073	-0.0161	-
0.0067	1	.							

3523	OH	OH	. TYR TYR TYR B B 24 24 .	0.5653	0.6658	0.5570	-0.0120	-0.0307
0.0037	1	.						
3524	CE2	CE2	. TYR TYR TYR B B 24 24 .	0.5307	0.6109	0.5429	-0.0053	-0.0089
0.0332	1	.						
3525	CD2	CD2	. TYR TYR TYR B B 24 24 .	0.5470	0.5806	0.5315	-0.0115	-0.0089
0.0258	1	.						
3526	C	C	. TYR TYR TYR B B 24 24 .	0.4896	0.5145	0.5007	-0.0005	-0.0066
0.0098	1	.						
3527	O	O	. TYR TYR TYR B B 24 24 .	0.4611	0.5057	0.4954	-0.0014	-0.0130
0.0221	1	.						
3528	N	N	. THR THR THR B B 25 25 .	0.5103	0.5180	0.5160	-0.0126	-0.0070
0.0077	1	.						
3529	CA	CA	. THR THR THR B B 25 25 .	0.5292	0.5424	0.5248	-0.0108	-0.0042
0.0067	1	.						
3530	CB	CB	. THR THR THR B B 25 25 .	0.5356	0.5383	0.5245	-0.0102	-0.0083
0.0059	1	.						
3531	OG1	OG1	. THR THR THR B B 25 25 .	0.5047	0.5817	0.5097	0.0141	-0.0111
0.0053	1	.						-
3532	CG2	CG2	. THR THR THR B B 25 25 .	0.5531	0.5593	0.5020	-0.0052	-0.0027
0.0086	1	.						
3533	C	C	. THR THR THR B B 25 25 .	0.5318	0.5510	0.5391	-0.0206	-0.0040
0.0149	1	.						
3534	O	O	. THR THR THR B B 25 25 .	0.5292	0.5691	0.5381	-0.0306	-0.0013
0.0286	1	.						
3535	N	N	. ALA ALA ALA B B 26 26 .	0.5304	0.5646	0.5576	-0.0202	-0.0054
0.0159	1	.						
3536	CA	CA	. ALA ALA ALA B B 26 26 .	0.5316	0.5550	0.5611	-0.0185	-0.0093
0.0182	1	.						
3537	CB	CB	. ALA ALA ALA B B 26 26 .	0.5080	0.5374	0.5491	-0.0235	-0.0141
0.0277	1	.						
3538	C	C	. ALA ALA ALA B B 26 26 .	0.5295	0.5618	0.5589	-0.0154	-0.0162
0.0126	1	.						
3539	O	O	. ALA ALA ALA B B 26 26 .	0.5326	0.5851	0.5589	-0.0058	-0.0331
0.0104	1	.						
3540	N	N	. LYS LYS LYS B B 27 27 .	0.5459	0.5739	0.5640	-0.0108	-0.0178
0.0010	1	.						
3541	CA	CA	. LYS LYS LYS B B 27 27 .	0.5541	0.5724	0.5629	-0.0041	-0.0175
0.0004	1	.						
3542	CB	CB	. LYS LYS LYS B B 27 27 .	0.5666	0.5955	0.5692	-0.0096	-0.0105
0.0079	1	.						
3543	CG	CG	. LYS LYS LYS B B 27 27 .	0.6109	0.6353	0.6026	-0.0162	-0.0205
0.0032	1	.						-
3544	CD	CD	. LYS LYS LYS B B 27 27 .	0.6872	0.6573	0.6489	-0.0334	-0.0085
0.0402	1	.						-
3545	CE	CE	. LYS LYS LYS B B 27 27 .	0.6976	0.7255	0.7217	-0.0288	-0.0041
0.0500	1	.						-
3546	NZ	NZ	. LYS LYS LYS B B 27 27 .	0.7488	0.7442	0.7502	-0.0383	0.0013
0.0902	1	.						-
3547	C	C	. LYS LYS LYS B B 27 27 .	0.5523	0.5602	0.5483	0.0002	-0.0192
0.0031	1	.						
3548	O	O	. LYS LYS LYS B B 27 27 .	0.5315	0.5735	0.5463	0.0080	-0.0222
0.0116	1	.						
3549	N	N	. GLY GLY GLY B B 28 28 .	0.5414	0.5428	0.5328	-0.0064	-0.0272
0.0150	1	.						
3550	CA	CA	. GLY GLY GLY B B 28 28 .	0.5204	0.5210	0.5310	-0.0181	-0.0182
0.0130	1	.						
3551	C	C	. GLY GLY GLY B B 28 28 .	0.5085	0.5060	0.5159	-0.0160	-0.0175
0.0133	1	.						
3552	O	O	. GLY GLY GLY B B 28 28 .	0.4963	0.4886	0.4960	-0.0309	-0.0200
0.0079	1	.						

3553	N	N	. LEU LEU LEU B B 29 29	. 0.4935 0.4928 0.5092 -0.0127 -0.0103
0.0181	1	.		
3554	CA	CA	. LEU LEU LEU B B 29 29	. 0.4797 0.4774 0.4976 -0.0096 -0.0100
0.0164	1	.		
3555	CB	CB	. LEU LEU LEU B B 29 29	. 0.4841 0.4839 0.5039 -0.0105 -0.0231
0.0270	1	.		
3556	CG	CG	. LEU LEU LEU B B 29 29	. 0.4851 0.4955 0.5059 -0.0190 -0.0400
0.0416	1	.		
3557	CD1	CD1	. LEU LEU LEU B B 29 29	. 0.4662 0.5078 0.4524 -0.0042 -0.0675
0.0387	1	.		
3558	CD2	CD2	. LEU LEU LEU B B 29 29	. 0.4256 0.5441 0.5317 -0.0370 -0.0739
0.0398	1	.		
3559	C	C	. LEU LEU LEU B B 29 29	. 0.4636 0.4650 0.4964 -0.0042 0.0001
0.0071	1	.		
3560	O	O	. LEU LEU LEU B B 29 29	. 0.4558 0.4618 0.5152 -0.0104 0.0036
0.0132	1	.		
3561	N	N	. PHE PHE PHE B B 30 30	. 0.4382 0.4509 0.4642 0.0017 0.0070
0.0030	1	.		
3562	CA	CA	. PHE PHE PHE B B 30 30	. 0.4158 0.4444 0.4462 -0.0032 0.0039
0.0055	1	.		
3563	CB	CB	. PHE PHE PHE B B 30 30	. 0.4059 0.4593 0.4398 -0.0165 0.0160
0.0127	1	.		
3564	CG	CG	. PHE PHE PHE B B 30 30	. 0.3991 0.4739 0.4638 -0.0112 -0.0001
0.0019	1	.		
3565	CD1	CD1	. PHE PHE PHE B B 30 30	. 0.3097 0.4674 0.4550 0.0083 -0.0101
0.0352	1	.		
3566	CE1	CE1	. PHE PHE PHE B B 30 30	. 0.3820 0.4924 0.4568 -0.0286 -0.0259
0.0110	1	.		
3567	CZ	CZ	. PHE PHE PHE B B 30 30	. 0.4016 0.4694 0.4493 -0.0132 -0.0031
0.0069	1	.		
3568	CE2	CE2	. PHE PHE PHE B B 30 30	. 0.3706 0.4769 0.4117 -0.0095 0.0005
0.0116	1	.		
3569	CD2	CD2	. PHE PHE PHE B B 30 30	. 0.4234 0.4990 0.4789 -0.0311 0.0255
0.0360	1	.		
3570	C	C	. PHE PHE PHE B B 30 30	. 0.4168 0.4350 0.4332 0.0026 0.0024
0.0016	1	.		
3571	O	O	. PHE PHE PHE B B 30 30	. 0.4209 0.4378 0.4402 0.0142 0.0020
0.0061	1	.		
3572	N	N	. ARG ARG ARG B B 31 31	. 0.3783 0.4172 0.4119 -0.0037 0.0064
0.0027	1	.		
3573	CA	CA	. ARG ARG ARG B B 31 31	. 0.3664 0.4042 0.3854 -0.0040 -0.0041
0.0056	1	.		
3574	CB	CB	. ARG ARG ARG B B 31 31	. 0.3775 0.3873 0.3810 -0.0053 -0.0092
0.0246	1	.		
3575	CG	CG	. ARG ARG ARG B B 31 31	. 0.3541 0.3969 0.3600 0.0031 -0.0230
0.0421	1	.		
3576	CD	CD	. ARG ARG ARG B B 31 31	. 0.3632 0.4095 0.4002 0.0171 -0.0157
0.0322	1	.		
3577	NE	NE	. ARG ARG ARG B B 31 31	. 0.3955 0.3871 0.4004 0.0383 -0.0091
0.0296	1	.		
3578	CZ	CZ	. ARG ARG ARG B B 31 31	. 0.4023 0.4007 0.4214 0.0420 -0.0382
0.0460	1	.		
3579	NH1	NH1	. ARG ARG ARG B B 31 31	. 0.3735 0.4657 0.4226 0.0095 -0.0520
0.1042	1	.		
3580	NH2	NH2	. ARG ARG ARG B B 31 31	. 0.4951 0.3221 0.4228 0.0456 -0.0877
0.0564	1	.		
3581	C	C	. ARG ARG ARG B B 31 31	. 0.3464 0.3952 0.3805 -0.0087 -0.0093
0.0042	1	.		
3582	O	O	. ARG ARG ARG B B 31 31	. 0.3050 0.4303 0.3780 -0.0187 -0.0033
0.0114	1	.		

3583	N	N	. ALA ALA ALA B B 32 32	. 0.3560 0.3970 0.3779 0.0030 -0.0080
0.0127	1	.		
3584	CA	CA	. ALA ALA ALA B B 32 32	. 0.3650 0.3963 0.3853 0.0048 -0.0042
0.0054	1	.		
3585	CB	CB	. ALA ALA ALA B B 32 32	. 0.3921 0.4028 0.3989 0.0036 -0.0091
0.0164	1	.		
3586	C	C	. ALA ALA ALA B B 32 32	. 0.3529 0.3907 0.3807 0.0080 -0.0015
0.0051	1	.		
3587	O	O	. ALA ALA ALA B B 32 32	. 0.3145 0.4038 0.3791 0.0219 0.0023
0.0005	1	.		
3588	N	N	. ALA ALA ALA B B 33 33	. 0.3339 0.3736 0.3841 0.0133 -0.0057
0.0088	1	.		
3589	CA	CA	. ALA ALA ALA B B 33 33	. 0.3296 0.3517 0.3567 0.0068 -0.0051
0.0055	1	.		
3590	CB	CB	. ALA ALA ALA B B 33 33	. 0.3399 0.3667 0.3464 0.0157 -0.0178
0.0132	1	.		
3591	C	C	. ALA ALA ALA B B 33 33	. 0.3247 0.3422 0.3452 0.0017 -0.0037
0.0000	1	.		
3592	O	O	. ALA ALA ALA B B 33 33	. 0.3009 0.3203 0.3501 -0.0016 0.0004 -
0.0094	1	.		
3593	N	N	. VAL VAL VAL B B 34 34	. 0.2937 0.3410 0.3318 -0.0056 0.0019
0.0131	1	.		
3594	CA	CA	. VAL VAL VAL B B 34 34	. 0.2419 0.3218 0.3000 -0.0108 0.0151
0.0023	1	.		
3595	CB	CB	. VAL VAL VAL B B 34 34	. 0.2146 0.3044 0.2963 -0.0147 0.0210
0.0081	1	.		
3596	CG1	CG1	. VAL VAL VAL B B 34 34	. 0.1257 0.3296 0.3103 0.0091 0.0296
0.0030	1	.		
3597	CG2	CG2	. VAL VAL VAL B B 34 34	. 0.2135 0.2794 0.2420 -0.0344 0.0185 -
0.0021	1	.		
3598	C	C	. VAL VAL VAL B B 34 34	. 0.2544 0.3297 0.2930 -0.0043 0.0081 -
0.0045	1	.		
3599	O	O	. VAL VAL VAL B B 34 34	. 0.2426 0.3662 0.2803 -0.0133 -0.0105 -
0.0209	1	.		
3600	N	N	. PRO PRO PRO B B 35 35	. 0.2611 0.3098 0.2846 -0.0004 0.0169 -
0.0014	1	.		
3601	CA	CA	. PRO PRO PRO B B 35 35	. 0.2727 0.2891 0.2815 0.0057 0.0181 -
0.0020	1	.		
3602	CB	CB	. PRO PRO PRO B B 35 35	. 0.2504 0.2850 0.2799 0.0082 0.0208
0.0062	1	.		
3603	CG	CG	. PRO PRO PRO B B 35 35	. 0.2763 0.3011 0.2907 0.0068 0.0212 -
0.0215	1	.		
3604	CD	CD	. PRO PRO PRO B B 35 35	. 0.2464 0.2991 0.2755 -0.0077 0.0378 -
0.0095	1	.		
3605	C	C	. PRO PRO PRO B B 35 35	. 0.2937 0.3047 0.2923 0.0048 0.0136
0.0007	1	.		
3606	O	O	. PRO PRO PRO B B 35 35	. 0.3692 0.3107 0.3289 0.0307 0.0148
0.0071	1	.		
3607	N	N	. SER SER SER B B 36 36	. 0.2909 0.3054 0.2929 0.0064 0.0055 -
0.0118	1	.		
3608	CA	CA	. SER SER SER B B 36 36	. 0.3000 0.2999 0.3004 -0.0037 0.0041 -
0.0072	1	.		
3609	CB	CB	. SER SER SER B B 36 36	. 0.3268 0.3144 0.3328 -0.0011 0.0079 -
0.0090	1	.		
3610	OG	OG	. SER SER SER B B 36 36	. 0.3093 0.3311 0.3519 -0.0311 0.0314 -
0.0032	1	.		
3611	C	C	. SER SER SER B B 36 36	. 0.3254 0.3009 0.2990 -0.0042 0.0009
0.0019	1	.		
3612	O	O	. SER SER SER B B 36 36	. 0.3262 0.3096 0.2912 -0.0183 0.0095
0.0059	1	.		

3613	N	N	. GLY GLY GLY B B 37 37 .	0.3348	0.3281	0.3017	0.0049	-0.0131	-
0.0104	1	.							
3614	CA	CA	. GLY GLY GLY B B 37 37 .	0.3402	0.3137	0.2986	0.0047	-0.0101	-
0.0110	1	.							
3615	C	C	. GLY GLY GLY B B 37 37 .	0.3320	0.3201	0.2981	0.0163	-0.0133	-
0.0042	1	.							
3616	O	O	. GLY GLY GLY B B 37 37 .	0.3901	0.3384	0.2997	0.0159	-0.0371	-
0.0015	1	.							
3617	N	N	. ALA ALA ALA B B 38 38 .	0.3325	0.3143	0.2966	0.0068	-0.0099	-
0.0064	1	.							
3618	CA	CA	. ALA ALA ALA B B 38 38 .	0.3248	0.3130	0.3039	0.0040	-0.0120	-
0.0040	1	.							
3619	CB	CB	. ALA ALA ALA B B 38 38 .	0.3229	0.3186	0.2945	0.0045	-0.0154	-
0.0019	1	.							
3620	C	C	. ALA ALA ALA B B 38 38 .	0.3212	0.3167	0.3119	0.0012	-0.0031	-
0.0041	1	.							
3621	O	O	. ALA ALA ALA B B 38 38 .	0.3393	0.3280	0.3376	0.0119	-0.0123	-
0.0069	1	.							
3622	N	N	. SER SER SER B B 39 39 .	0.2985	0.3302	0.2970	-0.0102	-0.0049	-
0.0041	1	.							
3623	CA	CA	. SER SER SER B B 39 39 .	0.2930	0.3227	0.3031	0.0014	0.0045	-
0.0067	1	.							
3624	CB	CB	. SER SER SER B B 39 39 .	0.2995	0.3236	0.3030	-0.0072	0.0245	-
0.0017	1	.							
3625	OG	OG	. SER SER SER B B 39 39 .	0.2754	0.3070	0.2632	0.0216	0.0223	-
0.0344	1	.							
3626	C	C	. SER SER SER B B 39 39 .	0.2852	0.3268	0.3093	0.0086	-0.0015	-
0.0006	1	.							
3627	O	O	. SER SER SER B B 39 39 .	0.2481	0.3447	0.3152	0.0068	-0.0040	-
0.0040	1	.							
3628	N	N	. THR THR THR B B 40 40 .	0.3050	0.3345	0.3230	0.0067	-0.0113	-
0.0075	1	.							
3629	CA	CA	. THR THR THR B B 40 40 .	0.3196	0.3425	0.3294	0.0052	0.0020	-
0.0000	1	.							
3630	CB	CB	. THR THR THR B B 40 40 .	0.3399	0.3415	0.3240	0.0052	0.0070	-
0.0051	1	.							
3631	OG1	OG1	. THR THR THR B B 40 40 .	0.2876	0.3528	0.3369	-0.0066	0.0268	-
0.0048	1	.							
3632	CG2	CG2	. THR THR THR B B 40 40 .	0.3804	0.3395	0.3608	0.0187	0.0156	-
0.0063	1	.							
3633	C	C	. THR THR THR B B 40 40 .	0.3244	0.3466	0.3209	-0.0040	-0.0012	-
0.0028	1	.							
3634	O	O	. THR THR THR B B 40 40 .	0.3572	0.3120	0.3143	-0.0139	-0.0228	-
0.0024	1	.							
3635	N	N	. GLY GLY GLY B B 41 41 .	0.2945	0.3570	0.3098	-0.0073	-0.0031	-
0.0047	1	.							
3636	CA	CA	. GLY GLY GLY B B 41 41 .	0.2983	0.3463	0.3187	-0.0058	0.0093	-
0.0054	1	.							
3637	C	C	. GLY GLY GLY B B 41 41 .	0.2887	0.3393	0.3194	-0.0005	0.0106	-
0.0020	1	.							
3638	O	O	. GLY GLY GLY B B 41 41 .	0.3095	0.3687	0.3272	0.0270	0.0186	-
0.0145	1	.							
3639	N	N	. ILE ILE ILE B B 42 42 .	0.2933	0.3527	0.3065	0.0021	0.0056	-
0.0031	1	.							
3640	CA	CA	. ILE ILE ILE B B 42 42 .	0.2915	0.3424	0.3136	-0.0090	-0.0141	-
0.0016	1	.							
3641	CB	CB	. ILE ILE ILE B B 42 42 .	0.2904	0.3588	0.3155	-0.0097	-0.0151	-
0.0008	1	.							
3642	CG1	CG1	. ILE ILE ILE B B 42 42 .	0.2760	0.3596	0.3422	-0.0187	-0.0384	-
0.0231	1	.							

3643	CD1	CD1	. ILE ILE ILE B B 42 42 .	0.2158	0.4001	0.3599	0.0154	-0.0207	
0.0454	1	.							
3644	CG2	CG2	. ILE ILE ILE B B 42 42 .	0.3010	0.3759	0.3473	-0.0179	-0.0426	
0.0191	1	.							
3645	C	C	. ILE ILE ILE B B 42 42 .	0.3151	0.3458	0.3223	-0.0049	-0.0091	-
0.0005	1	.							
3646	O	O	. ILE ILE ILE B B 42 42 .	0.3255	0.3559	0.3141	-0.0110	-0.0088	-
0.0015	1	.							
3647	N	N	. TYR TYR TYR B B 43 43 .	0.3259	0.3568	0.3074	-0.0059	-0.0159	
0.0013	1	.							
3648	CA	CA	. TYR TYR TYR B B 43 43 .	0.3386	0.3621	0.3191	-0.0072	-0.0072	-
0.0028	1	.							
3649	CB	CB	. TYR TYR TYR B B 43 43 .	0.3560	0.3530	0.3165	-0.0053	-0.0105	-
0.0123	1	.							
3650	CG	CG	. TYR TYR TYR B B 43 43 .	0.3743	0.3964	0.3560	-0.0204	-0.0135	
0.0013	1	.							
3651	CD1	CD1	. TYR TYR TYR B B 43 43 .	0.4383	0.4382	0.4209	-0.0218	0.0039	-
0.0203	1	.							
3652	CE1	CE1	. TYR TYR TYR B B 43 43 .	0.4492	0.4433	0.4510	-0.0232	0.0038	
0.0168	1	.							
3653	CZ	CZ	. TYR TYR TYR B B 43 43 .	0.4514	0.4449	0.4708	-0.0114	0.0110	
0.0011	1	.							
3654	OH	OH	. TYR TYR TYR B B 43 43 .	0.4068	0.4037	0.5083	-0.0194	-0.0192	
0.0015	1	.							
3655	CE2	CE2	. TYR TYR TYR B B 43 43 .	0.4434	0.4302	0.4674	-0.0196	0.0272	
0.0024	1	.							
3656	CD2	CD2	. TYR TYR TYR B B 43 43 .	0.4097	0.3972	0.4468	-0.0111	-0.0084	
0.0041	1	.							
3657	C	C	. TYR TYR TYR B B 43 43 .	0.3285	0.3453	0.3161	-0.0002	-0.0020	
0.0033	1	.							
3658	O	O	. TYR TYR TYR B B 43 43 .	0.3450	0.3497	0.3098	-0.0201	-0.0207	-
0.0048	1	.							
3659	N	N	. GLU GLU GLU B B 44 44 .	0.3282	0.3530	0.3407	0.0169	0.0103	
0.0083	1	.							
3660	CA	CA	. GLU GLU GLU B B 44 44 .	0.3199	0.3500	0.3496	0.0234	0.0036	
0.0083	1	.							
3661	CB	CB	. GLU GLU GLU B B 44 44 .	0.3158	0.3629	0.3396	0.0267	-0.0018	
0.0123	1	.							
3662	CG	CG	. GLU GLU GLU B B 44 44 .	0.3458	0.3532	0.2907	0.0524	-0.0195	
0.0033	1	.							
3663	CD	CD	. GLU GLU GLU B B 44 44 .	0.3400	0.3624	0.3640	0.0241	-0.0192	-
0.0096	1	.							
3664	OE1	OE1	. GLU GLU GLU B B 44 44 .	0.4321	0.4493	0.3769	0.0490	-0.0864	
0.0416	1	.							
3665	OE2	OE2	. GLU GLU GLU B B 44 44 .	0.4704	0.3536	0.3719	0.0922	0.0182	-
0.0343	1	.							
3666	C	C	. GLU GLU GLU B B 44 44 .	0.3210	0.3526	0.3533	0.0142	0.0091	
0.0021	1	.							
3667	O	O	. GLU GLU GLU B B 44 44 .	0.3023	0.3382	0.3648	0.0309	0.0015	-
0.0071	1	.							
3668	N	N	. ALA ALA ALA B B 45 45 .	0.3310	0.3625	0.3643	0.0064	0.0079	
0.0097	1	.							
3669	CA	CA	. ALA ALA ALA B B 45 45 .	0.3327	0.3526	0.3674	0.0101	0.0150	-
0.0027	1	.							
3670	CB	CB	. ALA ALA ALA B B 45 45 .	0.3085	0.3501	0.3741	0.0110	0.0200	
0.0028	1	.							
3671	C	C	. ALA ALA ALA B B 45 45 .	0.3562	0.3665	0.3762	0.0136	0.0106	-
0.0019	1	.							
3672	O	O	. ALA ALA ALA B B 45 45 .	0.3356	0.3706	0.3797	0.0083	0.0199	-
0.0072	1	.							



3673	N	N	. LEU LEU LEU B B 46 46	. 0.3792 0.3936 0.3757 0.0095 0.0119 -
0.0084	1	.		
3674	CA	CA	. LEU LEU LEU B B 46 46	. 0.3811 0.3965 0.3909 0.0073 -0.0048 -
0.0139	1	.		
3675	CB	CB	. LEU LEU LEU B B 46 46	. 0.3963 0.4022 0.4164 0.0074 -0.0005 -
0.0293	1	.		
3676	CG	CG	. LEU LEU LEU B B 46 46	. 0.4094 0.4323 0.4454 0.0092 0.0079 -
0.0332	1	.		
3677	CD1	CD1	. LEU LEU LEU B B 46 46	. 0.3946 0.4040 0.4924 -0.0360 -0.0382 -
0.0654	1	.		
3678	CD2	CD2	. LEU LEU LEU B B 46 46	. 0.4780 0.4496 0.4451 0.0060 0.0221 -
0.0834	1	.		
3679	C	C	. LEU LEU LEU B B 46 46	. 0.3759 0.3951 0.3842 -0.0020 -0.0033 -
0.0133	1	.		
3680	O	O	. LEU LEU LEU B B 46 46	. 0.3477 0.3971 0.3421 -0.0100 -0.0027 -
0.0167	1	.		
3681	N	N	. GLU GLU GLU B B 47 47	. 0.3618 0.3777 0.3809 0.0215 0.0011 -
0.0092	1	.		
3682	CA	CA	. GLU GLU GLU B B 47 47	. 0.3560 0.3796 0.3771 0.0179 -0.0036 -
0.0104	1	.		
3683	CB	CB	. GLU GLU GLU B B 47 47	. 0.3756 0.3723 0.3902 0.0159 -0.0114 -
0.0229	1	.		
3684	CG	CG	. GLU GLU GLU B B 47 47	. 0.3863 0.3781 0.4222 0.0089 -0.0056
0.0188	1	.		
3685	CD	CD	. GLU GLU GLU B B 47 47	. 0.4158 0.4222 0.5250 -0.0114 -0.0241
0.0108	1	.		
3686	OE1	OE1	. GLU GLU GLU B B 47 47	. 0.4276 0.4553 0.5287 -0.0310 -0.0224 -
0.0136	1	.		
3687	OE2	OE2	. GLU GLU GLU B B 47 47	. 0.4493 0.3165 0.5854 -0.0334 -0.0515
0.0330	1	.		
3688	C	C	. GLU GLU GLU B B 47 47	. 0.3543 0.3686 0.3826 0.0123 0.0000 -
0.0086	1	.		
3689	O	O	. GLU GLU GLU B B 47 47	. 0.3562 0.3765 0.4039 0.0092 0.0210 -
0.0127	1	.		
3690	N	N	. LEU LEU LEU B B 48 48	. 0.3338 0.3645 0.3614 0.0136 -0.0012 -
0.0036	1	.		
3691	CA	CA	. LEU LEU LEU B B 48 48	. 0.3429 0.3612 0.3618 0.0103 0.0082
0.0040	1	.		
3692	CB	CB	. LEU LEU LEU B B 48 48	. 0.3587 0.3636 0.3804 0.0135 0.0227 -
0.0014	1	.		
3693	CG	CG	. LEU LEU LEU B B 48 48	. 0.3544 0.3481 0.3567 -0.0163 0.0332
0.0091	1	.		
3694	CD1	CD1	. LEU LEU LEU B B 48 48	. 0.3572 0.3691 0.4035 -0.0292 0.0854
0.0240	1	.		
3695	CD2	CD2	. LEU LEU LEU B B 48 48	. 0.3291 0.2923 0.3297 -0.0245 0.0275
0.0441	1	.		
3696	C	C	. LEU LEU LEU B B 48 48	. 0.3711 0.3776 0.3632 0.0076 0.0141
0.0000	1	.		
3697	O	O	. LEU LEU LEU B B 48 48	. 0.3466 0.3987 0.3297 0.0082 0.0237
0.0041	1	.		
3698	N	N	. ARG ARG ARG B B 49 49	. 0.3754 0.3751 0.3676 -0.0029 0.0065 -
0.0007	1	.		
3699	CA	CA	. ARG ARG ARG B B 49 49	. 0.4089 0.3997 0.3934 0.0126 0.0113 -
0.0004	1	.		
3700	CB	CB	. ARG ARG ARG B B 49 49	. 0.4066 0.4033 0.3859 0.0090 0.0267 -
0.0050	1	.		
3701	CG	CG	. ARG ARG ARG B B 49 49	. 0.3986 0.3991 0.4150 0.0191 0.0013 -
0.0242	1	.		
3702	CD	CD	. ARG ARG ARG B B 49 49	. 0.4367 0.3691 0.3403 -0.0019 -0.0195
0.0003	1	.		

3703	NE	NE	. ARG ARG ARG B B 49 49 .	0.4099	0.3924	0.3947	0.0231	0.0118	
0.0193	1	.							
3704	CZ	CZ	. ARG ARG ARG B B 49 49 .	0.3954	0.3901	0.3462	0.0597	0.0191	
0.0092	1	.							
3705	NH1	NH1	. ARG ARG ARG B B 49 49 .	0.3394	0.3466	0.2666	0.0486	0.0139	-
0.0693	1	.							
3706	NH2	NH2	. ARG ARG ARG B B 49 49 .	0.4656	0.4140	0.2448	0.0202	-0.0208	
0.0049	1	.							
3707	C	C	. ARG ARG ARG B B 49 49 .	0.4254	0.3988	0.4032	0.0206	0.0180	-
0.0018	1	.							
3708	O	O	. ARG ARG ARG B B 49 49 .	0.4380	0.3898	0.4013	0.0261	0.0244	
0.0021	1	.							
3709	N	N	. ASP ASP ASP B B 50 50 .	0.4469	0.4114	0.4070	0.0187	0.0231	
0.0007	1	.							
3710	CA	CA	. ASP ASP ASP B B 50 50 .	0.4609	0.4455	0.4269	0.0100	0.0227	
0.0049	1	.							
3711	CB	CB	. ASP ASP ASP B B 50 50 .	0.4723	0.4449	0.4233	0.0148	0.0312	
0.0012	1	.							
3712	CG	CG	. ASP ASP ASP B B 50 50 .	0.4623	0.4722	0.4330	0.0267	0.0424	
0.0035	1	.							
3713	OD1	OD1	. ASP ASP ASP B B 50 50 .	0.4332	0.4524	0.4224	0.0739	0.0450	-
0.0397	1	.							
3714	OD2	OD2	. ASP ASP ASP B B 50 50 .	0.5121	0.5240	0.4968	0.0390	0.0310	
0.0525	1	.							
3715	C	C	. ASP ASP ASP B B 50 50 .	0.4660	0.4595	0.4408	0.0100	0.0174	
0.0078	1	.							
3716	O	O	. ASP ASP ASP B B 50 50 .	0.4542	0.4447	0.4284	0.0187	0.0334	
0.0024	1	.							
3717	N	N	. GLY GLY GLY B B 51 51 .	0.4755	0.4927	0.4550	0.0051	0.0157	
0.0155	1	.							
3718	CA	CA	. GLY GLY GLY B B 51 51 .	0.4803	0.4892	0.4846	-0.0025	0.0053	
0.0062	1	.							
3719	C	C	. GLY GLY GLY B B 51 51 .	0.5048	0.5113	0.5153	0.0022	0.0044	
0.0062	1	.							
3720	O	O	. GLY GLY GLY B B 51 51 .	0.5051	0.5170	0.5360	-0.0016	-0.0024	-
0.0006	1	.							
3721	N	N	. ASP ASP ASP B B 52 52 .	0.5231	0.5231	0.5285	0.0002	0.0007	
0.0065	1	.							
3722	CA	CA	. ASP ASP ASP B B 52 52 .	0.5348	0.5315	0.5300	0.0013	-0.0009	-
0.0018	1	.							
3723	CB	CB	. ASP ASP ASP B B 52 52 .	0.5356	0.5155	0.5274	-0.0001	-0.0015	
0.0024	1	.							
3724	CG	CG	. ASP ASP ASP B B 52 52 .	0.5328	0.5140	0.5372	-0.0172	-0.0010	-
0.0183	1	.							
3725	OD1	OD1	. ASP ASP ASP B B 52 52 .	0.5469	0.4270	0.5783	-0.0186	-0.0014	-
0.0289	1	.							
3726	OD2	OD2	. ASP ASP ASP B B 52 52 .	0.4954	0.5179	0.4999	-0.0440	-0.0046	-
0.0342	1	.							
3727	C	C	. ASP ASP ASP B B 52 52 .	0.5476	0.5401	0.5415	0.0006	-0.0059	
0.0003	1	.							
3728	O	O	. ASP ASP ASP B B 52 52 .	0.5437	0.5609	0.5489	0.0042	-0.0131	
0.0091	1	.							
3729	N	N	. LYS LYS LYS B B 53 53 .	0.5628	0.5537	0.5562	0.0018	-0.0039	-
0.0038	1	.							
3730	CA	CA	. LYS LYS LYS B B 53 53 .	0.5862	0.5767	0.5739	-0.0003	-0.0077	-
0.0034	1	.							
3731	CB	CB	. LYS LYS LYS B B 53 53 .	0.5904	0.5843	0.5858	-0.0019	-0.0070	
0.0049	1	.							
3732	CG	CG	. LYS LYS LYS B B 53 53 .	0.6484	0.6542	0.6234	0.0000	-0.0060	
0.0244	1	.							





3793	C	C	. GLY GLY GLY B B 60 60 .	0.3393	0.3478	0.3326	0.0121	0.0095	
0.0071	1	.							
3794	O	O	. GLY GLY GLY B B 60 60 .	0.3197	0.3416	0.3228	0.0254	0.0079	
0.0174	1	.							
3795	N	N	. VAL VAL VAL B B 61 61 .	0.3592	0.3466	0.3341	0.0071	0.0030	
0.0044	1	.							
3796	CA	CA	. VAL VAL VAL B B 61 61 .	0.3648	0.3481	0.3363	0.0187	0.0001	-
0.0046	1	.							
3797	CB	CB	. VAL VAL VAL B B 61 61 .	0.3924	0.3671	0.3614	0.0094	0.0093	
0.0007	1	.							
3798	CG1	CG1	. VAL VAL VAL B B 61 61 .	0.3475	0.3604	0.3026	0.0122	0.0055	
0.0052	1	.							
3799	CG2	CG2	. VAL VAL VAL B B 61 61 .	0.4262	0.3471	0.3443	0.0354	0.0067	-
0.0082	1	.							
3800	C	C	. VAL VAL VAL B B 61 61 .	0.3699	0.3454	0.3467	0.0146	-0.0051	-
0.0043	1	.							
3801	O	O	. VAL VAL VAL B B 61 61 .	0.3584	0.3176	0.3503	0.0238	-0.0040	-
0.0141	1	.							
3802	N	N	. LEU LEU LEU B B 62 62 .	0.3852	0.3850	0.3702	0.0166	-0.0018	-
0.0017	1	.							
3803	CA	CA	. LEU LEU LEU B B 62 62 .	0.3792	0.3849	0.3707	0.0144	0.0045	-
0.0006	1	.							
3804	CB	CB	. LEU LEU LEU B B 62 62 .	0.3952	0.4036	0.3924	0.0187	0.0007	-
0.0054	1	.							
3805	CG	CG	. LEU LEU LEU B B 62 62 .	0.4414	0.4280	0.4125	0.0134	0.0050	
0.0011	1	.							
3806	CD1	CD1	. LEU LEU LEU B B 62 62 .	0.4985	0.4518	0.4751	-0.0113	0.0303	-
0.0210	1	.							
3807	CD2	CD2	. LEU LEU LEU B B 62 62 .	0.4143	0.4729	0.4404	-0.0118	0.0634	
0.0232	1	.							
3808	C	C	. LEU LEU LEU B B 62 62 .	0.3709	0.3702	0.3578	0.0113	0.0033	-
0.0006	1	.							
3809	O	O	. LEU LEU LEU B B 62 62 .	0.3406	0.3451	0.3242	0.0124	0.0112	
0.0111	1	.							
3810	N	N	. LYS LYS LYS B B 63 63 .	0.3684	0.3709	0.3534	0.0146	0.0200	
0.0017	1	.							
3811	CA	CA	. LYS LYS LYS B B 63 63 .	0.3607	0.3861	0.3775	0.0089	0.0145	
0.0006	1	.							
3812	CB	CB	. LYS LYS LYS B B 63 63 .	0.3634	0.3808	0.3790	0.0038	0.0154	-
0.0092	1	.							
3813	CG	CG	. LYS LYS LYS B B 63 63 .	0.4524	0.4322	0.4423	-0.0243	0.0161	-
0.0079	1	.							
3814	CD	CD	. LYS LYS LYS B B 63 63 .	0.4624	0.4708	0.4609	-0.0806	0.0570	-
0.0056	1	.							
3815	CE	CE	. LYS LYS LYS B B 63 63 .	0.4615	0.4473	0.4717	-0.0713	0.0451	
0.0211	1	.							
3816	NZ	NZ	. LYS LYS LYS B B 63 63 .	0.4641	0.4192	0.4663	-0.0939	0.0866	
0.0058	1	.							
3817	C	C	. LYS LYS LYS B B 63 63 .	0.3595	0.3787	0.3861	0.0159	0.0149	-
0.0013	1	.							
3818	O	O	. LYS LYS LYS B B 63 63 .	0.3141	0.3881	0.4143	0.0346	0.0327	
0.0085	1	.							
3819	N	N	. ALA ALA ALA B B 64 64 .	0.3353	0.3879	0.3807	0.0239	0.0193	-
0.0059	1	.							
3820	CA	CA	. ALA ALA ALA B B 64 64 .	0.3532	0.3804	0.3796	0.0189	0.0126	-
0.0148	1	.							
3821	CB	CB	. ALA ALA ALA B B 64 64 .	0.3769	0.3758	0.3780	0.0182	-0.0010	-
0.0284	1	.							
3822	C	C	. ALA ALA ALA B B 64 64 .	0.3676	0.3818	0.3825	0.0240	0.0093	-
0.0123	1	.							

3823	O	O	. ALA ALA ALA B B 64 64 .	0.3674	0.3905	0.3770	0.0344	0.0084	-
0.0229	1	.							
3824	N	N	. VAL VAL VAL B B 65 65 .	0.3529	0.3912	0.3971	0.0354	0.0176	-
0.0077	1	.							
3825	CA	CA	. VAL VAL VAL B B 65 65 .	0.3481	0.4007	0.4043	0.0411	0.0193	
0.0009	1	.							
3826	CB	CB	. VAL VAL VAL B B 65 65 .	0.3598	0.3981	0.3953	0.0463	0.0237	
0.0010	1	.							
3827	CG1	CG1	. VAL VAL VAL B B 65 65 .	0.2665	0.3465	0.4062	0.0609	0.0380	-
0.0192	1	.							
3828	CG2	CG2	. VAL VAL VAL B B 65 65 .	0.3076	0.4074	0.3945	0.0730	0.0118	
0.0345	1	.							
3829	C	C	. VAL VAL VAL B B 65 65 .	0.3699	0.4165	0.4151	0.0277	0.0212	
0.0017	1	.							
3830	O	O	. VAL VAL VAL B B 65 65 .	0.3308	0.4219	0.4112	0.0372	0.0244	
0.0045	1	.							
3831	N	N	. ASP ASP ASP B B 66 66 .	0.3939	0.4218	0.4225	0.0298	0.0155	
0.0000	1	.							
3832	CA	CA	. ASP ASP ASP B B 66 66 .	0.4278	0.4438	0.4495	0.0204	0.0146	
0.0059	1	.							
3833	CB	CB	. ASP ASP ASP B B 66 66 .	0.4444	0.4247	0.4608	0.0193	0.0191	
0.0014	1	.							
3834	CG	CG	. ASP ASP ASP B B 66 66 .	0.5066	0.4828	0.5263	0.0104	0.0456	
0.0058	1	.							
3835	OD1	OD1	. ASP ASP ASP B B 66 66 .	0.5572	0.5052	0.5814	0.0264	0.0328	-
0.0127	1	.							
3836	OD2	OD2	. ASP ASP ASP B B 66 66 .	0.5596	0.5213	0.5372	-0.0157	0.0907	
0.0188	1	.							
3837	C	C	. ASP ASP ASP B B 66 66 .	0.4156	0.4396	0.4477	0.0197	0.0083	
0.0124	1	.							
3838	O	O	. ASP ASP ASP B B 66 66 .	0.4153	0.4498	0.4533	0.0151	0.0132	
0.0200	1	.							
3839	N	N	. HIS HIS HIS B B 67 67 .	0.4154	0.4517	0.4479	0.0197	0.0070	
0.0157	1	.							
3840	CA	CA	. HIS HIS HIS B B 67 67 .	0.4269	0.4618	0.4557	0.0100	0.0071	
0.0148	1	.							
3841	CB	CB	. HIS HIS HIS B B 67 67 .	0.4307	0.4660	0.4628	0.0077	0.0141	
0.0135	1	.							
3842	CG	CG	. HIS HIS HIS B B 67 67 .	0.4826	0.4825	0.4988	0.0065	-0.0018	
0.0142	1	.							
3843	ND1	ND1	. HIS HIS HIS B B 67 67 .	0.4877	0.5140	0.4723	0.0188	0.0312	-
0.0029	1	.							
3844	CE1	CE1	. HIS HIS HIS B B 67 67 .	0.5021	0.4818	0.5104	0.0076	0.0043	-
0.0097	1	.							
3845	NE2	NE2	. HIS HIS HIS B B 67 67 .	0.4825	0.5034	0.5039	-0.0152	-0.0012	
0.0139	1	.							
3846	CD2	CD2	. HIS HIS HIS B B 67 67 .	0.4968	0.5032	0.5228	-0.0059	-0.0024	
0.0155	1	.							
3847	C	C	. HIS HIS HIS B B 67 67 .	0.4217	0.4562	0.4548	0.0152	0.0113	
0.0201	1	.							
3848	O	O	. HIS HIS HIS B B 67 67 .	0.3570	0.4883	0.4738	0.0323	0.0343	
0.0379	1	.							
3849	N	N	. ILE ILE ILE B B 68 68 .	0.3952	0.4500	0.4291	0.0211	0.0188	
0.0172	1	.							
3850	CA	CA	. ILE ILE ILE B B 68 68 .	0.4003	0.4271	0.4224	0.0108	0.0153	
0.0034	1	.							
3851	CB	CB	. ILE ILE ILE B B 68 68 .	0.3975	0.4197	0.4092	0.0026	0.0172	
0.0079	1	.							
3852	CG1	CG1	. ILE ILE ILE B B 68 68 .	0.4166	0.4283	0.4244	0.0127	0.0109	-
0.0188	1	.							

3853	CD1	CD1	. ILE ILE ILE B B 68 68	. 0.2884 0.4412 0.3280 -0.0069 -0.0541
0.0001	1	.		
3854	CG2	CG2	. ILE ILE ILE B B 68 68	. 0.3270 0.3954 0.3540 0.0032 0.0011 -
0.0234	1	.		
3855	C	C	. ILE ILE ILE B B 68 68	. 0.4178 0.4327 0.4157 0.0154 0.0168
0.0088	1	.		
3856	O	O	. ILE ILE ILE B B 68 68	. 0.4144 0.4518 0.3934 0.0139 0.0176
0.0220	1	.		
3857	N	N	. ASN ASN ASN B B 69 69	. 0.4116 0.4350 0.4343 0.0303 0.0076
0.0055	1	.		
3858	CA	CA	. ASN ASN ASN B B 69 69	. 0.4408 0.4604 0.4674 0.0194 0.0089
0.0062	1	.		
3859	CB	CB	. ASN ASN ASN B B 69 69	. 0.4323 0.4434 0.4473 0.0173 0.0137
0.0016	1	.		
3860	CG	CG	. ASN ASN ASN B B 69 69	. 0.4410 0.4446 0.4584 0.0003 0.0065
0.0013	1	.		
3861	OD1	OD1	. ASN ASN ASN B B 69 69	. 0.4224 0.3977 0.4758 -0.0549 0.0987
0.0295	1	.		
3862	ND2	ND2	. ASN ASN ASN B B 69 69	. 0.4168 0.4169 0.4622 0.0160 -0.0092 -
0.0517	1	.		
3863	C	C	. ASN ASN ASN B B 69 69	. 0.4560 0.4785 0.4955 0.0208 0.0151
0.0016	1	.		
3864	O	O	. ASN ASN ASN B B 69 69	. 0.4596 0.4987 0.5145 0.0288 0.0062 -
0.0006	1	.		
3865	N	N	. SER SER SER B B 70 70	. 0.4828 0.4958 0.5173 0.0258 0.0089 -
0.0030	1	.		
3866	CA	CA	. SER SER SER B B 70 70	. 0.5029 0.5129 0.5299 0.0197 0.0001 -
0.0034	1	.		
3867	CB	CB	. SER SER SER B B 70 70	. 0.4985 0.4967 0.5258 0.0144 -0.0072 -
0.0039	1	.		
3868	OG	OG	. SER SER SER B B 70 70	. 0.5319 0.5281 0.5368 0.0204 -0.0043 -
0.0018	1	.		
3869	C	C	. SER SER SER B B 70 70	. 0.5044 0.5188 0.5313 0.0160 0.0000 -
0.0065	1	.		
3870	O	O	. SER SER SER B B 70 70	. 0.5027 0.5259 0.5558 0.0210 0.0069 -
0.0169	1	.		
3871	N	N	. THR THR THR B B 71 71	. 0.4903 0.5098 0.5170 0.0175 0.0096
0.0003	1	.		
3872	CA	CA	. THR THR THR B B 71 71	. 0.4845 0.5076 0.5020 0.0121 0.0030
0.0059	1	.		
3873	CB	CB	. THR THR THR B B 71 71	. 0.5005 0.5195 0.5066 0.0097 -0.0039 -
0.0002	1	.		
3874	OG1	OG1	. THR THR THR B B 71 71	. 0.5418 0.5230 0.5204 0.0417 -0.0019 -
0.0298	1	.		
3875	CG2	CG2	. THR THR THR B B 71 71	. 0.4684 0.5255 0.5084 0.0050 0.0068
0.0099	1	.		
3876	C	C	. THR THR THR B B 71 71	. 0.4668 0.4958 0.4917 0.0166 0.0095
0.0121	1	.		
3877	O	O	. THR THR THR B B 71 71	. 0.4369 0.5030 0.4834 0.0398 0.0146
0.0259	1	.		
3878	N	N	. ILE ILE ILE B B 72 72	. 0.4370 0.4952 0.4764 0.0065 0.0120
0.0200	1	.		
3879	CA	CA	. ILE ILE ILE B B 72 72	. 0.4181 0.4774 0.4684 0.0094 0.0074
0.0074	1	.		
3880	CB	CB	. ILE ILE ILE B B 72 72	. 0.4401 0.4814 0.4753 0.0096 0.0050
0.0022	1	.		
3881	CG1	CG1	. ILE ILE ILE B B 72 72	. 0.4147 0.4964 0.4663 0.0173 0.0180
0.0189	1	.		
3882	CD1	CD1	. ILE ILE ILE B B 72 72	. 0.5232 0.4659 0.4808 0.0346 0.0440 -
0.0200	1	.		





3913	CB	CB	. ILE ILE ILE B B 77 77	. 0.4441 0.4986 0.5144 0.0239 0.0072 -
0.0007	1	.		
3914	CG1	CG1	. ILE ILE ILE B B 77 77	. 0.4159 0.5232 0.4929 0.0107 0.0138 -
0.0125	1	.		
3915	CD1	CD1	. ILE ILE ILE B B 77 77	. 0.2607 0.4879 0.4744 0.0208 0.0362 -
0.0114	1	.		
3916	CG2	CG2	. ILE ILE ILE B B 77 77	. 0.3947 0.5056 0.4798 0.0565 0.0491 -
0.0216	1	.		
3917	C	C	. ILE ILE ILE B B 77 77	. 0.4707 0.5170 0.5382 0.0152 0.0083 -
0.0070	1	.		
3918	O	O	. ILE ILE ILE B B 77 77	. 0.4695 0.5421 0.5707 0.0142 0.0140 -
0.0091	1	.		
3919	N	N	. SER SER SER B B 78 78	. 0.4897 0.5201 0.5418 0.0197 0.0045 -
0.0029	1	.		
3920	CA	CA	. SER SER SER B B 78 78	. 0.5083 0.5329 0.5390 0.0191 0.0063 -
0.0037	1	.		
3921	CB	CB	. SER SER SER B B 78 78	. 0.4987 0.5344 0.5407 0.0254 0.0072 -
0.0129	1	.		
3922	OG	OG	. SER SER SER B B 78 78	. 0.5285 0.6028 0.5752 0.0453 0.0279 -
0.0058	1	.		
3923	C	C	. SER SER SER B B 78 78	. 0.5165 0.5259 0.5360 0.0161 0.0059
0.0014	1	.		
3924	O	O	. SER SER SER B B 78 78	. 0.5238 0.5172 0.5346 0.0225 0.0072
0.0029	1	.		
3925	N	N	. SER SER SER B B 79 79	. 0.5231 0.5282 0.5305 0.0193 0.0145
0.0012	1	.		
3926	CA	CA	. SER SER SER B B 79 79	. 0.5141 0.5325 0.5345 0.0153 0.0173
0.0039	1	.		
3927	CB	CB	. SER SER SER B B 79 79	. 0.5005 0.5300 0.5369 0.0162 0.0244
0.0013	1	.		
3928	OG	OG	. SER SER SER B B 79 79	. 0.4397 0.5307 0.5352 0.0213 0.0512
0.0266	1	.		
3929	C	C	. SER SER SER B B 79 79	. 0.5220 0.5428 0.5434 0.0124 0.0148
0.0012	1	.		
3930	O	O	. SER SER SER B B 79 79	. 0.5382 0.5552 0.5520 0.0266 0.0111
0.0001	1	.		
3931	N	N	. GLY GLY GLY B B 80 80	. 0.5234 0.5505 0.5477 0.0081 0.0162
0.0080	1	.		
3932	CA	CA	. GLY GLY GLY B B 80 80	. 0.5214 0.5403 0.5567 -0.0012 0.0159
0.0089	1	.		
3933	C	C	. GLY GLY GLY B B 80 80	. 0.5277 0.5517 0.5677 -0.0013 0.0085
0.0134	1	.		
3934	O	O	. GLY GLY GLY B B 80 80	. 0.5264 0.5759 0.5894 -0.0158 0.0097
0.0181	1	.		
3935	N	N	. LEU LEU LEU B B 81 81	. 0.5291 0.5498 0.5707 0.0101 -0.0038
0.0117	1	.		
3936	CA	CA	. LEU LEU LEU B B 81 81	. 0.5237 0.5515 0.5618 0.0155 -0.0037
0.0143	1	.		
3937	CB	CB	. LEU LEU LEU B B 81 81	. 0.5150 0.5483 0.5718 0.0167 -0.0098
0.0095	1	.		
3938	CG	CG	. LEU LEU LEU B B 81 81	. 0.5273 0.5350 0.5693 0.0105 -0.0217
0.0191	1	.		
3939	CD1	CD1	. LEU LEU LEU B B 81 81	. 0.4705 0.5737 0.5688 0.0068 -0.0424
0.0131	1	.		
3940	CD2	CD2	. LEU LEU LEU B B 81 81	. 0.4920 0.4900 0.5845 0.0374 -0.0336
0.0396	1	.		
3941	C	C	. LEU LEU LEU B B 81 81	. 0.5245 0.5564 0.5663 0.0142 0.0014
0.0047	1	.		
3942	O	O	. LEU LEU LEU B B 81 81	. 0.5102 0.5595 0.5758 0.0329 -0.0061
0.0101	1	.		





4003	CD1	CD1	. LEU LEU LEU B B 89 89	. 0.3282 0.3593 0.4687 -0.0208 -0.0034
0.0093	1	.		
4004	CD2	CD2	. LEU LEU LEU B B 89 89	. 0.3829 0.2626 0.4180 0.0385 -0.0154
0.0203	1	.		
4005	C	C	. LEU LEU LEU B B 89 89	. 0.4144 0.4422 0.4345 0.0074 0.0019
0.0053	1	.		
4006	O	O	. LEU LEU LEU B B 89 89	. 0.3807 0.4659 0.4110 0.0197 0.0068
0.0086	1	.		
4007	N	N	. ASP ASP ASP B B 90 90	. 0.4219 0.4407 0.4274 0.0061 0.0006
0.0075	1	.		
4008	CA	CA	. ASP ASP ASP B B 90 90	. 0.4133 0.4560 0.4340 0.0152 -0.0012
0.0042	1	.		
4009	CB	CB	. ASP ASP ASP B B 90 90	. 0.4279 0.4640 0.4353 0.0289 -0.0111
0.0010	1	.		
4010	CG	CG	. ASP ASP ASP B B 90 90	. 0.4193 0.5019 0.4611 0.0342 -0.0119 -
0.0091	1	.		
4011	OD1	OD1	. ASP ASP ASP B B 90 90	. 0.3835 0.5601 0.4897 0.0555 -0.0675 -
0.0021	1	.		
4012	OD2	OD2	. ASP ASP ASP B B 90 90	. 0.4191 0.4884 0.5411 0.0784 -0.0265 -
0.0181	1	.		
4013	C	C	. ASP ASP ASP B B 90 90	. 0.4071 0.4506 0.4392 0.0162 -0.0039
0.0028	1	.		
4014	O	O	. ASP ASP ASP B B 90 90	. 0.3628 0.4530 0.4337 0.0249 -0.0093
0.0072	1	.		
4015	N	N	. ASN ASN ASN B B 91 91	. 0.4240 0.4683 0.4544 0.0123 -0.0065
0.0011	1	.		
4016	CA	CA	. ASN ASN ASN B B 91 91	. 0.4405 0.4642 0.4692 0.0111 -0.0098
0.0021	1	.		
4017	CB	CB	. ASN ASN ASN B B 91 91	. 0.4614 0.4872 0.4925 0.0085 -0.0091
0.0061	1	.		
4018	CG	CG	. ASN ASN ASN B B 91 91	. 0.5506 0.5820 0.5280 -0.0243 -0.0081
0.0168	1	.		
4019	OD1	OD1	. ASN ASN ASN B B 91 91	. 0.6667 0.6149 0.6367 -0.0908 -0.0308
0.0066	1	.		
4020	ND2	ND2	. ASN ASN ASN B B 91 91	. 0.5591 0.6572 0.6029 -0.0325 0.0027
0.0499	1	.		
4021	C	C	. ASN ASN ASN B B 91 91	. 0.4042 0.4591 0.4752 0.0204 -0.0079
0.0042	1	.		
4022	O	O	. ASN ASN ASN B B 91 91	. 0.3785 0.4549 0.4959 0.0531 -0.0064
0.0022	1	.		
4023	N	N	. LEU LEU LEU B B 92 92	. 0.4012 0.4600 0.4653 0.0180 -0.0085 -
0.0003	1	.		
4024	CA	CA	. LEU LEU LEU B B 92 92	. 0.4124 0.4513 0.4562 0.0177 -0.0065 -
0.0050	1	.		
4025	CB	CB	. LEU LEU LEU B B 92 92	. 0.3796 0.4428 0.4465 0.0249 -0.0014 -
0.0085	1	.		
4026	CG	CG	. LEU LEU LEU B B 92 92	. 0.3519 0.4475 0.4569 0.0297 -0.0232
0.0106	1	.		
4027	CD1	CD1	. LEU LEU LEU B B 92 92	. 0.3778 0.4303 0.4328 0.0675 0.0196 -
0.0243	1	.		
4028	CD2	CD2	. LEU LEU LEU B B 92 92	. 0.1066 0.4604 0.4540 0.1107 0.0054
0.0090	1	.		
4029	C	C	. LEU LEU LEU B B 92 92	. 0.4220 0.4577 0.4657 0.0170 -0.0033 -
0.0055	1	.		
4030	O	O	. LEU LEU LEU B B 92 92	. 0.4324 0.4624 0.4693 0.0252 0.0111 -
0.0129	1	.		
4031	N	N	. MET MET MET B B 93 93	. 0.4387 0.4709 0.4660 0.0171 -0.0089
0.0007	1	.		
4032	CA	CA	. MET MET MET B B 93 93	. 0.4271 0.4654 0.4630 0.0182 -0.0050
0.0050	1	.		

4033	CB	CB	. MET MET MET B B 93 93	. 0.4307 0.4610 0.4564 0.0286 -0.0177
0.0069	1	.		
4034	CG	CG	. MET MET MET B B 93 93	. 0.4204 0.4350 0.4430 0.0404 0.0076
0.0093	1	.		
4035	SD	SD	. MET MET MET B B 93 93	. 0.4538 0.5247 0.4521 0.0528 -0.0380
0.0407	1	.		
4036	CE	CE	. MET MET MET B B 93 93	. 0.4100 0.4869 0.4335 0.0979 0.0254
0.0112	1	.		
4037	C	C	. MET MET MET B B 93 93	. 0.4207 0.4671 0.4632 0.0203 -0.0026
0.0083	1	.		
4038	O	O	. MET MET MET B B 93 93	. 0.4017 0.4741 0.4495 0.0245 0.0005
0.0222	1	.		
4039	N	N	. LEU LEU LEU B B 94 94	. 0.4302 0.4744 0.4734 0.0278 0.0020
0.0056	1	.		
4040	CA	CA	. LEU LEU LEU B B 94 94	. 0.4716 0.4886 0.4859 0.0247 0.0012 -
0.0006	1	.		
4041	CB	CB	. LEU LEU LEU B B 94 94	. 0.4668 0.4841 0.4884 0.0354 0.0064 -
0.0186	1	.		
4042	CG	CG	. LEU LEU LEU B B 94 94	. 0.5039 0.5090 0.4965 0.0348 -0.0004 -
0.0442	1	.		
4043	CD1	CD1	. LEU LEU LEU B B 94 94	. 0.5600 0.5415 0.5019 0.0555 0.0420 -
0.0658	1	.		
4044	CD2	CD2	. LEU LEU LEU B B 94 94	. 0.4180 0.4830 0.5268 0.1072 0.0185 -
0.0919	1	.		
4045	C	C	. LEU LEU LEU B B 94 94	. 0.4783 0.4892 0.4967 0.0175 0.0023 -
0.0033	1	.		
4046	O	O	. LEU LEU LEU B B 94 94	. 0.4714 0.4847 0.4863 0.0109 0.0024
0.0125	1	.		
4047	N	N	. GLU GLU GLU B B 95 95	. 0.4786 0.5064 0.5153 0.0095 0.0061
0.0018	1	.		
4048	CA	CA	. GLU GLU GLU B B 95 95	. 0.4963 0.5226 0.5313 0.0083 0.0036
0.0083	1	.		
4049	CB	CB	. GLU GLU GLU B B 95 95	. 0.5080 0.5404 0.5529 0.0079 0.0005
0.0089	1	.		
4050	CG	CG	. GLU GLU GLU B B 95 95	. 0.6008 0.6228 0.5970 0.0107 0.0146
0.0162	1	.		
4051	CD	CD	. GLU GLU GLU B B 95 95	. 0.7285 0.7004 0.7214 0.0151 0.0333
0.0478	1	.		
4052	OE1	OE1	. GLU GLU GLU B B 95 95	. 0.7991 0.7732 0.7298 0.0136 0.0642
0.0478	1	.		
4053	OE2	OE2	. GLU GLU GLU B B 95 95	. 0.7437 0.7631 0.7651 0.0505 0.0436
0.0389	1	.		
4054	C	C	. GLU GLU GLU B B 95 95	. 0.4787 0.5138 0.5269 0.0087 0.0023
0.0056	1	.		
4055	O	O	. GLU GLU GLU B B 95 95	. 0.4626 0.5255 0.5363 0.0207 -0.0002
0.0128	1	.		
4056	N	N	. LEU LEU LEU B B 96 96	. 0.4774 0.5162 0.5262 0.0108 0.0007
0.0031	1	.		
4057	CA	CA	. LEU LEU LEU B B 96 96	. 0.4800 0.5125 0.5131 0.0199 0.0047
0.0014	1	.		
4058	CB	CB	. LEU LEU LEU B B 96 96	. 0.4889 0.5223 0.5239 0.0221 0.0121
0.0031	1	.		
4059	CG	CG	. LEU LEU LEU B B 96 96	. 0.5197 0.5515 0.5337 0.0330 0.0264
0.0095	1	.		
4060	CD1	CD1	. LEU LEU LEU B B 96 96	. 0.4848 0.5867 0.5780 0.0422 0.0100
0.0229	1	.		
4061	CD2	CD2	. LEU LEU LEU B B 96 96	. 0.5208 0.5502 0.5382 0.0709 0.0213 -
0.0016	1	.		
4062	C	C	. LEU LEU LEU B B 96 96	. 0.4691 0.5072 0.5063 0.0176 -0.0032 -
0.0023	1	.		

4063	O	O	. LEU LEU LEU B B 96 96 .	0.4292	0.5231	0.4976	0.0257	-0.0161	-
0.0057	1	.							
4064	N	N	. ASP ASP ASP B B 97 97 .	0.4786	0.5087	0.5017	0.0194	-0.0008	
0.0006	1	.							
4065	CA	CA	. ASP ASP ASP B B 97 97 .	0.4815	0.4974	0.5010	0.0148	-0.0031	-
0.0036	1	.							
4066	CB	CB	. ASP ASP ASP B B 97 97 .	0.4804	0.5032	0.4899	0.0157	-0.0033	-
0.0021	1	.							
4067	CG	CG	. ASP ASP ASP B B 97 97 .	0.5110	0.5103	0.4925	0.0405	-0.0134	
0.0007	1	.							
4068	OD1	OD1	. ASP ASP ASP B B 97 97 .	0.4580	0.5078	0.4699	0.0548	-0.0545	
0.0290	1	.							
4069	OD2	OD2	. ASP ASP ASP B B 97 97 .	0.5952	0.5543	0.5125	0.1157	0.0083	
0.0173	1	.							
4070	C	C	. ASP ASP ASP B B 97 97 .	0.4885	0.5067	0.5152	0.0165	0.0029	-
0.0083	1	.							
4071	O	O	. ASP ASP ASP B B 97 97 .	0.4910	0.5094	0.5472	0.0236	0.0047	
0.0019	1	.							
4072	N	N	. GLY GLY GLY B B 98 98 .	0.4929	0.5186	0.5297	0.0202	0.0063	-
0.0016	1	.							
4073	CA	CA	. GLY GLY GLY B B 98 98 .	0.5078	0.5156	0.5232	0.0177	0.0119	-
0.0005	1	.							
4074	C	C	. GLY GLY GLY B B 98 98 .	0.5177	0.5233	0.5323	0.0168	0.0092	-
0.0009	1	.							
4075	O	O	. GLY GLY GLY B B 98 98 .	0.5196	0.5337	0.5440	0.0265	0.0151	-
0.0009	1	.							
4076	N	N	. THR THR THR B B 99 99 .	0.5136	0.5273	0.5356	0.0188	0.0003	
0.0020	1	.							
4077	CA	CA	. THR THR THR B B 99 99 .	0.5206	0.5293	0.5330	0.0188	-0.0040	-
0.0010	1	.							
4078	CB	CB	. THR THR THR B B 99 99 .	0.5235	0.5263	0.5342	0.0232	-0.0098	-
0.0049	1	.							
4079	OG1	OG1	. THR THR THR B B 99 99 .	0.4788	0.5333	0.5401	0.0433	-0.0133	-
0.0211	1	.							
4080	CG2	CG2	. THR THR THR B B 99 99 .	0.5167	0.5187	0.5168	0.0305	-0.0076	
0.0021	1	.							
4081	C	C	. THR THR THR B B 99 99 .	0.5224	0.5228	0.5417	0.0181	-0.0001	
0.0009	1	.							
4082	O	O	. THR THR THR B B 99 99 .	0.5150	0.5166	0.5477	0.0131	0.0003	-
0.0135	1	.							
4083	N	N	. GLU GLU GLU B B 100 100 .	0.5162	0.5246	0.5346	0.0227	0.0024	
0.0071	1	.							
4084	CA	CA	. GLU GLU GLU B B 100 100 .	0.5294	0.5275	0.5343	0.0213	-0.0067	
0.0094	1	.							
4085	CB	CB	. GLU GLU GLU B B 100 100 .	0.5514	0.5361	0.5516	0.0167	-0.0088	
0.0197	1	.							
4086	CG	CG	. GLU GLU GLU B B 100 100 .	0.6154	0.5914	0.6033	0.0267	-0.0077	
0.0002	1	.							
4087	CD	CD	. GLU GLU GLU B B 100 100 .	0.6814	0.6946	0.7182	0.0262	-0.0428	-
0.0191	1	.							
4088	OE1	OE1	. GLU GLU GLU B B 100 100 .	0.6317	0.7247	0.7296	0.0575	-0.0470	-
0.0115	1	.							
4089	OE2	OE2	. GLU GLU GLU B B 100 100 .	0.7965	0.7150	0.7304	0.0343	-0.0187	-
0.0369	1	.							
4090	C	C	. GLU GLU GLU B B 100 100 .	0.5105	0.5063	0.5176	0.0176	-0.0048	
0.0125	1	.							
4091	O	O	. GLU GLU GLU B B 100 100 .	0.5022	0.5147	0.5233	0.0232	-0.0014	
0.0235	1	.							
4092	N	N	. ASN ASN ASN B B 101 101 .	0.4736	0.4815	0.5028	0.0137	-0.0049	
0.0186	1	.							

4093	CA	CA	. ASN ASN ASN B B 101 101 .	0.4664	0.4629	0.4751	0.0008	-0.0004	
0.0186	1	.							
4094	CB	CB	. ASN ASN ASN B B 101 101 .	0.4604	0.4650	0.4877	0.0009	-0.0062	
0.0198	1	.							
4095	CG	CG	. ASN ASN ASN B B 101 101 .	0.5062	0.5231	0.5160	0.0034	0.0119	
0.0333	1	.							
4096	OD1	OD1	. ASN ASN ASN B B 101 101 .	0.4861	0.5839	0.5830	-0.0524	0.0772	
0.0449	1	.							
4097	ND2	ND2	. ASN ASN ASN B B 101 101 .	0.4955	0.5497	0.5595	0.0274	0.0359	
0.0532	1	.							
4098	C	C	. ASN ASN ASN B B 101 101 .	0.4420	0.4299	0.4542	-0.0021	0.0025	
0.0091	1	.							
4099	O	O	. ASN ASN ASN B B 101 101 .	0.4509	0.3892	0.4372	-0.0050	0.0091	
0.0172	1	.							
4100	N	N	. LYS LYS LYS B B 102 102 .	0.4224	0.4023	0.4263	-0.0082	0.0057	
0.0059	1	.							
4101	CA	CA	. LYS LYS LYS B B 102 102 .	0.4006	0.4068	0.4202	-0.0081	0.0057	-
0.0080	1	.							
4102	CB	CB	. LYS LYS LYS B B 102 102 .	0.3890	0.3949	0.4049	-0.0126	0.0175	
0.0003	1	.							
4103	CG	CG	. LYS LYS LYS B B 102 102 .	0.3390	0.3758	0.3994	-0.0176	0.0459	-
0.0190	1	.							
4104	CD	CD	. LYS LYS LYS B B 102 102 .	0.3791	0.3793	0.4066	-0.0027	0.0191	-
0.0250	1	.							
4105	CE	CE	. LYS LYS LYS B B 102 102 .	0.3672	0.3837	0.3764	0.0142	0.0266	-
0.0022	1	.							
4106	NZ	NZ	. LYS LYS LYS B B 102 102 .	0.3829	0.3861	0.3464	0.0717	0.0306	-
0.0306	1	.							
4107	C	C	. LYS LYS LYS B B 102 102 .	0.4023	0.4185	0.4103	-0.0062	0.0025	-
0.0062	1	.							
4108	O	O	. LYS LYS LYS B B 102 102 .	0.4079	0.4212	0.4097	-0.0073	-0.0128	-
0.0080	1	.							
4109	N	N	. SER SER SER B B 103 103 .	0.4030	0.4330	0.4222	-0.0080	0.0006	-
0.0087	1	.							
4110	CA	CA	. SER SER SER B B 103 103 .	0.4026	0.4532	0.4416	-0.0041	0.0001	
0.0036	1	.							
4111	CB	CB	. SER SER SER B B 103 103 .	0.4157	0.4424	0.4623	-0.0015	-0.0074	
0.0073	1	.							
4112	OG	OG	. SER SER SER B B 103 103 .	0.4211	0.5155	0.5049	0.0183	-0.0053	
0.0531	1	.							
4113	C	C	. SER SER SER B B 103 103 .	0.3980	0.4538	0.4365	-0.0062	-0.0057	-
0.0099	1	.							
4114	O	O	. SER SER SER B B 103 103 .	0.3649	0.4702	0.4484	-0.0195	-0.0147	-
0.0234	1	.							
4115	N	N	. LYS LYS LYS B B 104 104 .	0.3688	0.4389	0.4283	0.0014	-0.0031	-
0.0019	1	.							
4116	CA	CA	. LYS LYS LYS B B 104 104 .	0.3549	0.4194	0.4099	0.0047	0.0090	
0.0009	1	.							
4117	CB	CB	. LYS LYS LYS B B 104 104 .	0.3744	0.4311	0.4194	0.0081	0.0071	-
0.0031	1	.							
4118	CG	CG	. LYS LYS LYS B B 104 104 .	0.4232	0.4587	0.4888	-0.0219	0.0291	-
0.0073	1	.							
4119	CD	CD	. LYS LYS LYS B B 104 104 .	0.5279	0.5124	0.5506	0.0064	0.0394	-
0.0542	1	.							
4120	CE	CE	. LYS LYS LYS B B 104 104 .	0.5880	0.5477	0.5556	0.0156	0.0341	-
0.0562	1	.							
4121	NZ	NZ	. LYS LYS LYS B B 104 104 .	0.5894	0.5865	0.5553	0.0132	0.0292	-
0.1082	1	.							
4122	C	C	. LYS LYS LYS B B 104 104 .	0.3236	0.4054	0.3970	0.0097	0.0091	-
0.0029	1	.							

4123	O	O	. LYS LYS LYS B B 104 104 .	0.3194	0.4134	0.4070	0.0125	0.0254	
0.0114	1	.							
4124	N	N	. PHE PHE PHE B B 105 105 .	0.3031	0.3949	0.3820	0.0160	0.0114	
0.0034	1	.							
4125	CA	CA	. PHE PHE PHE B B 105 105 .	0.3103	0.3796	0.3828	0.0154	0.0013	
0.0017	1	.							
4126	CB	CB	. PHE PHE PHE B B 105 105 .	0.3357	0.3829	0.3788	0.0199	0.0065	
0.0045	1	.							
4127	CG	CG	. PHE PHE PHE B B 105 105 .	0.3461	0.4176	0.4093	0.0047	-0.0089	
0.0094	1	.							
4128	CD1	CD1	. PHE PHE PHE B B 105 105 .	0.4016	0.4443	0.4439	0.0000	-0.0066	
0.0162	1	.							
4129	CE1	CE1	. PHE PHE PHE B B 105 105 .	0.4493	0.4781	0.4686	0.0023	0.0161	-
0.0051	1	.							
4130	CZ	CZ	. PHE PHE PHE B B 105 105 .	0.4378	0.4932	0.5077	0.0002	-0.0005	-
0.0137	1	.							
4131	CE2	CE2	. PHE PHE PHE B B 105 105 .	0.4298	0.4754	0.4788	-0.0024	-0.0068	
0.0082	1	.							
4132	CD2	CD2	. PHE PHE PHE B B 105 105 .	0.3574	0.3963	0.4188	0.0043	-0.0077	
0.0297	1	.							
4133	C	C	. PHE PHE PHE B B 105 105 .	0.3364	0.3784	0.3771	0.0235	-0.0001	
0.0082	1	.							
4134	O	O	. PHE PHE PHE B B 105 105 .	0.2925	0.3917	0.3921	0.0392	-0.0204	
0.0047	1	.							
4135	N	N	. GLY GLY GLY B B 106 106 .	0.3268	0.3794	0.3824	0.0283	0.0097	
0.0031	1	.							
4136	CA	CA	. GLY GLY GLY B B 106 106 .	0.3450	0.3598	0.3700	0.0268	0.0045	
0.0134	1	.							
4137	C	C	. GLY GLY GLY B B 106 106 .	0.3340	0.3527	0.3557	0.0198	-0.0007	
0.0139	1	.							
4138	O	O	. GLY GLY GLY B B 106 106 .	0.3067	0.3483	0.3624	0.0180	0.0040	
0.0260	1	.							
4139	N	N	. ALA ALA ALA B B 107 107 .	0.3259	0.3539	0.3523	0.0239	0.0058	
0.0090	1	.							
4140	CA	CA	. ALA ALA ALA B B 107 107 .	0.3294	0.3454	0.3450	0.0215	0.0006	
0.0108	1	.							
4141	CB	CB	. ALA ALA ALA B B 107 107 .	0.3332	0.3370	0.3455	0.0303	-0.0044	
0.0149	1	.							
4142	C	C	. ALA ALA ALA B B 107 107 .	0.3328	0.3588	0.3514	0.0228	0.0014	
0.0077	1	.							
4143	O	O	. ALA ALA ALA B B 107 107 .	0.2992	0.3687	0.3537	0.0554	0.0140	
0.0118	1	.							
4144	N	N	. ASN ASN ASN B B 108 108 .	0.3504	0.3781	0.3640	0.0169	-0.0069	
0.0092	1	.							
4145	CA	CA	. ASN ASN ASN B B 108 108 .	0.3765	0.3770	0.3663	-0.0015	-0.0049	
0.0175	1	.							
4146	CB	CB	. ASN ASN ASN B B 108 108 .	0.3552	0.3696	0.3556	-0.0028	-0.0091	
0.0067	1	.							
4147	CG	CG	. ASN ASN ASN B B 108 108 .	0.3584	0.3813	0.3372	0.0214	0.0023	
0.0043	1	.							
4148	OD1	OD1	. ASN ASN ASN B B 108 108 .	0.4397	0.4300	0.3628	0.0524	-0.0523	-
0.0247	1	.							
4149	ND2	ND2	. ASN ASN ASN B B 108 108 .	0.2587	0.3310	0.2895	0.0334	0.0344	
0.0161	1	.							
4150	C	C	. ASN ASN ASN B B 108 108 .	0.3953	0.3841	0.3769	-0.0004	-0.0014	
0.0107	1	.							
4151	O	O	. ASN ASN ASN B B 108 108 .	0.4305	0.3834	0.3771	-0.0265	-0.0011	
0.0294	1	.							
4152	N	N	. ALA ALA ALA B B 109 109 .	0.3958	0.3903	0.3871	0.0026	-0.0020	
0.0092	1	.							



4153	CA	CA	. ALA ALA ALA B B 109 109 .	0.3980	0.3932	0.3935	-0.0085	-0.0006	
0.0067	1	.							
4154	CB	CB	. ALA ALA ALA B B 109 109 .	0.4074	0.3952	0.3888	-0.0083	-0.0097	-
0.0026	1	.							
4155	C	C	. ALA ALA ALA B B 109 109 .	0.3888	0.3881	0.3896	-0.0067	-0.0050	
0.0063	1	.							
4156	O	O	. ALA ALA ALA B B 109 109 .	0.3497	0.3868	0.4047	-0.0021	0.0041	
0.0178	1	.							
4157	N	N	. ILE ILE ILE B B 110 110 .	0.3773	0.3873	0.3917	-0.0038	-0.0116	
0.0078	1	.							
4158	CA	CA	. ILE ILE ILE B B 110 110 .	0.3868	0.3821	0.3859	0.0032	-0.0098	-
0.0009	1	.							
4159	CB	CB	. ILE ILE ILE B B 110 110 .	0.4000	0.3756	0.3765	0.0053	-0.0191	-
0.0043	1	.							
4160	CG1	CG1	. ILE ILE ILE B B 110 110 .	0.3527	0.3946	0.4262	0.0150	-0.0183	
0.0150	1	.							
4161	CD1	CD1	. ILE ILE ILE B B 110 110 .	0.4455	0.4158	0.4225	0.0172	-0.0173	
0.0164	1	.							
4162	CG2	CG2	. ILE ILE ILE B B 110 110 .	0.3125	0.3809	0.3937	0.0165	-0.0386	-
0.0118	1	.							
4163	C	C	. ILE ILE ILE B B 110 110 .	0.3766	0.3782	0.3777	-0.0058	-0.0030	
0.0028	1	.							
4164	O	O	. ILE ILE ILE B B 110 110 .	0.3738	0.3639	0.3617	-0.0311	0.0176	
0.0058	1	.							
4165	N	N	. LEU LEU LEU B B 111 111 .	0.3586	0.3762	0.3510	0.0063	0.0054	
0.0054	1	.							
4166	CA	CA	. LEU LEU LEU B B 111 111 .	0.3364	0.3762	0.3534	0.0003	0.0058	
0.0080	1	.							
4167	CB	CB	. LEU LEU LEU B B 111 111 .	0.3346	0.3768	0.3501	0.0067	0.0066	
0.0219	1	.							
4168	CG	CG	. LEU LEU LEU B B 111 111 .	0.3335	0.3768	0.3277	0.0026	0.0239	
0.0227	1	.							
4169	CD1	CD1	. LEU LEU LEU B B 111 111 .	0.2444	0.3379	0.3319	0.0383	0.0247	
0.0365	1	.							
4170	CD2	CD2	. LEU LEU LEU B B 111 111 .	0.3072	0.3584	0.3440	0.0112	-0.0094	
0.0436	1	.							
4171	C	C	. LEU LEU LEU B B 111 111 .	0.3221	0.3825	0.3699	-0.0034	0.0103	
0.0023	1	.							
4172	O	O	. LEU LEU LEU B B 111 111 .	0.3129	0.3957	0.3953	0.0191	0.0197	-
0.0019	1	.							
4173	N	N	. GLY GLY GLY B B 112 112 .	0.3170	0.3778	0.3702	-0.0061	0.0228	
0.0032	1	.							
4174	CA	CA	. GLY GLY GLY B B 112 112 .	0.3198	0.3771	0.3669	-0.0171	0.0132	
0.0144	1	.							
4175	C	C	. GLY GLY GLY B B 112 112 .	0.3230	0.3590	0.3747	-0.0173	0.0014	
0.0084	1	.							
4176	O	O	. GLY GLY GLY B B 112 112 .	0.3295	0.3569	0.3770	-0.0180	0.0050	
0.0007	1	.							
4177	N	N	. VAL VAL VAL B B 113 113 .	0.3046	0.3549	0.3672	-0.0118	-0.0052	
0.0111	1	.							
4178	CA	CA	. VAL VAL VAL B B 113 113 .	0.3159	0.3595	0.3573	-0.0034	0.0002	
0.0124	1	.							
4179	CB	CB	. VAL VAL VAL B B 113 113 .	0.2965	0.3329	0.3485	-0.0058	-0.0091	
0.0105	1	.							
4180	CG1	CG1	. VAL VAL VAL B B 113 113 .	0.3213	0.3497	0.3356	-0.0005	0.0012	
0.0311	1	.							
4181	CG2	CG2	. VAL VAL VAL B B 113 113 .	0.3273	0.3525	0.3428	0.0146	0.0021	
0.0010	1	.							
4182	C	C	. VAL VAL VAL B B 113 113 .	0.3132	0.3642	0.3601	0.0009	-0.0113	
0.0124	1	.							

4183	O	O	. VAL VAL VAL B B 113 113 .	0.3086	0.3711	0.3713	0.0350	-0.0082	
0.0347	1	.							
4184	N	N	. SER SER SER B B 114 114 .	0.3182	0.3734	0.3692	0.0017	-0.0104	
0.0060	1	.							
4185	CA	CA	. SER SER SER B B 114 114 .	0.3076	0.3789	0.3758	0.0099	-0.0121	-
0.0060	1	.							
4186	CB	CB	. SER SER SER B B 114 114 .	0.3217	0.3733	0.3733	0.0077	-0.0170	-
0.0057	1	.							
4187	OG	OG	. SER SER SER B B 114 114 .	0.2254	0.3992	0.4078	0.0190	-0.0201	-
0.0329	1	.							
4188	C	C	. SER SER SER B B 114 114 .	0.3355	0.3806	0.3887	0.0057	-0.0208	-
0.0006	1	.							
4189	O	O	. SER SER SER B B 114 114 .	0.3267	0.3896	0.3997	0.0178	-0.0290	
0.0031	1	.							
4190	N	N	. LEU LEU LEU B B 115 115 .	0.3240	0.3952	0.3957	0.0137	-0.0181	-
0.0002	1	.							
4191	CA	CA	. LEU LEU LEU B B 115 115 .	0.3232	0.3851	0.4016	0.0024	-0.0166	
0.0004	1	.							
4192	CB	CB	. LEU LEU LEU B B 115 115 .	0.3052	0.4024	0.3973	-0.0080	-0.0107	-
0.0067	1	.							
4193	CG	CG	. LEU LEU LEU B B 115 115 .	0.3548	0.4137	0.3871	-0.0242	-0.0108	-
0.0237	1	.							
4194	CD1	CD1	. LEU LEU LEU B B 115 115 .	0.2670	0.4242	0.3957	-0.0001	0.0294	-
0.0344	1	.							
4195	CD2	CD2	. LEU LEU LEU B B 115 115 .	0.2949	0.4294	0.3755	-0.0546	-0.0167	
0.0089	1	.							
4196	C	C	. LEU LEU LEU B B 115 115 .	0.2898	0.3942	0.4054	0.0060	-0.0125	
0.0010	1	.							
4197	O	O	. LEU LEU LEU B B 115 115 .	0.2441	0.4029	0.4463	0.0153	-0.0110	
0.0222	1	.							
4198	N	N	. ALA ALA ALA B B 116 116 .	0.2887	0.3843	0.4008	0.0127	-0.0117	
0.0082	1	.							
4199	CA	CA	. ALA ALA ALA B B 116 116 .	0.3233	0.3827	0.4009	-0.0034	-0.0094	
0.0078	1	.							
4200	CB	CB	. ALA ALA ALA B B 116 116 .	0.3230	0.3479	0.3716	0.0050	-0.0003	-
0.0022	1	.							
4201	C	C	. ALA ALA ALA B B 116 116 .	0.3275	0.3960	0.4095	0.0040	-0.0028	
0.0095	1	.							
4202	O	O	. ALA ALA ALA B B 116 116 .	0.2998	0.4308	0.4382	-0.0129	-0.0054	
0.0092	1	.							
4203	N	N	. VAL VAL VAL B B 117 117 .	0.3409	0.4100	0.4019	0.0090	-0.0095	
0.0132	1	.							
4204	CA	CA	. VAL VAL VAL B B 117 117 .	0.3561	0.4111	0.3985	-0.0070	-0.0007	
0.0092	1	.							
4205	CB	CB	. VAL VAL VAL B B 117 117 .	0.3275	0.4057	0.4067	0.0031	-0.0068	
0.0026	1	.							
4206	CG1	CG1	. VAL VAL VAL B B 117 117 .	0.3784	0.4401	0.3330	-0.0048	0.0080	
0.0004	1	.							
4207	CG2	CG2	. VAL VAL VAL B B 117 117 .	0.3401	0.4424	0.3359	-0.0018	0.0089	
0.0003	1	.							
4208	C	C	. VAL VAL VAL B B 117 117 .	0.3758	0.4096	0.4221	-0.0038	-0.0029	
0.0112	1	.							
4209	O	O	. VAL VAL VAL B B 117 117 .	0.3579	0.4338	0.4538	-0.0122	-0.0070	
0.0158	1	.							
4210	N	N	. CYS CYS CYS B B 118 118 .	0.3769	0.4110	0.4160	0.0054	0.0001	
0.0132	1	.							
4211	CA	CA	. CYS CYS CYS B B 118 118 .	0.3869	0.4151	0.4264	0.0100	0.0046	
0.0126	1	.							
4212	CB	CB	. CYS CYS CYS B B 118 118 .	0.4140	0.4143	0.4283	-0.0031	0.0076	
0.0244	1	.							

4213	SG	SG	. CYS CYS CYS B B 118 118 .	0.3920	0.4503	0.4379	0.0162	-0.0177	
0.0410	1	.							
4214	C	C	. CYS CYS CYS B B 118 118 .	0.3882	0.4200	0.4209	-0.0033	0.0081	
0.0097	1	.							
4215	O	O	. CYS CYS CYS B B 118 118 .	0.3398	0.4052	0.4319	-0.0119	0.0133	
0.0088	1	.							
4216	N	N	. LYS LYS LYS B B 119 119 .	0.4035	0.4317	0.4169	0.0066	0.0013	
0.0129	1	.							
4217	CA	CA	. LYS LYS LYS B B 119 119 .	0.3992	0.4311	0.4277	-0.0037	0.0001	
0.0048	1	.							
4218	CB	CB	. LYS LYS LYS B B 119 119 .	0.3789	0.4399	0.4249	0.0134	-0.0031	
0.0087	1	.							
4219	CG	CG	. LYS LYS LYS B B 119 119 .	0.3841	0.4171	0.4213	-0.0117	0.0056	
0.0132	1	.							
4220	CD	CD	. LYS LYS LYS B B 119 119 .	0.3137	0.5125	0.4570	-0.0137	0.0166	-
0.0107	1	.							
4221	CE	CE	. LYS LYS LYS B B 119 119 .	0.4143	0.5530	0.4835	-0.0413	-0.0254	
0.0419	1	.							
4222	NZ	NZ	. LYS LYS LYS B B 119 119 .	0.2729	0.6019	0.5362	-0.0078	-0.0188	
0.0383	1	.							
4223	C	C	. LYS LYS LYS B B 119 119 .	0.3899	0.4338	0.4244	-0.0018	-0.0025	
0.0047	1	.							
4224	O	O	. LYS LYS LYS B B 119 119 .	0.3677	0.4580	0.4270	-0.0140	-0.0177	
0.0089	1	.							
4225	N	N	. ALA ALA ALA B B 120 120 .	0.3917	0.4304	0.4231	0.0017	-0.0013	
0.0045	1	.							
4226	CA	CA	. ALA ALA ALA B B 120 120 .	0.4031	0.4390	0.4346	0.0022	-0.0057	
0.0008	1	.							
4227	CB	CB	. ALA ALA ALA B B 120 120 .	0.3691	0.4323	0.4283	0.0049	-0.0012	-
0.0120	1	.							
4228	C	C	. ALA ALA ALA B B 120 120 .	0.4104	0.4421	0.4381	0.0037	-0.0034	
0.0041	1	.							
4229	O	O	. ALA ALA ALA B B 120 120 .	0.4223	0.4633	0.4432	0.0039	0.0017	
0.0116	1	.							
4230	N	N	. GLY GLY GLY B B 121 121 .	0.4206	0.4484	0.4361	0.0079	-0.0026	
0.0096	1	.							
4231	CA	CA	. GLY GLY GLY B B 121 121 .	0.4267	0.4551	0.4498	-0.0026	-0.0027	
0.0077	1	.							
4232	C	C	. GLY GLY GLY B B 121 121 .	0.4370	0.4692	0.4559	-0.0174	-0.0075	
0.0111	1	.							
4233	O	O	. GLY GLY GLY B B 121 121 .	0.3959	0.4804	0.4668	-0.0413	-0.0021	
0.0300	1	.							
4234	N	N	. ALA ALA ALA B B 122 122 .	0.4128	0.4729	0.4598	-0.0104	-0.0100	
0.0045	1	.							
4235	CA	CA	. ALA ALA ALA B B 122 122 .	0.4381	0.4858	0.4811	-0.0172	-0.0086	-
0.0030	1	.							
4236	CB	CB	. ALA ALA ALA B B 122 122 .	0.4175	0.4911	0.4693	-0.0077	-0.0049	-
0.0029	1	.							
4237	C	C	. ALA ALA ALA B B 122 122 .	0.4383	0.4917	0.4904	-0.0190	-0.0037	
0.0012	1	.							
4238	O	O	. ALA ALA ALA B B 122 122 .	0.4346	0.4973	0.5147	-0.0225	-0.0052	
0.0054	1	.							
4239	N	N	. ALA ALA ALA B B 123 123 .	0.4212	0.4883	0.4936	-0.0186	-0.0027	-
0.0056	1	.							
4240	CA	CA	. ALA ALA ALA B B 123 123 .	0.4399	0.4969	0.5101	-0.0129	-0.0059	
0.0021	1	.							
4241	CB	CB	. ALA ALA ALA B B 123 123 .	0.4184	0.4887	0.5146	-0.0120	-0.0178	
0.0035	1	.							
4242	C	C	. ALA ALA ALA B B 123 123 .	0.4540	0.5042	0.5307	-0.0059	-0.0087	
0.0054	1	.							

4243	O	O	. ALA ALA ALA B B 123 123 .	0.4403	0.5173	0.5399	-0.0088	-0.0079	
0.0074	1	.							
4244	N	N	. GLU GLU GLU B B 124 124 .	0.4761	0.5170	0.5424	0.0033	-0.0044	
0.0089	1	.							
4245	CA	CA	. GLU GLU GLU B B 124 124 .	0.5130	0.5313	0.5506	0.0049	-0.0084	
0.0082	1	.							
4246	CB	CB	. GLU GLU GLU B B 124 124 .	0.5218	0.5425	0.5537	0.0114	-0.0021	
0.0064	1	.							
4247	CG	CG	. GLU GLU GLU B B 124 124 .	0.5782	0.5916	0.6072	0.0033	-0.0049	
0.0116	1	.							
4248	CD	CD	. GLU GLU GLU B B 124 124 .	0.6897	0.6538	0.6821	-0.0312	0.0072	
0.0233	1	.							
4249	OE1	OE1	. GLU GLU GLU B B 124 124 .	0.7156	0.6463	0.7522	-0.0462	-0.0189	-
0.0129	1	.							
4250	OE2	OE2	. GLU GLU GLU B B 124 124 .	0.7431	0.7073	0.6723	0.0044	0.0189	
0.0366	1	.							
4251	C	C	. GLU GLU GLU B B 124 124 .	0.5103	0.5280	0.5498	0.0067	-0.0059	
0.0086	1	.							
4252	O	O	. GLU GLU GLU B B 124 124 .	0.5171	0.5357	0.5705	0.0166	-0.0100	
0.0054	1	.							
4253	N	N	. ARG ARG ARG B B 125 125 .	0.5193	0.5344	0.5465	-0.0001	0.0006	
0.0050	1	.							
4254	CA	CA	. ARG ARG ARG B B 125 125 .	0.5300	0.5465	0.5608	-0.0068	0.0004	
0.0022	1	.							
4255	CB	CB	. ARG ARG ARG B B 125 125 .	0.5346	0.5509	0.5507	-0.0021	0.0003	
0.0088	1	.							
4256	CG	CG	. ARG ARG ARG B B 125 125 .	0.5742	0.5856	0.5778	0.0118	0.0000	
0.0237	1	.							
4257	CD	CD	. ARG ARG ARG B B 125 125 .	0.6061	0.6741	0.6432	0.0210	-0.0147	
0.0118	1	.							
4258	NE	NE	. ARG ARG ARG B B 125 125 .	0.6746	0.7116	0.6834	0.0212	-0.0150	
0.0230	1	.							
4259	CZ	CZ	. ARG ARG ARG B B 125 125 .	0.7022	0.7129	0.7300	0.0173	0.0030	
0.0236	1	.							
4260	NH1	NH1	. ARG ARG ARG B B 125 125 .	0.7292	0.7480	0.7383	-0.0114	0.0238	
0.0154	1	.							
4261	NH2	NH2	. ARG ARG ARG B B 125 125 .	0.7353	0.7120	0.7414	0.0032	0.0088	
0.0418	1	.							
4262	C	C	. ARG ARG ARG B B 125 125 .	0.5204	0.5377	0.5541	-0.0148	0.0037	
0.0031	1	.							
4263	O	O	. ARG ARG ARG B B 125 125 .	0.5178	0.5487	0.5645	-0.0223	0.0085	-
0.0069	1	.							
4264	N	N	. GLU GLU GLU B B 126 126 .	0.5247	0.5371	0.5547	-0.0184	0.0034	-
0.0004	1	.							
4265	CA	CA	. GLU GLU GLU B B 126 126 .	0.5320	0.5394	0.5577	-0.0120	0.0084	-
0.0034	1	.							
4266	CB	CB	. GLU GLU GLU B B 126 126 .	0.5416	0.5502	0.5741	-0.0168	0.0102	-
0.0011	1	.							
4267	CG	CG	. GLU GLU GLU B B 126 126 .	0.6166	0.6270	0.6049	-0.0340	0.0236	-
0.0020	1	.							
4268	CD	CD	. GLU GLU GLU B B 126 126 .	0.6611	0.7355	0.6822	-0.0553	0.0251	
0.0027	1	.							
4269	OE1	OE1	. GLU GLU GLU B B 126 126 .	0.7347	0.8082	0.6954	-0.0697	0.0369	
0.0060	1	.							
4270	OE2	OE2	. GLU GLU GLU B B 126 126 .	0.6965	0.7296	0.6805	-0.0686	0.0261	
0.0217	1	.							
4271	C	C	. GLU GLU GLU B B 126 126 .	0.5128	0.5198	0.5385	-0.0121	0.0039	-
0.0033	1	.							
4272	O	O	. GLU GLU GLU B B 126 126 .	0.5056	0.5190	0.5544	0.0001	0.0062	-
0.0092	1	.							

4273	N	N	. LEU LEU LEU B B 127 127 .	0.4828	0.5001	0.5026	-0.0128	-0.0022	-
0.0022	1	.							
4274	CA	CA	. LEU LEU LEU B B 127 127 .	0.4603	0.4788	0.4762	-0.0055	-0.0092	-
0.0056	1	.							
4275	CB	CB	. LEU LEU LEU B B 127 127 .	0.4600	0.4816	0.4794	-0.0079	-0.0107	-
0.0077	1	.							
4276	CG	CG	. LEU LEU LEU B B 127 127 .	0.4884	0.4866	0.4841	-0.0101	-0.0234	-
0.0045	1	.							
4277	CD1	CD1	. LEU LEU LEU B B 127 127 .	0.4830	0.5141	0.4912	-0.0107	-0.0539	-
0.0042	1	.							
4278	CD2	CD2	. LEU LEU LEU B B 127 127 .	0.5084	0.4835	0.4783	-0.0683	-0.0313	-
0.0027	1	.							
4279	C	C	. LEU LEU LEU B B 127 127 .	0.4415	0.4682	0.4608	-0.0024	-0.0046	-
0.0000	1	.							
4280	O	O	. LEU LEU LEU B B 127 127 .	0.4116	0.4749	0.4394	-0.0086	-0.0121	-
0.0033	1	.							
4281	N	N	. PRO PRO PRO B B 128 128 .	0.4384	0.4553	0.4552	-0.0050	-0.0072	-
0.0005	1	.							
4282	CA	CA	. PRO PRO PRO B B 128 128 .	0.4394	0.4546	0.4568	-0.0024	-0.0059	-
0.0046	1	.							
4283	CB	CB	. PRO PRO PRO B B 128 128 .	0.4504	0.4587	0.4625	-0.0061	-0.0072	-
0.0063	1	.							
4284	CG	CG	. PRO PRO PRO B B 128 128 .	0.4493	0.4764	0.4547	-0.0040	-0.0043	-
0.0061	1	.							
4285	CD	CD	. PRO PRO PRO B B 128 128 .	0.4311	0.4595	0.4438	-0.0011	-0.0040	-
0.0023	1	.							
4286	C	C	. PRO PRO PRO B B 128 128 .	0.4380	0.4542	0.4563	-0.0109	-0.0096	-
0.0052	1	.							
4287	O	O	. PRO PRO PRO B B 128 128 .	0.4179	0.4470	0.4573	-0.0140	-0.0177	-
0.0112	1	.							
4288	N	N	. LEU LEU LEU B B 129 129 .	0.4309	0.4437	0.4366	-0.0098	-0.0179	-
0.0067	1	.							
4289	CA	CA	. LEU LEU LEU B B 129 129 .	0.4273	0.4408	0.4375	-0.0114	-0.0142	-
0.0054	1	.							
4290	CB	CB	. LEU LEU LEU B B 129 129 .	0.4436	0.4420	0.4469	-0.0099	-0.0132	-
0.0052	1	.							
4291	CG	CG	. LEU LEU LEU B B 129 129 .	0.4088	0.4313	0.4334	-0.0041	-0.0080	-
0.0013	1	.							
4292	CD1	CD1	. LEU LEU LEU B B 129 129 .	0.4055	0.4297	0.3835	0.0232	-0.0073	-
0.0050	1	.							
4293	CD2	CD2	. LEU LEU LEU B B 129 129 .	0.2972	0.4073	0.3024	-0.0034	0.0611	-
0.0305	1	.							
4294	C	C	. LEU LEU LEU B B 129 129 .	0.4275	0.4420	0.4387	-0.0128	-0.0081	-
0.0077	1	.							
4295	O	O	. LEU LEU LEU B B 129 129 .	0.4092	0.4259	0.4398	-0.0248	-0.0094	-
0.0260	1	.							
4296	N	N	. TYR TYR TYR B B 130 130 .	0.4353	0.4361	0.4289	-0.0094	-0.0072	-
0.0004	1	.							
4297	CA	CA	. TYR TYR TYR B B 130 130 .	0.4456	0.4404	0.4266	-0.0090	-0.0114	-
0.0045	1	.							
4298	CB	CB	. TYR TYR TYR B B 130 130 .	0.4324	0.4296	0.3980	-0.0104	-0.0170	-
0.0102	1	.							
4299	CG	CG	. TYR TYR TYR B B 130 130 .	0.4542	0.4655	0.4414	-0.0220	-0.0155	-
0.0025	1	.							
4300	CD1	CD1	. TYR TYR TYR B B 130 130 .	0.4801	0.4873	0.4678	-0.0489	-0.0335	-
0.0108	1	.							
4301	CE1	CE1	. TYR TYR TYR B B 130 130 .	0.4694	0.4870	0.4968	-0.0243	-0.0290	-
0.0045	1	.							
4302	CZ	CZ	. TYR TYR TYR B B 130 130 .	0.4964	0.5000	0.5129	-0.0186	-0.0172	-
0.0084	1	.							

4303	OH	OH	. TYR TYR TYR B B 130 130 .	0.5094	0.5153	0.5923	0.0000	-0.0349	
0.0090	1	.							
4304	CE2	CE2	. TYR TYR TYR B B 130 130 .	0.4716	0.4719	0.4989	-0.0216	-0.0121	
0.0129	1	.							
4305	CD2	CD2	. TYR TYR TYR B B 130 130 .	0.4469	0.4780	0.4620	-0.0681	-0.0151	
0.0043	1	.							
4306	C	C	. TYR TYR TYR B B 130 130 .	0.4447	0.4397	0.4302	-0.0158	-0.0128	-
0.0120	1	.							
4307	O	O	. TYR TYR TYR B B 130 130 .	0.4314	0.4322	0.4250	-0.0061	-0.0205	-
0.0363	1	.							
4308	N	N	. ARG ARG ARG B B 131 131 .	0.4708	0.4694	0.4551	-0.0225	-0.0088	-
0.0051	1	.							
4309	CA	CA	. ARG ARG ARG B B 131 131 .	0.4808	0.4764	0.4751	-0.0131	-0.0103	
0.0006	1	.							
4310	CB	CB	. ARG ARG ARG B B 131 131 .	0.4853	0.4867	0.4856	-0.0280	-0.0030	-
0.0061	1	.							
4311	CG	CG	. ARG ARG ARG B B 131 131 .	0.5362	0.5189	0.5578	0.0141	0.0046	
0.0012	1	.							
4312	CD	CD	. ARG ARG ARG B B 131 131 .	0.6121	0.6104	0.6549	-0.0208	0.0111	-
0.0259	1	.							
4313	NE	NE	. ARG ARG ARG B B 131 131 .	0.7061	0.6332	0.7284	0.0023	0.0124	-
0.0316	1	.							
4314	CZ	CZ	. ARG ARG ARG B B 131 131 .	0.7409	0.6925	0.7217	0.0179	0.0106	-
0.0147	1	.							
4315	NH1	NH1	. ARG ARG ARG B B 131 131 .	0.6953	0.7080	0.7409	0.0393	0.0403	-
0.0256	1	.							
4316	NH2	NH2	. ARG ARG ARG B B 131 131 .	0.7626	0.7416	0.7304	0.0007	0.0049	
0.0195	1	.							
4317	C	C	. ARG ARG ARG B B 131 131 .	0.4698	0.4719	0.4706	-0.0177	-0.0062	
0.0026	1	.							
4318	O	O	. ARG ARG ARG B B 131 131 .	0.4720	0.4757	0.4979	-0.0342	-0.0154	
0.0007	1	.							
4319	N	N	. HIS HIS HIS B B 132 132 .	0.4717	0.4654	0.4573	-0.0080	-0.0082	-
0.0011	1	.							
4320	CA	CA	. HIS HIS HIS B B 132 132 .	0.4499	0.4579	0.4506	0.0023	-0.0054	
0.0001	1	.							
4321	CB	CB	. HIS HIS HIS B B 132 132 .	0.4522	0.4567	0.4615	0.0083	-0.0018	-
0.0008	1	.							
4322	CG	CG	. HIS HIS HIS B B 132 132 .	0.4698	0.4750	0.5012	0.0142	-0.0101	
0.0026	1	.							
4323	ND1	ND1	. HIS HIS HIS B B 132 132 .	0.4214	0.4771	0.5372	0.0142	-0.0217	
0.0140	1	.							
4324	CE1	CE1	. HIS HIS HIS B B 132 132 .	0.4864	0.4925	0.5239	0.0008	-0.0196	
0.0006	1	.							
4325	NE2	NE2	. HIS HIS HIS B B 132 132 .	0.4472	0.4828	0.4844	0.0060	-0.0208	
0.0236	1	.							
4326	CD2	CD2	. HIS HIS HIS B B 132 132 .	0.4926	0.4752	0.4858	0.0133	-0.0199	
0.0057	1	.							
4327	C	C	. HIS HIS HIS B B 132 132 .	0.4418	0.4482	0.4428	-0.0001	-0.0031	-
0.0045	1	.							
4328	O	O	. HIS HIS HIS B B 132 132 .	0.4483	0.4412	0.4370	-0.0069	0.0005	-
0.0057	1	.							
4329	N	N	. ILE ILE ILE B B 133 133 .	0.4507	0.4528	0.4385	0.0024	-0.0115	
0.0036	1	.							
4330	CA	CA	. ILE ILE ILE B B 133 133 .	0.4360	0.4436	0.4429	-0.0112	-0.0101	
0.0031	1	.							
4331	CB	CB	. ILE ILE ILE B B 133 133 .	0.4352	0.4302	0.4244	-0.0004	-0.0227	
0.0073	1	.							
4332	CG1	CG1	. ILE ILE ILE B B 133 133 .	0.4205	0.4294	0.4168	-0.0062	-0.0376	
0.0207	1	.							

4333	CD1	CD1	. ILE ILE ILE B B 133 133 .	0.3891	0.3121	0.4212	0.0120	-0.0453	
0.0329	1	.							
4334	CG2	CG2	. ILE ILE ILE B B 133 133 .	0.4013	0.4258	0.4152	-0.0398	-0.0203	-
0.0129	1	.							
4335	C	C	. ILE ILE ILE B B 133 133 .	0.4435	0.4618	0.4610	-0.0072	-0.0106	
0.0050	1	.							
4336	O	O	. ILE ILE ILE B B 133 133 .	0.4455	0.4617	0.4700	-0.0038	-0.0058	
0.0073	1	.							
4337	N	N	. ALA ALA ALA B B 134 134 .	0.4405	0.4670	0.4757	-0.0032	-0.0062	
0.0019	1	.							
4338	CA	CA	. ALA ALA ALA B B 134 134 .	0.4652	0.4887	0.4829	0.0019	-0.0037	
0.0077	1	.							
4339	CB	CB	. ALA ALA ALA B B 134 134 .	0.4684	0.4924	0.4804	-0.0046	-0.0008	
0.0046	1	.							
4340	C	C	. ALA ALA ALA B B 134 134 .	0.4854	0.5118	0.5006	-0.0031	-0.0067	
0.0083	1	.							
4341	O	O	. ALA ALA ALA B B 134 134 .	0.4962	0.5207	0.5061	-0.0029	-0.0100	
0.0073	1	.							
4342	N	N	. GLN GLN GLN B B 135 135 .	0.4927	0.5173	0.5148	-0.0070	-0.0004	
0.0137	1	.							
4343	CA	CA	. GLN GLN GLN B B 135 135 .	0.5183	0.5302	0.5371	-0.0085	-0.0050	
0.0100	1	.							
4344	CB	CB	. GLN GLN GLN B B 135 135 .	0.5142	0.5409	0.5438	-0.0140	-0.0006	
0.0150	1	.							
4345	CG	CG	. GLN GLN GLN B B 135 135 .	0.5373	0.5418	0.5900	-0.0038	0.0007	
0.0060	1	.							
4346	CD	CD	. GLN GLN GLN B B 135 135 .	0.5766	0.5865	0.6244	-0.0049	0.0065	
0.0092	1	.							
4347	OE1	OE1	. GLN GLN GLN B B 135 135 .	0.5583	0.6042	0.6870	0.0368	0.0148	
0.0289	1	.							
4348	NE2	NE2	. GLN GLN GLN B B 135 135 .	0.5758	0.6008	0.6311	-0.0127	-0.0267	
0.0019	1	.							
4349	C	C	. GLN GLN GLN B B 135 135 .	0.5240	0.5310	0.5377	-0.0066	-0.0130	
0.0127	1	.							
4350	O	O	. GLN GLN GLN B B 135 135 .	0.5310	0.5366	0.5361	-0.0238	-0.0311	
0.0098	1	.							
4351	N	N	. LEU LEU LEU B B 136 136 .	0.5239	0.5238	0.5190	-0.0059	-0.0125	
0.0040	1	.							
4352	CA	CA	. LEU LEU LEU B B 136 136 .	0.5291	0.5267	0.5306	-0.0007	-0.0113	
0.0021	1	.							
4353	CB	CB	. LEU LEU LEU B B 136 136 .	0.5200	0.5219	0.5332	0.0001	-0.0085	
0.0074	1	.							
4354	CG	CG	. LEU LEU LEU B B 136 136 .	0.5164	0.4953	0.5294	0.0037	-0.0224	
0.0205	1	.							
4355	CD1	CD1	. LEU LEU LEU B B 136 136 .	0.5177	0.4092	0.5343	0.0188	-0.0441	
0.0206	1	.							
4356	CD2	CD2	. LEU LEU LEU B B 136 136 .	0.4867	0.4994	0.5375	0.0247	-0.0163	
0.0261	1	.							
4357	C	C	. LEU LEU LEU B B 136 136 .	0.5398	0.5389	0.5493	-0.0062	-0.0097	-
0.0010	1	.							
4358	O	O	. LEU LEU LEU B B 136 136 .	0.5362	0.5376	0.5524	-0.0062	-0.0116	-
0.0036	1	.							
4359	N	N	. ALA ALA ALA B B 137 137 .	0.5713	0.5526	0.5698	-0.0028	-0.0119	-
0.0042	1	.							
4360	CA	CA	. ALA ALA ALA B B 137 137 .	0.6009	0.5746	0.5894	-0.0057	-0.0099	
0.0002	1	.							
4361	CB	CB	. ALA ALA ALA B B 137 137 .	0.5938	0.5593	0.5902	-0.0101	-0.0148	-
0.0033	1	.							
4362	C	C	. ALA ALA ALA B B 137 137 .	0.6330	0.6051	0.6082	-0.0070	-0.0124	
0.0061	1	.							

4363	O	O	. ALA ALA ALA B B 137 137 .	0.6355	0.6074	0.6082	-0.0184	-0.0202	
0.0161	1	.							
4364	N	N	. GLY GLY GLY B B 138 138 .	0.6566	0.6314	0.6326	-0.0057	-0.0121	
0.0103	1	.							
4365	CA	CA	. GLY GLY GLY B B 138 138 .	0.6837	0.6630	0.6598	-0.0047	-0.0118	
0.0069	1	.							
4366	C	C	. GLY GLY GLY B B 138 138 .	0.7060	0.6953	0.6805	-0.0014	-0.0068	
0.0052	1	.							
4367	O	O	. GLY GLY GLY B B 138 138 .	0.7157	0.7079	0.6800	-0.0006	-0.0199	
0.0061	1	.							
4368	N	N	. ASN ASN ASN B B 139 139 .	0.7134	0.7070	0.6900	-0.0010	-0.0079	
0.0097	1	.							
4369	CA	CA	. ASN ASN ASN B B 139 139 .	0.7231	0.7254	0.7077	-0.0054	-0.0078	
0.0083	1	.							
4370	CB	CB	. ASN ASN ASN B B 139 139 .	0.7232	0.7228	0.7021	-0.0156	-0.0110	
0.0101	1	.							
4371	CG	CG	. ASN ASN ASN B B 139 139 .	0.7385	0.7477	0.7285	-0.0230	-0.0218	
0.0236	1	.							
4372	OD1	OD1	. ASN ASN ASN B B 139 139 .	0.7681	0.7678	0.7274	-0.0393	-0.0290	
0.0338	1	.							
4373	ND2	ND2	. ASN ASN ASN B B 139 139 .	0.7065	0.7526	0.7090	-0.0484	-0.0626	
0.0197	1	.							
4374	C	C	. ASN ASN ASN B B 139 139 .	0.7232	0.7309	0.7170	-0.0080	-0.0081	
0.0021	1	.							
4375	O	O	. ASN ASN ASN B B 139 139 .	0.7149	0.7409	0.7312	-0.0169	-0.0135	
0.0020	1	.							
4376	N	N	. SER SER SER B B 140 140 .	0.7369	0.7371	0.7295	-0.0061	-0.0107	-
0.0016	1	.							
4377	CA	CA	. SER SER SER B B 140 140 .	0.7432	0.7458	0.7348	-0.0071	-0.0048	
0.0032	1	.							
4378	CB	CB	. SER SER SER B B 140 140 .	0.7444	0.7538	0.7404	-0.0104	-0.0036	
0.0018	1	.							
4379	OG	OG	. SER SER SER B B 140 140 .	0.7667	0.7699	0.7382	-0.0298	-0.0061	-
0.0007	1	.							
4380	C	C	. SER SER SER B B 140 140 .	0.7415	0.7456	0.7388	-0.0042	-0.0022	
0.0056	1	.							
4381	O	O	. SER SER SER B B 140 140 .	0.7480	0.7588	0.7530	0.0030	-0.0030	
0.0085	1	.							
4382	N	N	. ASP ASP ASP B B 141 141 .	0.7331	0.7379	0.7294	-0.0062	0.0022	
0.0098	1	.							
4383	CA	CA	. ASP ASP ASP B B 141 141 .	0.7274	0.7329	0.7231	-0.0094	-0.0013	
0.0085	1	.							
4384	CB	CB	. ASP ASP ASP B B 141 141 .	0.7586	0.7577	0.7424	-0.0038	0.0104	
0.0147	1	.							
4385	CG	CG	. ASP ASP ASP B B 141 141 .	0.8319	0.8189	0.8038	0.0152	0.0172	
0.0272	1	.							
4386	OD1	OD1	. ASP ASP ASP B B 141 141 .	0.8760	0.8993	0.8532	0.0457	0.0512	
0.0321	1	.							
4387	OD2	OD2	. ASP ASP ASP B B 141 141 .	0.8908	0.8949	0.8121	0.0038	0.0466	
0.0240	1	.							
4388	C	C	. ASP ASP ASP B B 141 141 .	0.7084	0.7078	0.6976	-0.0080	0.0040	
0.0110	1	.							
4389	O	O	. ASP ASP ASP B B 141 141 .	0.7204	0.7181	0.7195	-0.0150	0.0039	
0.0024	1	.							
4390	N	N	. LEU LEU LEU B B 142 142 .	0.6413	0.6484	0.6336	-0.0131	-0.0017	
0.0091	1	.							
4391	CA	CA	. LEU LEU LEU B B 142 142 .	0.5756	0.5758	0.5876	-0.0040	-0.0010	-
0.0005	1	.							
4392	CB	CB	. LEU LEU LEU B B 142 142 .	0.5522	0.5618	0.5557	-0.0021	-0.0069	-
0.0040	1	.							







4453	CB	CB	. ASN ASN ASN B B 150 150 .	0.4341	0.4211	0.4134	0.0053	0.0049	-
0.0015	1	.							
4454	CG	CG	. ASN ASN ASN B B 150 150 .	0.4370	0.4234	0.4441	0.0076	0.0057	
0.0160	1	.							
4455	OD1	OD1	. ASN ASN ASN B B 150 150 .	0.3951	0.4288	0.4806	0.0306	-0.0017	
0.0245	1	.							
4456	ND2	ND2	. ASN ASN ASN B B 150 150 .	0.4534	0.4465	0.4692	0.0401	0.0324	
0.0392	1	.							
4457	C	C	. ASN ASN ASN B B 150 150 .	0.4190	0.4117	0.3921	0.0116	0.0001	
0.0087	1	.							
4458	O	O	. ASN ASN ASN B B 150 150 .	0.4122	0.4228	0.3990	-0.0103	-0.0072	
0.0006	1	.							
4459	N	N	. VAL VAL VAL B B 151 151 .	0.4109	0.4119	0.3887	0.0265	0.0007	
0.0044	1	.							
4460	CA	CA	. VAL VAL VAL B B 151 151 .	0.4207	0.4335	0.3979	0.0190	-0.0046	-
0.0109	1	.							
4461	CB	CB	. VAL VAL VAL B B 151 151 .	0.4066	0.4277	0.4018	0.0255	-0.0047	
0.0022	1	.							
4462	CG1	CG1	. VAL VAL VAL B B 151 151 .	0.4285	0.4391	0.4208	0.0087	-0.0375	-
0.0226	1	.							
4463	CG2	CG2	. VAL VAL VAL B B 151 151 .	0.3807	0.4541	0.4054	0.0158	0.0184	-
0.0113	1	.							
4464	C	C	. VAL VAL VAL B B 151 151 .	0.4244	0.4356	0.4109	0.0287	-0.0006	-
0.0152	1	.							
4465	O	O	. VAL VAL VAL B B 151 151 .	0.4399	0.4431	0.4114	0.0334	-0.0113	-
0.0376	1	.							
4466	N	N	. ILE ILE ILE B B 152 152 .	0.4180	0.4398	0.3991	0.0355	-0.0002	-
0.0120	1	.							
4467	CA	CA	. ILE ILE ILE B B 152 152 .	0.4253	0.4529	0.4259	0.0215	-0.0089	-
0.0136	1	.							
4468	CB	CB	. ILE ILE ILE B B 152 152 .	0.4183	0.4485	0.4245	0.0252	-0.0149	-
0.0068	1	.							
4469	CG1	CG1	. ILE ILE ILE B B 152 152 .	0.4386	0.4371	0.4532	0.0222	0.0112	-
0.0038	1	.							
4470	CD1	CD1	. ILE ILE ILE B B 152 152 .	0.4991	0.4781	0.5606	0.0149	0.0400	
0.0405	1	.							
4471	CG2	CG2	. ILE ILE ILE B B 152 152 .	0.3336	0.4225	0.4140	0.0168	-0.0319	
0.0078	1	.							
4472	C	C	. ILE ILE ILE B B 152 152 .	0.4534	0.4843	0.4489	0.0304	-0.0141	-
0.0213	1	.							
4473	O	O	. ILE ILE ILE B B 152 152 .	0.4558	0.4871	0.4198	0.0268	-0.0239	-
0.0391	1	.							
4474	N	N	. ASN ASN ASN B B 153 153 .	0.4924	0.5162	0.4759	0.0338	-0.0204	-
0.0314	1	.							
4475	CA	CA	. ASN ASN ASN B B 153 153 .	0.5151	0.5155	0.4945	0.0253	-0.0149	-
0.0231	1	.							
4476	CB	CB	. ASN ASN ASN B B 153 153 .	0.5210	0.5381	0.5218	0.0303	-0.0027	-
0.0290	1	.							
4477	CG	CG	. ASN ASN ASN B B 153 153 .	0.6321	0.5353	0.5505	0.0349	0.0057	-
0.0260	1	.							
4478	OD1	OD1	. ASN ASN ASN B B 153 153 .	0.7602	0.5740	0.5265	0.0577	0.0174	-
0.0568	1	.							
4479	ND2	ND2	. ASN ASN ASN B B 153 153 .	0.7220	0.5554	0.4963	0.0990	-0.0244	-
0.0227	1	.							
4480	C	C	. ASN ASN ASN B B 153 153 .	0.5174	0.5260	0.4985	0.0278	-0.0135	-
0.0237	1	.							
4481	O	O	. ASN ASN ASN B B 153 153 .	0.5021	0.5356	0.4901	0.0480	-0.0267	-
0.0305	1	.							
4482	N	N	. GLY GLY GLY B B 154 154 .	0.4990	0.5109	0.4871	0.0296	-0.0140	-
0.0232	1	.							

4483	CA	CA	. GLY GLY GLY B B 154 154 .	0.4979	0.5118	0.4673	0.0171	-0.0116	-
0.0318	1	.							
4484	C	C	. GLY GLY GLY B B 154 154 .	0.4814	0.5013	0.4387	0.0152	-0.0215	-
0.0462	1	.							
4485	O	O	. GLY GLY GLY B B 154 154 .	0.4784	0.4996	0.4224	0.0217	-0.0348	-
0.0658	1	.							
4486	N	N	. ASN ASN ASN B B 160 160 .	0.6256	0.6130	0.6304	0.0247	-0.0163	-
0.0140	1	.							
4487	CA	CA	. ASN ASN ASN B B 160 160 .	0.6066	0.6119	0.6167	0.0158	-0.0250	-
0.0175	1	.							
4488	CB	CB	. ASN ASN ASN B B 160 160 .	0.6027	0.6154	0.6319	0.0222	-0.0266	-
0.0197	1	.							
4489	CG	CG	. ASN ASN ASN B B 160 160 .	0.6257	0.6334	0.6817	0.0216	-0.0436	-
0.0307	1	.							
4490	OD1	OD1	. ASN ASN ASN B B 160 160 .	0.6122	0.6583	0.7293	0.0284	-0.0792	-
0.0624	1	.							
4491	ND2	ND2	. ASN ASN ASN B B 160 160 .	0.6305	0.6482	0.7099	0.0608	-0.0673	-
0.0381	1	.							
4492	C	C	. ASN ASN ASN B B 160 160 .	0.5944	0.6033	0.5987	0.0113	-0.0255	-
0.0235	1	.							
4493	O	O	. ASN ASN ASN B B 160 160 .	0.6003	0.6137	0.5926	0.0197	-0.0435	-
0.0496	1	.							
4494	N	N	. LYS LYS LYS B B 161 161 .	0.5644	0.5849	0.5807	0.0080	-0.0304	-
0.0150	1	.							
4495	CA	CA	. LYS LYS LYS B B 161 161 .	0.5554	0.5730	0.5776	0.0009	-0.0288	-
0.0049	1	.							
4496	CB	CB	. LYS LYS LYS B B 161 161 .	0.5508	0.5858	0.5912	0.0070	-0.0219	-
0.0061	1	.							
4497	CG	CG	. LYS LYS LYS B B 161 161 .	0.5665	0.5986	0.6103	0.0000	-0.0231	-
0.0108	1	.							
4498	CD	CD	. LYS LYS LYS B B 161 161 .	0.5675	0.6233	0.6870	-0.0184	-0.0053	-
0.0264	1	.							
4499	CE	CE	. LYS LYS LYS B B 161 161 .	0.5921	0.6879	0.6911	-0.0325	0.0062	-
0.0222	1	.							
4500	NZ	NZ	. LYS LYS LYS B B 161 161 .	0.5510	0.7027	0.7135	-0.0348	0.0594	-
0.0682	1	.							
4501	C	C	. LYS LYS LYS B B 161 161 .	0.5342	0.5551	0.5612	0.0078	-0.0304	-
0.0063	1	.							
4502	O	O	. LYS LYS LYS B B 161 161 .	0.5234	0.5690	0.5542	0.0193	-0.0456	-
0.0249	1	.							
4503	N	N	. LEU LEU LEU B B 162 162 .	0.4804	0.5258	0.5285	0.0110	-0.0380	-
0.0020	1	.							
4504	CA	CA	. LEU LEU LEU B B 162 162 .	0.4435	0.4913	0.5020	0.0190	-0.0291	-
0.0135	1	.							
4505	CB	CB	. LEU LEU LEU B B 162 162 .	0.4405	0.4909	0.5073	0.0265	-0.0397	-
0.0051	1	.							
4506	CG	CG	. LEU LEU LEU B B 162 162 .	0.4420	0.4622	0.4890	0.0284	-0.0212	-
0.0153	1	.							
4507	CD1	CD1	. LEU LEU LEU B B 162 162 .	0.3492	0.4783	0.5092	0.0417	-0.0263	-
0.0345	1	.							
4508	CD2	CD2	. LEU LEU LEU B B 162 162 .	0.3779	0.4647	0.4876	0.0298	-0.0561	-
0.0294	1	.							
4509	C	C	. LEU LEU LEU B B 162 162 .	0.4240	0.4732	0.4776	0.0186	-0.0257	-
0.0142	1	.							
4510	O	O	. LEU LEU LEU B B 162 162 .	0.3556	0.4832	0.4757	0.0295	-0.0411	-
0.0313	1	.							
4511	N	N	. ALA ALA ALA B B 163 163 .	0.4027	0.4515	0.4519	0.0128	-0.0215	-
0.0312	1	.							
4512	CA	CA	. ALA ALA ALA B B 163 163 .	0.4086	0.4380	0.4365	0.0031	-0.0134	-
0.0202	1	.							

4513	CB	CB	. ALA ALA ALA B B 163 163 .	0.3952	0.4309	0.4247	-0.0020	-0.0147	-
0.0319	1	.							
4514	C	C	. ALA ALA ALA B B 163 163 .	0.4058	0.4323	0.4280	0.0002	-0.0138	-
0.0249	1	.							
4515	O	O	. ALA ALA ALA B B 163 163 .	0.4323	0.4447	0.4170	-0.0247	-0.0049	-
0.0282	1	.							
4516	N	N	. MET MET MET B B 164 164 .	0.3911	0.4288	0.4207	0.0031	-0.0087	-
0.0202	1	.							
4517	CA	CA	. MET MET MET B B 164 164 .	0.4125	0.4097	0.4152	-0.0050	0.0116	-
0.0154	1	.							
4518	CB	CB	. MET MET MET B B 164 164 .	0.4042	0.4090	0.4193	-0.0016	0.0111	-
0.0196	1	.							
4519	CG	CG	. MET MET MET B B 164 164 .	0.4151	0.4330	0.4380	0.0197	0.0174	-
0.0183	1	.							
4520	SD	SD	. MET MET MET B B 164 164 .	0.4132	0.5067	0.5046	0.0101	-0.0150	-
0.0581	1	.							
4521	CE	CE	. MET MET MET B B 164 164 .	0.3706	0.4421	0.4672	0.0309	-0.0067	-
0.0748	1	.							
4522	C	C	. MET MET MET B B 164 164 .	0.4067	0.3910	0.3979	0.0079	-0.0012	-
0.0098	1	.							
4523	O	O	. MET MET MET B B 164 164 .	0.3888	0.3891	0.3996	0.0144	-0.0012	-
0.0204	1	.							
4524	N	N	. GLN GLN GLN B B 165 165 .	0.3843	0.3569	0.3779	-0.0092	0.0014	-
0.0070	1	.							
4525	CA	CA	. GLN GLN GLN B B 165 165 .	0.3866	0.3595	0.3786	0.0058	-0.0080	-
0.0140	1	.							
4526	CB	CB	. GLN GLN GLN B B 165 165 .	0.3740	0.3388	0.3765	0.0091	-0.0075	-
0.0101	1	.							
4527	CG	CG	. GLN GLN GLN B B 165 165 .	0.3959	0.3764	0.3824	0.0391	-0.0080	-
0.0119	1	.							
4528	CD	CD	. GLN GLN GLN B B 165 165 .	0.3875	0.3810	0.3442	0.0171	-0.0118	-
0.0068	1	.							
4529	OE1	OE1	. GLN GLN GLN B B 165 165 .	0.4195	0.4117	0.3222	0.0842	-0.0451	-
0.0098	1	.							
4530	NE2	NE2	. GLN GLN GLN B B 165 165 .	0.4058	0.3014	0.3784	-0.0327	0.0443	-
0.0366	1	.							
4531	C	C	. GLN GLN GLN B B 165 165 .	0.3862	0.3664	0.3686	0.0192	-0.0137	-
0.0025	1	.							
4532	O	O	. GLN GLN GLN B B 165 165 .	0.3744	0.3688	0.3513	0.0344	-0.0359	-
0.0037	1	.							
4533	N	N	. GLU GLU GLU B B 166 166 .	0.3761	0.3621	0.3716	0.0069	-0.0172	-
0.0031	1	.							
4534	CA	CA	. GLU GLU GLU B B 166 166 .	0.3657	0.3740	0.3688	0.0093	-0.0065	-
0.0068	1	.							
4535	CB	CB	. GLU GLU GLU B B 166 166 .	0.3526	0.3782	0.3638	-0.0009	-0.0006	-
0.0011	1	.							
4536	CG	CG	. GLU GLU GLU B B 166 166 .	0.3931	0.3762	0.3749	0.0122	-0.0040	-
0.0093	1	.							
4537	CD	CD	. GLU GLU GLU B B 166 166 .	0.4134	0.3800	0.3956	0.0306	0.0319	-
0.0029	1	.							
4538	OE1	OE1	. GLU GLU GLU B B 166 166 .	0.4090	0.3868	0.3444	0.0087	-0.0213	-
0.0218	1	.							
4539	OE2	OE2	. GLU GLU GLU B B 166 166 .	0.5672	0.3364	0.4063	0.0598	0.0744	-
0.0210	1	.							
4540	C	C	. GLU GLU GLU B B 166 166 .	0.3588	0.3771	0.3649	0.0120	-0.0088	-
0.0057	1	.							
4541	O	O	. GLU GLU GLU B B 166 166 .	0.3544	0.3811	0.3580	0.0265	-0.0144	-
0.0268	1	.							
4542	N	N	. PHE PHE PHE B B 167 167 .	0.3501	0.3756	0.3566	0.0124	-0.0147	-
0.0138	1	.							



4573	CD1	CD1	. LEU LEU LEU B B 170 170 .	0.3870	0.3851	0.3953	-0.0274	0.0263	
0.0663	1	.							
4574	CD2	CD2	. LEU LEU LEU B B 170 170 .	0.4632	0.4244	0.4321	-0.0149	-0.0679	
0.0416	1	.							
4575	C	C	. LEU LEU LEU B B 170 170 .	0.4139	0.3810	0.3874	0.0000	0.0210	
0.0005	1	.							
4576	O	O	. LEU LEU LEU B B 170 170 .	0.4211	0.3906	0.4006	-0.0011	0.0270	-
0.0102	1	.							
4577	N	N	. PRO PRO PRO B B 171 171 .	0.4345	0.3923	0.3872	0.0121	0.0192	
0.0056	1	.							
4578	CA	CA	. PRO PRO PRO B B 171 171 .	0.4317	0.3872	0.3844	0.0041	0.0142	-
0.0039	1	.							
4579	CB	CB	. PRO PRO PRO B B 171 171 .	0.4236	0.3534	0.3747	0.0039	0.0141	
0.0095	1	.							
4580	CG	CG	. PRO PRO PRO B B 171 171 .	0.4553	0.3834	0.3428	0.0099	0.0291	
0.0339	1	.							
4581	CD	CD	. PRO PRO PRO B B 171 171 .	0.4237	0.3995	0.3726	0.0219	0.0259	
0.0072	1	.							
4582	C	C	. PRO PRO PRO B B 171 171 .	0.4277	0.3957	0.3896	0.0046	0.0085	-
0.0053	1	.							
4583	O	O	. PRO PRO PRO B B 171 171 .	0.4423	0.3634	0.3769	-0.0030	0.0040	-
0.0191	1	.							
4584	N	N	. VAL VAL VAL B B 172 172 .	0.4308	0.4018	0.3917	0.0039	0.0117	
0.0018	1	.							
4585	CA	CA	. VAL VAL VAL B B 172 172 .	0.4336	0.4119	0.4005	0.0088	0.0155	
0.0061	1	.							
4586	CB	CB	. VAL VAL VAL B B 172 172 .	0.4327	0.4108	0.4137	0.0115	0.0199	
0.0189	1	.							
4587	CG1	CG1	. VAL VAL VAL B B 172 172 .	0.4656	0.4296	0.4053	0.0074	0.0328	
0.0031	1	.							
4588	CG2	CG2	. VAL VAL VAL B B 172 172 .	0.4620	0.4027	0.4266	0.0225	0.0436	
0.0194	1	.							
4589	C	C	. VAL VAL VAL B B 172 172 .	0.4262	0.4147	0.3863	0.0031	0.0145	-
0.0007	1	.							
4590	O	O	. VAL VAL VAL B B 172 172 .	0.4134	0.4155	0.3545	0.0035	0.0307	-
0.0046	1	.							
4591	N	N	. GLY GLY GLY B B 173 173 .	0.4323	0.4233	0.3964	0.0120	0.0143	-
0.0009	1	.							
4592	CA	CA	. GLY GLY GLY B B 173 173 .	0.4525	0.4521	0.4238	0.0105	0.0071	-
0.0110	1	.							
4593	C	C	. GLY GLY GLY B B 173 173 .	0.4760	0.4596	0.4518	0.0103	0.0030	-
0.0129	1	.							
4594	O	O	. GLY GLY GLY B B 173 173 .	0.4995	0.4849	0.4521	0.0197	0.0046	-
0.0382	1	.							
4595	N	N	. ALA ALA ALA B B 174 174 .	0.4807	0.4583	0.4389	0.0115	0.0110	-
0.0206	1	.							
4596	CA	CA	. ALA ALA ALA B B 174 174 .	0.4938	0.4702	0.4529	0.0029	0.0071	-
0.0144	1	.							
4597	CB	CB	. ALA ALA ALA B B 174 174 .	0.5036	0.4637	0.4632	-0.0016	0.0111	-
0.0167	1	.							
4598	C	C	. ALA ALA ALA B B 174 174 .	0.4961	0.4760	0.4602	0.0066	0.0078	-
0.0107	1	.							
4599	O	O	. ALA ALA ALA B B 174 174 .	0.5180	0.4934	0.4535	0.0169	0.0009	-
0.0046	1	.							
4600	N	N	. GLU GLU GLU B B 175 175 .	0.4947	0.4715	0.4716	0.0069	0.0105	-
0.0083	1	.							
4601	CA	CA	. GLU GLU GLU B B 175 175 .	0.4892	0.4774	0.4778	-0.0013	0.0183	-
0.0014	1	.							
4602	CB	CB	. GLU GLU GLU B B 175 175 .	0.5111	0.4901	0.5077	-0.0055	0.0240	-
0.0050	1	.							





4633	NH1	NH1	. ARG ARG ARG B B 178 178 .	0.6619	0.7551	0.7439	-0.0782	-0.0675	
0.0712	1	.							
4634	NH2	NH2	. ARG ARG ARG B B 178 178 .	0.6613	0.7789	0.7201	-0.0621	-0.0809	
0.0136	1	.							
4635	C	C	. ARG ARG ARG B B 178 178 .	0.3549	0.3541	0.3453	-0.0030	0.0196	
0.0024	1	.							
4636	O	O	. ARG ARG ARG B B 178 178 .	0.3664	0.3422	0.3127	0.0298	0.0115	
0.0234	1	.							
4637	N	N	. ASP ASP ASP B B 179 179 .	0.3440	0.3637	0.3616	0.0080	0.0090	-
0.0038	1	.							
4638	CA	CA	. ASP ASP ASP B B 179 179 .	0.3538	0.3721	0.3561	0.0077	0.0102	-
0.0102	1	.							
4639	CB	CB	. ASP ASP ASP B B 179 179 .	0.3627	0.3840	0.3699	0.0061	0.0070	-
0.0151	1	.							
4640	CG	CG	. ASP ASP ASP B B 179 179 .	0.4191	0.4060	0.4234	0.0228	-0.0072	-
0.0149	1	.							
4641	OD1	OD1	. ASP ASP ASP B B 179 179 .	0.5172	0.4379	0.4776	0.0027	-0.0513	
0.0486	1	.							
4642	OD2	OD2	. ASP ASP ASP B B 179 179 .	0.5277	0.4451	0.4397	0.0469	-0.0141	
0.0475	1	.							
4643	C	C	. ASP ASP ASP B B 179 179 .	0.3434	0.3501	0.3418	0.0150	0.0111	-
0.0062	1	.							
4644	O	O	. ASP ASP ASP B B 179 179 .	0.3214	0.3544	0.3145	0.0413	0.0102	-
0.0128	1	.							
4645	N	N	. ALA ALA ALA B B 180 180 .	0.3353	0.3484	0.3463	0.0165	-0.0039	
0.0057	1	.							
4646	CA	CA	. ALA ALA ALA B B 180 180 .	0.3427	0.3379	0.3414	0.0138	-0.0013	-
0.0057	1	.							
4647	CB	CB	. ALA ALA ALA B B 180 180 .	0.3736	0.3299	0.3514	0.0173	-0.0059	-
0.0012	1	.							
4648	C	C	. ALA ALA ALA B B 180 180 .	0.3371	0.3369	0.3455	0.0094	0.0074	-
0.0052	1	.							
4649	O	O	. ALA ALA ALA B B 180 180 .	0.3040	0.3303	0.3335	-0.0032	0.0316	-
0.0132	1	.							
4650	N	N	. MET MET MET B B 181 181 .	0.3172	0.3393	0.3397	0.0178	0.0187	-
0.0023	1	.							
4651	CA	CA	. MET MET MET B B 181 181 .	0.3222	0.3317	0.3345	0.0114	0.0078	-
0.0082	1	.							
4652	CB	CB	. MET MET MET B B 181 181 .	0.3096	0.3353	0.3439	0.0098	0.0166	-
0.0194	1	.							
4653	CG	CG	. MET MET MET B B 181 181 .	0.3055	0.2965	0.3211	0.0294	0.0100	-
0.0100	1	.							
4654	SD	SD	. MET MET MET B B 181 181 .	0.4281	0.3948	0.4220	0.0286	0.0058	
0.0069	1	.							
4655	CE	CE	. MET MET MET B B 181 181 .	0.3859	0.2475	0.3163	0.0849	-0.0057	
0.0118	1	.							
4656	C	C	. MET MET MET B B 181 181 .	0.3297	0.3500	0.3425	0.0084	0.0112	-
0.0095	1	.							
4657	O	O	. MET MET MET B B 181 181 .	0.3426	0.3707	0.3447	0.0217	0.0199	-
0.0129	1	.							
4658	N	N	. ARG ARG ARG B B 182 182 .	0.3568	0.3757	0.3335	0.0173	0.0068	-
0.0068	1	.							
4659	CA	CA	. ARG ARG ARG B B 182 182 .	0.3756	0.3780	0.3364	0.0109	-0.0033	
0.0039	1	.							
4660	CB	CB	. ARG ARG ARG B B 182 182 .	0.3858	0.3834	0.3379	-0.0089	0.0020	
0.0017	1	.							
4661	CG	CG	. ARG ARG ARG B B 182 182 .	0.4419	0.4181	0.3836	0.0092	-0.0239	
0.0072	1	.							
4662	CD	CD	. ARG ARG ARG B B 182 182 .	0.5588	0.4570	0.5071	0.0071	-0.0096	
0.0003	1	.							



4693	C	C	. GLU GLU GLU B B 186 186 .	0.3642	0.3660	0.3595	0.0074	0.0048	-
0.0053	1	.							
4694	O	O	. GLU GLU GLU B B 186 186 .	0.3344	0.3566	0.3616	0.0122	0.0074	-
0.0085	1	.							
4695	N	N	. VAL VAL VAL B B 187 187 .	0.3524	0.3560	0.3577	0.0113	0.0137	-
0.0043	1	.							
4696	CA	CA	. VAL VAL VAL B B 187 187 .	0.3187	0.3586	0.3485	0.0158	0.0218	-
0.0066	1	.							
4697	CB	CB	. VAL VAL VAL B B 187 187 .	0.3080	0.3591	0.3555	0.0164	0.0219	-
0.0082	1	.							
4698	CG1	CG1	. VAL VAL VAL B B 187 187 .	0.3099	0.3457	0.3302	0.0248	0.0128	
0.0008	1	.							
4699	CG2	CG2	. VAL VAL VAL B B 187 187 .	0.2333	0.3918	0.3383	0.0329	0.0395	-
0.0153	1	.							
4700	C	C	. VAL VAL VAL B B 187 187 .	0.3229	0.3600	0.3705	0.0066	0.0182	-
0.0018	1	.							
4701	O	O	. VAL VAL VAL B B 187 187 .	0.2850	0.3658	0.3975	0.0196	0.0311	
0.0042	1	.							
4702	N	N	. TYR TYR TYR B B 188 188 .	0.3091	0.3503	0.3536	0.0139	0.0234	-
0.0091	1	.							
4703	CA	CA	. TYR TYR TYR B B 188 188 .	0.3174	0.3590	0.3561	0.0130	0.0149	-
0.0083	1	.							
4704	CB	CB	. TYR TYR TYR B B 188 188 .	0.3005	0.3649	0.3486	-0.0043	0.0140	-
0.0146	1	.							
4705	CG	CG	. TYR TYR TYR B B 188 188 .	0.2712	0.3375	0.3303	0.0021	0.0085	-
0.0127	1	.							
4706	CD1	CD1	. TYR TYR TYR B B 188 188 .	0.2813	0.3571	0.3217	0.0139	0.0049	-
0.0080	1	.							
4707	CE1	CE1	. TYR TYR TYR B B 188 188 .	0.2737	0.3713	0.3323	0.0198	-0.0109	-
0.0370	1	.							
4708	CZ	CZ	. TYR TYR TYR B B 188 188 .	0.2733	0.3543	0.3461	0.0050	0.0029	-
0.0420	1	.							
4709	OH	OH	. TYR TYR TYR B B 188 188 .	0.2459	0.4330	0.3755	0.0096	0.0262	-
0.0853	1	.							
4710	CE2	CE2	. TYR TYR TYR B B 188 188 .	0.2380	0.3600	0.3548	0.0149	-0.0304	-
0.0094	1	.							
4711	CD2	CD2	. TYR TYR TYR B B 188 188 .	0.2394	0.3294	0.3350	-0.0174	0.0012	-
0.0204	1	.							
4712	C	C	. TYR TYR TYR B B 188 188 .	0.3297	0.3727	0.3583	0.0119	0.0162	-
0.0104	1	.							
4713	O	O	. TYR TYR TYR B B 188 188 .	0.3589	0.3870	0.3675	0.0239	0.0162	-
0.0268	1	.							
4714	N	N	. HIS HIS HIS B B 189 189 .	0.3265	0.3642	0.3570	0.0182	0.0197	-
0.0095	1	.							
4715	CA	CA	. HIS HIS HIS B B 189 189 .	0.3497	0.3831	0.3691	0.0055	0.0062	-
0.0073	1	.							
4716	CB	CB	. HIS HIS HIS B B 189 189 .	0.3432	0.3984	0.3849	-0.0025	0.0023	
0.0054	1	.							
4717	CG	CG	. HIS HIS HIS B B 189 189 .	0.4114	0.4382	0.3908	-0.0130	0.0090	-
0.0037	1	.							
4718	ND1	ND1	. HIS HIS HIS B B 189 189 .	0.4896	0.5089	0.4313	-0.0413	-0.0075	-
0.0042	1	.							
4719	CE1	CE1	. HIS HIS HIS B B 189 189 .	0.4698	0.5207	0.4330	-0.0421	-0.0162	-
0.0070	1	.							
4720	NE2	NE2	. HIS HIS HIS B B 189 189 .	0.4349	0.5037	0.4306	-0.0228	-0.0275	
0.0182	1	.							
4721	CD2	CD2	. HIS HIS HIS B B 189 189 .	0.4066	0.4657	0.4124	-0.0267	-0.0209	
0.0009	1	.							
4722	C	C	. HIS HIS HIS B B 189 189 .	0.3401	0.3851	0.3727	-0.0038	0.0011	-
0.0053	1	.							



4753	CA	CA	. VAL VAL VAL B B 194 194 .	0.4709	0.4851	0.4894	0.0095	0.0226	
0.0082	1	.							
4754	CB	CB	. VAL VAL VAL B B 194 194 .	0.4742	0.4881	0.4968	0.0093	0.0265	
0.0119	1	.							
4755	CG1	CG1	. VAL VAL VAL B B 194 194 .	0.4838	0.4975	0.4940	0.0259	0.0547	
0.0275	1	.							
4756	CG2	CG2	. VAL VAL VAL B B 194 194 .	0.4657	0.4903	0.5076	0.0236	0.0446	
0.0012	1	.							
4757	C	C	. VAL VAL VAL B B 194 194 .	0.4720	0.4834	0.5007	0.0107	0.0246	
0.0065	1	.							
4758	O	O	. VAL VAL VAL B B 194 194 .	0.4835	0.4974	0.5292	0.0102	0.0423	
0.0186	1	.							
4759	N	N	. ILE ILE ILE B B 195 195 .	0.4551	0.4707	0.4833	0.0138	0.0260	
0.0053	1	.							
4760	CA	CA	. ILE ILE ILE B B 195 195 .	0.4379	0.4542	0.4609	0.0194	0.0213	-
0.0081	1	.							
4761	CB	CB	. ILE ILE ILE B B 195 195 .	0.4194	0.4461	0.4613	0.0163	0.0166	-
0.0116	1	.							
4762	CG1	CG1	. ILE ILE ILE B B 195 195 .	0.4177	0.4407	0.4349	0.0311	0.0134	-
0.0302	1	.							
4763	CD1	CD1	. ILE ILE ILE B B 195 195 .	0.3851	0.3908	0.4176	-0.0125	-0.0046	-
0.0706	1	.							
4764	CG2	CG2	. ILE ILE ILE B B 195 195 .	0.3595	0.4004	0.4091	0.0805	0.0562	-
0.0262	1	.							
4765	C	C	. ILE ILE ILE B B 195 195 .	0.4438	0.4644	0.4743	0.0166	0.0189	-
0.0057	1	.							
4766	O	O	. ILE ILE ILE B B 195 195 .	0.4490	0.4694	0.4728	0.0148	0.0246	-
0.0131	1	.							
4767	N	N	. LYS LYS LYS B B 196 196 .	0.4450	0.4756	0.4715	0.0132	0.0256	-
0.0046	1	.							
4768	CA	CA	. LYS LYS LYS B B 196 196 .	0.4539	0.4917	0.4940	0.0136	0.0116	
0.0011	1	.							
4769	CB	CB	. LYS LYS LYS B B 196 196 .	0.4488	0.4935	0.4967	0.0105	0.0143	
0.0008	1	.							
4770	CG	CG	. LYS LYS LYS B B 196 196 .	0.5279	0.5287	0.5098	0.0030	0.0027	-
0.0092	1	.							
4771	CD	CD	. LYS LYS LYS B B 196 196 .	0.6252	0.6195	0.5720	-0.0059	-0.0010	
0.0352	1	.							
4772	CE	CE	. LYS LYS LYS B B 196 196 .	0.6974	0.7032	0.6211	-0.0065	0.0167	
0.0257	1	.							
4773	NZ	NZ	. LYS LYS LYS B B 196 196 .	0.7379	0.7315	0.6746	-0.0007	0.0019	
0.0591	1	.							
4774	C	C	. LYS LYS LYS B B 196 196 .	0.4690	0.5009	0.5120	0.0056	0.0059	
0.0062	1	.							
4775	O	O	. LYS LYS LYS B B 196 196 .	0.4226	0.4978	0.5171	0.0138	-0.0002	
0.0229	1	.							
4776	N	N	. ASP ASP ASP B B 197 197 .	0.4986	0.5242	0.5272	0.0067	0.0110	
0.0063	1	.							
4777	CA	CA	. ASP ASP ASP B B 197 197 .	0.5295	0.5435	0.5532	0.0007	0.0024	
0.0055	1	.							
4778	CB	CB	. ASP ASP ASP B B 197 197 .	0.5571	0.5563	0.5704	0.0051	0.0004	-
0.0002	1	.							
4779	CG	CG	. ASP ASP ASP B B 197 197 .	0.6110	0.5943	0.5864	0.0081	0.0013	
0.0089	1	.							
4780	OD1	OD1	. ASP ASP ASP B B 197 197 .	0.6556	0.5778	0.5667	0.0306	0.0162	-
0.0103	1	.							
4781	OD2	OD2	. ASP ASP ASP B B 197 197 .	0.7150	0.7004	0.5955	0.0330	-0.0420	
0.0007	1	.							
4782	C	C	. ASP ASP ASP B B 197 197 .	0.5290	0.5403	0.5582	0.0003	0.0006	
0.0133	1	.							

4783	O	O	. ASP ASP ASP B B 197 197 .	0.5063	0.5331	0.5615	0.0025	0.0014	
0.0170	1	.							
4784	N	N	. LYS LYS LYS B B 198 198 .	0.5282	0.5436	0.5551	0.0018	-0.0004	
0.0109	1	.							
4785	CA	CA	. LYS LYS LYS B B 198 198 .	0.5242	0.5355	0.5518	0.0044	-0.0009	
0.0071	1	.							
4786	CB	CB	. LYS LYS LYS B B 198 198 .	0.5275	0.5418	0.5548	0.0019	0.0001	
0.0075	1	.							
4787	CG	CG	. LYS LYS LYS B B 198 198 .	0.4929	0.5450	0.5700	-0.0073	0.0127	
0.0114	1	.							
4788	CD	CD	. LYS LYS LYS B B 198 198 .	0.4697	0.5756	0.5753	-0.0206	-0.0043	
0.0069	1	.							
4789	CE	CE	. LYS LYS LYS B B 198 198 .	0.4437	0.5840	0.6300	-0.0337	0.0024	-
0.0001	1	.							
4790	NZ	NZ	. LYS LYS LYS B B 198 198 .	0.4493	0.6001	0.6566	-0.0398	0.0170	
0.0154	1	.							
4791	C	C	. LYS LYS LYS B B 198 198 .	0.5276	0.5365	0.5501	0.0047	-0.0026	
0.0059	1	.							
4792	O	O	. LYS LYS LYS B B 198 198 .	0.5361	0.5235	0.5575	0.0017	0.0049	
0.0080	1	.							
4793	N	N	. TYR TYR TYR B B 199 199 .	0.5126	0.5312	0.5380	0.0117	-0.0027	
0.0051	1	.							
4794	CA	CA	. TYR TYR TYR B B 199 199 .	0.5125	0.5437	0.5385	0.0086	-0.0061	
0.0009	1	.							
4795	CB	CB	. TYR TYR TYR B B 199 199 .	0.5088	0.5450	0.5434	0.0075	-0.0073	
0.0044	1	.							
4796	CG	CG	. TYR TYR TYR B B 199 199 .	0.5195	0.5591	0.5417	0.0075	-0.0081	-
0.0051	1	.							
4797	CD1	CD1	. TYR TYR TYR B B 199 199 .	0.5192	0.5774	0.5501	0.0173	-0.0040	-
0.0111	1	.							
4798	CE1	CE1	. TYR TYR TYR B B 199 199 .	0.5106	0.5447	0.5245	0.0232	-0.0379	-
0.0131	1	.							
4799	CZ	CZ	. TYR TYR TYR B B 199 199 .	0.4823	0.5355	0.5176	0.0443	-0.0009	
0.0028	1	.							
4800	OH	OH	. TYR TYR TYR B B 199 199 .	0.4532	0.5233	0.5670	0.0859	-0.0294	
0.0200	1	.							
4801	CE2	CE2	. TYR TYR TYR B B 199 199 .	0.5042	0.5154	0.5178	0.0333	0.0030	
0.0080	1	.							
4802	CD2	CD2	. TYR TYR TYR B B 199 199 .	0.5423	0.5439	0.5549	0.0220	-0.0068	
0.0017	1	.							
4803	C	C	. TYR TYR TYR B B 199 199 .	0.4977	0.5424	0.5342	0.0066	-0.0031	-
0.0019	1	.							
4804	O	O	. TYR TYR TYR B B 199 199 .	0.4910	0.5410	0.5203	0.0122	-0.0022	-
0.0173	1	.							
4805	N	N	. GLY GLY GLY B B 200 200 .	0.4862	0.5577	0.5349	0.0011	0.0027	
0.0013	1	.							
4806	CA	CA	. GLY GLY GLY B B 200 200 .	0.4979	0.5671	0.5448	0.0052	-0.0027	
0.0108	1	.							
4807	C	C	. GLY GLY GLY B B 200 200 .	0.5220	0.5704	0.5532	0.0010	0.0019	
0.0091	1	.							
4808	O	O	. GLY GLY GLY B B 200 200 .	0.5207	0.5754	0.5650	-0.0032	0.0149	
0.0102	1	.							
4809	N	N	. LYS LYS LYS B B 201 201 .	0.5293	0.5745	0.5565	0.0013	0.0012	
0.0076	1	.							
4810	CA	CA	. LYS LYS LYS B B 201 201 .	0.5545	0.5756	0.5691	-0.0052	0.0004	
0.0047	1	.							
4811	CB	CB	. LYS LYS LYS B B 201 201 .	0.5604	0.5845	0.5660	-0.0059	0.0013	
0.0023	1	.							
4812	CG	CG	. LYS LYS LYS B B 201 201 .	0.5824	0.6101	0.6095	-0.0147	-0.0104	-
0.0057	1	.							







4873	O	O	. GLU GLU GLU B B 209 209 .	0.3880	0.4023	0.3761	-0.0241	0.0203	
0.0115	1	.							
4874	N	N	. GLY GLY GLY B B 210 210 .	0.3435	0.3859	0.3501	-0.0086	0.0341	
0.0206	1	.							
4875	CA	CA	. GLY GLY GLY B B 210 210 .	0.3549	0.3746	0.3648	0.0038	0.0446	
0.0216	1	.							
4876	C	C	. GLY GLY GLY B B 210 210 .	0.3768	0.3960	0.3824	0.0082	0.0368	
0.0118	1	.							
4877	O	O	. GLY GLY GLY B B 210 210 .	0.3699	0.3951	0.3845	0.0025	0.0534	
0.0014	1	.							
4878	N	N	. GLY GLY GLY B B 211 211 .	0.3596	0.3843	0.3761	-0.0034	0.0428	
0.0085	1	.							
4879	CA	CA	. GLY GLY GLY B B 211 211 .	0.3604	0.3952	0.3834	0.0000	0.0206	-
0.0027	1	.							
4880	C	C	. GLY GLY GLY B B 211 211 .	0.3336	0.4096	0.3634	0.0059	0.0082	-
0.0082	1	.							
4881	O	O	. GLY GLY GLY B B 211 211 .	0.2898	0.4229	0.3610	0.0196	0.0285	-
0.0087	1	.							
4882	N	N	. PHE PHE PHE B B 212 212 .	0.3502	0.4059	0.3520	0.0276	0.0016	-
0.0174	1	.							
4883	CA	CA	. PHE PHE PHE B B 212 212 .	0.3559	0.4057	0.3921	0.0228	0.0076	-
0.0198	1	.							
4884	CB	CB	. PHE PHE PHE B B 212 212 .	0.3684	0.3878	0.3858	0.0315	0.0091	-
0.0180	1	.							
4885	CG	CG	. PHE PHE PHE B B 212 212 .	0.3529	0.4145	0.4023	0.0298	0.0253	-
0.0008	1	.							
4886	CD1	CD1	. PHE PHE PHE B B 212 212 .	0.2916	0.4302	0.3888	0.0198	-0.0124	
0.0073	1	.							
4887	CE1	CE1	. PHE PHE PHE B B 212 212 .	0.2168	0.4158	0.3921	0.0440	0.0135	
0.0377	1	.							
4888	CZ	CZ	. PHE PHE PHE B B 212 212 .	0.2185	0.4211	0.4086	0.1052	-0.0204	
0.0153	1	.							
4889	CE2	CE2	. PHE PHE PHE B B 212 212 .	0.2580	0.4003	0.4167	0.0700	0.0166	-
0.0097	1	.							
4890	CD2	CD2	. PHE PHE PHE B B 212 212 .	0.3526	0.4338	0.3999	0.0611	0.0166	
0.0105	1	.							
4891	C	C	. PHE PHE PHE B B 212 212 .	0.3744	0.4162	0.4037	0.0353	-0.0006	-
0.0260	1	.							
4892	O	O	. PHE PHE PHE B B 212 212 .	0.3819	0.4169	0.4012	0.0430	-0.0166	-
0.0439	1	.							
4893	N	N	. ALA ALA ALA B B 213 213 .	0.4038	0.4475	0.4501	0.0284	-0.0071	-
0.0320	1	.							
4894	CA	CA	. ALA ALA ALA B B 213 213 .	0.4237	0.4815	0.4812	0.0168	-0.0082	-
0.0263	1	.							
4895	CB	CB	. ALA ALA ALA B B 213 213 .	0.4095	0.4797	0.4822	0.0204	-0.0179	-
0.0327	1	.							
4896	C	C	. ALA ALA ALA B B 213 213 .	0.4597	0.5194	0.5110	0.0187	-0.0098	-
0.0331	1	.							
4897	O	O	. ALA ALA ALA B B 213 213 .	0.4218	0.5523	0.5386	0.0246	-0.0173	-
0.0423	1	.							
4898	N	N	. PRO PRO PRO B B 214 214 .	0.5070	0.5423	0.5252	0.0152	-0.0070	-
0.0252	1	.							
4899	CA	CA	. PRO PRO PRO B B 214 214 .	0.5319	0.5514	0.5411	0.0113	-0.0082	-
0.0206	1	.							
4900	CB	CB	. PRO PRO PRO B B 214 214 .	0.5357	0.5542	0.5371	0.0106	-0.0049	-
0.0194	1	.							
4901	CG	CG	. PRO PRO PRO B B 214 214 .	0.5354	0.5321	0.5110	0.0095	-0.0068	-
0.0272	1	.							
4902	CD	CD	. PRO PRO PRO B B 214 214 .	0.5172	0.5274	0.5254	0.0148	-0.0062	-
0.0290	1	.							











5053	C	C	. GLY GLY GLY B B 234 234 .	0.4922	0.4888	0.5043	0.0076	0.0080	
0.0017	1	.							
5054	O	O	. GLY GLY GLY B B 234 234 .	0.5024	0.4928	0.5167	0.0018	0.0049	-
0.0123	1	.							
5055	N	N	. TYR TYR TYR B B 235 235 .	0.4698	0.4650	0.4830	0.0232	0.0145	
0.0046	1	.							
5056	CA	CA	. TYR TYR TYR B B 235 235 .	0.4558	0.4568	0.4538	0.0124	0.0167	
0.0002	1	.							
5057	CB	CB	. TYR TYR TYR B B 235 235 .	0.4595	0.4602	0.4558	0.0137	0.0208	
0.0075	1	.							
5058	CG	CG	. TYR TYR TYR B B 235 235 .	0.4528	0.4566	0.4762	0.0261	0.0109	
0.0013	1	.							
5059	CD1	CD1	. TYR TYR TYR B B 235 235 .	0.4575	0.4444	0.4681	0.0421	-0.0088	
0.0046	1	.							
5060	CE1	CE1	. TYR TYR TYR B B 235 235 .	0.4625	0.4677	0.4676	0.0183	-0.0158	
0.0195	1	.							
5061	CZ	CZ	. TYR TYR TYR B B 235 235 .	0.4849	0.4662	0.4550	0.0224	-0.0028	-
0.0073	1	.							
5062	OH	OH	. TYR TYR TYR B B 235 235 .	0.4898	0.4431	0.4948	0.0105	-0.0012	-
0.0211	1	.							
5063	CE2	CE2	. TYR TYR TYR B B 235 235 .	0.4780	0.4919	0.4801	0.0300	-0.0120	
0.0125	1	.							
5064	CD2	CD2	. TYR TYR TYR B B 235 235 .	0.4416	0.4559	0.5076	0.0307	0.0028	
0.0014	1	.							
5065	C	C	. TYR TYR TYR B B 235 235 .	0.4448	0.4632	0.4341	0.0174	0.0139	-
0.0014	1	.							
5066	O	O	. TYR TYR TYR B B 235 235 .	0.3987	0.4570	0.4073	0.0262	0.0458	-
0.0051	1	.							
5067	N	N	. THR THR THR B B 236 236 .	0.4339	0.4576	0.4373	0.0129	0.0143	-
0.0048	1	.							
5068	CA	CA	. THR THR THR B B 236 236 .	0.4580	0.4692	0.4553	0.0180	0.0097	
0.0028	1	.							
5069	CB	CB	. THR THR THR B B 236 236 .	0.4737	0.4678	0.4505	0.0177	0.0078	
0.0084	1	.							
5070	OG1	OG1	. THR THR THR B B 236 236 .	0.4744	0.4993	0.4844	0.0087	0.0037	-
0.0128	1	.							
5071	CG2	CG2	. THR THR THR B B 236 236 .	0.4790	0.4508	0.4886	0.0319	0.0159	
0.0097	1	.							
5072	C	C	. THR THR THR B B 236 236 .	0.4934	0.4858	0.4537	0.0160	0.0109	
0.0004	1	.							
5073	O	O	. THR THR THR B B 236 236 .	0.4997	0.4837	0.4519	0.0440	0.0175	-
0.0081	1	.							
5074	N	N	. GLU GLU GLU B B 237 237 .	0.5152	0.4995	0.4772	0.0157	0.0112	-
0.0033	1	.							
5075	CA	CA	. GLU GLU GLU B B 237 237 .	0.5211	0.5391	0.5163	0.0080	0.0076	-
0.0013	1	.							
5076	CB	CB	. GLU GLU GLU B B 237 237 .	0.5474	0.5518	0.5394	0.0100	0.0102	-
0.0015	1	.							
5077	CG	CG	. GLU GLU GLU B B 237 237 .	0.5913	0.6276	0.6257	-0.0057	0.0344	
0.0162	1	.							
5078	CD	CD	. GLU GLU GLU B B 237 237 .	0.6817	0.7359	0.7197	-0.0329	0.0161	
0.0395	1	.							
5079	OE1	OE1	. GLU GLU GLU B B 237 237 .	0.7829	0.7338	0.7709	-0.0475	0.0399	
0.0730	1	.							
5080	OE2	OE2	. GLU GLU GLU B B 237 237 .	0.7184	0.7636	0.7420	-0.0610	0.0776	
0.0595	1	.							
5081	C	C	. GLU GLU GLU B B 237 237 .	0.5204	0.5356	0.5021	0.0094	0.0038	-
0.0034	1	.							
5082	O	O	. GLU GLU GLU B B 237 237 .	0.5219	0.5629	0.5029	0.0135	-0.0010	
0.0042	1	.							

5083	N	N	. LYS LYS LYS B B 238 238 .	0.5049	0.4983	0.4786	0.0088	-0.0011	-
0.0105	1	.							
5084	CA	CA	. LYS LYS LYS B B 238 238 .	0.4902	0.4771	0.4543	0.0099	0.0020	-
0.0024	1	.							
5085	CB	CB	. LYS LYS LYS B B 238 238 .	0.5055	0.4865	0.4755	0.0109	-0.0101	-
0.0026	1	.							
5086	CG	CG	. LYS LYS LYS B B 238 238 .	0.5821	0.5317	0.5011	0.0098	-0.0236	-
0.0223	1	.							
5087	CD	CD	. LYS LYS LYS B B 238 238 .	0.6265	0.5712	0.5522	-0.0083	-0.0330	-
0.0021	1	.							
5088	CE	CE	. LYS LYS LYS B B 238 238 .	0.6497	0.6015	0.5849	-0.0469	-0.0269	-
0.0466	1	.							
5089	NZ	NZ	. LYS LYS LYS B B 238 238 .	0.6431	0.6459	0.5955	-0.0458	-0.0060	-
0.0464	1	.							
5090	C	C	. LYS LYS LYS B B 238 238 .	0.4574	0.4514	0.4167	0.0035	0.0044	-
0.0010	1	.							
5091	O	O	. LYS LYS LYS B B 238 238 .	0.4912	0.4538	0.3958	0.0157	0.0094	-
0.0070	1	.							
5092	N	N	. ILE ILE ILE B B 239 239 .	0.4128	0.4210	0.3816	0.0125	0.0166	-
0.0041	1	.							
5093	CA	CA	. ILE ILE ILE B B 239 239 .	0.4014	0.4090	0.3841	-0.0040	0.0085	-
0.0005	1	.							
5094	CB	CB	. ILE ILE ILE B B 239 239 .	0.3809	0.3985	0.3904	-0.0089	-0.0035	-
0.0052	1	.							
5095	CG1	CG1	. ILE ILE ILE B B 239 239 .	0.4134	0.4177	0.3840	0.0097	-0.0026	-
0.0046	1	.							
5096	CD1	CD1	. ILE ILE ILE B B 239 239 .	0.3740	0.4715	0.4264	-0.0259	-0.0685	-
0.0204	1	.							
5097	CG2	CG2	. ILE ILE ILE B B 239 239 .	0.3307	0.3881	0.3751	-0.0067	0.0302	-
0.0160	1	.							
5098	C	C	. ILE ILE ILE B B 239 239 .	0.3873	0.3952	0.3756	0.0024	0.0000	-
0.0020	1	.							
5099	O	O	. ILE ILE ILE B B 239 239 .	0.4066	0.4243	0.3628	0.0054	0.0092	-
0.0002	1	.							
5100	N	N	. VAL VAL VAL B B 240 240 .	0.3552	0.3723	0.3523	0.0070	-0.0010	-
0.0030	1	.							
5101	CA	CA	. VAL VAL VAL B B 240 240 .	0.3178	0.3510	0.3290	0.0000	-0.0047	-
0.0007	1	.							
5102	CB	CB	. VAL VAL VAL B B 240 240 .	0.3138	0.3384	0.3179	0.0142	-0.0004	-
0.0080	1	.							
5103	CG1	CG1	. VAL VAL VAL B B 240 240 .	0.3792	0.3309	0.3360	-0.0279	-0.0013	-
0.0108	1	.							
5104	CG2	CG2	. VAL VAL VAL B B 240 240 .	0.2642	0.3114	0.3054	-0.0699	-0.0248	-
0.0115	1	.							
5105	C	C	. VAL VAL VAL B B 240 240 .	0.2988	0.3469	0.3303	0.0095	-0.0063	-
0.0078	1	.							
5106	O	O	. VAL VAL VAL B B 240 240 .	0.2868	0.3603	0.3314	0.0129	-0.0076	-
0.0052	1	.							
5107	N	N	. ILE ILE ILE B B 241 241 .	0.2705	0.3286	0.3208	0.0147	-0.0087	-
0.0116	1	.							
5108	CA	CA	. ILE ILE ILE B B 241 241 .	0.2980	0.3241	0.2938	0.0113	0.0048	-
0.0107	1	.							
5109	CB	CB	. ILE ILE ILE B B 241 241 .	0.2785	0.3157	0.3103	0.0173	-0.0029	-
0.0046	1	.							
5110	CG1	CG1	. ILE ILE ILE B B 241 241 .	0.2763	0.3275	0.2482	-0.0002	-0.0082	-
0.0215	1	.							
5111	CD1	CD1	. ILE ILE ILE B B 241 241 .	0.2019	0.4184	0.2695	0.0481	0.0075	-
0.0526	1	.							
5112	CG2	CG2	. ILE ILE ILE B B 241 241 .	0.2964	0.3201	0.2220	-0.0159	0.0360	-
0.0191	1	.							



5113	C	C	. ILE ILE ILE B B 241 241 .	0.3208	0.3398	0.3095	0.0203	0.0033	
0.0083	1	.							
5114	O	O	. ILE ILE ILE B B 241 241 .	0.3264	0.3495	0.3043	0.0192	-0.0032	
0.0147	1	.							
5115	N	N	. GLY GLY GLY B B 242 242 .	0.3501	0.3364	0.3051	0.0232	0.0120	
0.0061	1	.							
5116	CA	CA	. GLY GLY GLY B B 242 242 .	0.3242	0.3336	0.3120	0.0161	0.0102	
0.0107	1	.							
5117	C	C	. GLY GLY GLY B B 242 242 .	0.3325	0.3340	0.3172	0.0068	0.0152	
0.0070	1	.							
5118	O	O	. GLY GLY GLY B B 242 242 .	0.3822	0.3377	0.3168	-0.0152	0.0265	
0.0072	1	.							
5119	N	N	. MET MET MET B B 243 243 .	0.3523	0.3444	0.3311	-0.0014	0.0139	
0.0026	1	.							
5120	CA	CA	. MET MET MET B B 243 243 .	0.3509	0.3551	0.3339	-0.0013	0.0041	
0.0026	1	.							
5121	CB	CB	. MET MET MET B B 243 243 .	0.3490	0.3657	0.3703	-0.0144	0.0003	-
0.0065	1	.							
5122	CG	CG	. MET MET MET B B 243 243 .	0.3910	0.3914	0.3914	0.0133	-0.0030	-
0.0311	1	.							
5123	SD	SD	. MET MET MET B B 243 243 .	0.4524	0.4326	0.4666	-0.0305	0.0046	-
0.0008	1	.							
5124	CE	CE	. MET MET MET B B 243 243 .	0.5224	0.4558	0.4058	-0.0449	-0.0221	-
0.0057	1	.							
5125	C	C	. MET MET MET B B 243 243 .	0.3541	0.3360	0.3359	0.0065	-0.0005	
0.0088	1	.							
5126	O	O	. MET MET MET B B 243 243 .	0.3586	0.3444	0.3425	0.0120	-0.0109	-
0.0002	1	.							
5127	N	N	. ASP ASP ASP B B 244 244 .	0.3313	0.3188	0.3293	0.0027	-0.0017	
0.0064	1	.							
5128	CA	CA	. ASP ASP ASP B B 244 244 .	0.3450	0.3243	0.3275	0.0036	0.0037	
0.0135	1	.							
5129	CB	CB	. ASP ASP ASP B B 244 244 .	0.3527	0.3288	0.3342	0.0168	0.0164	
0.0189	1	.							
5130	CG	CG	. ASP ASP ASP B B 244 244 .	0.3212	0.3231	0.3020	0.0124	0.0042	
0.0328	1	.							
5131	OD1	OD1	. ASP ASP ASP B B 244 244 .	0.2094	0.3322	0.2907	0.0129	-0.0392	
0.0563	1	.							
5132	OD2	OD2	. ASP ASP ASP B B 244 244 .	0.3120	0.3153	0.3154	0.0297	-0.0419	
0.0371	1	.							
5133	C	C	. ASP ASP ASP B B 244 244 .	0.3394	0.3279	0.3302	0.0030	-0.0041	
0.0073	1	.							
5134	O	O	. ASP ASP ASP B B 244 244 .	0.3426	0.3296	0.3239	0.0159	-0.0157	
0.0142	1	.							
5135	N	N	. VAL VAL VAL B B 245 245 .	0.3392	0.3094	0.3131	-0.0049	0.0021	
0.0084	1	.							
5136	CA	CA	. VAL VAL VAL B B 245 245 .	0.3155	0.3284	0.3087	-0.0017	0.0076	
0.0021	1	.							
5137	CB	CB	. VAL VAL VAL B B 245 245 .	0.3298	0.3170	0.3049	-0.0094	0.0199	
0.0011	1	.							
5138	CG1	CG1	. VAL VAL VAL B B 245 245 .	0.3186	0.3002	0.3256	-0.0132	0.0295	-
0.0547	1	.							
5139	CG2	CG2	. VAL VAL VAL B B 245 245 .	0.3313	0.3254	0.2686	0.0216	0.0263	
0.0151	1	.							
5140	C	C	. VAL VAL VAL B B 245 245 .	0.3059	0.3211	0.2948	-0.0109	-0.0017	
0.0100	1	.							
5141	O	O	. VAL VAL VAL B B 245 245 .	0.2480	0.3383	0.2761	-0.0077	-0.0171	
0.0397	1	.							
5142	N	N	. ALA ALA ALA B B 246 246 .	0.2723	0.3197	0.2936	-0.0094	-0.0015	
0.0143	1	.							

5143	CA	CA	. ALA ALA ALA B B 246 246 .	0.3061	0.3319	0.2939	-0.0044	-0.0081	
0.0082	1	.							
5144	CB	CB	. ALA ALA ALA B B 246 246 .	0.2977	0.3296	0.2942	-0.0034	-0.0075	
0.0179	1	.							
5145	C	C	. ALA ALA ALA B B 246 246 .	0.3241	0.3420	0.3102	-0.0083	-0.0104	
0.0016	1	.							
5146	O	O	. ALA ALA ALA B B 246 246 .	0.3291	0.3757	0.3215	0.0042	-0.0217	
0.0071	1	.							
5147	N	N	. ALA ALA ALA B B 247 247 .	0.3396	0.3438	0.3415	-0.0034	-0.0154	
0.0053	1	.							
5148	CA	CA	. ALA ALA ALA B B 247 247 .	0.3483	0.3470	0.3381	0.0004	-0.0088	-
0.0019	1	.							
5149	CB	CB	. ALA ALA ALA B B 247 247 .	0.3696	0.3420	0.3458	0.0042	-0.0268	-
0.0082	1	.							
5150	C	C	. ALA ALA ALA B B 247 247 .	0.3458	0.3527	0.3491	-0.0027	-0.0140	-
0.0039	1	.							
5151	O	O	. ALA ALA ALA B B 247 247 .	0.3430	0.3578	0.3727	0.0015	-0.0185	-
0.0051	1	.							
5152	N	N	. SER SER SER B B 248 248 .	0.3111	0.3622	0.3145	-0.0013	-0.0127	-
0.0102	1	.							
5153	CA	CA	. SER SER SER B B 248 248 .	0.3198	0.3463	0.3422	-0.0040	-0.0137	-
0.0080	1	.							
5154	CB	CB	. SER SER SER B B 248 248 .	0.3301	0.3531	0.3353	-0.0076	-0.0104	-
0.0124	1	.							
5155	OG	OG	. SER SER SER B B 248 248 .	0.2610	0.3612	0.3368	-0.0211	-0.0261	-
0.0070	1	.							
5156	C	C	. SER SER SER B B 248 248 .	0.3507	0.3600	0.3547	0.0015	-0.0047	-
0.0096	1	.							
5157	O	O	. SER SER SER B B 248 248 .	0.3569	0.3678	0.3362	0.0079	0.0010	-
0.0279	1	.							
5158	N	N	. GLU GLU GLU B B 249 249 .	0.3839	0.3788	0.3754	-0.0045	-0.0083	-
0.0031	1	.							
5159	CA	CA	. GLU GLU GLU B B 249 249 .	0.3986	0.3996	0.3949	0.0037	-0.0024	-
0.0099	1	.							
5160	CB	CB	. GLU GLU GLU B B 249 249 .	0.4138	0.4065	0.4022	0.0093	-0.0004	-
0.0144	1	.							
5161	CG	CG	. GLU GLU GLU B B 249 249 .	0.3727	0.4394	0.4105	0.0099	-0.0013	-
0.0393	1	.							
5162	CD	CD	. GLU GLU GLU B B 249 249 .	0.4059	0.4753	0.4844	0.0019	-0.0046	-
0.1117	1	.							
5163	OE1	OE1	. GLU GLU GLU B B 249 249 .	0.3547	0.4996	0.4399	0.0478	-0.0153	-
0.1015	1	.							
5164	OE2	OE2	. GLU GLU GLU B B 249 249 .	0.4190	0.4737	0.5690	-0.0688	-0.0030	-
0.1171	1	.							
5165	C	C	. GLU GLU GLU B B 249 249 .	0.4041	0.4096	0.4174	0.0052	-0.0096	-
0.0132	1	.							
5166	O	O	. GLU GLU GLU B B 249 249 .	0.4499	0.4362	0.4520	0.0221	-0.0055	-
0.0154	1	.							
5167	N	N	. PHE PHE PHE B B 250 250 .	0.3960	0.4096	0.4117	0.0011	-0.0073	-
0.0025	1	.							
5168	CA	CA	. PHE PHE PHE B B 250 250 .	0.4223	0.4191	0.4282	-0.0006	-0.0048	-
0.0022	1	.							
5169	CB	CB	. PHE PHE PHE B B 250 250 .	0.3904	0.4187	0.4227	-0.0024	-0.0072	-
0.0057	1	.							
5170	CG	CG	. PHE PHE PHE B B 250 250 .	0.4211	0.4204	0.4146	-0.0155	0.0029	
0.0072	1	.							
5171	CD1	CD1	. PHE PHE PHE B B 250 250 .	0.4827	0.4185	0.4270	-0.0182	-0.0235	
0.0077	1	.							
5172	CE1	CE1	. PHE PHE PHE B B 250 250 .	0.4967	0.4337	0.3612	-0.0346	-0.0245	-
0.0075	1	.							



5203	CB	CB	. ASP ASP ASP B B 253 253 .	0.5289	0.5020	0.5319	-0.0042	-0.0064	-
0.0041	1	.							
5204	CG	CG	. ASP ASP ASP B B 253 253 .	0.5711	0.5605	0.5752	-0.0105	-0.0007	-
0.0236	1	.							
5205	OD1	OD1	. ASP ASP ASP B B 253 253 .	0.5972	0.5636	0.6711	-0.0062	-0.0304	-
0.0306	1	.							
5206	OD2	OD2	. ASP ASP ASP B B 253 253 .	0.5393	0.5878	0.6485	-0.0064	0.0407	-
0.0425	1	.							
5207	C	C	. ASP ASP ASP B B 253 253 .	0.4954	0.4876	0.5030	0.0020	0.0045	-
0.0003	1	.							
5208	O	O	. ASP ASP ASP B B 253 253 .	0.4790	0.4807	0.5094	0.0056	0.0192	-
0.0052	1	.							
5209	N	N	. GLY GLY GLY B B 254 254 .	0.4836	0.4754	0.4922	0.0026	0.0119	-
0.0019	1	.							
5210	CA	CA	. GLY GLY GLY B B 254 254 .	0.4823	0.4566	0.4766	0.0019	0.0132	-
0.0007	1	.							
5211	C	C	. GLY GLY GLY B B 254 254 .	0.4856	0.4554	0.4681	-0.0033	0.0123	-
0.0013	1	.							
5212	O	O	. GLY GLY GLY B B 254 254 .	0.4967	0.4401	0.4495	-0.0068	0.0357	-
0.0125	1	.							
5213	N	N	. LYS LYS LYS B B 255 255 .	0.4493	0.4453	0.4696	-0.0031	0.0113	-
0.0032	1	.							
5214	CA	CA	. LYS LYS LYS B B 255 255 .	0.4473	0.4548	0.4736	-0.0025	0.0092	-
0.0026	1	.							
5215	CB	CB	. LYS LYS LYS B B 255 255 .	0.4519	0.4549	0.4890	-0.0131	0.0215	-
0.0001	1	.							
5216	CG	CG	. LYS LYS LYS B B 255 255 .	0.4614	0.4758	0.4931	0.0073	0.0175	-
0.0107	1	.							
5217	CD	CD	. LYS LYS LYS B B 255 255 .	0.5345	0.5436	0.5669	-0.0449	0.0260	-
0.0161	1	.							
5218	CE	CE	. LYS LYS LYS B B 255 255 .	0.5450	0.6041	0.5871	-0.0403	0.0489	-
0.0296	1	.							
5219	NZ	NZ	. LYS LYS LYS B B 255 255 .	0.5483	0.6898	0.6698	-0.0350	0.0271	-
0.0043	1	.							
5220	C	C	. LYS LYS LYS B B 255 255 .	0.4438	0.4516	0.4735	-0.0018	0.0110	-
0.0020	1	.							
5221	O	O	. LYS LYS LYS B B 255 255 .	0.4479	0.4532	0.4953	0.0085	0.0148	-
0.0009	1	.							
5222	N	N	. TYR TYR TYR B B 256 256 .	0.4410	0.4333	0.4546	0.0042	0.0011	-
0.0042	1	.							
5223	CA	CA	. TYR TYR TYR B B 256 256 .	0.4246	0.4262	0.4402	0.0000	-0.0040	-
0.0116	1	.							
5224	CB	CB	. TYR TYR TYR B B 256 256 .	0.3976	0.4059	0.4265	-0.0002	0.0021	-
0.0065	1	.							
5225	CG	CG	. TYR TYR TYR B B 256 256 .	0.3711	0.3400	0.3428	-0.0073	0.0011	-
0.0225	1	.							
5226	CD1	CD1	. TYR TYR TYR B B 256 256 .	0.3320	0.3072	0.3526	-0.0137	-0.0142	-
0.0554	1	.							
5227	CE1	CE1	. TYR TYR TYR B B 256 256 .	0.3084	0.2631	0.3269	0.0313	-0.0206	-
0.0298	1	.							
5228	CZ	CZ	. TYR TYR TYR B B 256 256 .	0.2878	0.2724	0.3157	-0.0071	-0.0202	-
0.0384	1	.							
5229	OH	OH	. TYR TYR TYR B B 256 256 .	0.2593	0.3541	0.3936	-0.0257	0.0035	-
0.0306	1	.							
5230	CE2	CE2	. TYR TYR TYR B B 256 256 .	0.2772	0.2743	0.2807	0.0222	0.0266	-
0.0739	1	.							
5231	CD2	CD2	. TYR TYR TYR B B 256 256 .	0.3061	0.3029	0.3212	0.0053	0.0136	-
0.0353	1	.							
5232	C	C	. TYR TYR TYR B B 256 256 .	0.4547	0.4469	0.4625	0.0035	-0.0086	-
0.0127	1	.							

5233	O	O	. TYR TYR TYR B B 256 256 .	0.4278	0.4243	0.4627	0.0102	-0.0091	-
0.0310	1	.							
5234	N	N	. ASP ASP ASP B B 257 257 .	0.4858	0.4691	0.4797	0.0034	-0.0203	-
0.0206	1	.							
5235	CA	CA	. ASP ASP ASP B B 257 257 .	0.4902	0.5087	0.5114	-0.0012	-0.0311	-
0.0230	1	.							
5236	CB	CB	. ASP ASP ASP B B 257 257 .	0.4877	0.5158	0.5173	0.0045	-0.0397	-
0.0273	1	.							
5237	CG	CG	. ASP ASP ASP B B 257 257 .	0.5067	0.6003	0.5218	-0.0115	-0.0503	-
0.0354	1	.							
5238	OD1	OD1	. ASP ASP ASP B B 257 257 .	0.4588	0.5770	0.5141	-0.0549	-0.0458	-
0.0037	1	.							
5239	OD2	OD2	. ASP ASP ASP B B 257 257 .	0.4870	0.6852	0.5037	0.0086	-0.1257	-
0.0581	1	.							
5240	C	C	. ASP ASP ASP B B 257 257 .	0.5004	0.5050	0.5231	-0.0027	-0.0242	-
0.0254	1	.							
5241	O	O	. ASP ASP ASP B B 257 257 .	0.4656	0.4920	0.5217	-0.0048	-0.0282	-
0.0388	1	.							
5242	N	N	. LEU LEU LEU B B 258 258 .	0.5304	0.5395	0.5420	-0.0075	-0.0209	-
0.0227	1	.							
5243	CA	CA	. LEU LEU LEU B B 258 258 .	0.5513	0.5630	0.5603	0.0000	-0.0149	-
0.0157	1	.							
5244	CB	CB	. LEU LEU LEU B B 258 258 .	0.5363	0.5680	0.5430	-0.0048	-0.0158	-
0.0129	1	.							
5245	CG	CG	. LEU LEU LEU B B 258 258 .	0.5120	0.5562	0.5143	0.0107	-0.0111	-
0.0020	1	.							
5246	CD1	CD1	. LEU LEU LEU B B 258 258 .	0.4823	0.5322	0.4769	0.0255	-0.0463	-
0.0117	1	.							
5247	CD2	CD2	. LEU LEU LEU B B 258 258 .	0.4706	0.5273	0.4224	-0.0024	-0.0429	-
0.0003	1	.							
5248	C	C	. LEU LEU LEU B B 258 258 .	0.5725	0.5934	0.5905	-0.0034	-0.0196	-
0.0159	1	.							
5249	O	O	. LEU LEU LEU B B 258 258 .	0.5859	0.5818	0.5926	-0.0155	-0.0248	-
0.0252	1	.							
5250	N	N	. ASP ASP ASP B B 259 259 .	0.6064	0.6189	0.6310	-0.0027	-0.0194	-
0.0166	1	.							
5251	CA	CA	. ASP ASP ASP B B 259 259 .	0.6454	0.6425	0.6556	0.0012	-0.0179	-
0.0066	1	.							
5252	CB	CB	. ASP ASP ASP B B 259 259 .	0.6519	0.6409	0.6763	0.0004	-0.0257	-
0.0013	1	.							
5253	CG	CG	. ASP ASP ASP B B 259 259 .	0.6779	0.6245	0.6907	0.0178	-0.0224	-
0.0127	1	.							
5254	OD1	OD1	. ASP ASP ASP B B 259 259 .	0.7832	0.5899	0.6962	0.0526	-0.0256	-
0.0048	1	.							
5255	OD2	OD2	. ASP ASP ASP B B 259 259 .	0.6480	0.5978	0.7385	0.0300	-0.0349	-
0.0453	1	.							
5256	C	C	. ASP ASP ASP B B 259 259 .	0.6610	0.6671	0.6745	0.0016	-0.0172	-
0.0061	1	.							
5257	O	O	. ASP ASP ASP B B 259 259 .	0.6641	0.6789	0.6847	-0.0067	-0.0240	-
0.0082	1	.							
5258	N	N	. PHE PHE PHE B B 260 260 .	0.6678	0.6835	0.6874	0.0042	-0.0170	-
0.0056	1	.							
5259	CA	CA	. PHE PHE PHE B B 260 260 .	0.6905	0.6871	0.6947	0.0141	-0.0128	-
0.0106	1	.							
5260	CB	CB	. PHE PHE PHE B B 260 260 .	0.6786	0.6717	0.6863	0.0138	-0.0180	-
0.0130	1	.							
5261	CG	CG	. PHE PHE PHE B B 260 260 .	0.6529	0.6486	0.6693	0.0197	-0.0361	-
0.0158	1	.							
5262	CD1	CD1	. PHE PHE PHE B B 260 260 .	0.6805	0.6225	0.6621	0.0292	-0.0481	-
0.0182	1	.							



5293	CB	CB	. THR THR THR B B 264 264 .	0.7854	0.7755	0.7811	0.0031	-0.0028	-
0.0032	1	.							
5294	OG1	OG1	. THR THR THR B B 264 264 .	0.7556	0.7765	0.7787	0.0028	-0.0148	-
0.0048	1	.							
5295	CG2	CG2	. THR THR THR B B 264 264 .	0.7839	0.7590	0.7864	0.0123	-0.0059	-
0.0020	1	.							
5296	C	C	. THR THR THR B B 264 264 .	0.7827	0.7712	0.7894	-0.0065	-0.0026	-
0.0000	1	.							
5297	O	O	. THR THR THR B B 264 264 .	0.7774	0.7724	0.7948	-0.0129	-0.0003	-
0.0014	1	.							
5298	N	N	. ASP ASP ASP B B 265 265 .	0.7870	0.7694	0.7920	-0.0062	-0.0017	-
0.0003	1	.							
5299	CA	CA	. ASP ASP ASP B B 265 265 .	0.7899	0.7721	0.7948	-0.0014	-0.0030	-
0.0019	1	.							
5300	CB	CB	. ASP ASP ASP B B 265 265 .	0.7859	0.7741	0.7939	-0.0043	0.0008	-
0.0022	1	.							
5301	CG	CG	. ASP ASP ASP B B 265 265 .	0.7841	0.7695	0.7843	-0.0021	-0.0048	-
0.0089	1	.							
5302	OD1	OD1	. ASP ASP ASP B B 265 265 .	0.7584	0.7735	0.7517	0.0074	-0.0204	-
0.0238	1	.							
5303	OD2	OD2	. ASP ASP ASP B B 265 265 .	0.7721	0.7797	0.7878	-0.0070	0.0078	-
0.0226	1	.							
5304	C	C	. ASP ASP ASP B B 265 265 .	0.7963	0.7774	0.8028	0.0006	-0.0077	-
0.0020	1	.							
5305	O	O	. ASP ASP ASP B B 265 265 .	0.7953	0.7806	0.8156	0.0056	-0.0042	-
0.0024	1	.							
5306	N	N	. PRO PRO PRO B B 266 266 .	0.7959	0.7833	0.8024	0.0044	-0.0145	-
0.0024	1	.							
5307	CA	CA	. PRO PRO PRO B B 266 266 .	0.7865	0.7797	0.7901	0.0034	-0.0105	-
0.0025	1	.							
5308	CB	CB	. PRO PRO PRO B B 266 266 .	0.7926	0.7879	0.7976	0.0031	-0.0136	-
0.0027	1	.							
5309	CG	CG	. PRO PRO PRO B B 266 266 .	0.7998	0.7874	0.8005	0.0083	-0.0191	-
0.0075	1	.							
5310	CD	CD	. PRO PRO PRO B B 266 266 .	0.7981	0.7845	0.8042	0.0087	-0.0179	-
0.0028	1	.							
5311	C	C	. PRO PRO PRO B B 266 266 .	0.7657	0.7745	0.7870	-0.0021	-0.0086	-
0.0022	1	.							
5312	O	O	. PRO PRO PRO B B 266 266 .	0.7641	0.7783	0.7953	0.0014	-0.0089	-
0.0076	1	.							
5313	N	N	. SER SER SER B B 267 267 .	0.7422	0.7651	0.7704	-0.0004	-0.0134	-
0.0039	1	.							
5314	CA	CA	. SER SER SER B B 267 267 .	0.7212	0.7564	0.7614	-0.0083	-0.0159	-
0.0080	1	.							
5315	CB	CB	. SER SER SER B B 267 267 .	0.7171	0.7573	0.7610	-0.0116	-0.0204	-
0.0036	1	.							
5316	OG	OG	. SER SER SER B B 267 267 .	0.6351	0.7502	0.7395	-0.0322	-0.0270	-
0.0149	1	.							
5317	C	C	. SER SER SER B B 267 267 .	0.7115	0.7482	0.7481	-0.0097	-0.0160	-
0.0076	1	.							
5318	O	O	. SER SER SER B B 267 267 .	0.7048	0.7611	0.7423	-0.0092	-0.0196	-
0.0186	1	.							
5319	N	N	. ARG ARG ARG B B 268 268 .	0.6936	0.7281	0.7417	-0.0129	-0.0155	-
0.0078	1	.							
5320	CA	CA	. ARG ARG ARG B B 268 268 .	0.6941	0.7108	0.7280	-0.0084	-0.0132	-
0.0126	1	.							
5321	CB	CB	. ARG ARG ARG B B 268 268 .	0.6978	0.7015	0.7332	-0.0097	-0.0049	-
0.0087	1	.							
5322	CG	CG	. ARG ARG ARG B B 268 268 .	0.7441	0.6982	0.7319	-0.0040	-0.0059	-
0.0125	1	.							







5383	CD2	CD2	. LEU LEU LEU B B 275 275 .	0.3638	0.2870	0.3929	0.0460	0.0111	
0.0297	1	.							
5384	C	C	. LEU LEU LEU B B 275 275 .	0.4281	0.4563	0.4651	0.0064	0.0208	
0.0076	1	.							
5385	O	O	. LEU LEU LEU B B 275 275 .	0.3980	0.4766	0.5000	0.0056	0.0285	
0.0107	1	.							
5386	N	N	. GLY GLY GLY B B 276 276 .	0.4171	0.4579	0.4464	-0.0028	0.0236	
0.0083	1	.							
5387	CA	CA	. GLY GLY GLY B B 276 276 .	0.4166	0.4540	0.4533	-0.0097	0.0290	
0.0069	1	.							
5388	C	C	. GLY GLY GLY B B 276 276 .	0.4238	0.4461	0.4711	-0.0078	0.0216	
0.0037	1	.							
5389	O	O	. GLY GLY GLY B B 276 276 .	0.4092	0.4650	0.4654	-0.0224	0.0406	
0.0073	1	.							
5390	N	N	. ALA ALA ALA B B 277 277 .	0.4381	0.4448	0.4647	0.0020	0.0311	
0.0031	1	.							
5391	CA	CA	. ALA ALA ALA B B 277 277 .	0.4367	0.4508	0.4573	-0.0047	0.0234	-
0.0024	1	.							
5392	CB	CB	. ALA ALA ALA B B 277 277 .	0.4448	0.4460	0.4614	0.0004	0.0288	-
0.0113	1	.							
5393	C	C	. ALA ALA ALA B B 277 277 .	0.4397	0.4519	0.4535	-0.0021	0.0217	-
0.0071	1	.							
5394	O	O	. ALA ALA ALA B B 277 277 .	0.4396	0.4749	0.4660	-0.0125	0.0344	-
0.0107	1	.							
5395	N	N	. LEU LEU LEU B B 278 278 .	0.4241	0.4409	0.4420	-0.0018	0.0109	-
0.0102	1	.							
5396	CA	CA	. LEU LEU LEU B B 278 278 .	0.4114	0.4309	0.4274	0.0044	0.0066	-
0.0117	1	.							
5397	CB	CB	. LEU LEU LEU B B 278 278 .	0.3930	0.4334	0.4348	0.0209	0.0109	-
0.0270	1	.							
5398	CG	CG	. LEU LEU LEU B B 278 278 .	0.4141	0.4072	0.4247	0.0348	0.0440	-
0.0113	1	.							
5399	CD1	CD1	. LEU LEU LEU B B 278 278 .	0.3659	0.4341	0.5173	0.0319	0.0720	-
0.0038	1	.							
5400	CD2	CD2	. LEU LEU LEU B B 278 278 .	0.4021	0.3893	0.4722	0.0365	0.0609	-
0.0333	1	.							
5401	C	C	. LEU LEU LEU B B 278 278 .	0.3994	0.4219	0.4121	0.0059	0.0024	-
0.0100	1	.							
5402	O	O	. LEU LEU LEU B B 278 278 .	0.4103	0.4376	0.3919	0.0007	-0.0014	-
0.0091	1	.							
5403	N	N	. TYR TYR TYR B B 279 279 .	0.3917	0.4039	0.4052	-0.0067	0.0017	-
0.0098	1	.							
5404	CA	CA	. TYR TYR TYR B B 279 279 .	0.3744	0.3866	0.3829	-0.0021	0.0057	-
0.0064	1	.							
5405	CB	CB	. TYR TYR TYR B B 279 279 .	0.3612	0.3772	0.3855	0.0015	0.0305	-
0.0159	1	.							
5406	CG	CG	. TYR TYR TYR B B 279 279 .	0.4023	0.3598	0.4096	-0.0094	-0.0019	-
0.0123	1	.							
5407	CD1	CD1	. TYR TYR TYR B B 279 279 .	0.3980	0.3929	0.4288	0.0046	-0.0079	-
0.0116	1	.							
5408	CE1	CE1	. TYR TYR TYR B B 279 279 .	0.3849	0.3593	0.3961	0.0050	0.0095	-
0.0019	1	.							
5409	CZ	CZ	. TYR TYR TYR B B 279 279 .	0.3666	0.3924	0.4128	-0.0149	0.0065	-
0.0123	1	.							
5410	OH	OH	. TYR TYR TYR B B 279 279 .	0.3124	0.4147	0.3744	-0.0135	0.0396	-
0.0008	1	.							
5411	CE2	CE2	. TYR TYR TYR B B 279 279 .	0.3690	0.4036	0.4022	0.0062	0.0037	-
0.0038	1	.							
5412	CD2	CD2	. TYR TYR TYR B B 279 279 .	0.3405	0.3941	0.4420	-0.0056	0.0276	-
0.0140	1	.							

5413	C	C	. TYR TYR TYR B B 279 279 .	0.3506	0.3866	0.3814	0.0065	0.0088	-
0.0005	1	.							
5414	O	O	. TYR TYR TYR B B 279 279 .	0.3353	0.3858	0.3575	-0.0007	0.0130	-
0.0082	1	.							
5415	N	N	. GLN GLN GLN B B 280 280 .	0.3305	0.3906	0.3581	-0.0060	0.0136	
0.0060	1	.							
5416	CA	CA	. GLN GLN GLN B B 280 280 .	0.3700	0.4010	0.3893	0.0040	-0.0040	-
0.0078	1	.							
5417	CB	CB	. GLN GLN GLN B B 280 280 .	0.3750	0.3952	0.3805	-0.0013	-0.0116	-
0.0002	1	.							
5418	CG	CG	. GLN GLN GLN B B 280 280 .	0.4386	0.4201	0.3948	0.0264	-0.0129	-
0.0280	1	.							
5419	CD	CD	. GLN GLN GLN B B 280 280 .	0.4724	0.4902	0.4870	0.0285	-0.0226	-
0.0081	1	.							
5420	OE1	OE1	. GLN GLN GLN B B 280 280 .	0.5562	0.5332	0.5198	0.0537	-0.0234	
0.0239	1	.							
5421	NE2	NE2	. GLN GLN GLN B B 280 280 .	0.5451	0.4692	0.4655	0.0844	-0.0231	-
0.0089	1	.							
5422	C	C	. GLN GLN GLN B B 280 280 .	0.3733	0.4012	0.3978	0.0078	-0.0022	-
0.0108	1	.							
5423	O	O	. GLN GLN GLN B B 280 280 .	0.3698	0.4196	0.4205	0.0001	-0.0030	-
0.0230	1	.							
5424	N	N	. ASP ASP ASP B B 281 281 .	0.3633	0.4167	0.4070	0.0029	0.0020	-
0.0181	1	.							
5425	CA	CA	. ASP ASP ASP B B 281 281 .	0.3926	0.4302	0.4192	0.0056	-0.0051	-
0.0109	1	.							
5426	CB	CB	. ASP ASP ASP B B 281 281 .	0.3865	0.4443	0.4326	0.0043	0.0009	-
0.0210	1	.							
5427	CG	CG	. ASP ASP ASP B B 281 281 .	0.4310	0.5016	0.4842	0.0031	0.0046	-
0.0129	1	.							
5428	OD1	OD1	. ASP ASP ASP B B 281 281 .	0.4838	0.6291	0.5325	0.0166	0.0161	-
0.0296	1	.							
5429	OD2	OD2	. ASP ASP ASP B B 281 281 .	0.4986	0.5233	0.5495	0.0216	0.0425	-
0.0407	1	.							
5430	C	C	. ASP ASP ASP B B 281 281 .	0.3998	0.4328	0.4237	0.0044	-0.0020	-
0.0150	1	.							
5431	O	O	. ASP ASP ASP B B 281 281 .	0.3991	0.4384	0.4248	0.0112	-0.0059	-
0.0276	1	.							
5432	N	N	. PHE PHE PHE B B 282 282 .	0.3729	0.4255	0.4031	0.0142	0.0032	-
0.0097	1	.							
5433	CA	CA	. PHE PHE PHE B B 282 282 .	0.3879	0.4246	0.4043	0.0127	0.0074	-
0.0042	1	.							
5434	CB	CB	. PHE PHE PHE B B 282 282 .	0.4127	0.4066	0.3979	0.0095	0.0103	-
0.0090	1	.							
5435	CG	CG	. PHE PHE PHE B B 282 282 .	0.3929	0.4361	0.3981	0.0177	0.0000	-
0.0025	1	.							
5436	CD1	CD1	. PHE PHE PHE B B 282 282 .	0.4949	0.3890	0.3586	-0.0146	-0.0032	
0.0078	1	.							
5437	CE1	CE1	. PHE PHE PHE B B 282 282 .	0.4222	0.3744	0.3212	-0.0049	-0.0096	
0.0105	1	.							
5438	CZ	CZ	. PHE PHE PHE B B 282 282 .	0.4655	0.4130	0.3901	-0.0012	0.0280	
0.0034	1	.							
5439	CE2	CE2	. PHE PHE PHE B B 282 282 .	0.4548	0.4190	0.4264	-0.0068	0.0333	-
0.0067	1	.							
5440	CD2	CD2	. PHE PHE PHE B B 282 282 .	0.4495	0.4381	0.4300	-0.0141	-0.0008	
0.0100	1	.							
5441	C	C	. PHE PHE PHE B B 282 282 .	0.4132	0.4304	0.4028	0.0238	0.0155	-
0.0036	1	.							
5442	O	O	. PHE PHE PHE B B 282 282 .	0.4139	0.4505	0.4055	0.0439	0.0229	
0.0057	1	.							

5443	N	N	. VAL VAL VAL B B 283 283 .	0.4008	0.4293	0.4000	0.0204	0.0106	
0.0031	1	.							
5444	CA	CA	. VAL VAL VAL B B 283 283 .	0.4108	0.4128	0.4139	0.0052	0.0219	
0.0019	1	.							
5445	CB	CB	. VAL VAL VAL B B 283 283 .	0.4083	0.4107	0.4207	-0.0073	0.0225	-
0.0043	1	.							
5446	CG1	CG1	. VAL VAL VAL B B 283 283 .	0.4337	0.4326	0.3983	-0.0113	0.0193	-
0.0128	1	.							
5447	CG2	CG2	. VAL VAL VAL B B 283 283 .	0.3829	0.3842	0.4186	0.0060	0.0520	
0.0363	1	.							
5448	C	C	. VAL VAL VAL B B 283 283 .	0.4246	0.4210	0.4165	-0.0047	0.0223	
0.0005	1	.							
5449	O	O	. VAL VAL VAL B B 283 283 .	0.4239	0.4107	0.4059	-0.0110	0.0353	-
0.0117	1	.							
5450	N	N	. ARG ARG ARG B B 284 284 .	0.4379	0.4353	0.4294	-0.0078	0.0207	
0.0062	1	.							
5451	CA	CA	. ARG ARG ARG B B 284 284 .	0.4443	0.4280	0.4411	0.0023	0.0141	
0.0071	1	.							
5452	CB	CB	. ARG ARG ARG B B 284 284 .	0.4608	0.4428	0.4490	0.0023	0.0242	
0.0033	1	.							
5453	CG	CG	. ARG ARG ARG B B 284 284 .	0.4530	0.4659	0.4526	-0.0088	0.0237	
0.0163	1	.							
5454	CD	CD	. ARG ARG ARG B B 284 284 .	0.5114	0.4984	0.4870	-0.0183	0.0060	
0.0070	1	.							
5455	NE	NE	. ARG ARG ARG B B 284 284 .	0.5297	0.5279	0.5389	0.0008	0.0033	
0.0327	1	.							
5456	CZ	CZ	. ARG ARG ARG B B 284 284 .	0.5610	0.5712	0.5145	0.0356	0.0160	
0.0111	1	.							
5457	NH1	NH1	. ARG ARG ARG B B 284 284 .	0.5306	0.5590	0.5234	0.0049	0.0456	
0.0079	1	.							
5458	NH2	NH2	. ARG ARG ARG B B 284 284 .	0.6399	0.5755	0.5198	0.0586	0.0127	-
0.0122	1	.							
5459	C	C	. ARG ARG ARG B B 284 284 .	0.4556	0.4245	0.4399	0.0025	0.0038	
0.0093	1	.							
5460	O	O	. ARG ARG ARG B B 284 284 .	0.4876	0.4241	0.4468	0.0180	-0.0011	
0.0249	1	.							
5461	N	N	. ASP ASP ASP B B 285 285 .	0.4390	0.4229	0.4324	0.0050	0.0029	
0.0177	1	.							
5462	CA	CA	. ASP ASP ASP B B 285 285 .	0.4035	0.4214	0.4319	-0.0078	0.0050	
0.0098	1	.							
5463	CB	CB	. ASP ASP ASP B B 285 285 .	0.4294	0.4303	0.4385	-0.0090	0.0002	
0.0000	1	.							
5464	CG	CG	. ASP ASP ASP B B 285 285 .	0.3779	0.4621	0.4575	-0.0195	0.0237	-
0.0277	1	.							
5465	OD1	OD1	. ASP ASP ASP B B 285 285 .	0.3203	0.5045	0.4698	0.0239	0.0330	-
0.0718	1	.							
5466	OD2	OD2	. ASP ASP ASP B B 285 285 .	0.4134	0.4795	0.5915	-0.0253	0.0410	-
0.0523	1	.							
5467	C	C	. ASP ASP ASP B B 285 285 .	0.3844	0.4098	0.4069	0.0017	0.0016	
0.0091	1	.							
5468	O	O	. ASP ASP ASP B B 285 285 .	0.3565	0.3973	0.4151	0.0068	0.0151	
0.0121	1	.							
5469	N	N	. TYR TYR TYR B B 286 286 .	0.3569	0.3885	0.3880	-0.0059	-0.0034	
0.0056	1	.							
5470	CA	CA	. TYR TYR TYR B B 286 286 .	0.3372	0.3755	0.3739	-0.0005	-0.0027	
0.0021	1	.							
5471	CB	CB	. TYR TYR TYR B B 286 286 .	0.3565	0.3649	0.3907	-0.0042	-0.0085	
0.0081	1	.							
5472	CG	CG	. TYR TYR TYR B B 286 286 .	0.3522	0.4034	0.4009	0.0051	-0.0120	-
0.0067	1	.							



5503	CA	CA	. SER SER SER B B 290 290 .	0.3222	0.3305	0.3210	0.0091	-0.0027	
0.0047	1	.							
5504	CB	CB	. SER SER SER B B 290 290 .	0.3493	0.3321	0.3169	0.0229	0.0069	
0.0191	1	.							
5505	OG	OG	. SER SER SER B B 290 290 .	0.3013	0.3384	0.3373	0.0198	0.0194	
0.0260	1	.							
5506	C	C	. SER SER SER B B 290 290 .	0.3206	0.3343	0.3131	0.0113	-0.0098	
0.0018	1	.							
5507	O	O	. SER SER SER B B 290 290 .	0.3311	0.3578	0.3461	0.0079	-0.0202	-
0.0069	1	.							
5508	N	N	. ILE ILE ILE B B 291 291 .	0.2863	0.2992	0.2825	0.0136	-0.0032	-
0.0020	1	.							
5509	CA	CA	. ILE ILE ILE B B 291 291 .	0.2842	0.3077	0.2779	0.0157	-0.0019	-
0.0093	1	.							
5510	CB	CB	. ILE ILE ILE B B 291 291 .	0.2679	0.2794	0.2891	0.0107	0.0063	-
0.0056	1	.							
5511	CG1	CG1	. ILE ILE ILE B B 291 291 .	0.2386	0.3063	0.2943	0.0261	-0.0114	-
0.0056	1	.							
5512	CD1	CD1	. ILE ILE ILE B B 291 291 .	0.0406	0.3071	0.3536	0.0569	-0.0309	
0.0201	1	.							
5513	CG2	CG2	. ILE ILE ILE B B 291 291 .	0.3185	0.2585	0.2132	0.0659	-0.0013	-
0.0344	1	.							
5514	C	C	. ILE ILE ILE B B 291 291 .	0.2821	0.3004	0.2811	0.0201	-0.0032	-
0.0122	1	.							
5515	O	O	. ILE ILE ILE B B 291 291 .	0.2920	0.3020	0.2602	0.0144	-0.0110	-
0.0339	1	.							
5516	N	N	. GLU GLU GLU B B 292 292 .	0.2857	0.3106	0.2928	0.0176	-0.0012	-
0.0114	1	.							
5517	CA	CA	. GLU GLU GLU B B 292 292 .	0.2884	0.3165	0.2833	0.0033	0.0085	-
0.0021	1	.							
5518	CB	CB	. GLU GLU GLU B B 292 292 .	0.2834	0.2931	0.2766	-0.0036	0.0011	
0.0116	1	.							
5519	CG	CG	. GLU GLU GLU B B 292 292 .	0.3076	0.2998	0.2831	0.0257	0.0165	
0.0218	1	.							
5520	CD	CD	. GLU GLU GLU B B 292 292 .	0.3067	0.3427	0.3228	0.0241	0.0088	-
0.0056	1	.							
5521	OE1	OE1	. GLU GLU GLU B B 292 292 .	0.3006	0.3658	0.3705	0.0670	0.0257	-
0.0289	1	.							
5522	OE2	OE2	. GLU GLU GLU B B 292 292 .	0.3179	0.2919	0.2489	-0.0222	0.0213	-
0.0603	1	.							
5523	C	C	. GLU GLU GLU B B 292 292 .	0.2894	0.3049	0.2752	0.0002	0.0091	
0.0067	1	.							
5524	O	O	. GLU GLU GLU B B 292 292 .	0.3021	0.3468	0.2639	0.0070	0.0101	
0.0067	1	.							
5525	N	N	. ASP ASP ASP B B 293 293 .	0.2675	0.3002	0.2684	0.0033	0.0189	
0.0030	1	.							
5526	CA	CA	. ASP ASP ASP B B 293 293 .	0.2676	0.2816	0.2725	-0.0127	0.0108	
0.0009	1	.							
5527	CB	CB	. ASP ASP ASP B B 293 293 .	0.2740	0.2688	0.2773	-0.0083	0.0088	-
0.0021	1	.							
5528	CG	CG	. ASP ASP ASP B B 293 293 .	0.2672	0.2756	0.2716	-0.0112	-0.0154	
0.0024	1	.							
5529	OD1	OD1	. ASP ASP ASP B B 293 293 .	0.2918	0.3435	0.2925	0.0186	-0.0463	
0.0102	1	.							
5530	OD2	OD2	. ASP ASP ASP B B 293 293 .	0.3098	0.3970	0.3141	0.0059	-0.0123	-
0.0504	1	.							
5531	C	C	. ASP ASP ASP B B 293 293 .	0.2726	0.2762	0.2676	-0.0113	0.0059	-
0.0003	1	.							
5532	O	O	. ASP ASP ASP B B 293 293 .	0.2701	0.3023	0.2955	-0.0093	0.0178	
0.0103	1	.							

5533	N	N	. PRO PRO PRO B B 294 294 .	0.2809	0.2765	0.2682	-0.0132	0.0088	
0.0058	1	.							
5534	CA	CA	. PRO PRO PRO B B 294 294 .	0.2798	0.2789	0.2704	-0.0061	0.0015	
0.0001	1	.							
5535	CB	CB	. PRO PRO PRO B B 294 294 .	0.2830	0.2683	0.2598	0.0000	0.0057	-
0.0027	1	.							
5536	CG	CG	. PRO PRO PRO B B 294 294 .	0.3015	0.2728	0.2436	-0.0155	-0.0031	-
0.0024	1	.							
5537	CD	CD	. PRO PRO PRO B B 294 294 .	0.2637	0.2710	0.2598	-0.0235	0.0035	
0.0087	1	.							
5538	C	C	. PRO PRO PRO B B 294 294 .	0.2823	0.2940	0.2711	-0.0132	0.0025	
0.0011	1	.							
5539	O	O	. PRO PRO PRO B B 294 294 .	0.2775	0.3335	0.2974	-0.0175	0.0150	
0.0110	1	.							
5540	N	N	. PHE PHE PHE B B 295 295 .	0.2737	0.2852	0.2511	0.0078	-0.0031	
0.0080	1	.							
5541	CA	CA	. PHE PHE PHE B B 295 295 .	0.2907	0.2921	0.2694	0.0038	-0.0016	
0.0150	1	.							
5542	CB	CB	. PHE PHE PHE B B 295 295 .	0.3138	0.2990	0.2571	0.0037	0.0088	
0.0062	1	.							
5543	CG	CG	. PHE PHE PHE B B 295 295 .	0.3058	0.3136	0.2250	-0.0103	0.0000	
0.0148	1	.							
5544	CD1	CD1	. PHE PHE PHE B B 295 295 .	0.2904	0.3448	0.2533	0.0204	-0.0163	-
0.0107	1	.							
5545	CE1	CE1	. PHE PHE PHE B B 295 295 .	0.2821	0.3544	0.2315	0.0370	-0.0380	
0.0180	1	.							
5546	CZ	CZ	. PHE PHE PHE B B 295 295 .	0.2964	0.3052	0.2612	0.0038	-0.0138	
0.0145	1	.							
5547	CE2	CE2	. PHE PHE PHE B B 295 295 .	0.2881	0.3242	0.2327	0.0130	-0.0496	
0.0075	1	.							
5548	CD2	CD2	. PHE PHE PHE B B 295 295 .	0.2697	0.2908	0.2296	0.0067	-0.0020	
0.0083	1	.							
5549	C	C	. PHE PHE PHE B B 295 295 .	0.3009	0.2927	0.2802	0.0044	0.0032	
0.0110	1	.							
5550	O	O	. PHE PHE PHE B B 295 295 .	0.2998	0.2883	0.3267	0.0311	0.0057	
0.0249	1	.							
5551	N	N	. ASP ASP ASP B B 296 296 .	0.2927	0.3136	0.2969	-0.0016	-0.0051	
0.0012	1	.							
5552	CA	CA	. ASP ASP ASP B B 296 296 .	0.3086	0.3131	0.3051	0.0010	-0.0073	-
0.0014	1	.							
5553	CB	CB	. ASP ASP ASP B B 296 296 .	0.2967	0.3236	0.3071	-0.0079	-0.0130	
0.0008	1	.							
5554	CG	CG	. ASP ASP ASP B B 296 296 .	0.3417	0.3144	0.3308	0.0238	-0.0205	-
0.0135	1	.							
5555	OD1	OD1	. ASP ASP ASP B B 296 296 .	0.3572	0.3331	0.3624	0.0881	-0.0319	-
0.0531	1	.							
5556	OD2	OD2	. ASP ASP ASP B B 296 296 .	0.3536	0.3914	0.3704	0.0181	-0.0277	-
0.0079	1	.							
5557	C	C	. ASP ASP ASP B B 296 296 .	0.3125	0.3228	0.2996	-0.0159	-0.0060	-
0.0019	1	.							
5558	O	O	. ASP ASP ASP B B 296 296 .	0.3368	0.3520	0.3261	-0.0197	-0.0070	
0.0106	1	.							
5559	N	N	. GLN GLN GLN B B 297 297 .	0.3117	0.3276	0.3114	-0.0099	-0.0039	-
0.0103	1	.							
5560	CA	CA	. GLN GLN GLN B B 297 297 .	0.3330	0.3207	0.3040	-0.0169	0.0037	-
0.0130	1	.							
5561	CB	CB	. GLN GLN GLN B B 297 297 .	0.3471	0.3130	0.3060	-0.0140	0.0246	-
0.0036	1	.							
5562	CG	CG	. GLN GLN GLN B B 297 297 .	0.3180	0.3267	0.2736	-0.0451	0.0195	-
0.0208	1	.							







5623	CA	CA	. SER SER SER B B 304 304 .	0.3693	0.3500	0.3575	0.0079	-0.0010	
0.0118	1	.							
5624	CB	CB	. SER SER SER B B 304 304 .	0.3581	0.3368	0.3680	0.0163	0.0006	
0.0186	1	.							
5625	OG	OG	. SER SER SER B B 304 304 .	0.4028	0.3337	0.4013	0.0278	0.0044	
0.0005	1	.							
5626	C	C	. SER SER SER B B 304 304 .	0.3828	0.3570	0.3538	0.0056	0.0021	
0.0080	1	.							
5627	O	O	. SER SER SER B B 304 304 .	0.4128	0.3741	0.3275	0.0092	0.0055	
0.0195	1	.							
5628	N	N	. LYS LYS LYS B B 305 305 .	0.3826	0.3791	0.3626	0.0078	0.0036	
0.0126	1	.							
5629	CA	CA	. LYS LYS LYS B B 305 305 .	0.3811	0.3962	0.3856	0.0072	0.0078	
0.0035	1	.							
5630	CB	CB	. LYS LYS LYS B B 305 305 .	0.4029	0.4078	0.4177	0.0057	0.0134	
0.0025	1	.							
5631	CG	CG	. LYS LYS LYS B B 305 305 .	0.4070	0.4606	0.4744	0.0018	0.0398	
0.0064	1	.							
5632	CD	CD	. LYS LYS LYS B B 305 305 .	0.4785	0.5043	0.5454	-0.0458	0.0229	
0.0089	1	.							
5633	CE	CE	. LYS LYS LYS B B 305 305 .	0.5482	0.5384	0.6016	-0.0687	0.0461	
0.0410	1	.							
5634	NZ	NZ	. LYS LYS LYS B B 305 305 .	0.6600	0.5950	0.7146	-0.0836	0.0663	
0.0629	1	.							
5635	C	C	. LYS LYS LYS B B 305 305 .	0.4015	0.3915	0.3671	0.0034	0.0064	
0.0008	1	.							
5636	O	O	. LYS LYS LYS B B 305 305 .	0.4071	0.3985	0.3375	-0.0039	0.0143	-
0.0063	1	.							
5637	N	N	. PHE PHE PHE B B 306 306 .	0.3936	0.3961	0.3587	0.0097	0.0020	-
0.0028	1	.							
5638	CA	CA	. PHE PHE PHE B B 306 306 .	0.3721	0.3802	0.3471	0.0085	-0.0027	-
0.0040	1	.							
5639	CB	CB	. PHE PHE PHE B B 306 306 .	0.3662	0.3824	0.3521	0.0017	-0.0074	-
0.0089	1	.							
5640	CG	CG	. PHE PHE PHE B B 306 306 .	0.3584	0.3787	0.3680	0.0162	0.0052	-
0.0251	1	.							
5641	CD1	CD1	. PHE PHE PHE B B 306 306 .	0.3675	0.4189	0.3874	0.0462	0.0153	-
0.0430	1	.							
5642	CE1	CE1	. PHE PHE PHE B B 306 306 .	0.3248	0.4311	0.4034	0.0516	0.0442	-
0.0148	1	.							
5643	CZ	CZ	. PHE PHE PHE B B 306 306 .	0.3781	0.4298	0.4384	0.0184	0.0405	-
0.0186	1	.							
5644	CE2	CE2	. PHE PHE PHE B B 306 306 .	0.3668	0.4393	0.4554	0.0560	0.0202	-
0.0296	1	.							
5645	CD2	CD2	. PHE PHE PHE B B 306 306 .	0.3717	0.3806	0.3839	0.0224	0.0069	-
0.0274	1	.							
5646	C	C	. PHE PHE PHE B B 306 306 .	0.3610	0.3788	0.3331	0.0130	-0.0119	-
0.0098	1	.							
5647	O	O	. PHE PHE PHE B B 306 306 .	0.3578	0.3800	0.3493	0.0237	-0.0151	-
0.0163	1	.							
5648	N	N	. THR THR THR B B 307 307 .	0.3433	0.3658	0.3195	0.0019	-0.0018	-
0.0015	1	.							
5649	CA	CA	. THR THR THR B B 307 307 .	0.3649	0.3623	0.3422	-0.0026	0.0044	-
0.0007	1	.							
5650	CB	CB	. THR THR THR B B 307 307 .	0.3534	0.3632	0.3545	0.0015	-0.0059	-
0.0034	1	.							
5651	OG1	OG1	. THR THR THR B B 307 307 .	0.3422	0.3362	0.3669	-0.0221	0.0223	-
0.0193	1	.							
5652	CG2	CG2	. THR THR THR B B 307 307 .	0.3690	0.3503	0.3873	0.0002	-0.0186	-
0.0019	1	.							

5653	C	C	. THR THR THR B B 307 307 .	0.3681	0.3750	0.3571	-0.0005	0.0021	
0.0061	1	.							
5654	O	O	. THR THR THR B B 307 307 .	0.3871	0.3706	0.3351	-0.0163	0.0045	
0.0000	1	.							
5655	N	N	. ALA ALA ALA B B 308 308 .	0.3493	0.3855	0.3666	0.0036	0.0041	
0.0143	1	.							
5656	CA	CA	. ALA ALA ALA B B 308 308 .	0.3554	0.3847	0.3705	0.0150	0.0230	
0.0094	1	.							
5657	CB	CB	. ALA ALA ALA B B 308 308 .	0.3702	0.4062	0.3799	0.0171	0.0246	
0.0113	1	.							
5658	C	C	. ALA ALA ALA B B 308 308 .	0.3696	0.3924	0.3801	0.0131	0.0176	
0.0080	1	.							
5659	O	O	. ALA ALA ALA B B 308 308 .	0.3527	0.4362	0.4003	0.0253	0.0305	
0.0097	1	.							
5660	N	N	. ASN ASN ASN B B 309 309 .	0.3590	0.3719	0.3547	0.0074	0.0038	
0.0099	1	.							
5661	CA	CA	. ASN ASN ASN B B 309 309 .	0.3874	0.3938	0.3649	0.0073	0.0075	
0.0144	1	.							
5662	CB	CB	. ASN ASN ASN B B 309 309 .	0.4253	0.4187	0.3895	0.0099	0.0195	
0.0162	1	.							
5663	CG	CG	. ASN ASN ASN B B 309 309 .	0.5046	0.5254	0.4906	0.0366	0.0364	
0.0627	1	.							
5664	OD1	OD1	. ASN ASN ASN B B 309 309 .	0.5504	0.6953	0.6562	0.0619	0.0667	
0.0768	1	.							
5665	ND2	ND2	. ASN ASN ASN B B 309 309 .	0.5246	0.5428	0.5621	0.0730	-0.0049	
0.1128	1	.							
5666	C	C	. ASN ASN ASN B B 309 309 .	0.3745	0.3726	0.3491	0.0023	0.0094	
0.0137	1	.							
5667	O	O	. ASN ASN ASN B B 309 309 .	0.3820	0.3703	0.3369	0.0014	0.0098	
0.0232	1	.							
5668	N	N	. VAL VAL VAL B B 310 310 .	0.3629	0.3777	0.3513	0.0022	-0.0007	
0.0090	1	.							
5669	CA	CA	. VAL VAL VAL B B 310 310 .	0.3599	0.3732	0.3193	-0.0109	-0.0045	
0.0058	1	.							
5670	CB	CB	. VAL VAL VAL B B 310 310 .	0.3612	0.3752	0.3293	-0.0187	-0.0059	
0.0154	1	.							
5671	CG1	CG1	. VAL VAL VAL B B 310 310 .	0.3991	0.4063	0.3146	-0.0284	-0.0471	
0.0019	1	.							
5672	CG2	CG2	. VAL VAL VAL B B 310 310 .	0.3989	0.3449	0.2921	0.0190	-0.0189	
0.0025	1	.							
5673	C	C	. VAL VAL VAL B B 310 310 .	0.3556	0.3784	0.3079	-0.0060	-0.0070	-
0.0029	1	.							
5674	O	O	. VAL VAL VAL B B 310 310 .	0.3275	0.4118	0.2850	-0.0053	-0.0247	-
0.0016	1	.							
5675	N	N	. GLY GLY GLY B B 311 311 .	0.3510	0.3688	0.2910	-0.0064	0.0012	-
0.0069	1	.							
5676	CA	CA	. GLY GLY GLY B B 311 311 .	0.3622	0.3777	0.3092	-0.0223	-0.0028	
0.0000	1	.							
5677	C	C	. GLY GLY GLY B B 311 311 .	0.3578	0.3768	0.3151	-0.0240	-0.0061	
0.0034	1	.							
5678	O	O	. GLY GLY GLY B B 311 311 .	0.3719	0.3867	0.3167	-0.0327	-0.0132	
0.0016	1	.							
5679	N	N	. ILE ILE ILE B B 312 312 .	0.3479	0.3602	0.3148	-0.0133	-0.0082	
0.0027	1	.							
5680	CA	CA	. ILE ILE ILE B B 312 312 .	0.3316	0.3474	0.3178	-0.0041	-0.0077	
0.0000	1	.							
5681	CB	CB	. ILE ILE ILE B B 312 312 .	0.3296	0.3405	0.3123	-0.0027	-0.0108	-
0.0080	1	.							
5682	CG1	CG1	. ILE ILE ILE B B 312 312 .	0.3177	0.3641	0.3392	-0.0122	-0.0141	-
0.0349	1	.							



5713	C	C	. GLY GLY GLY B B 316 316 .	0.3184	0.3161	0.2883	0.0022	-0.0126	
0.0121	1	.							
5714	O	O	. GLY GLY GLY B B 316 316 .	0.3313	0.3161	0.2522	0.0024	0.0021	
0.0217	1	.							
5715	N	N	. ASP ASP ASP B B 317 317 .	0.3046	0.3124	0.2776	0.0113	-0.0185	
0.0082	1	.							
5716	CA	CA	. ASP ASP ASP B B 317 317 .	0.2817	0.3055	0.2746	0.0062	-0.0099	
0.0077	1	.							
5717	CB	CB	. ASP ASP ASP B B 317 317 .	0.2999	0.3062	0.2595	0.0059	-0.0131	
0.0029	1	.							
5718	CG	CG	. ASP ASP ASP B B 317 317 .	0.2246	0.2967	0.2499	0.0096	-0.0127	
0.0016	1	.							
5719	OD1	OD1	. ASP ASP ASP B B 317 317 .	0.1210	0.2629	0.1797	0.0259	-0.0296	-
0.0220	1	.							
5720	OD2	OD2	. ASP ASP ASP B B 317 317 .	0.1400	0.1960	0.2174	0.0067	0.0307	
0.0047	1	.							
5721	C	C	. ASP ASP ASP B B 317 317 .	0.2791	0.3115	0.2574	0.0044	-0.0021	
0.0099	1	.							
5722	O	O	. ASP ASP ASP B B 317 317 .	0.2614	0.3498	0.2730	-0.0103	0.0053	
0.0217	1	.							
5723	N	N	. ASP ASP ASP B B 318 318 .	0.2785	0.3078	0.2633	-0.0014	0.0041	
0.0135	1	.							
5724	CA	CA	. ASP ASP ASP B B 318 318 .	0.2954	0.3050	0.2913	0.0030	0.0059	
0.0115	1	.							
5725	CB	CB	. ASP ASP ASP B B 318 318 .	0.2942	0.2956	0.2757	-0.0156	0.0024	
0.0068	1	.							
5726	CG	CG	. ASP ASP ASP B B 318 318 .	0.3136	0.3054	0.3487	-0.0147	0.0050	
0.0112	1	.							
5727	OD1	OD1	. ASP ASP ASP B B 318 318 .	0.3067	0.3018	0.2693	-0.0522	0.0452	-
0.0644	1	.							
5728	OD2	OD2	. ASP ASP ASP B B 318 318 .	0.3724	0.3412	0.4114	-0.0139	-0.0293	
0.0173	1	.							
5729	C	C	. ASP ASP ASP B B 318 318 .	0.3152	0.3168	0.3053	0.0132	0.0060	
0.0078	1	.							
5730	O	O	. ASP ASP ASP B B 318 318 .	0.3623	0.3474	0.3226	0.0139	0.0143	
0.0207	1	.							
5731	N	N	. LEU LEU LEU B B 319 319 .	0.3100	0.3256	0.3297	0.0162	0.0045	
0.0080	1	.							
5732	CA	CA	. LEU LEU LEU B B 319 319 .	0.3230	0.3304	0.3270	0.0076	-0.0074	
0.0055	1	.							
5733	CB	CB	. LEU LEU LEU B B 319 319 .	0.3262	0.3377	0.3163	0.0007	-0.0125	
0.0239	1	.							
5734	CG	CG	. LEU LEU LEU B B 319 319 .	0.3643	0.3133	0.3041	0.0013	-0.0429	
0.0101	1	.							
5735	CD1	CD1	. LEU LEU LEU B B 319 319 .	0.3294	0.2872	0.2218	-0.0281	-0.0684	
0.0379	1	.							
5736	CD2	CD2	. LEU LEU LEU B B 319 319 .	0.4138	0.2509	0.3045	0.0253	-0.1205	
0.0231	1	.							
5737	C	C	. LEU LEU LEU B B 319 319 .	0.3170	0.3391	0.3523	0.0004	-0.0011	
0.0091	1	.							
5738	O	O	. LEU LEU LEU B B 319 319 .	0.3195	0.3754	0.3511	-0.0096	-0.0038	
0.0018	1	.							
5739	N	N	. THR THR THR B B 320 320 .	0.3256	0.3517	0.3655	0.0038	-0.0002	-
0.0062	1	.							
5740	CA	CA	. THR THR THR B B 320 320 .	0.3294	0.3562	0.3462	0.0013	-0.0055	-
0.0146	1	.							
5741	CB	CB	. THR THR THR B B 320 320 .	0.3368	0.3576	0.3420	0.0114	-0.0112	-
0.0124	1	.							
5742	OG1	OG1	. THR THR THR B B 320 320 .	0.4333	0.3695	0.3320	0.0341	0.0023	-
0.0224	1	.							



5773	C	C	. PRO PRO PRO B B 324 324 .	0.4206	0.4492	0.4493	-0.0085	0.0004	-
0.0022	1	.							
5774	O	O	. PRO PRO PRO B B 324 324 .	0.4075	0.4554	0.4346	-0.0001	-0.0142	-
0.0101	1	.							
5775	N	N	. LYS LYS LYS B B 325 325 .	0.4415	0.4736	0.4644	-0.0020	0.0034	-
0.0006	1	.							
5776	CA	CA	. LYS LYS LYS B B 325 325 .	0.4495	0.4864	0.4896	-0.0006	0.0067	-
0.0008	1	.							
5777	CB	CB	. LYS LYS LYS B B 325 325 .	0.4567	0.4920	0.5124	0.0078	0.0011	-
0.0038	1	.							
5778	CG	CG	. LYS LYS LYS B B 325 325 .	0.5038	0.5728	0.5920	0.0034	0.0192	-
0.0131	1	.							
5779	CD	CD	. LYS LYS LYS B B 325 325 .	0.5479	0.6125	0.6332	0.0169	0.0356	-
0.0453	1	.							
5780	CE	CE	. LYS LYS LYS B B 325 325 .	0.5782	0.6704	0.6551	-0.0048	0.0415	-
0.0204	1	.							
5781	NZ	NZ	. LYS LYS LYS B B 325 325 .	0.5689	0.7044	0.6940	-0.0504	0.0083	-
0.0519	1	.							
5782	C	C	. LYS LYS LYS B B 325 325 .	0.4477	0.4827	0.4631	0.0001	0.0096	-
0.0070	1	.							
5783	O	O	. LYS LYS LYS B B 325 325 .	0.4645	0.5021	0.4776	0.0095	0.0044	-
0.0127	1	.							
5784	N	N	. ARG ARG ARG B B 326 326 .	0.4201	0.4532	0.4349	0.0033	0.0125	-
0.0086	1	.							
5785	CA	CA	. ARG ARG ARG B B 326 326 .	0.4155	0.4382	0.4155	-0.0028	0.0052	-
0.0049	1	.							
5786	CB	CB	. ARG ARG ARG B B 326 326 .	0.4049	0.4275	0.4004	-0.0021	0.0142	-
0.0036	1	.							
5787	CG	CG	. ARG ARG ARG B B 326 326 .	0.3965	0.4152	0.3983	-0.0155	0.0322	-
0.0007	1	.							
5788	CD	CD	. ARG ARG ARG B B 326 326 .	0.3981	0.3825	0.4075	-0.0019	0.0428	-
0.0673	1	.							
5789	NE	NE	. ARG ARG ARG B B 326 326 .	0.3658	0.3840	0.3926	0.0279	0.0066	-
0.0309	1	.							
5790	CZ	CZ	. ARG ARG ARG B B 326 326 .	0.3650	0.3808	0.3954	0.0533	0.0206	-
0.0371	1	.							
5791	NH1	NH1	. ARG ARG ARG B B 326 326 .	0.3267	0.3857	0.3569	0.0682	-0.0117	-
0.0405	1	.							
5792	NH2	NH2	. ARG ARG ARG B B 326 326 .	0.3342	0.3980	0.3469	0.0942	0.0069	-
0.0453	1	.							
5793	C	C	. ARG ARG ARG B B 326 326 .	0.3967	0.4236	0.4065	0.0055	0.0048	-
0.0161	1	.							
5794	O	O	. ARG ARG ARG B B 326 326 .	0.4046	0.4223	0.4133	0.0001	-0.0038	-
0.0300	1	.							
5795	N	N	. ILE ILE ILE B B 327 327 .	0.3946	0.4071	0.3814	-0.0005	-0.0020	-
0.0149	1	.							
5796	CA	CA	. ILE ILE ILE B B 327 327 .	0.3900	0.4070	0.3861	-0.0021	-0.0058	-
0.0180	1	.							
5797	CB	CB	. ILE ILE ILE B B 327 327 .	0.3769	0.3938	0.3687	0.0098	0.0000	-
0.0300	1	.							
5798	CG1	CG1	. ILE ILE ILE B B 327 327 .	0.3760	0.4031	0.3633	-0.0293	-0.0136	-
0.0172	1	.							
5799	CD1	CD1	. ILE ILE ILE B B 327 327 .	0.3583	0.3432	0.2848	-0.0473	-0.0872	-
0.0315	1	.							
5800	CG2	CG2	. ILE ILE ILE B B 327 327 .	0.4049	0.3955	0.3779	0.0026	-0.0105	-
0.0534	1	.							
5801	C	C	. ILE ILE ILE B B 327 327 .	0.3967	0.4081	0.3897	0.0027	-0.0092	-
0.0199	1	.							
5802	O	O	. ILE ILE ILE B B 327 327 .	0.3941	0.4108	0.3610	0.0096	-0.0439	-
0.0266	1	.							

5803	N	N	. GLU GLU GLU B B 328 328 .	0.4086	0.4229	0.4191	0.0053	-0.0091	
0.0149	1	.							
5804	CA	CA	. GLU GLU GLU B B 328 328 .	0.4266	0.4497	0.4509	0.0116	-0.0017	
0.0086	1	.							
5805	CB	CB	. GLU GLU GLU B B 328 328 .	0.4314	0.4799	0.4809	0.0088	-0.0009	-
0.0014	1	.							
5806	CG	CG	. GLU GLU GLU B B 328 328 .	0.5422	0.5631	0.5522	-0.0137	0.0075	
0.0277	1	.							
5807	CD	CD	. GLU GLU GLU B B 328 328 .	0.6202	0.6777	0.6374	-0.0079	-0.0146	
0.0172	1	.							
5808	OE1	OE1	. GLU GLU GLU B B 328 328 .	0.7387	0.7933	0.6770	0.0233	0.0115	
0.0215	1	.							
5809	OE2	OE2	. GLU GLU GLU B B 328 328 .	0.5853	0.6899	0.7007	0.0230	-0.0084	
0.0623	1	.							
5810	C	C	. GLU GLU GLU B B 328 328 .	0.4047	0.4409	0.4430	0.0225	-0.0016	
0.0051	1	.							
5811	O	O	. GLU GLU GLU B B 328 328 .	0.3845	0.4412	0.4389	0.0340	-0.0086	
0.0058	1	.							
5812	N	N	. ARG ARG ARG B B 329 329 .	0.3897	0.4259	0.4382	0.0294	-0.0032	
0.0056	1	.							
5813	CA	CA	. ARG ARG ARG B B 329 329 .	0.4003	0.4221	0.4342	0.0213	-0.0023	
0.0058	1	.							
5814	CB	CB	. ARG ARG ARG B B 329 329 .	0.4294	0.4301	0.4393	0.0108	-0.0043	
0.0085	1	.							
5815	CG	CG	. ARG ARG ARG B B 329 329 .	0.3843	0.4427	0.4401	0.0001	0.0269	
0.0007	1	.							
5816	CD	CD	. ARG ARG ARG B B 329 329 .	0.3828	0.4538	0.4710	-0.0366	0.0278	-
0.0034	1	.							
5817	NE	NE	. ARG ARG ARG B B 329 329 .	0.4763	0.4224	0.4595	-0.0182	0.0417	
0.0013	1	.							
5818	CZ	CZ	. ARG ARG ARG B B 329 329 .	0.4287	0.4374	0.4192	-0.0300	0.0198	
0.0044	1	.							
5819	NH1	NH1	. ARG ARG ARG B B 329 329 .	0.4436	0.4358	0.4003	0.0066	-0.0145	
0.0297	1	.							
5820	NH2	NH2	. ARG ARG ARG B B 329 329 .	0.3561	0.4551	0.3819	0.0291	0.0261	
0.0109	1	.							
5821	C	C	. ARG ARG ARG B B 329 329 .	0.4011	0.4377	0.4302	0.0228	-0.0046	
0.0114	1	.							
5822	O	O	. ARG ARG ARG B B 329 329 .	0.3757	0.4493	0.4297	0.0259	-0.0163	
0.0209	1	.							
5823	N	N	. ALA ALA ALA B B 330 330 .	0.4009	0.4261	0.4161	0.0298	-0.0089	
0.0107	1	.							
5824	CA	CA	. ALA ALA ALA B B 330 330 .	0.4012	0.4181	0.4079	0.0172	-0.0101	
0.0088	1	.							
5825	CB	CB	. ALA ALA ALA B B 330 330 .	0.3858	0.3972	0.3974	0.0277	-0.0182	
0.0061	1	.							
5826	C	C	. ALA ALA ALA B B 330 330 .	0.4097	0.4190	0.4072	0.0119	-0.0049	
0.0113	1	.							
5827	O	O	. ALA ALA ALA B B 330 330 .	0.3900	0.4061	0.3926	0.0031	0.0011	
0.0216	1	.							
5828	N	N	. VAL VAL VAL B B 331 331 .	0.4112	0.4401	0.4171	-0.0003	-0.0087	
0.0091	1	.							
5829	CA	CA	. VAL VAL VAL B B 331 331 .	0.4341	0.4505	0.4291	-0.0103	-0.0051	
0.0055	1	.							
5830	CB	CB	. VAL VAL VAL B B 331 331 .	0.4447	0.4568	0.4266	-0.0116	-0.0105	
0.0059	1	.							
5831	CG1	CG1	. VAL VAL VAL B B 331 331 .	0.4470	0.4765	0.4551	-0.0295	-0.0269	
0.0155	1	.							
5832	CG2	CG2	. VAL VAL VAL B B 331 331 .	0.4269	0.4509	0.4608	-0.0183	-0.0217	
0.0062	1	.							



5833	C	C	. VAL VAL VAL B B 331 331 .	0.4411	0.4640	0.4301	-0.0019	-0.0048	
0.0027	1	.							
5834	O	O	. VAL VAL VAL B B 331 331 .	0.4759	0.4865	0.4208	-0.0017	-0.0060	-
0.0001	1	.							
5835	N	N	. GLU GLU GLU B B 332 332 .	0.4364	0.4491	0.4315	-0.0045	-0.0024	
0.0016	1	.							
5836	CA	CA	. GLU GLU GLU B B 332 332 .	0.4358	0.4610	0.4389	-0.0094	0.0023	
0.0088	1	.							
5837	CB	CB	. GLU GLU GLU B B 332 332 .	0.4366	0.4722	0.4565	-0.0092	0.0068	
0.0152	1	.							
5838	CG	CG	. GLU GLU GLU B B 332 332 .	0.5433	0.5742	0.5481	0.0090	0.0058	
0.0465	1	.							
5839	CD	CD	. GLU GLU GLU B B 332 332 .	0.6542	0.6530	0.6728	-0.0373	-0.0189	
0.0385	1	.							
5840	OE1	OE1	. GLU GLU GLU B B 332 332 .	0.7140	0.7545	0.7344	-0.0280	-0.0440	
0.0257	1	.							
5841	OE2	OE2	. GLU GLU GLU B B 332 332 .	0.6783	0.6997	0.7088	0.0090	-0.0455	
0.0653	1	.							
5842	C	C	. GLU GLU GLU B B 332 332 .	0.4230	0.4444	0.4186	-0.0026	-0.0008	
0.0032	1	.							
5843	O	O	. GLU GLU GLU B B 332 332 .	0.4163	0.4517	0.4515	-0.0051	-0.0006	-
0.0013	1	.							
5844	N	N	. GLU GLU GLU B B 333 333 .	0.4074	0.4275	0.3890	-0.0030	-0.0065	
0.0066	1	.							
5845	CA	CA	. GLU GLU GLU B B 333 333 .	0.4213	0.4041	0.3708	-0.0008	-0.0099	
0.0098	1	.							
5846	CB	CB	. GLU GLU GLU B B 333 333 .	0.4522	0.4080	0.3731	-0.0031	-0.0008	
0.0091	1	.							
5847	CG	CG	. GLU GLU GLU B B 333 333 .	0.4789	0.4226	0.4233	0.0144	0.0069	-
0.0076	1	.							
5848	CD	CD	. GLU GLU GLU B B 333 333 .	0.4521	0.4499	0.4691	-0.0152	-0.0004	-
0.0033	1	.							
5849	OE1	OE1	. GLU GLU GLU B B 333 333 .	0.4765	0.4357	0.4351	-0.0020	0.0255	
0.0259	1	.							
5850	OE2	OE2	. GLU GLU GLU B B 333 333 .	0.4008	0.4931	0.5247	0.0324	0.0030	
0.0194	1	.							
5851	C	C	. GLU GLU GLU B B 333 333 .	0.4051	0.3973	0.3442	-0.0017	-0.0110	
0.0051	1	.							
5852	O	O	. GLU GLU GLU B B 333 333 .	0.4089	0.4219	0.3203	0.0123	-0.0187	
0.0264	1	.							
5853	N	N	. LYS LYS LYS B B 334 334 .	0.4040	0.3931	0.3416	0.0025	-0.0186	-
0.0017	1	.							
5854	CA	CA	. LYS LYS LYS B B 334 334 .	0.3882	0.3829	0.3665	-0.0052	-0.0136	-
0.0043	1	.							
5855	CB	CB	. LYS LYS LYS B B 334 334 .	0.4013	0.3867	0.3614	-0.0100	-0.0144	
0.0026	1	.							
5856	CG	CG	. LYS LYS LYS B B 334 334 .	0.4449	0.4385	0.4265	-0.0039	-0.0236	-
0.0241	1	.							
5857	CD	CD	. LYS LYS LYS B B 334 334 .	0.4544	0.5809	0.4892	0.0098	0.0096	-
0.0134	1	.							
5858	CE	CE	. LYS LYS LYS B B 334 334 .	0.4863	0.6310	0.5635	0.0000	-0.0108	-
0.0440	1	.							
5859	NZ	NZ	. LYS LYS LYS B B 334 334 .	0.4265	0.6526	0.6460	0.0161	-0.0228	
0.0042	1	.							
5860	C	C	. LYS LYS LYS B B 334 334 .	0.3783	0.3623	0.3564	-0.0085	-0.0107	-
0.0019	1	.							
5861	O	O	. LYS LYS LYS B B 334 334 .	0.3558	0.3596	0.3578	-0.0386	-0.0114	
0.0072	1	.							
5862	N	N	. ALA ALA ALA B B 335 335 .	0.3720	0.3528	0.3659	-0.0103	-0.0104	
0.0029	1	.							

5863	CA	CA	. ALA ALA ALA B B 335 335 .	0.3677	0.3671	0.3553	-0.0004	-0.0100	-
0.0087	1	.							
5864	CB	CB	. ALA ALA ALA B B 335 335 .	0.3722	0.3775	0.3821	0.0085	-0.0039	-
0.0098	1	.							
5865	C	C	. ALA ALA ALA B B 335 335 .	0.3578	0.3589	0.3471	-0.0060	-0.0043	-
0.0045	1	.							
5866	O	O	. ALA ALA ALA B B 335 335 .	0.3273	0.3618	0.3233	-0.0256	-0.0009	-
0.0167	1	.							
5867	N	N	. CYS CYS CYS B B 336 336 .	0.3485	0.3723	0.3468	-0.0068	-0.0048	-
0.0037	1	.							
5868	CA	CA	. CYS CYS CYS B B 336 336 .	0.3581	0.3710	0.3549	-0.0030	-0.0027	-
0.0132	1	.							
5869	CB	CB	. CYS CYS CYS B B 336 336 .	0.3463	0.3638	0.3332	-0.0119	0.0035	-
0.0218	1	.							
5870	SG	SG	. CYS CYS CYS B B 336 336 .	0.4020	0.4442	0.3616	0.0399	-0.0097	-
0.0368	1	.							
5871	C	C	. CYS CYS CYS B B 336 336 .	0.3528	0.3687	0.3618	0.0033	-0.0103	-
0.0036	1	.							
5872	O	O	. CYS CYS CYS B B 336 336 .	0.3992	0.4124	0.3999	0.0062	-0.0192	-
0.0047	1	.							
5873	N	N	. ASN ASN ASN B B 337 337 .	0.3276	0.3546	0.3648	0.0007	-0.0019	-
0.0021	1	.							
5874	CA	CA	. ASN ASN ASN B B 337 337 .	0.3312	0.3445	0.3372	0.0012	-0.0037	-
0.0011	1	.							
5875	CB	CB	. ASN ASN ASN B B 337 337 .	0.2943	0.3212	0.3202	-0.0001	-0.0115	-
0.0018	1	.							
5876	CG	CG	. ASN ASN ASN B B 337 337 .	0.3216	0.3233	0.3196	0.0080	0.0024	-
0.0035	1	.							
5877	OD1	OD1	. ASN ASN ASN B B 337 337 .	0.3030	0.2971	0.2926	0.0469	-0.0680	-
0.0067	1	.							
5878	ND2	ND2	. ASN ASN ASN B B 337 337 .	0.2826	0.3210	0.3346	-0.0057	0.0026	-
0.0553	1	.							
5879	C	C	. ASN ASN ASN B B 337 337 .	0.3236	0.3326	0.3284	0.0051	-0.0075	-
0.0030	1	.							
5880	O	O	. ASN ASN ASN B B 337 337 .	0.3199	0.3200	0.3181	0.0264	-0.0033	-
0.0032	1	.							
5881	N	N	. CYS CYS CYS B B 338 338 .	0.3406	0.3399	0.3377	0.0135	0.0026	-
0.0120	1	.							
5882	CA	CA	. CYS CYS CYS B B 338 338 .	0.3481	0.3663	0.3374	0.0100	0.0024	-
0.0034	1	.							
5883	CB	CB	. CYS CYS CYS B B 338 338 .	0.3695	0.3573	0.3335	0.0171	-0.0002	-
0.0002	1	.							
5884	SG	SG	. CYS CYS CYS B B 338 338 .	0.3968	0.4039	0.4008	0.0342	-0.0093	-
0.0278	1	.							
5885	C	C	. CYS CYS CYS B B 338 338 .	0.3496	0.3543	0.3416	-0.0045	-0.0036	-
0.0055	1	.							
5886	O	O	. CYS CYS CYS B B 338 338 .	0.3683	0.3434	0.3328	-0.0236	-0.0073	-
0.0051	1	.							
5887	N	N	. LEU LEU LEU B B 339 339 .	0.3146	0.3538	0.3261	0.0048	0.0063	-
0.0106	1	.							
5888	CA	CA	. LEU LEU LEU B B 339 339 .	0.3088	0.3410	0.3378	-0.0056	-0.0037	-
0.0019	1	.							
5889	CB	CB	. LEU LEU LEU B B 339 339 .	0.2980	0.3520	0.3362	0.0067	0.0014	-
0.0107	1	.							
5890	CG	CG	. LEU LEU LEU B B 339 339 .	0.2696	0.3366	0.3242	-0.0306	0.0100	-
0.0054	1	.							
5891	CD1	CD1	. LEU LEU LEU B B 339 339 .	0.2623	0.3279	0.3349	-0.0391	-0.0339	-
0.0123	1	.							
5892	CD2	CD2	. LEU LEU LEU B B 339 339 .	0.2730	0.2901	0.2747	-0.0507	0.0441	-
0.0093	1	.							

5893	C	C	. LEU LEU LEU B B 339 339 .	0.3220	0.3542	0.3386	-0.0061	-0.0097	-
0.0037	1	.							
5894	O	O	. LEU LEU LEU B B 339 339 .	0.3033	0.3508	0.3414	0.0012	-0.0260	
0.0013	1	.							
5895	N	N	. LEU LEU LEU B B 340 340 .	0.3397	0.3712	0.3343	-0.0156	-0.0030	-
0.0013	1	.							
5896	CA	CA	. LEU LEU LEU B B 340 340 .	0.3444	0.3589	0.3277	-0.0078	0.0020	
0.0062	1	.							
5897	CB	CB	. LEU LEU LEU B B 340 340 .	0.3106	0.3568	0.3062	-0.0196	-0.0111	
0.0094	1	.							
5898	CG	CG	. LEU LEU LEU B B 340 340 .	0.3660	0.3335	0.3335	0.0137	-0.0199	-
0.0251	1	.							
5899	CD1	CD1	. LEU LEU LEU B B 340 340 .	0.4511	0.3211	0.2319	0.0278	-0.0151	-
0.1158	1	.							
5900	CD2	CD2	. LEU LEU LEU B B 340 340 .	0.3288	0.3292	0.2849	0.0522	-0.0812	
0.0212	1	.							
5901	C	C	. LEU LEU LEU B B 340 340 .	0.3328	0.3491	0.3272	-0.0031	0.0126	
0.0017	1	.							
5902	O	O	. LEU LEU LEU B B 340 340 .	0.3370	0.3551	0.3347	0.0093	0.0317	-
0.0025	1	.							
5903	N	N	. LEU LEU LEU B B 341 341 .	0.3441	0.3505	0.3175	-0.0055	0.0152	
0.0032	1	.							
5904	CA	CA	. LEU LEU LEU B B 341 341 .	0.3265	0.3415	0.3309	0.0033	0.0118	-
0.0034	1	.							
5905	CB	CB	. LEU LEU LEU B B 341 341 .	0.3448	0.3508	0.3313	-0.0199	0.0069	-
0.0004	1	.							
5906	CG	CG	. LEU LEU LEU B B 341 341 .	0.3498	0.3451	0.3951	0.0238	0.0201	
0.0263	1	.							
5907	CD1	CD1	. LEU LEU LEU B B 341 341 .	0.5002	0.4627	0.4084	0.0268	-0.0365	
0.0852	1	.							
5908	CD2	CD2	. LEU LEU LEU B B 341 341 .	0.3686	0.3657	0.3559	-0.0275	0.0142	
0.0172	1	.							
5909	C	C	. LEU LEU LEU B B 341 341 .	0.3343	0.3302	0.3193	0.0018	0.0156	-
0.0026	1	.							
5910	O	O	. LEU LEU LEU B B 341 341 .	0.3438	0.3211	0.3186	0.0046	0.0165	-
0.0097	1	.							
5911	N	N	. LYS LYS LYS B B 342 342 .	0.3356	0.3261	0.3136	0.0035	0.0114	
0.0040	1	.							
5912	CA	CA	. LYS LYS LYS B B 342 342 .	0.3293	0.3235	0.2925	0.0072	0.0133	
0.0053	1	.							
5913	CB	CB	. LYS LYS LYS B B 342 342 .	0.3063	0.2995	0.2431	-0.0003	0.0207	
0.0073	1	.							
5914	CG	CG	. LYS LYS LYS B B 342 342 .	0.3166	0.2813	0.2612	0.0135	-0.0019	
0.0270	1	.							
5915	CD	CD	. LYS LYS LYS B B 342 342 .	0.2530	0.3351	0.1910	0.0045	0.0005	
0.0074	1	.							
5916	CE	CE	. LYS LYS LYS B B 342 342 .	0.3208	0.3340	0.2409	-0.0017	0.0498	
0.0333	1	.							
5917	NZ	NZ	. LYS LYS LYS B B 342 342 .	0.3272	0.3472	0.3055	-0.0483	0.0769	-
0.0724	1	.							
5918	C	C	. LYS LYS LYS B B 342 342 .	0.3473	0.3321	0.3081	0.0084	0.0127	
0.0006	1	.							
5919	O	O	. LYS LYS LYS B B 342 342 .	0.3692	0.3426	0.2921	0.0239	0.0073	
0.0180	1	.							
5920	N	N	. VAL VAL VAL B B 343 343 .	0.3492	0.3522	0.3311	0.0013	0.0087	-
0.0076	1	.							
5921	CA	CA	. VAL VAL VAL B B 343 343 .	0.3420	0.3596	0.3490	-0.0098	-0.0010	-
0.0105	1	.							
5922	CB	CB	. VAL VAL VAL B B 343 343 .	0.3601	0.3674	0.3631	-0.0057	-0.0099	-
0.0116	1	.							



5953	CA	CA	. GLY GLY GLY B B 347 347 .	0.3446	0.3795	0.3776	0.0047	0.0020	-
0.0038	1	.							
5954	C	C	. GLY GLY GLY B B 347 347 .	0.3416	0.3885	0.3789	0.0109	0.0002	
0.0065	1	.							
5955	O	O	. GLY GLY GLY B B 347 347 .	0.3262	0.4006	0.3807	0.0289	-0.0122	-
0.0076	1	.							
5956	N	N	. SER SER SER B B 348 348 .	0.3212	0.3839	0.3784	0.0045	-0.0043	
0.0107	1	.							
5957	CA	CA	. SER SER SER B B 348 348 .	0.3252	0.3976	0.3790	0.0075	-0.0159	
0.0108	1	.							
5958	CB	CB	. SER SER SER B B 348 348 .	0.3132	0.4025	0.3791	0.0097	-0.0246	
0.0153	1	.							
5959	OG	OG	. SER SER SER B B 348 348 .	0.3009	0.3695	0.3976	-0.0106	-0.0473	-
0.0035	1	.							
5960	C	C	. SER SER SER B B 348 348 .	0.3077	0.3963	0.3677	0.0129	-0.0168	
0.0111	1	.							
5961	O	O	. SER SER SER B B 348 348 .	0.3061	0.4259	0.3752	0.0010	-0.0087	
0.0219	1	.							
5962	N	N	. VAL VAL VAL B B 349 349 .	0.3143	0.4041	0.3726	0.0217	-0.0291	
0.0134	1	.							
5963	CA	CA	. VAL VAL VAL B B 349 349 .	0.3289	0.4126	0.3915	0.0230	-0.0173	
0.0027	1	.							
5964	CB	CB	. VAL VAL VAL B B 349 349 .	0.3689	0.4157	0.3851	0.0233	-0.0248	
0.0051	1	.							
5965	CG1	CG1	. VAL VAL VAL B B 349 349 .	0.3584	0.4089	0.3687	0.0286	-0.0151	-
0.0044	1	.							
5966	CG2	CG2	. VAL VAL VAL B B 349 349 .	0.3139	0.4099	0.3741	0.0441	-0.0363	
0.0002	1	.							
5967	C	C	. VAL VAL VAL B B 349 349 .	0.3673	0.4379	0.4061	0.0186	0.0005	
0.0017	1	.							
5968	O	O	. VAL VAL VAL B B 349 349 .	0.3136	0.4515	0.4404	0.0215	0.0220	-
0.0122	1	.							
5969	N	N	. THR THR THR B B 350 350 .	0.3584	0.4337	0.4236	0.0274	0.0001	
0.0097	1	.							
5970	CA	CA	. THR THR THR B B 350 350 .	0.3810	0.4382	0.4259	0.0080	-0.0004	
0.0051	1	.							
5971	CB	CB	. THR THR THR B B 350 350 .	0.3835	0.4451	0.4239	0.0031	-0.0007	
0.0101	1	.							
5972	OG1	OG1	. THR THR THR B B 350 350 .	0.4147	0.4447	0.4697	-0.0352	0.0197	
0.0005	1	.							
5973	CG2	CG2	. THR THR THR B B 350 350 .	0.4024	0.4541	0.4434	-0.0064	-0.0198	
0.0025	1	.							
5974	C	C	. THR THR THR B B 350 350 .	0.3813	0.4479	0.4336	0.0178	0.0013	
0.0024	1	.							
5975	O	O	. THR THR THR B B 350 350 .	0.3715	0.4629	0.4523	0.0321	0.0033	
0.0140	1	.							
5976	N	N	. GLU GLU GLU B B 351 351 .	0.3787	0.4368	0.4430	0.0162	0.0047	
0.0049	1	.							
5977	CA	CA	. GLU GLU GLU B B 351 351 .	0.4098	0.4552	0.4519	0.0172	-0.0003	
0.0020	1	.							
5978	CB	CB	. GLU GLU GLU B B 351 351 .	0.4146	0.4484	0.4628	0.0117	-0.0025	-
0.0035	1	.							
5979	CG	CG	. GLU GLU GLU B B 351 351 .	0.4335	0.4751	0.4908	0.0335	-0.0110	
0.0099	1	.							
5980	CD	CD	. GLU GLU GLU B B 351 351 .	0.4477	0.4891	0.5203	0.0319	-0.0196	
0.0172	1	.							
5981	OE1	OE1	. GLU GLU GLU B B 351 351 .	0.4539	0.5133	0.5282	0.0598	0.0186	
0.0320	1	.							
5982	OE2	OE2	. GLU GLU GLU B B 351 351 .	0.4200	0.5187	0.5367	0.0268	-0.0530	
0.0952	1	.							

5983	C	C	. GLU GLU GLU B B	351 351	. 0.4113 0.4578 0.4428 0.0127 0.0073
0.0035	1	.			
5984	O	O	. GLU GLU GLU B B	351 351	. 0.4170 0.4870 0.4601 0.0095 0.0038
0.0098	1	.			
5985	N	N	. ALA ALA ALA B B	352 352	. 0.4049 0.4465 0.4273 0.0150 0.0073
0.0163	1	.			
5986	CA	CA	. ALA ALA ALA B B	352 352	. 0.4218 0.4437 0.4267 0.0039 0.0072
0.0135	1	.			
5987	CB	CB	. ALA ALA ALA B B	352 352	. 0.4069 0.4327 0.4236 0.0255 0.0004
0.0135	1	.			
5988	C	C	. ALA ALA ALA B B	352 352	. 0.4154 0.4421 0.4375 -0.0059 0.0052
0.0140	1	.			
5989	O	O	. ALA ALA ALA B B	352 352	. 0.4057 0.4456 0.4397 -0.0056 0.0094
0.0179	1	.			
5990	N	N	. ILE ILE ILE B B	353 353	. 0.4267 0.4474 0.4347 -0.0116 -0.0010
0.0207	1	.			
5991	CA	CA	. ILE ILE ILE B B	353 353	. 0.4132 0.4323 0.4269 -0.0197 -0.0001
0.0126	1	.			
5992	CB	CB	. ILE ILE ILE B B	353 353	. 0.4299 0.4323 0.4273 -0.0179 0.0000
0.0156	1	.			
5993	CG1	CG1	. ILE ILE ILE B B	353 353	. 0.4454 0.4333 0.3977 -0.0112 0.0151
0.0116	1	.			
5994	CD1	CD1	. ILE ILE ILE B B	353 353	. 0.4577 0.4208 0.3349 -0.0202 0.0105
0.0137	1	.			
5995	CG2	CG2	. ILE ILE ILE B B	353 353	. 0.3772 0.4413 0.4169 -0.0232 0.0103
0.0092	1	.			
5996	C	C	. ILE ILE ILE B B	353 353	. 0.4071 0.4303 0.4316 -0.0224 -0.0038
0.0091	1	.			
5997	O	O	. ILE ILE ILE B B	353 353	. 0.3889 0.4250 0.4303 -0.0463 -0.0169 -
0.0073	1	.			
5998	N	N	. GLN GLN GLN B B	354 354	. 0.4037 0.4331 0.4425 -0.0119 -0.0075
0.0167	1	.			
5999	CA	CA	. GLN GLN GLN B B	354 354	. 0.4292 0.4393 0.4338 -0.0005 -0.0007
0.0184	1	.			
6000	CB	CB	. GLN GLN GLN B B	354 354	. 0.4474 0.4532 0.4538 0.0186 -0.0133
0.0210	1	.			
6001	CG	CG	. GLN GLN GLN B B	354 354	. 0.5261 0.5286 0.5539 0.0175 -0.0004 -
0.0024	1	.			
6002	CD	CD	. GLN GLN GLN B B	354 354	. 0.5776 0.6704 0.6223 0.1032 -0.0279 -
0.0431	1	.			
6003	OE1	OE1	. GLN GLN GLN B B	354 354	. 0.5490 0.7275 0.6058 0.1362 -0.0501 -
0.0840	1	.			
6004	NE2	NE2	. GLN GLN GLN B B	354 354	. 0.6298 0.7361 0.6146 0.1051 -0.0549 -
0.0566	1	.			
6005	C	C	. GLN GLN GLN B B	354 354	. 0.4214 0.4215 0.4146 0.0067 -0.0072
0.0184	1	.			
6006	O	O	. GLN GLN GLN B B	354 354	. 0.4325 0.4405 0.4125 0.0135 -0.0068
0.0108	1	.			
6007	N	N	. ALA ALA ALA B B	355 355	. 0.3888 0.3830 0.3748 0.0050 -0.0107
0.0249	1	.			
6008	CA	CA	. ALA ALA ALA B B	355 355	. 0.3724 0.3731 0.3773 0.0008 -0.0221
0.0196	1	.			
6009	CB	CB	. ALA ALA ALA B B	355 355	. 0.4058 0.3593 0.3649 0.0050 -0.0185
0.0277	1	.			
6010	C	C	. ALA ALA ALA B B	355 355	. 0.3541 0.3917 0.3770 -0.0029 -0.0209
0.0185	1	.			
6011	O	O	. ALA ALA ALA B B	355 355	. 0.3116 0.3951 0.3760 0.0000 -0.0308
0.0411	1	.			
6012	N	N	. CYS CYS CYS B B	356 356	. 0.3530 0.4014 0.3827 0.0014 -0.0278
0.0151	1	.			

6013	CA	CA	. CYS CYS CYS B B 356 356 .	0.3780	0.4112	0.3936	0.0045	-0.0166	
0.0053	1	.							
6014	CB	CB	. CYS CYS CYS B B 356 356 .	0.3839	0.4172	0.4046	-0.0005	-0.0208	
0.0014	1	.							
6015	SG	SG	. CYS CYS CYS B B 356 356 .	0.4732	0.4543	0.4086	0.0400	-0.0316	
0.0218	1	.							
6016	C	C	. CYS CYS CYS B B 356 356 .	0.3882	0.4260	0.4131	0.0011	-0.0108	
0.0004	1	.							
6017	O	O	. CYS CYS CYS B B 356 356 .	0.3545	0.4090	0.3933	0.0067	-0.0110	-
0.0018	1	.							
6018	N	N	. LYS LYS LYS B B 357 357 .	0.4038	0.4502	0.4353	-0.0069	-0.0084	-
0.0006	1	.							
6019	CA	CA	. LYS LYS LYS B B 357 357 .	0.4263	0.4674	0.4557	-0.0060	-0.0136	-
0.0038	1	.							
6020	CB	CB	. LYS LYS LYS B B 357 357 .	0.4511	0.4856	0.4748	-0.0093	-0.0116	-
0.0036	1	.							
6021	CG	CG	. LYS LYS LYS B B 357 357 .	0.4609	0.5273	0.5203	-0.0086	-0.0185	
0.0147	1	.							
6022	CD	CD	. LYS LYS LYS B B 357 357 .	0.5241	0.6351	0.5811	-0.0272	0.0165	
0.0330	1	.							
6023	CE	CE	. LYS LYS LYS B B 357 357 .	0.5287	0.6822	0.6775	-0.0054	0.0082	
0.0349	1	.							
6024	NZ	NZ	. LYS LYS LYS B B 357 357 .	0.5790	0.7389	0.7311	-0.0018	0.0268	
0.0144	1	.							
6025	C	C	. LYS LYS LYS B B 357 357 .	0.4434	0.4807	0.4683	-0.0026	-0.0167	-
0.0083	1	.							
6026	O	O	. LYS LYS LYS B B 357 357 .	0.4509	0.5149	0.4830	0.0001	-0.0260	-
0.0166	1	.							
6027	N	N	. LEU LEU LEU B B 358 358 .	0.4382	0.4722	0.4661	0.0012	-0.0261	-
0.0031	1	.							
6028	CA	CA	. LEU LEU LEU B B 358 358 .	0.4393	0.4667	0.4590	-0.0049	-0.0217	
0.0058	1	.							
6029	CB	CB	. LEU LEU LEU B B 358 358 .	0.4612	0.4754	0.4608	-0.0077	-0.0359	
0.0108	1	.							
6030	CG	CG	. LEU LEU LEU B B 358 358 .	0.4952	0.4762	0.4776	-0.0232	-0.0440	
0.0157	1	.							
6031	CD1	CD1	. LEU LEU LEU B B 358 358 .	0.5686	0.4740	0.4585	-0.0156	-0.0965	
0.0106	1	.							
6032	CD2	CD2	. LEU LEU LEU B B 358 358 .	0.5559	0.4866	0.3848	-0.0567	-0.0854	
0.0240	1	.							
6033	C	C	. LEU LEU LEU B B 358 358 .	0.4427	0.4694	0.4481	-0.0010	-0.0195	
0.0065	1	.							
6034	O	O	. LEU LEU LEU B B 358 358 .	0.4412	0.4778	0.4665	-0.0082	-0.0293	
0.0205	1	.							
6035	N	N	. ALA ALA ALA B B 359 359 .	0.4345	0.4534	0.4224	-0.0035	-0.0129	
0.0018	1	.							
6036	CA	CA	. ALA ALA ALA B B 359 359 .	0.4262	0.4411	0.4259	-0.0060	-0.0217	-
0.0012	1	.							
6037	CB	CB	. ALA ALA ALA B B 359 359 .	0.4154	0.4130	0.4054	-0.0100	-0.0295	-
0.0021	1	.							
6038	C	C	. ALA ALA ALA B B 359 359 .	0.4272	0.4393	0.4188	-0.0050	-0.0208	-
0.0028	1	.							
6039	O	O	. ALA ALA ALA B B 359 359 .	0.4040	0.4459	0.4293	-0.0147	-0.0364	-
0.0045	1	.							
6040	N	N	. GLN GLN GLN B B 360 360 .	0.4385	0.4516	0.4251	-0.0216	-0.0220	-
0.0044	1	.							
6041	CA	CA	. GLN GLN GLN B B 360 360 .	0.4717	0.4714	0.4482	-0.0137	-0.0186	
0.0043	1	.							
6042	CB	CB	. GLN GLN GLN B B 360 360 .	0.4657	0.4677	0.4440	-0.0088	-0.0212	
0.0091	1	.							





6073	CG	CG	. TRP TRP TRP B B 364 364 .	0.5055	0.4824	0.4736	-0.0037	-0.0262	
0.0169	1	.							
6074	CD1	CD1	. TRP TRP TRP B B 364 364 .	0.5332	0.5132	0.4902	-0.0021	-0.0224	
0.0107	1	.							
6075	NE1	NE1	. TRP TRP TRP B B 364 364 .	0.5846	0.5447	0.5036	0.0050	-0.0268	
0.0418	1	.							
6076	CE2	CE2	. TRP TRP TRP B B 364 364 .	0.5509	0.5159	0.5245	-0.0041	-0.0207	
0.0126	1	.							
6077	CD2	CD2	. TRP TRP TRP B B 364 364 .	0.5409	0.5034	0.4799	-0.0042	-0.0193	
0.0119	1	.							
6078	CE3	CE3	. TRP TRP TRP B B 364 364 .	0.5551	0.4965	0.4689	0.0025	-0.0171	
0.0317	1	.							
6079	CZ3	CZ3	. TRP TRP TRP B B 364 364 .	0.5438	0.5057	0.4758	0.0257	-0.0179	
0.0315	1	.							
6080	CH2	CH2	. TRP TRP TRP B B 364 364 .	0.5284	0.5159	0.5264	0.0006	0.0300	
0.0238	1	.							
6081	CZ2	CZ2	. TRP TRP TRP B B 364 364 .	0.5114	0.5100	0.5248	0.0109	-0.0187	
0.0375	1	.							
6082	C	C	. TRP TRP TRP B B 364 364 .	0.4275	0.4282	0.4111	-0.0029	-0.0207	-
0.0092	1	.							
6083	O	O	. TRP TRP TRP B B 364 364 .	0.4051	0.4125	0.3884	-0.0285	-0.0241	-
0.0140	1	.							
6084	N	N	. GLY GLY GLY B B 365 365 .	0.4096	0.4221	0.4009	0.0020	-0.0180	-
0.0095	1	.							
6085	CA	CA	. GLY GLY GLY B B 365 365 .	0.3850	0.3920	0.3886	-0.0043	-0.0144	-
0.0100	1	.							
6086	C	C	. GLY GLY GLY B B 365 365 .	0.3851	0.3890	0.3845	-0.0078	-0.0169	
0.0004	1	.							
6087	O	O	. GLY GLY GLY B B 365 365 .	0.3910	0.3890	0.3848	0.0105	-0.0337	-
0.0042	1	.							
6088	N	N	. VAL VAL VAL B B 366 366 .	0.3798	0.3781	0.3709	-0.0096	-0.0211	
0.0015	1	.							
6089	CA	CA	. VAL VAL VAL B B 366 366 .	0.3538	0.3479	0.3594	-0.0053	-0.0085	
0.0017	1	.							
6090	CB	CB	. VAL VAL VAL B B 366 366 .	0.3562	0.3571	0.3510	-0.0047	-0.0148	
0.0051	1	.							
6091	CG1	CG1	. VAL VAL VAL B B 366 366 .	0.2911	0.2844	0.3100	0.0065	0.0134	
0.0057	1	.							
6092	CG2	CG2	. VAL VAL VAL B B 366 366 .	0.4123	0.3150	0.3936	-0.0072	-0.0325	
0.0085	1	.							
6093	C	C	. VAL VAL VAL B B 366 366 .	0.3411	0.3543	0.3449	-0.0082	-0.0096	
0.0021	1	.							
6094	O	O	. VAL VAL VAL B B 366 366 .	0.3445	0.3919	0.3664	0.0068	-0.0303	-
0.0036	1	.							
6095	N	N	. MET MET MET B B 367 367 .	0.3226	0.3352	0.3439	-0.0102	-0.0037	
0.0056	1	.							
6096	CA	CA	. MET MET MET B B 367 367 .	0.3072	0.3246	0.3311	-0.0080	-0.0083	
0.0037	1	.							
6097	CB	CB	. MET MET MET B B 367 367 .	0.2887	0.3075	0.3054	-0.0188	-0.0002	-
0.0013	1	.							
6098	CG	CG	. MET MET MET B B 367 367 .	0.3046	0.2917	0.3385	-0.0004	-0.0305	
0.0180	1	.							
6099	SD	SD	. MET MET MET B B 367 367 .	0.3754	0.3346	0.3576	0.0431	-0.0114	
0.0018	1	.							
6100	CE	CE	. MET MET MET B B 367 367 .	0.3272	0.3777	0.3004	0.0544	-0.0658	-
0.0431	1	.							
6101	C	C	. MET MET MET B B 367 367 .	0.2869	0.3302	0.3321	-0.0029	0.0020	
0.0087	1	.							
6102	O	O	. MET MET MET B B 367 367 .	0.2384	0.3359	0.3367	-0.0073	-0.0045	
0.0149	1	.							

6103	N	N	. VAL VAL VAL B B 368 368 .	0.3003	0.3341	0.3291	0.0064	-0.0028
0.0160	1	.						
6104	CA	CA	. VAL VAL VAL B B 368 368 .	0.3276	0.3329	0.3179	0.0118	-0.0011
0.0133	1	.						
6105	CB	CB	. VAL VAL VAL B B 368 368 .	0.3290	0.3511	0.3211	0.0109	0.0023
0.0098	1	.						
6106	CG1	CG1	. VAL VAL VAL B B 368 368 .	0.3322	0.3121	0.2807	0.0360	-0.0143 -
0.0072	1	.						
6107	CG2	CG2	. VAL VAL VAL B B 368 368 .	0.3069	0.3144	0.2533	0.0415	-0.0264
0.0288	1	.						
6108	C	C	. VAL VAL VAL B B 368 368 .	0.3394	0.3453	0.3185	0.0116	-0.0048
0.0098	1	.						
6109	O	O	. VAL VAL VAL B B 368 368 .	0.3764	0.3683	0.3227	0.0198	-0.0127
0.0244	1	.						
6110	N	N	. SER SER SER B B 369 369 .	0.3533	0.3560	0.3311	0.0058	-0.0045
0.0199	1	.						
6111	CA	CA	. SER SER SER B B 369 369 .	0.3265	0.3434	0.3273	-0.0001	-0.0111
0.0177	1	.						
6112	CB	CB	. SER SER SER B B 369 369 .	0.3320	0.3441	0.3161	-0.0084	-0.0079
0.0216	1	.						
6113	OG	OG	. SER SER SER B B 369 369 .	0.2940	0.3213	0.3173	0.0000	-0.0405
0.0377	1	.						
6114	C	C	. SER SER SER B B 369 369 .	0.3204	0.3427	0.3197	0.0062	-0.0058
0.0171	1	.						
6115	O	O	. SER SER SER B B 369 369 .	0.3556	0.3572	0.3374	0.0120	-0.0070
0.0351	1	.						
6116	N	N	. HIS HIS HIS B B 370 370 .	0.3053	0.3272	0.3101	0.0163	-0.0014
0.0112	1	.						
6117	CA	CA	. HIS HIS HIS B B 370 370 .	0.2582	0.2918	0.2853	0.0082	-0.0057
0.0063	1	.						
6118	CB	CB	. HIS HIS HIS B B 370 370 .	0.2770	0.2568	0.2585	0.0076	0.0066
0.0012	1	.						
6119	CG	CG	. HIS HIS HIS B B 370 370 .	0.2235	0.2426	0.2685	-0.0055	-0.0035
0.0046	1	.						
6120	ND1	ND1	. HIS HIS HIS B B 370 370 .	0.3360	0.2639	0.2633	0.0294	-0.0034
0.1025	1	.						
6121	CE1	CE1	. HIS HIS HIS B B 370 370 .	0.3104	0.3063	0.2845	0.0459	-0.0205
0.0687	1	.						
6122	NE2	NE2	. HIS HIS HIS B B 370 370 .	0.3582	0.2419	0.3265	0.0278	-0.0011
0.0663	1	.						
6123	CD2	CD2	. HIS HIS HIS B B 370 370 .	0.2793	0.2315	0.2829	0.0024	-0.0055
0.0155	1	.						
6124	C	C	. HIS HIS HIS B B 370 370 .	0.2597	0.3010	0.2825	0.0227	-0.0054
0.0122	1	.						
6125	O	O	. HIS HIS HIS B B 370 370 .	0.2440	0.3267	0.2956	0.0362	-0.0321
0.0456	1	.						
6126	N	N	. ARG ARG ARG B B 371 371 .	0.2505	0.2878	0.2658	0.0175	-0.0170
0.0032	1	.						
6127	CA	CA	. ARG ARG ARG B B 371 371 .	0.2333	0.2716	0.2441	0.0048	-0.0020
0.0153	1	.						
6128	CB	CB	. ARG ARG ARG B B 371 371 .	0.2267	0.2529	0.2163	0.0052	0.0064 -
0.0021	1	.						
6129	CG	CG	. ARG ARG ARG B B 371 371 .	0.2490	0.2917	0.1899	-0.0049	-0.0176
0.0048	1	.						
6130	CD	CD	. ARG ARG ARG B B 371 371 .	0.2517	0.2848	0.2174	-0.0054	-0.0489
0.0397	1	.						
6131	NE	NE	. ARG ARG ARG B B 371 371 .	0.2421	0.2565	0.2231	0.0316	-0.0054 -
0.0015	1	.						
6132	CZ	CZ	. ARG ARG ARG B B 371 371 .	0.2100	0.2315	0.2170	0.0002	0.0026 -
0.0134	1	.						



6163	N	N	. GLU GLU GLU B B 376 376 .	0.3307	0.3550	0.3412	-0.0032	-0.0065	
0.0066	1	.							
6164	CA	CA	. GLU GLU GLU B B 376 376 .	0.3544	0.3705	0.3505	-0.0040	-0.0103	-
0.0024	1	.							
6165	CB	CB	. GLU GLU GLU B B 376 376 .	0.3615	0.3765	0.3597	0.0010	-0.0089	
0.0001	1	.							
6166	CG	CG	. GLU GLU GLU B B 376 376 .	0.3927	0.3945	0.3849	-0.0076	0.0146	-
0.0180	1	.							
6167	CD	CD	. GLU GLU GLU B B 376 376 .	0.4407	0.4191	0.3897	-0.0279	0.0393	-
0.0144	1	.							
6168	OE1	OE1	. GLU GLU GLU B B 376 376 .	0.4349	0.4628	0.3945	-0.0979	0.0633	-
0.0486	1	.							
6169	OE2	OE2	. GLU GLU GLU B B 376 376 .	0.4086	0.4131	0.3603	-0.0258	0.0459	
0.0415	1	.							
6170	C	C	. GLU GLU GLU B B 376 376 .	0.3709	0.3759	0.3529	0.0008	-0.0134	-
0.0008	1	.							
6171	O	O	. GLU GLU GLU B B 376 376 .	0.4080	0.3908	0.3407	0.0010	-0.0215	-
0.0004	1	.							
6172	N	N	. ASP ASP ASP B B 377 377 .	0.3693	0.3935	0.3538	0.0072	-0.0153	-
0.0030	1	.							
6173	CA	CA	. ASP ASP ASP B B 377 377 .	0.3489	0.3814	0.3705	-0.0072	0.0008	-
0.0059	1	.							
6174	CB	CB	. ASP ASP ASP B B 377 377 .	0.3424	0.3765	0.3661	0.0017	-0.0010	-
0.0089	1	.							
6175	CG	CG	. ASP ASP ASP B B 377 377 .	0.4071	0.4287	0.4145	-0.0085	0.0145	-
0.0227	1	.							
6176	OD1	OD1	. ASP ASP ASP B B 377 377 .	0.5780	0.5973	0.4648	-0.0019	-0.0138	-
0.0203	1	.							
6177	OD2	OD2	. ASP ASP ASP B B 377 377 .	0.3268	0.4714	0.4803	-0.0762	0.0425	
0.0078	1	.							
6178	C	C	. ASP ASP ASP B B 377 377 .	0.3511	0.3612	0.3651	-0.0109	-0.0040	-
0.0079	1	.							
6179	O	O	. ASP ASP ASP B B 377 377 .	0.3604	0.3628	0.3755	-0.0057	0.0108	-
0.0213	1	.							
6180	N	N	. THR THR THR B B 378 378 .	0.3500	0.3738	0.3681	-0.0086	0.0048	
0.0025	1	.							
6181	CA	CA	. THR THR THR B B 378 378 .	0.3519	0.3651	0.3557	-0.0074	0.0006	
0.0076	1	.							
6182	CB	CB	. THR THR THR B B 378 378 .	0.3364	0.3596	0.3580	0.0020	0.0035	
0.0189	1	.							
6183	OG1	OG1	. THR THR THR B B 378 378 .	0.3589	0.3614	0.3236	-0.0049	-0.0581	
0.0228	1	.							
6184	CG2	CG2	. THR THR THR B B 378 378 .	0.3748	0.3838	0.3460	-0.0207	-0.0008	
0.0318	1	.							
6185	C	C	. THR THR THR B B 378 378 .	0.3299	0.3586	0.3569	-0.0111	0.0039	
0.0097	1	.							
6186	O	O	. THR THR THR B B 378 378 .	0.3136	0.3535	0.3740	-0.0383	0.0045	
0.0135	1	.							
6187	N	N	. PHE PHE PHE B B 379 379 .	0.3397	0.3598	0.3572	-0.0150	0.0018	
0.0090	1	.							
6188	CA	CA	. PHE PHE PHE B B 379 379 .	0.3245	0.3631	0.3547	-0.0048	-0.0065	
0.0154	1	.							
6189	CB	CB	. PHE PHE PHE B B 379 379 .	0.3313	0.3526	0.3533	-0.0171	-0.0121	
0.0039	1	.							
6190	CG	CG	. PHE PHE PHE B B 379 379 .	0.3837	0.3864	0.3932	0.0087	-0.0126	
0.0265	1	.							
6191	CD1	CD1	. PHE PHE PHE B B 379 379 .	0.4197	0.3959	0.3693	0.0063	-0.0246	-
0.0196	1	.							
6192	CE1	CE1	. PHE PHE PHE B B 379 379 .	0.3981	0.4342	0.3977	0.0358	-0.0114	-
0.0187	1	.							

6193	CZ	CZ	. PHE PHE PHE B B	379 379	. 0.4124 0.3990 0.4258 0.0403 -0.0061
0.0140	1	.			
6194	CE2	CE2	. PHE PHE PHE B B	379 379	. 0.3849 0.3514 0.4211 0.0389 0.0068 -
0.0067	1	.			
6195	CD2	CD2	. PHE PHE PHE B B	379 379	. 0.3847 0.3736 0.4129 0.0081 -0.0365
0.0082	1	.			
6196	C	C	. PHE PHE PHE B B	379 379	. 0.3343 0.3575 0.3577 -0.0120 -0.0167
0.0021	1	.			
6197	O	O	. PHE PHE PHE B B	379 379	. 0.2991 0.3344 0.3888 -0.0059 -0.0321
0.0185	1	.			
6198	N	N	. ILE ILE ILE B B	380 380	. 0.3256 0.3726 0.3461 -0.0112 -0.0107
0.0111	1	.			
6199	CA	CA	. ILE ILE ILE B B	380 380	. 0.3256 0.3628 0.3535 -0.0149 -0.0113
0.0026	1	.			
6200	CB	CB	. ILE ILE ILE B B	380 380	. 0.3114 0.3502 0.3459 -0.0155 -0.0119
0.0057	1	.			
6201	CG1	CG1	. ILE ILE ILE B B	380 380	. 0.2991 0.3328 0.3292 -0.0171 -0.0230
0.0285	1	.			
6202	CD1	CD1	. ILE ILE ILE B B	380 380	. 0.2551 0.3630 0.3030 -0.0448 0.0145
0.0153	1	.			
6203	CG2	CG2	. ILE ILE ILE B B	380 380	. 0.2832 0.3231 0.3085 -0.0153 -0.0609
0.0043	1	.			
6204	C	C	. ILE ILE ILE B B	380 380	. 0.3318 0.3555 0.3608 -0.0154 -0.0093
0.0005	1	.			
6205	O	O	. ILE ILE ILE B B	380 380	. 0.3733 0.3947 0.3401 -0.0155 -0.0079 -
0.0041	1	.			
6206	N	N	. ALA ALA ALA B B	381 381	. 0.3078 0.3423 0.3458 -0.0292 -0.0131
0.0070	1	.			
6207	CA	CA	. ALA ALA ALA B B	381 381	. 0.3070 0.3268 0.3374 -0.0143 -0.0023 -
0.0101	1	.			
6208	CB	CB	. ALA ALA ALA B B	381 381	. 0.3029 0.3173 0.3317 0.0041 -0.0067 -
0.0157	1	.			
6209	C	C	. ALA ALA ALA B B	381 381	. 0.3248 0.3244 0.3349 -0.0253 -0.0031 -
0.0153	1	.			
6210	O	O	. ALA ALA ALA B B	381 381	. 0.3501 0.3385 0.3527 -0.0494 0.0014 -
0.0185	1	.			
6211	N	N	. ASP ASP ASP B B	382 382	. 0.2953 0.3191 0.3391 -0.0308 0.0019 -
0.0126	1	.			
6212	CA	CA	. ASP ASP ASP B B	382 382	. 0.3418 0.3439 0.3615 -0.0232 0.0071 -
0.0016	1	.			
6213	CB	CB	. ASP ASP ASP B B	382 382	. 0.3245 0.3427 0.3633 -0.0323 0.0111 -
0.0039	1	.			
6214	CG	CG	. ASP ASP ASP B B	382 382	. 0.3751 0.3885 0.4014 -0.0355 0.0003
0.0173	1	.			
6215	OD1	OD1	. ASP ASP ASP B B	382 382	. 0.3324 0.4417 0.4514 -0.0419 0.0149
0.0514	1	.			
6216	OD2	OD2	. ASP ASP ASP B B	382 382	. 0.4644 0.3680 0.4674 -0.0640 -0.0406 -
0.0094	1	.			
6217	C	C	. ASP ASP ASP B B	382 382	. 0.3371 0.3512 0.3479 -0.0217 0.0068 -
0.0030	1	.			
6218	O	O	. ASP ASP ASP B B	382 382	. 0.3483 0.3735 0.3734 -0.0357 0.0365 -
0.0020	1	.			
6219	N	N	. LEU LEU LEU B B	383 383	. 0.3392 0.3525 0.3498 -0.0121 0.0121
0.0088	1	.			
6220	CA	CA	. LEU LEU LEU B B	383 383	. 0.3138 0.3403 0.3446 0.0031 0.0019
0.0057	1	.			
6221	CB	CB	. LEU LEU LEU B B	383 383	. 0.3043 0.3401 0.3627 0.0132 -0.0016
0.0051	1	.			
6222	CG	CG	. LEU LEU LEU B B	383 383	. 0.2636 0.3340 0.3570 0.0011 0.0003
0.0193	1	.			



6253	N	N	. CYS CYS CYS B B 388 388 .	0.4480	0.4402	0.4483	-0.0151	-0.0227	-
0.0136	1	.							
6254	CA	CA	. CYS CYS CYS B B 388 388 .	0.4782	0.4541	0.4497	-0.0113	-0.0197	-
0.0154	1	.							
6255	CB	CB	. CYS CYS CYS B B 388 388 .	0.4954	0.4763	0.4520	0.0011	-0.0208	-
0.0222	1	.							
6256	SG	SG	. CYS CYS CYS B B 388 388 .	0.6979	0.5173	0.5385	-0.0488	-0.0668	-
0.0914	1	.							
6257	C	C	. CYS CYS CYS B B 388 388 .	0.4600	0.4291	0.4249	-0.0031	-0.0140	-
0.0067	1	.							
6258	O	O	. CYS CYS CYS B B 388 388 .	0.4742	0.4326	0.4166	0.0145	-0.0181	-
0.0113	1	.							
6259	N	N	. THR THR THR B B 389 389 .	0.4259	0.4039	0.3891	-0.0097	-0.0150	-
0.0007	1	.							
6260	CA	CA	. THR THR THR B B 389 389 .	0.3964	0.3907	0.3831	-0.0017	-0.0098	-
0.0104	1	.							
6261	CB	CB	. THR THR THR B B 389 389 .	0.3969	0.3814	0.3816	0.0060	-0.0044	-
0.0074	1	.							
6262	OG1	OG1	. THR THR THR B B 389 389 .	0.3745	0.3906	0.3705	0.0201	-0.0247	-
0.0379	1	.							
6263	CG2	CG2	. THR THR THR B B 389 389 .	0.3441	0.3374	0.3908	0.0406	-0.0083	-
0.0020	1	.							
6264	C	C	. THR THR THR B B 389 389 .	0.3992	0.3781	0.3765	-0.0057	-0.0058	-
0.0077	1	.							
6265	O	O	. THR THR THR B B 389 389 .	0.4202	0.3938	0.3882	-0.0131	-0.0079	-
0.0187	1	.							
6266	N	N	. GLY GLY GLY B B 390 390 .	0.3785	0.3582	0.3413	-0.0022	-0.0091	-
0.0028	1	.							
6267	CA	CA	. GLY GLY GLY B B 390 390 .	0.3367	0.3515	0.3242	0.0042	-0.0105	-
0.0016	1	.							
6268	C	C	. GLY GLY GLY B B 390 390 .	0.3433	0.3424	0.3303	0.0000	0.0061	-
0.0028	1	.							
6269	O	O	. GLY GLY GLY B B 390 390 .	0.3160	0.3289	0.3159	0.0322	0.0118	-
0.0068	1	.							
6270	N	N	. GLN GLN GLN B B 391 391 .	0.3504	0.3549	0.3249	0.0005	0.0010	-
0.0032	1	.							
6271	CA	CA	. GLN GLN GLN B B 391 391 .	0.3481	0.3664	0.3241	-0.0130	-0.0023	-
0.0008	1	.							
6272	CB	CB	. GLN GLN GLN B B 391 391 .	0.3460	0.3674	0.3320	-0.0061	0.0077	-
0.0074	1	.							
6273	CG	CG	. GLN GLN GLN B B 391 391 .	0.3176	0.3516	0.3414	-0.0183	0.0000	-
0.0097	1	.							
6274	CD	CD	. GLN GLN GLN B B 391 391 .	0.3552	0.3998	0.3289	-0.0232	0.0057	-
0.0132	1	.							
6275	OE1	OE1	. GLN GLN GLN B B 391 391 .	0.3510	0.3671	0.2957	-0.0080	0.0418	-
0.0293	1	.							
6276	NE2	NE2	. GLN GLN GLN B B 391 391 .	0.2886	0.4020	0.3628	-0.0308	0.0170	-
0.0559	1	.							
6277	C	C	. GLN GLN GLN B B 391 391 .	0.3467	0.3560	0.3375	0.0030	-0.0035	-
0.0098	1	.							
6278	O	O	. GLN GLN GLN B B 391 391 .	0.3465	0.3531	0.3377	0.0088	-0.0217	-
0.0108	1	.							
6279	N	N	. ILE ILE ILE B B 392 392 .	0.3305	0.3491	0.3170	0.0014	-0.0050	-
0.0189	1	.							
6280	CA	CA	. ILE ILE ILE B B 392 392 .	0.3323	0.3337	0.3002	-0.0005	-0.0037	-
0.0067	1	.							
6281	CB	CB	. ILE ILE ILE B B 392 392 .	0.3444	0.3249	0.2924	-0.0019	-0.0072	-
0.0169	1	.							
6282	CG1	CG1	. ILE ILE ILE B B 392 392 .	0.3483	0.3403	0.2899	-0.0305	-0.0086	-
0.0180	1	.							





6313	CA	CA	. PRO PRO PRO B B 397 397 .	0.3241	0.3331	0.3389	-0.0008	0.0112	
0.0033	1	.							
6314	CB	CB	. PRO PRO PRO B B 397 397 .	0.3231	0.3426	0.3342	0.0040	0.0140	
0.0019	1	.							
6315	CG	CG	. PRO PRO PRO B B 397 397 .	0.3456	0.3200	0.3718	0.0042	0.0250	-
0.0054	1	.							
6316	CD	CD	. PRO PRO PRO B B 397 397 .	0.3456	0.3278	0.3385	0.0087	0.0264	
0.0111	1	.							
6317	C	C	. PRO PRO PRO B B 397 397 .	0.3337	0.3492	0.3541	0.0032	0.0092	
0.0040	1	.							
6318	O	O	. PRO PRO PRO B B 397 397 .	0.3537	0.3456	0.3630	0.0093	0.0006	
0.0097	1	.							
6319	N	N	. CYS CYS CYS B B 398 398 .	0.3256	0.3500	0.3489	-0.0095	0.0116	-
0.0036	1	.							
6320	CA	CA	. CYS CYS CYS B B 398 398 .	0.3169	0.3585	0.3434	0.0027	-0.0015	
0.0036	1	.							
6321	CB	CB	. CYS CYS CYS B B 398 398 .	0.3126	0.3542	0.3439	-0.0029	-0.0012	
0.0125	1	.							
6322	SG	SG	. CYS CYS CYS B B 398 398 .	0.3258	0.4226	0.3550	-0.0156	0.0106	-
0.0037	1	.							
6323	C	C	. CYS CYS CYS B B 398 398 .	0.3195	0.3425	0.3264	0.0050	0.0051	
0.0059	1	.							
6324	O	O	. CYS CYS CYS B B 398 398 .	0.3386	0.3492	0.3348	0.0107	0.0142	-
0.0034	1	.							
6325	N	N	. ARG ARG ARG B B 399 399 .	0.3294	0.3426	0.3179	0.0130	-0.0262	
0.0009	1	.							
6326	CA	CA	. ARG ARG ARG B B 399 399 .	0.2895	0.3135	0.3058	0.0056	-0.0144	-
0.0056	1	.							
6327	CB	CB	. ARG ARG ARG B B 399 399 .	0.3068	0.3374	0.2952	-0.0071	-0.0177	
0.0153	1	.							
6328	CG	CG	. ARG ARG ARG B B 399 399 .	0.3249	0.3261	0.3111	-0.0053	0.0106	
0.0055	1	.							
6329	CD	CD	. ARG ARG ARG B B 399 399 .	0.3792	0.2854	0.2851	0.0203	0.0581	
0.0006	1	.							
6330	NE	NE	. ARG ARG ARG B B 399 399 .	0.2281	0.2906	0.2909	0.0505	0.0273	
0.0006	1	.							
6331	CZ	CZ	. ARG ARG ARG B B 399 399 .	0.2774	0.3226	0.2823	0.0191	0.0271	-
0.0304	1	.							
6332	NH1	NH1	. ARG ARG ARG B B 399 399 .	0.3148	0.3208	0.2349	-0.0125	0.0240	-
0.0312	1	.							
6333	NH2	NH2	. ARG ARG ARG B B 399 399 .	0.3323	0.2909	0.2532	0.0208	0.0496	-
0.0288	1	.							
6334	C	C	. ARG ARG ARG B B 399 399 .	0.3125	0.3027	0.3077	-0.0038	-0.0130	-
0.0055	1	.							
6335	O	O	. ARG ARG ARG B B 399 399 .	0.2865	0.3155	0.3342	-0.0014	-0.0378	-
0.0196	1	.							
6336	N	N	. SER SER SER B B 400 400 .	0.2888	0.2926	0.3049	-0.0025	-0.0004	-
0.0024	1	.							
6337	CA	CA	. SER SER SER B B 400 400 .	0.3143	0.3130	0.3022	0.0004	0.0042	
0.0070	1	.							
6338	CB	CB	. SER SER SER B B 400 400 .	0.3166	0.3144	0.3123	-0.0077	0.0052	
0.0048	1	.							
6339	OG	OG	. SER SER SER B B 400 400 .	0.3776	0.3295	0.3269	-0.0018	0.0277	
0.0270	1	.							
6340	C	C	. SER SER SER B B 400 400 .	0.2999	0.3172	0.3039	-0.0049	0.0016	
0.0072	1	.							
6341	O	O	. SER SER SER B B 400 400 .	0.3362	0.3552	0.3081	-0.0070	0.0005	
0.0089	1	.							
6342	N	N	. GLU GLU GLU B B 401 401 .	0.2919	0.3216	0.2979	0.0059	0.0030	
0.0103	1	.							



6373	C	C	. ALA ALA ALA B B 404 404 .	0.2123	0.2442	0.2589	0.0098	0.0203	
0.0152	1	.							
6374	O	O	. ALA ALA ALA B B 404 404 .	0.2379	0.2761	0.2576	0.0197	0.0241	
0.0447	1	.							
6375	N	N	. LYS LYS LYS B B 405 405 .	0.2537	0.2841	0.2798	0.0069	0.0109	
0.0075	1	.							
6376	CA	CA	. LYS LYS LYS B B 405 405 .	0.2419	0.2915	0.2926	0.0048	0.0016	
0.0040	1	.							
6377	CB	CB	. LYS LYS LYS B B 405 405 .	0.2284	0.3076	0.3102	-0.0033	0.0085	
0.0064	1	.							
6378	CG	CG	. LYS LYS LYS B B 405 405 .	0.2407	0.2975	0.3046	-0.0072	0.0210	-
0.0257	1	.							
6379	CD	CD	. LYS LYS LYS B B 405 405 .	0.2062	0.3792	0.2978	-0.0364	0.0030	-
0.0500	1	.							
6380	CE	CE	. LYS LYS LYS B B 405 405 .	0.2409	0.3536	0.3164	-0.0641	0.0070	-
0.0844	1	.							
6381	NZ	NZ	. LYS LYS LYS B B 405 405 .	0.2417	0.4771	0.2743	-0.0155	0.0585	-
0.0439	1	.							
6382	C	C	. LYS LYS LYS B B 405 405 .	0.2526	0.3156	0.2982	-0.0014	-0.0008	-
0.0008	1	.							
6383	O	O	. LYS LYS LYS B B 405 405 .	0.2642	0.3514	0.2949	0.0003	-0.0094	-
0.0059	1	.							
6384	N	N	. TYR TYR TYR B B 406 406 .	0.2794	0.3224	0.3046	0.0027	0.0038	
0.0043	1	.							
6385	CA	CA	. TYR TYR TYR B B 406 406 .	0.2711	0.3191	0.2902	0.0008	0.0039	
0.0017	1	.							
6386	CB	CB	. TYR TYR TYR B B 406 406 .	0.2822	0.3257	0.2859	-0.0074	0.0165	
0.0039	1	.							
6387	CG	CG	. TYR TYR TYR B B 406 406 .	0.2824	0.3307	0.3100	-0.0053	0.0056	-
0.0001	1	.							
6388	CD1	CD1	. TYR TYR TYR B B 406 406 .	0.2389	0.3176	0.3205	0.0104	-0.0272	
0.0022	1	.							
6389	CE1	CE1	. TYR TYR TYR B B 406 406 .	0.2518	0.3454	0.3029	0.0228	-0.0308	
0.0336	1	.							
6390	CZ	CZ	. TYR TYR TYR B B 406 406 .	0.3214	0.3325	0.3335	-0.0053	-0.0083	
0.0299	1	.							
6391	OH	OH	. TYR TYR TYR B B 406 406 .	0.2852	0.3223	0.3309	0.0510	-0.0102	
0.0998	1	.							
6392	CE2	CE2	. TYR TYR TYR B B 406 406 .	0.3324	0.3280	0.3121	0.0040	-0.0451	
0.0197	1	.							
6393	CD2	CD2	. TYR TYR TYR B B 406 406 .	0.2893	0.3105	0.2903	-0.0054	-0.0310	-
0.0204	1	.							
6394	C	C	. TYR TYR TYR B B 406 406 .	0.2674	0.3201	0.3028	-0.0011	-0.0034	-
0.0006	1	.							
6395	O	O	. TYR TYR TYR B B 406 406 .	0.3058	0.3357	0.3253	-0.0014	0.0037	-
0.0010	1	.							
6396	N	N	. ASN ASN ASN B B 407 407 .	0.2316	0.3067	0.2875	0.0076	0.0070	
0.0055	1	.							
6397	CA	CA	. ASN ASN ASN B B 407 407 .	0.2295	0.3070	0.2816	0.0055	-0.0109	
0.0055	1	.							
6398	CB	CB	. ASN ASN ASN B B 407 407 .	0.2376	0.2965	0.2982	0.0161	-0.0305	
0.0154	1	.							
6399	CG	CG	. ASN ASN ASN B B 407 407 .	0.2340	0.2742	0.2785	-0.0167	-0.0089	
0.0013	1	.							
6400	OD1	OD1	. ASN ASN ASN B B 407 407 .	0.2343	0.3091	0.3018	0.0109	-0.0361	-
0.0222	1	.							
6401	ND2	ND2	. ASN ASN ASN B B 407 407 .	0.2930	0.1649	0.2722	0.0102	0.0342	-
0.0219	1	.							
6402	C	C	. ASN ASN ASN B B 407 407 .	0.2647	0.3095	0.2861	-0.0010	-0.0173	-
0.0006	1	.							

6403	O	O	. ASN ASN ASN B B 407 407 .	0.2568	0.3232	0.2883	-0.0048	-0.0280	-
0.0047	1	.							
6404	N	N	. GLN GLN GLN B B 408 408 .	0.2525	0.3174	0.3026	0.0205	-0.0203	
0.0036	1	.							
6405	CA	CA	. GLN GLN GLN B B 408 408 .	0.3039	0.3392	0.3041	0.0153	-0.0138	
0.0016	1	.							
6406	CB	CB	. GLN GLN GLN B B 408 408 .	0.2849	0.3283	0.3076	0.0408	-0.0213	-
0.0076	1	.							
6407	CG	CG	. GLN GLN GLN B B 408 408 .	0.3005	0.3822	0.3081	-0.0095	-0.0183	-
0.0039	1	.							
6408	CD	CD	. GLN GLN GLN B B 408 408 .	0.3202	0.3750	0.3585	0.0028	-0.0243	
0.0059	1	.							
6409	OE1	OE1	. GLN GLN GLN B B 408 408 .	0.3700	0.3237	0.3977	0.0478	-0.0447	-
0.0344	1	.							
6410	NE2	NE2	. GLN GLN GLN B B 408 408 .	0.2768	0.3862	0.3796	-0.0286	-0.0342	
0.0237	1	.							
6411	C	C	. GLN GLN GLN B B 408 408 .	0.3190	0.3452	0.3281	0.0078	-0.0159	
0.0106	1	.							
6412	O	O	. GLN GLN GLN B B 408 408 .	0.2987	0.3517	0.3314	-0.0026	-0.0077	
0.0274	1	.							
6413	N	N	. LEU LEU LEU B B 409 409 .	0.3253	0.3521	0.3150	0.0047	0.0010	
0.0184	1	.							
6414	CA	CA	. LEU LEU LEU B B 409 409 .	0.3325	0.3489	0.3387	-0.0029	-0.0038	
0.0056	1	.							
6415	CB	CB	. LEU LEU LEU B B 409 409 .	0.3324	0.3435	0.3272	-0.0005	-0.0162	
0.0223	1	.							
6416	CG	CG	. LEU LEU LEU B B 409 409 .	0.3120	0.3404	0.3324	-0.0115	-0.0230	
0.0222	1	.							
6417	CD1	CD1	. LEU LEU LEU B B 409 409 .	0.2505	0.3758	0.3159	0.0138	-0.0140	
0.0579	1	.							
6418	CD2	CD2	. LEU LEU LEU B B 409 409 .	0.2206	0.3284	0.3649	0.0346	-0.0091	
0.0732	1	.							
6419	C	C	. LEU LEU LEU B B 409 409 .	0.3408	0.3398	0.3441	-0.0103	-0.0092	
0.0105	1	.							
6420	O	O	. LEU LEU LEU B B 409 409 .	0.3777	0.3587	0.3495	-0.0069	-0.0011	
0.0050	1	.							
6421	N	N	. MET MET MET B B 410 410 .	0.3414	0.3371	0.3596	-0.0164	-0.0103	
0.0093	1	.							
6422	CA	CA	. MET MET MET B B 410 410 .	0.3405	0.3435	0.3479	-0.0080	-0.0052	-
0.0020	1	.							
6423	CB	CB	. MET MET MET B B 410 410 .	0.3136	0.3355	0.3304	0.0070	-0.0115	
0.0108	1	.							
6424	CG	CG	. MET MET MET B B 410 410 .	0.3518	0.3581	0.3492	0.0006	0.0066	
0.0107	1	.							
6425	SD	SD	. MET MET MET B B 410 410 .	0.4423	0.4609	0.4638	0.0281	-0.0021	
0.0401	1	.							
6426	CE	CE	. MET MET MET B B 410 410 .	0.4360	0.3904	0.3633	0.0466	-0.0072	
0.0299	1	.							
6427	C	C	. MET MET MET B B 410 410 .	0.3392	0.3400	0.3348	-0.0118	-0.0088	
0.0059	1	.							
6428	O	O	. MET MET MET B B 410 410 .	0.3453	0.3641	0.3340	-0.0265	-0.0243	
0.0104	1	.							
6429	N	N	. ARG ARG ARG B B 411 411 .	0.3399	0.3540	0.3363	0.0001	-0.0104	
0.0043	1	.							
6430	CA	CA	. ARG ARG ARG B B 411 411 .	0.3593	0.3561	0.3401	-0.0016	-0.0155	
0.0090	1	.							
6431	CB	CB	. ARG ARG ARG B B 411 411 .	0.3585	0.3550	0.3360	-0.0026	-0.0120	
0.0160	1	.							
6432	CG	CG	. ARG ARG ARG B B 411 411 .	0.3986	0.3666	0.3403	0.0220	-0.0242	-
0.0073	1	.							

6433	CD	CD	. ARG ARG ARG B B 411 411 .	0.4130	0.3914	0.3364	-0.0010	-0.0190	
0.0082	1	.							
6434	NE	NE	. ARG ARG ARG B B 411 411 .	0.4033	0.3505	0.3205	-0.0227	-0.0158	-
0.0078	1	.							
6435	CZ	CZ	. ARG ARG ARG B B 411 411 .	0.3823	0.3367	0.3166	-0.0207	-0.0137	
0.0187	1	.							
6436	NH1	NH1	. ARG ARG ARG B B 411 411 .	0.3757	0.3273	0.3687	0.0147	-0.0479	-
0.0192	1	.							
6437	NH2	NH2	. ARG ARG ARG B B 411 411 .	0.3998	0.2745	0.3397	-0.0850	-0.0072	
0.0561	1	.							
6438	C	C	. ARG ARG ARG B B 411 411 .	0.3768	0.3762	0.3576	-0.0076	-0.0148	
0.0000	1	.							
6439	O	O	. ARG ARG ARG B B 411 411 .	0.4068	0.4207	0.3508	0.0036	-0.0285	-
0.0026	1	.							
6440	N	N	. ILE ILE ILE B B 412 412 .	0.3836	0.3745	0.3577	-0.0016	-0.0179	
0.0066	1	.							
6441	CA	CA	. ILE ILE ILE B B 412 412 .	0.3915	0.3792	0.3824	-0.0054	-0.0119	
0.0005	1	.							
6442	CB	CB	. ILE ILE ILE B B 412 412 .	0.4025	0.3638	0.3699	-0.0008	-0.0156	-
0.0004	1	.							
6443	CG1	CG1	. ILE ILE ILE B B 412 412 .	0.3838	0.3695	0.4040	0.0032	-0.0123	-
0.0047	1	.							
6444	CD1	CD1	. ILE ILE ILE B B 412 412 .	0.4378	0.3436	0.3232	0.0663	-0.0182	
0.0205	1	.							
6445	CG2	CG2	. ILE ILE ILE B B 412 412 .	0.4302	0.3490	0.3760	-0.0186	-0.0127	
0.0117	1	.							
6446	C	C	. ILE ILE ILE B B 412 412 .	0.3910	0.3916	0.3893	-0.0053	-0.0045	-
0.0002	1	.							
6447	O	O	. ILE ILE ILE B B 412 412 .	0.3814	0.4262	0.3641	0.0041	-0.0187	
0.0032	1	.							
6448	N	N	. GLU GLU GLU B B 413 413 .	0.3899	0.3980	0.4115	-0.0063	0.0078	
0.0074	1	.							
6449	CA	CA	. GLU GLU GLU B B 413 413 .	0.4143	0.4166	0.4322	-0.0056	0.0048	
0.0081	1	.							
6450	CB	CB	. GLU GLU GLU B B 413 413 .	0.4053	0.4130	0.4177	0.0008	0.0144	
0.0101	1	.							
6451	CG	CG	. GLU GLU GLU B B 413 413 .	0.4258	0.3833	0.4569	0.0286	0.0193	
0.0039	1	.							
6452	CD	CD	. GLU GLU GLU B B 413 413 .	0.4404	0.4203	0.4386	0.0308	0.0390	
0.0000	1	.							
6453	OE1	OE1	. GLU GLU GLU B B 413 413 .	0.4392	0.4256	0.3734	0.0691	0.0788	
0.0000	1	.							
6454	OE2	OE2	. GLU GLU GLU B B 413 413 .	0.5497	0.4667	0.4195	0.0470	0.0056	
0.0122	1	.							
6455	C	C	. GLU GLU GLU B B 413 413 .	0.4356	0.4461	0.4490	-0.0165	-0.0023	
0.0044	1	.							
6456	O	O	. GLU GLU GLU B B 413 413 .	0.4421	0.4640	0.4481	-0.0240	-0.0177	
0.0179	1	.							
6457	N	N	. GLU GLU GLU B B 414 414 .	0.4466	0.4679	0.4690	-0.0125	-0.0068	
0.0020	1	.							
6458	CA	CA	. GLU GLU GLU B B 414 414 .	0.4719	0.4897	0.4879	-0.0124	-0.0021	
0.0035	1	.							
6459	CB	CB	. GLU GLU GLU B B 414 414 .	0.4754	0.4982	0.4994	-0.0064	-0.0028	
0.0000	1	.							
6460	CG	CG	. GLU GLU GLU B B 414 414 .	0.4964	0.5391	0.5220	0.0057	-0.0103	
0.0087	1	.							
6461	CD	CD	. GLU GLU GLU B B 414 414 .	0.5394	0.6065	0.5254	0.0158	-0.0157	
0.0111	1	.							
6462	OE1	OE1	. GLU GLU GLU B B 414 414 .	0.4964	0.5923	0.5137	0.0686	-0.0514	-
0.0139	1	.							

6463	OE2	OE2	. GLU GLU GLU B B 414 414 .	0.5988	0.6372	0.5551	0.0166	0.0027	
0.0695	1	.							
6464	C	C	. GLU GLU GLU B B 414 414 .	0.4968	0.5042	0.5026	-0.0145	-0.0015	
0.0000	1	.							
6465	O	O	. GLU GLU GLU B B 414 414 .	0.4937	0.5154	0.5183	-0.0319	-0.0024	
0.0046	1	.							
6466	N	N	. GLU GLU GLU B B 415 415 .	0.5051	0.5060	0.5210	-0.0076	0.0001	-
0.0038	1	.							
6467	CA	CA	. GLU GLU GLU B B 415 415 .	0.5265	0.5385	0.5401	-0.0134	-0.0007	-
0.0058	1	.							
6468	CB	CB	. GLU GLU GLU B B 415 415 .	0.5110	0.5351	0.5483	-0.0112	-0.0032	-
0.0021	1	.							
6469	CG	CG	. GLU GLU GLU B B 415 415 .	0.5597	0.6010	0.5983	-0.0062	0.0135	
0.0095	1	.							
6470	CD	CD	. GLU GLU GLU B B 415 415 .	0.6010	0.6805	0.6583	-0.0093	0.0125	
0.0287	1	.							
6471	OE1	OE1	. GLU GLU GLU B B 415 415 .	0.7246	0.7191	0.7208	-0.0164	0.0460	
0.0479	1	.							
6472	OE2	OE2	. GLU GLU GLU B B 415 415 .	0.5710	0.6970	0.6014	-0.0163	0.0152	
0.0304	1	.							
6473	C	C	. GLU GLU GLU B B 415 415 .	0.5469	0.5520	0.5524	-0.0124	0.0009	-
0.0070	1	.							
6474	O	O	. GLU GLU GLU B B 415 415 .	0.5648	0.5704	0.5654	-0.0185	-0.0007	-
0.0229	1	.							
6475	N	N	. LEU LEU LEU B B 416 416 .	0.5641	0.5529	0.5529	-0.0131	-0.0017	
0.0001	1	.							
6476	CA	CA	. LEU LEU LEU B B 416 416 .	0.5624	0.5599	0.5632	-0.0078	-0.0165	
0.0021	1	.							
6477	CB	CB	. LEU LEU LEU B B 416 416 .	0.5544	0.5491	0.5547	-0.0092	-0.0206	
0.0016	1	.							
6478	CG	CG	. LEU LEU LEU B B 416 416 .	0.5557	0.5737	0.5494	-0.0106	-0.0301	
0.0032	1	.							
6479	CD1	CD1	. LEU LEU LEU B B 416 416 .	0.5370	0.5805	0.5616	-0.0203	-0.0475	
0.0067	1	.							
6480	CD2	CD2	. LEU LEU LEU B B 416 416 .	0.5425	0.5817	0.5420	-0.0001	-0.0532	
0.0108	1	.							
6481	C	C	. LEU LEU LEU B B 416 416 .	0.5727	0.5550	0.5779	-0.0060	-0.0163	
0.0090	1	.							
6482	O	O	. LEU LEU LEU B B 416 416 .	0.5653	0.5307	0.5805	-0.0138	-0.0236	
0.0081	1	.							
6483	N	N	. GLY GLY GLY B B 417 417 .	0.5781	0.5737	0.5913	-0.0047	-0.0182	
0.0103	1	.							
6484	CA	CA	. GLY GLY GLY B B 417 417 .	0.5929	0.5941	0.6016	0.0024	-0.0136	-
0.0027	1	.							
6485	C	C	. GLY GLY GLY B B 417 417 .	0.6140	0.6193	0.6108	0.0028	-0.0108	-
0.0004	1	.							
6486	O	O	. GLY GLY GLY B B 417 417 .	0.6065	0.5921	0.5993	0.0032	-0.0205	
0.0000	1	.							
6487	N	N	. ASP ASP ASP B B 418 418 .	0.6415	0.6325	0.6368	-0.0029	-0.0039	-
0.0073	1	.							
6488	CA	CA	. ASP ASP ASP B B 418 418 .	0.6775	0.6746	0.6670	-0.0059	-0.0059	-
0.0086	1	.							
6489	CB	CB	. ASP ASP ASP B B 418 418 .	0.6896	0.7052	0.6910	-0.0127	0.0011	-
0.0131	1	.							
6490	CG	CG	. ASP ASP ASP B B 418 418 .	0.7416	0.7939	0.7368	-0.0020	-0.0051	-
0.0039	1	.							
6491	OD1	OD1	. ASP ASP ASP B B 418 418 .	0.7285	0.8838	0.8264	-0.0040	0.0011	
0.0128	1	.							
6492	OD2	OD2	. ASP ASP ASP B B 418 418 .	0.7458	0.8846	0.8137	-0.0195	0.0282	
0.0113	1	.							

6493	C	C	. ASP ASP ASP B B 418 418 .	0.6716	0.6651	0.6653	-0.0091	-0.0051	-
0.0098	1	.							
6494	O	O	. ASP ASP ASP B B 418 418 .	0.6768	0.6592	0.6724	-0.0174	-0.0014	-
0.0140	1	.							
6495	N	N	. GLU GLU GLU B B 419 419 .	0.6686	0.6589	0.6597	-0.0080	-0.0093	-
0.0087	1	.							
6496	CA	CA	. GLU GLU GLU B B 419 419 .	0.6608	0.6594	0.6616	-0.0051	-0.0142	-
0.0080	1	.							
6497	CB	CB	. GLU GLU GLU B B 419 419 .	0.6666	0.6817	0.6683	-0.0001	-0.0061	-
0.0100	1	.							
6498	CG	CG	. GLU GLU GLU B B 419 419 .	0.7188	0.7316	0.7208	-0.0114	-0.0066	-
0.0297	1	.							
6499	CD	CD	. GLU GLU GLU B B 419 419 .	0.7595	0.7955	0.7881	-0.0216	0.0060	-
0.0521	1	.							
6500	OE1	OE1	. GLU GLU GLU B B 419 419 .	0.8200	0.7947	0.7786	-0.0356	0.0258	-
0.0663	1	.							
6501	OE2	OE2	. GLU GLU GLU B B 419 419 .	0.7835	0.8132	0.8027	-0.0559	-0.0190	-
0.0607	1	.							
6502	C	C	. GLU GLU GLU B B 419 419 .	0.6501	0.6422	0.6493	0.0031	-0.0210	-
0.0034	1	.							
6503	O	O	. GLU GLU GLU B B 419 419 .	0.6660	0.6422	0.6662	0.0059	-0.0321	-
0.0021	1	.							
6504	N	N	. ALA ALA ALA B B 420 420 .	0.6301	0.6125	0.6209	-0.0068	-0.0206	-
0.0044	1	.							
6505	CA	CA	. ALA ALA ALA B B 420 420 .	0.5948	0.5811	0.5829	0.0006	-0.0197	-
0.0026	1	.							
6506	CB	CB	. ALA ALA ALA B B 420 420 .	0.5997	0.5710	0.5834	0.0017	-0.0205	-
0.0015	1	.							
6507	C	C	. ALA ALA ALA B B 420 420 .	0.5749	0.5565	0.5485	0.0024	-0.0212	-
0.0035	1	.							
6508	O	O	. ALA ALA ALA B B 420 420 .	0.5671	0.5546	0.5418	0.0079	-0.0408	-
0.0012	1	.							
6509	N	N	. ARG ARG ARG B B 421 421 .	0.5534	0.5340	0.5259	0.0056	-0.0214	-
0.0141	1	.							
6510	CA	CA	. ARG ARG ARG B B 421 421 .	0.5394	0.5164	0.5287	-0.0001	-0.0151	-
0.0033	1	.							
6511	CB	CB	. ARG ARG ARG B B 421 421 .	0.5626	0.5351	0.5340	-0.0010	-0.0167	-
0.0055	1	.							
6512	CG	CG	. ARG ARG ARG B B 421 421 .	0.5980	0.6100	0.6085	-0.0272	-0.0119	-
0.0026	1	.							
6513	CD	CD	. ARG ARG ARG B B 421 421 .	0.7324	0.7479	0.6946	-0.0217	-0.0401	-
0.0059	1	.							
6514	NE	NE	. ARG ARG ARG B B 421 421 .	0.7815	0.8671	0.8142	-0.0124	-0.0109	-
0.0256	1	.							
6515	CZ	CZ	. ARG ARG ARG B B 421 421 .	0.8301	0.9045	0.8579	-0.0048	-0.0077	-
0.0325	1	.							
6516	NH1	NH1	. ARG ARG ARG B B 421 421 .	0.8285	0.9075	0.8781	0.0015	0.0278	-
0.0155	1	.							
6517	NH2	NH2	. ARG ARG ARG B B 421 421 .	0.8974	0.9359	0.8661	0.0154	-0.0005	-
0.0369	1	.							
6518	C	C	. ARG ARG ARG B B 421 421 .	0.5151	0.4991	0.4982	0.0105	-0.0104	-
0.0023	1	.							
6519	O	O	. ARG ARG ARG B B 421 421 .	0.5326	0.5044	0.5047	0.0021	-0.0156	-
0.0023	1	.							
6520	N	N	. PHE PHE PHE B B 422 422 .	0.4877	0.4617	0.4736	0.0091	-0.0068	-
0.0014	1	.							
6521	CA	CA	. PHE PHE PHE B B 422 422 .	0.4626	0.4473	0.4520	0.0094	-0.0006	-
0.0071	1	.							
6522	CB	CB	. PHE PHE PHE B B 422 422 .	0.4523	0.4269	0.4401	0.0052	-0.0163	-
0.0075	1	.							





6553	CG	CG	. ASN ASN ASN B B 426 426 .	0.5731	0.5072	0.5098	0.0039	-0.0063	-
0.0171	1	.							
6554	OD1	OD1	. ASN ASN ASN B B 426 426 .	0.6474	0.5938	0.4810	-0.0263	-0.0112	-
0.0203	1	.							
6555	ND2	ND2	. ASN ASN ASN B B 426 426 .	0.6398	0.5334	0.6159	0.0106	0.0007	-
0.0398	1	.							
6556	C	C	. ASN ASN ASN B B 426 426 .	0.4269	0.4306	0.4349	-0.0067	-0.0077	-
0.0140	1	.							
6557	O	O	. ASN ASN ASN B B 426 426 .	0.3887	0.4082	0.4408	-0.0073	-0.0210	-
0.0187	1	.							
6558	N	N	. PHE PHE PHE B B 427 427 .	0.4129	0.4213	0.4242	-0.0045	-0.0098	-
0.0115	1	.							
6559	CA	CA	. PHE PHE PHE B B 427 427 .	0.4076	0.4256	0.4207	-0.0012	-0.0068	-
0.0146	1	.							
6560	CB	CB	. PHE PHE PHE B B 427 427 .	0.4170	0.4215	0.4112	-0.0006	-0.0148	-
0.0132	1	.							
6561	CG	CG	. PHE PHE PHE B B 427 427 .	0.3745	0.4003	0.3811	0.0022	-0.0254	-
0.0146	1	.							
6562	CD1	CD1	. PHE PHE PHE B B 427 427 .	0.4341	0.4209	0.3806	0.0063	-0.0087	-
0.0255	1	.							
6563	CE1	CE1	. PHE PHE PHE B B 427 427 .	0.4328	0.4405	0.4238	-0.0114	-0.0135	-
0.0041	1	.							
6564	CZ	CZ	. PHE PHE PHE B B 427 427 .	0.4286	0.4283	0.4238	0.0388	-0.0123	-
0.0074	1	.							
6565	CE2	CE2	. PHE PHE PHE B B 427 427 .	0.3879	0.4320	0.4059	0.0288	0.0045	-
0.0039	1	.							
6566	CD2	CD2	. PHE PHE PHE B B 427 427 .	0.4187	0.4092	0.4120	0.0170	-0.0251	-
0.0370	1	.							
6567	C	C	. PHE PHE PHE B B 427 427 .	0.4231	0.4329	0.4330	0.0029	-0.0012	-
0.0074	1	.							
6568	O	O	. PHE PHE PHE B B 427 427 .	0.4250	0.4361	0.4059	0.0049	0.0058	-
0.0048	1	.							
6569	N	N	. ARG ARG ARG B B 428 428 .	0.4295	0.4430	0.4318	-0.0028	0.0026	-
0.0103	1	.							
6570	CA	CA	. ARG ARG ARG B B 428 428 .	0.4429	0.4491	0.4421	-0.0010	-0.0041	-
0.0029	1	.							
6571	CB	CB	. ARG ARG ARG B B 428 428 .	0.4297	0.4461	0.4333	0.0031	-0.0094	-
0.0029	1	.							
6572	CG	CG	. ARG ARG ARG B B 428 428 .	0.4389	0.4387	0.4166	-0.0357	-0.0138	-
0.0044	1	.							
6573	CD	CD	. ARG ARG ARG B B 428 428 .	0.3996	0.4460	0.4067	-0.0212	-0.0413	-
0.0131	1	.							
6574	NE	NE	. ARG ARG ARG B B 428 428 .	0.3990	0.4076	0.4092	-0.0349	-0.0301	-
0.0000	1	.							
6575	CZ	CZ	. ARG ARG ARG B B 428 428 .	0.3914	0.4175	0.3547	-0.0215	-0.0361	-
0.0065	1	.							
6576	NH1	NH1	. ARG ARG ARG B B 428 428 .	0.3916	0.4450	0.2898	-0.0406	-0.0379	-
0.0301	1	.							
6577	NH2	NH2	. ARG ARG ARG B B 428 428 .	0.3970	0.4107	0.3525	-0.0394	-0.0328	-
0.0010	1	.							
6578	C	C	. ARG ARG ARG B B 428 428 .	0.4682	0.4728	0.4637	-0.0008	-0.0035	-
0.0004	1	.							
6579	O	O	. ARG ARG ARG B B 428 428 .	0.4694	0.4543	0.4765	0.0048	-0.0116	-
0.0076	1	.							
6580	N	N	. ASN ASN ASN B B 429 429 .	0.5089	0.4987	0.4930	-0.0047	0.0003	-
0.0031	1	.							
6581	CA	CA	. ASN ASN ASN B B 429 429 .	0.5187	0.5409	0.5231	-0.0032	0.0101	-
0.0040	1	.							
6582	CB	CB	. ASN ASN ASN B B 429 429 .	0.5467	0.5553	0.5322	-0.0011	0.0085	-
0.0056	1	.							



















6823	O	O	.	HOH	HOH	HOH	S	.	172	172	.	0.5603	0.7857	0.8115	0.3249	-0.0166
0.1248	1	.														
6824	O	O	.	HOH	HOH	HOH	S	.	173	173	.	0.4073	0.4007	0.2159	0.0105	0.0195
0.0716	1	.														
6825	O	O	.	HOH	HOH	HOH	S	.	174	174	.	0.3964	0.4209	0.3124	-0.0120	-0.1106
0.0863	1	.														
6826	O	O	.	HOH	HOH	HOH	S	.	175	175	.	0.8808	1.0711	0.5408	-0.1827	0.3241
0.0186	1	.														
6827	O	O	.	HOH	HOH	HOH	S	.	176	176	.	0.4212	0.7396	0.6969	-0.1429	0.1293
0.2375	1	.														
6828	O	O	.	HOH	HOH	HOH	S	.	177	177	.	0.2874	0.7507	0.7727	0.1956	-0.0810
0.0418	1	.														
6829	O	O	.	HOH	HOH	HOH	S	.	178	178	.	0.5458	0.9311	0.7616	0.0694	0.1941
0.0287	1	.														
6830	O	O	.	HOH	HOH	HOH	S	.	179	179	.	0.4979	0.9722	0.7853	0.0356	-0.4235
0.2834	1	.														
6831	O	O	.	HOH	HOH	HOH	S	.	180	180	.	0.5580	0.3852	0.5402	0.0547	0.1451
0.2437	1	.														
6832	O	O	.	HOH	HOH	HOH	S	.	181	181	.	0.7798	0.8154	0.5717	-0.2956	-0.0209
0.0430	1	.														
6833	O	O	.	HOH	HOH	HOH	S	.	182	182	.	0.2800	0.3535	0.4159	0.1073	0.0733
0.0598	1	.														
6834	O	O	.	HOH	HOH	HOH	S	.	183	183	.	0.3819	0.4896	0.4671	0.2713	0.0254
0.0766	1	.														
6835	O	O	.	HOH	HOH	HOH	S	.	184	184	.	0.7090	0.4124	0.5025	-0.0029	0.0143
0.0453	1	.														

#

_atom_sites.entry_id	UNNAMED
_atom_sites.fract_transf_matrix[1][1]	0.009123
_atom_sites.fract_transf_matrix[1][2]	0.000000
_atom_sites.fract_transf_matrix[1][3]	0.000000
_atom_sites.fract_transf_matrix[2][1]	0.000000
_atom_sites.fract_transf_matrix[2][2]	0.008380
_atom_sites.fract_transf_matrix[2][3]	0.000000
_atom_sites.fract_transf_matrix[3][1]	0.000000
_atom_sites.fract_transf_matrix[3][2]	0.000000
_atom_sites.fract_transf_matrix[3][3]	0.014642
_atom_sites.fract_transf_vector[1]	0.000000
_atom_sites.fract_transf_vector[2]	0.000000
_atom_sites.fract_transf_vector[3]	0.000000

#

_cell.length_a	109.608
_cell.length_b	119.336
_cell.length_c	68.297
_cell.angle_alpha	90.000
_cell.angle_beta	90.000
_cell.angle_gamma	90.000
_cell.entry_id	UNNAMED

#

_computing.entry_id	UNNAMED
_computing.structure_refinement	'REFMAC 5.5.0109'
_computing.structure_solution	?
_computing.pdbx_data_reduction_ds	HKL
_computing.pdbx_data_reduction_ii	HKL
_computing.cell_refinement	HKL

#

_data_extraction.software	pdb_extract
_data_extraction.extraction_date	'Fri Oct 21 12:25:18 2011'
_data_extraction.version	3.10
_data_extraction.release_date	'June 10, 2010'

```

_data_extraction.location          http://sw-tools.rcsb.org/apps/PDB_EXTRACT/
#
loop_
_database_2.database_id
_database_2.database_code
PDB UNNAMED
RCSB UNNAMED
#
_database_PDB_remark.id          3
_database_PDB_remark.text
;
REMARK 3
REMARK 3 REFINEMENT.
REMARK 3 PROGRAM : REFMAC 5.5.0109
REMARK 3 AUTHORS : MURSHUDOV,VAGIN,DODSON
REMARK 3
REMARK 3 REFINEMENT TARGET : MAXIMUM LIKELIHOOD
REMARK 3
REMARK 3 DATA USED IN REFINEMENT.
REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS) : 2.10
REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS) : 80.72
REMARK 3 DATA CUTOFF (SIGMA(F)) : NONE
REMARK 3 COMPLETENESS FOR RANGE (%) : 89.13
REMARK 3 NUMBER OF REFLECTIONS : 44629
REMARK 3
REMARK 3 FIT TO DATA USED IN REFINEMENT.
REMARK 3 CROSS-VALIDATION METHOD : THROUGHOUT
REMARK 3 FREE R VALUE TEST SET SELECTION : RANDOM
REMARK 3 R VALUE (WORKING + TEST SET) : 0.19202
REMARK 3 R VALUE (WORKING SET) : 0.18901
REMARK 3 FREE R VALUE : 0.24875
REMARK 3 FREE R VALUE TEST SET SIZE (%) : 5.1
REMARK 3 FREE R VALUE TEST SET COUNT : 2380
REMARK 3
REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK 3 TOTAL NUMBER OF BINS USED : 20
REMARK 3 BIN RESOLUTION RANGE HIGH : 2.104
REMARK 3 BIN RESOLUTION RANGE LOW : 2.159
REMARK 3 REFLECTION IN BIN (WORKING SET) : 1517
REMARK 3 BIN COMPLETENESS (WORKING+TEST) (%) : 41.66
REMARK 3 BIN R VALUE (WORKING SET) : 0.197
REMARK 3 BIN FREE R VALUE SET COUNT : 84
REMARK 3 BIN FREE R VALUE : 0.285
REMARK 3
REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK 3 ALL ATOMS : 6840
REMARK 3
REMARK 3 B VALUES.
REMARK 3 FROM WILSON PLOT (A**2) : NULL
REMARK 3 MEAN B VALUE (OVERALL, A**2) : 35.284
REMARK 3 OVERALL ANISOTROPIC B VALUE.
REMARK 3 B11 (A**2) : 5.95
REMARK 3 B22 (A**2) : -3.77
REMARK 3 B33 (A**2) : -2.18
REMARK 3 B12 (A**2) : 0.00
REMARK 3 B13 (A**2) : 0.00
REMARK 3 B23 (A**2) : 0.00
REMARK 3
REMARK 3 ESTIMATED OVERALL COORDINATE ERROR.
REMARK 3 ESU BASED ON R VALUE (A) : NULL

```

REMARK 3 ESU BASED ON FREE R VALUE (A): 0.217  
REMARK 3 ESU BASED ON MAXIMUM LIKELIHOOD (A): 0.143  
REMARK 3 ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A\*\*2): 11.869  
REMARK 3  
REMARK 3 CORRELATION COEFFICIENTS.  
REMARK 3 CORRELATION COEFFICIENT FO-FC : 0.950  
REMARK 3 CORRELATION COEFFICIENT FO-FC FREE : 0.921  
REMARK 3  
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES COUNT RMS WEIGHT  
REMARK 3 BOND LENGTHS REFINED ATOMS (A): 6751 ; 0.022 ; 0.022  
REMARK 3 BOND ANGLES REFINED ATOMS (DEGREES): 9130 ; 1.812 ; 1.970  
REMARK 3 TORSION ANGLES, PERIOD 1 (DEGREES): 861 ; 6.887 ; 5.000  
REMARK 3 TORSION ANGLES, PERIOD 2 (DEGREES): 308 ; 39.656 ; 25.000  
REMARK 3 TORSION ANGLES, PERIOD 3 (DEGREES): 1162 ; 16.385 ; 15.000  
REMARK 3 TORSION ANGLES, PERIOD 4 (DEGREES): 40 ; 21.725 ; 15.000  
REMARK 3 CHIRAL-CENTER RESTRAINTS (A\*\*3): 1025 ; 0.120 ; 0.200  
REMARK 3 GENERAL PLANES REFINED ATOMS (A): 5104 ; 0.008 ; 0.021  
REMARK 3  
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT  
REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A\*\*2): 4277 ; 1.494 ; 1.500  
REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A\*\*2): 6834 ; 2.468 ; 2.000  
REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A\*\*2): 2474 ; 4.342 ; 3.000  
REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A\*\*2): 2296 ; 6.554 ; 4.500  
REMARK 3  
REMARK 3 ANISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT  
REMARK 3 RIGID-BOND RESTRAINTS (A\*\*2): 6751 ; 2.464 ; 3.000  
REMARK 3  
REMARK 3 NCS RESTRAINTS STATISTICS  
REMARK 3 NUMBER OF NCS GROUPS : NULL  
REMARK 3  
REMARK 3 TWIN DETAILS  
REMARK 3 NUMBER OF TWIN DOMAINS : NULL  
REMARK 3  
REMARK 3  
REMARK 3 TLS DETAILS  
REMARK 3 NUMBER OF TLS GROUPS : NULL  
REMARK 3  
REMARK 3  
REMARK 3 BULK SOLVENT MODELLING.  
REMARK 3 METHOD USED : MASK  
REMARK 3 PARAMETERS FOR MASK CALCULATION  
REMARK 3 VDW PROBE RADIUS : 1.40  
REMARK 3 ION PROBE RADIUS : 0.80  
REMARK 3 SHRINKAGE RADIUS : 0.80  
REMARK 3  
REMARK 3 OTHER REFINEMENT REMARKS:  
REMARK 3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS  
REMARK 3 U VALUES : REFINED INDIVIDUALLY  
REMARK 3

;  
#  
\_entity\_poly.entity\_id 1  
\_entity\_poly.pdbx\_seq\_one\_letter\_code  
;SIQKIWAREILDSRGNPTVEVDLYTAKGLFRAAVPSGASTGIYEALERDGDQRYLGKG  
VLKAVDHINSTIAPALISSGLSVVEQEKLNLMLDGTENKSKFGANAILGVSLAVCKA  
GAAERELPLYRHIAQLAGNSDLILPVPFNVINGGSHAGNKLAMQEFMILPVGAESFRDA  
MRLGAEVYHTLKGVIKDKYGKDATNVGDEGGFAPNILENSEALELVKEAIDKAGYTEKIV  
IGMDVAASEFYRDGKYDLDFKSPTDPSRYITGDQLGALYQDFVRDYPVVSIEDPFDQDDW  
AAWSKFTANVGIQIVGDDLTVTNPKRIERAVEEKACNCLLLKVNQIGSVTEAIQACKLAQ  
ENGWGVMVSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEELGDEA

RFAGHNFRNPSVL

```
;  
_entity_poly.pdbx_strand_id      A,B  
_entity_poly.type                 'polypeptide(L)'  
_entity_poly.pdbx_target_identifier ?  
#  
_entry.id      UNNAMED  
#  
_exptl.crystals_number      1  
_exptl.entry_id      UNNAMED  
_exptl.method      'X-RAY DIFFRACTION'  
#  
_exptl_crystal.id      1  
_exptl_crystal.pdbx_mosaicity      0.786  
_exptl_crystal.pdbx_mosaicity_esd  ?  
_exptl_crystal.density_Matthews    ?  
_exptl_crystal.density_diffn       ?  
_exptl_crystal.density_meas        ?  
_exptl_crystal.density_meas_temp   ?  
_exptl_crystal.density_percent_sol ?  
_exptl_crystal.size_max            ?  
_exptl_crystal.size_mid            ?  
_exptl_crystal.size_min            ?  
_exptl_crystal.size_rad            ?  
#  
_refine.entry_id      UNNAMED  
_refine.pdbx_refine_id      'X-RAY DIFFRACTION'  
_refine.ls_d_res_high      2.1000  
_refine.ls_d_res_low      80.7200  
_refine.pdbx_ls_sigma_F      0.000  
_refine.pdbx_data_cutoff_high_absF ?  
_refine.pdbx_data_cutoff_low_absF ?  
_refine.ls_percent_reflms_obs    89.1300  
_refine.ls_number_reflms_obs     47009  
_refine.ls_number_reflms_all     ?  
_refine.pdbx_ls_cross_valid_method THROUGHOUT  
_refine.ls_matrix_type         ?  
_refine.pdbx_R_Free_selection_details RANDOM  
_refine.details  
' HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS U VALUES      : REFINED  
INDIVIDUALLY '  
_refine.ls_R_factor_all      ?  
_refine.ls_R_factor_obs      0.1920  
_refine.ls_R_factor_R_work   0.1890  
_refine.ls_wR_factor_R_work  0.1882  
_refine.ls_R_factor_R_free   0.2488  
_refine.ls_wR_factor_R_free  0.2457  
_refine.ls_percent_reflms_R_free 5.1000  
_refine.ls_number_reflms_R_free 2380  
_refine.ls_number_reflms_R_work 44629  
_refine.ls_R_factor_R_free_error ?  
_refine.B_iso_mean          35.2563  
_refine.solvent_model_param_bsol ?  
_refine.solvent_model_param_ksol ?  
_refine.pdbx_isotropic_thermal_model ?  
_refine.aniso_B[1][1]      5.9500  
_refine.aniso_B[2][2]      -3.7700  
_refine.aniso_B[3][3]      -2.1800  
_refine.aniso_B[1][2]      0.0000  
_refine.aniso_B[1][3]      0.0000
```

_refine.aniso_B[2][3]	0.0000
_refine.correlation_coeff_Fo_to_Fc	0.9500
_refine.correlation_coeff_Fo_to_Fc_free	0.9210
_refine.overall_SU_R_Cruickshank_DPI	?
_refine.pdbx_overall_SU_R_free_Cruickshank_DPI	?
_refine.pdbx_overall_SU_R_Blow_DPI	?
_refine.pdbx_overall_SU_R_free_Blow_DPI	?
_refine.overall_SU_R_free	0.2166
_refine.pdbx_overall_ESU_R	?
_refine.pdbx_overall_ESU_R_Free	0.2170
_refine.overall_SU_ML	0.1430
_refine.overall_SU_B	11.8690
_refine.solvent_model_details	MASK
_refine.pdbx_solvent_vdw_probe_radii	1.4000
_refine.pdbx_solvent_ion_probe_radii	0.8000
_refine.pdbx_solvent_shrinkage_radii	0.8000
_refine.ls_number_parameters	?
_refine.ls_number_restraints	?
_refine.pdbx_starting_model	?
_refine.pdbx_method_to_determine_struct	?
_refine.pdbx_stereochemistry_target_values	'MAXIMUM LIKELIHOOD'
_refine.pdbx_stereochem_target_val_spec_case	?
_refine.overall_FOM_work_R_set	0.8220
_refine.B_iso_max	265.390
_refine.B_iso_min	5.450
_refine.pdbx_overall_phase_error	?
_refine.occupancy_max	1.000
_refine.occupancy_min	0.690
#	
loop_	
_refine_ls_restr.pdbx_refine_id	
_refine_ls_restr.type	
_refine_ls_restr.number	
_refine_ls_restr.dev_ideal	
_refine_ls_restr.dev_ideal_target	
_refine_ls_restr.weight	
_refine_ls_restr.pdbx_restraint_function	
'X-RAY DIFFRACTION' r_bond_refined_d	6751 0.022 0.022 ? ?
'X-RAY DIFFRACTION' r_angle_refined_deg	9130 1.812 1.970 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_1_deg	861 6.887 5.000 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_2_deg	308 39.656 25.000 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_3_deg	1162 16.385 15.000 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_4_deg	40 21.725 15.000 ? ?
'X-RAY DIFFRACTION' r_chiral_restr	1025 0.120 0.200 ? ?
'X-RAY DIFFRACTION' r_gen_planes_refined	5104 0.008 0.021 ? ?
'X-RAY DIFFRACTION' r_mcbond_it	4277 1.494 1.500 ? ?
'X-RAY DIFFRACTION' r_mcbond_angle_it	6834 2.468 2.000 ? ?
'X-RAY DIFFRACTION' r_scbond_it	2474 4.342 3.000 ? ?
'X-RAY DIFFRACTION' r_scbond_angle_it	2296 6.554 4.500 ? ?
'X-RAY DIFFRACTION' r_rigid_bond_restr	6751 2.464 3.000 ? ?
#	
_refine_ls_shell.d_res_high	2.1040
_refine_ls_shell.d_res_low	2.1590
_refine_ls_shell.pdbx_total_number_of_bins_used	20
_refine_ls_shell.percent_reflns_obs	41.6600
_refine_ls_shell.number_reflns_R_work	1517
_refine_ls_shell.R_factor_all	?
_refine_ls_shell.R_factor_R_work	0.1970
_refine_ls_shell.R_factor_R_free	0.2850
_refine_ls_shell.percent_reflns_R_free	?

```

_refine_ls_shell.number_reflms_R_free      84
_refine_ls_shell.R_factor_R_free_error    ?
_refine_ls_shell.number_reflms_all        1601
_refine_ls_shell.number_reflms_obs        ?
_refine_ls_shell.pdbx_refine_id           'X-RAY DIFFRACTION'
#

```

```

_reflms.entry_id          UNNAMED
_reflms.d_resolution_high 2.100
_reflms.d_resolution_low  50.000
_reflms.pdbx_number_measured_all 202803
_reflms.number_obs        47176
_reflms.pdbx_Rmerge_I_obs 0.058
_reflms.pdbx_netI_over_av_sigmaI 30.231
_reflms.pdbx_netI_over_sigmaI 17.000
_reflms.pdbx_chi_squared  1.843
_reflms.pdbx_redundancy   4.300
_reflms.percent_possible_obs 89.800
_reflms.pdbx_Rmeas_mean   0.058
_reflms.pdbx_average_I_obs 9377.700
_reflms.pdbx_average_sigmaI_obs 310.200
#

```

```

loop_
_reflms_shell.d_res_high
_reflms_shell.d_res_low
_reflms_shell.number_measured_obs
_reflms_shell.number_measured_all
_reflms_shell.number_unique_obs
_reflms_shell.pdbx_rejects
_reflms_shell.Rmerge_I_obs
_reflms_shell.meanI_over_sigI_obs
_reflms_shell.pdbx_Rsym_value
_reflms_shell.pdbx_chi_squared
_reflms_shell.pdbx_redundancy
_reflms_shell.percent_possible_obs
_reflms_shell.pdbx_Rmeas_mean
_reflms_shell.pdbx_netI_over_sigmaI_obs
_reflms_shell.pdbx_number_centric
_reflms_shell.pdbx_number_anomalous
_reflms_shell.pdbx_Rmerge_I_anomalous
_reflms_shell.pdbx_meanI_over_sigI_anomalous
_reflms_shell.pdbx_PCV_mean
_reflms_shell.number_possible
_reflms_shell.number_unique_all
_reflms_shell.Rmerge_F_all
_reflms_shell.Rmerge_F_obs
_reflms_shell.Rmerge_I_all
_reflms_shell.meanI_over_sigI_all
_reflms_shell.percent_possible_all
_reflms_shell.pdbx_Rrim_I_all
_reflms_shell.pdbx_Rpim_I_all

```

```

2.100 2.180 ? ? ? ? 0.161 ? ? 0.978 2.400 ? ? ? ? ? ? ? ? ? ? 2441 ? ? ? ? 47.300 ? ?
2.180 2.260 ? ? ? ? 0.143 ? ? 1.153 2.600 ? ? ? ? ? ? ? ? ? ? 3478 ? ? ? ? 67.300 ? ?
2.260 2.370 ? ? ? ? 0.146 ? ? 1.192 3.000 ? ? ? ? ? ? ? ? ? ? 4610 ? ? ? ? 88.600 ? ?
2.370 2.490 ? ? ? ? 0.151 ? ? 1.201 4.400 ? ? ? ? ? ? ? ? ? ? 5162 ? ? ? ? 99.400 ? ?
2.490 2.650 ? ? ? ? 0.126 ? ? 1.319 4.800 ? ? ? ? ? ? ? ? ? ? 5190 ? ? ? ? 99.900 ? ?
2.650 2.850 ? ? ? ? 0.099 ? ? 1.489 4.900 ? ? ? ? ? ? ? ? ? ? 5217 ? ? ? ? 99.800 ? ?
2.850 3.140 ? ? ? ? 0.076 ? ? 1.758 4.900 ? ? ? ? ? ? ? ? ? ? 5227 ? ? ? ? 99.800 ? ?
3.140 3.590 ? ? ? ? 0.057 ? ? 2.098 4.900 ? ? ? ? ? ? ? ? ? ? 5248 ? ? ? ? 99.500 ? ?
3.590 4.520 ? ? ? ? 0.044 ? ? 2.643 4.700 ? ? ? ? ? ? ? ? ? ? 5244 ? ? ? ? 98.900 ? ?
4.520 50.000 ? ? ? ? 0.042 ? ? 3.015 4.600 ? ? ? ? ? ? ? ? ? ? 5359 ? ? ? ? 96.500 ? ?

```

```

#
loop_
_software.pdbx_ordinal
_software.name
_software.version
_software.date
_software.type
_software.contact_author
_software.contact_author_email
_software.classification
_software.location
_software.language
1 HKL      ?      ?      package 'Zbyszek Otwinowski' hkl@hkl-xray.com
'data reduction' http://www.hkl-xray.com/      ?
2 REFMAC5  ?      ?      program 'Garib N. Murshudov' garib@ysbl.york.ac.uk
refinement      http://www.ccp4.ac.uk/dist/html/refmac5.html Fortran_77
3 pdb_extract 3.10 'June 10, 2010' package PDB
deposit@deposit.rcsb.org
'data extraction' http://sw-tools.pdb.org/apps/PDB_EXTRACT/      C++
#
_struct_biol.id      1
_struct_biol.details ?
#
_symmetry.space_group_name_H-M 'P 21 21 2'
_symmetry.entry_id    UNNAMED
_symmetry.Int_Tables_number 18
#

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## CIF File(s) (REQUIRED if paper describes X-ray crystal structures)

data\_UNNAMED

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ATOM 1	N	N	.	SER	SER	SER	A	A	1	1	.	65.922	77.069	21.744	1.00	17.83
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1 . .

ATOM 2	CA	CA	.	SER	SER	SER	A	A	1	1	.	67.295	76.500	21.316	1.00	18.18
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1 . .

ATOM 3	CB	CB	.	SER	SER	SER	A	A	1	1	.	67.252	74.978	21.025	1.00	19.26
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1 . .

ATOM 4	OG	OG	.	SER	SER	SER	A	A	1	1	.	66.292	74.679	20.001	1.00	26.51
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1 . .

ATOM 5	C	C	.	SER	SER	SER	A	A	1	1	.	67.816	77.196	20.056	1.00	16.96
--------	---	---	---	-----	-----	-----	---	---	---	---	---	--------	--------	--------	------	-------

1 . .

ATOM 6	O	O	.	SER	SER	SER	A	A	1	1	.	67.099	77.950	19.391	1.00	17.53
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1 . .

ATOM 7	N	N	.	ILE	ILE	ILE	A	A	2	2	.	69.074	76.932	19.737	1.00	14.62
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1 . .

ATOM 8	CA	CA	.	ILE	ILE	ILE	A	A	2	2	.	69.673	77.543	18.561	1.00	12.85
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1 . .

ATOM 9	CB	CB	.	ILE	ILE	ILE	A	A	2	2	.	71.174	77.318	18.623	1.00	11.42
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1 . .

ATOM 10	CG1	CG1	.	ILE	ILE	ILE	A	A	2	2	.	71.724	78.055	19.822	1.00	11.23
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1 . .

ATOM 11	CD1	CD1	.	ILE	ILE	ILE	A	A	2	2	.	73.161	77.633	20.153	1.00	11.51
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1 . .

ATOM 12	CG2	CG2	.	ILE	ILE	ILE	A	A	2	2	.	71.783	77.838	17.339	1.00	12.06
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1 . .

ATOM 13	C	C	.	ILE	ILE	ILE	A	A	2	2	.	69.080	76.939	17.303	1.00	14.70
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1 . .

ATOM 14	O	O	.	ILE	ILE	ILE	A	A	2	2	.	68.993	75.659	17.173	1.00	14.31
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1 . .

ATOM 15	N	N	.	GLN	GLN	GLN	A	A	3	3	.	68.628	77.789	16.383	1.00	14.97
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1 . .

ATOM 16	CA	CA	.	GLN	GLN	GLN	A	A	3	3	.	68.107	77.275	15.092	1.00	17.20
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1 . .

ATOM 17	CB	CB	.	GLN	GLN	GLN	A	A	3	3	.	66.956	78.144	14.564	1.00	18.26
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1 . .

ATOM 18	CG	CG	.	GLN	GLN	GLN	A	A	3	3	.	65.778	78.259	15.482	1.00	22.37
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1 . .























ATOM 319	CG	CG	. TYR TYR TYR A A 43 43	. 101.938 82.948 28.644 1.00 11.40
1 . .				
ATOM 320	CD1	CD1	. TYR TYR TYR A A 43 43	. 102.832 83.969 29.041 1.00 10.66
1 . .				
ATOM 321	CE1	CE1	. TYR TYR TYR A A 43 43	. 104.169 83.639 29.475 1.00 14.28
1 . .				
ATOM 322	CZ	CZ	. TYR TYR TYR A A 43 43	. 104.560 82.288 29.427 1.00 15.54
1 . .				
ATOM 323	OH	OH	. TYR TYR TYR A A 43 43	. 105.817 81.960 29.802 1.00 18.16
1 . .				
ATOM 324	CE2	CE2	. TYR TYR TYR A A 43 43	. 103.709 81.295 29.013 1.00 15.20
1 . .				
ATOM 325	CD2	CD2	. TYR TYR TYR A A 43 43	. 102.391 81.629 28.624 1.00 13.19
1 . .				
ATOM 326	C	C	. TYR TYR TYR A A 43 43	. 98.895 83.234 26.237 1.00 9.00
1 . .				
ATOM 327	O	O	. TYR TYR TYR A A 43 43	. 97.996 82.559 26.796 1.00 11.37
1 . .				
ATOM 328	N	N	. GLU GLU GLU A A 44 44	. 98.624 84.088 25.242 1.00 8.09
1 . .				
ATOM 329	CA	CA	. GLU GLU GLU A A 44 44	. 97.177 84.200 24.821 1.00 8.15
1 . .				
ATOM 330	CB	CB	. GLU GLU GLU A A 44 44	. 97.046 85.309 23.793 1.00 8.97
1 . .				
ATOM 331	CG	CG	. GLU GLU GLU A A 44 44	. 97.389 86.630 24.392 1.00 8.35
1 . .				
ATOM 332	CD	CD	. GLU GLU GLU A A 44 44	. 96.971 87.843 23.507 1.00 8.56
1 . .				
ATOM 333	OE1	OE1	. GLU GLU GLU A A 44 44	. 96.140 87.659 22.564 1.00 10.84
1 . .				
ATOM 334	OE2	OE2	. GLU GLU GLU A A 44 44	. 97.470 88.946 23.819 1.00 10.45
1 . .				
ATOM 335	C	C	. GLU GLU GLU A A 44 44	. 96.710 82.869 24.160 1.00 8.17
1 . .				
ATOM 336	O	O	. GLU GLU GLU A A 44 44	. 97.534 82.079 23.613 1.00 10.14
1 . .				
ATOM 337	N	N	. ALA ALA ALA A A 45 45	. 95.418 82.614 24.258 1.00 8.90
1 . .				
ATOM 338	CA	CA	. ALA ALA ALA A A 45 45	. 94.799 81.486 23.592 1.00 8.64
1 . .				
ATOM 339	CB	CB	. ALA ALA ALA A A 45 45	. 93.309 81.407 23.938 1.00 7.41
1 . .				
ATOM 340	C	C	. ALA ALA ALA A A 45 45	. 95.051 81.607 22.073 1.00 9.51
1 . .				
ATOM 341	O	O	. ALA ALA ALA A A 45 45	. 95.231 82.688 21.520 1.00 9.33
1 . .				
ATOM 342	N	N	. LEU LEU LEU A A 46 46	. 95.074 80.463 21.407 1.00 9.61
1 . .				
ATOM 343	CA	CA	. LEU LEU LEU A A 46 46	. 95.401 80.386 19.988 1.00 10.14
1 . .				
ATOM 344	CB	CB	. LEU LEU LEU A A 46 46	. 95.573 78.875 19.564 1.00 11.08
1 . .				
ATOM 345	CG	CG	. LEU LEU LEU A A 46 46	. 96.292 78.554 18.213 1.00 17.98
1 . .				
ATOM 346	CD1	CD1	. LEU LEU LEU A A 46 46	. 95.493 77.866 17.199 1.00 16.80
1 . .				
ATOM 347	CD2	CD2	. LEU LEU LEU A A 46 46	. 97.291 79.517 17.720 1.00 19.05
1 . .				
ATOM 348	C	C	. LEU LEU LEU A A 46 46	. 94.461 81.170 19.044 1.00 9.69
1 . .				













ATOM 499	OD2	OD2	. ASP ASP ASP A A 66 66 . 86.131 73.019 8.540 1.00 32.30
1 . .			
ATOM 500	C	C	. ASP ASP ASP A A 66 66 . 84.463 75.276 10.243 1.00 8.67
1 . .			
ATOM 501	O	O	. ASP ASP ASP A A 66 66 . 83.512 74.487 10.372 1.00 8.53
1 . .			
ATOM 502	N	N	. HIS HIS HIS A A 67 67 . 85.393 75.435 11.191 1.00 9.43
1 . .			
ATOM 503	CA	CA	. HIS HIS HIS A A 67 67 . 85.182 74.747 12.517 1.00 8.73
1 . .			
ATOM 504	CB	CB	. HIS HIS HIS A A 67 67 . 86.305 75.039 13.528 1.00 9.31
1 . .			
ATOM 505	CG	CG	. HIS HIS HIS A A 67 67 . 87.604 74.406 13.163 1.00 10.80
1 . .			
ATOM 506	ND1	ND1	. HIS HIS HIS A A 67 67 . 87.711 73.042 12.916 1.00 13.15
1 . .			
ATOM 507	CE1	CE1	. HIS HIS HIS A A 67 67 . 88.981 72.743 12.674 1.00 15.50
1 . .			
ATOM 508	NE2	NE2	. HIS HIS HIS A A 67 67 . 89.694 73.860 12.739 1.00 12.25
1 . .			
ATOM 509	CD2	CD2	. HIS HIS HIS A A 67 67 . 88.860 74.907 13.107 1.00 11.55
1 . .			
ATOM 510	C	C	. HIS HIS HIS A A 67 67 . 83.845 75.187 13.126 1.00 8.29
1 . .			
ATOM 511	O	O	. HIS HIS HIS A A 67 67 . 83.087 74.389 13.670 1.00 8.64
1 . .			
ATOM 512	N	N	. ILE ILE ILE A A 68 68 . 83.534 76.484 13.015 1.00 8.21
1 . .			
ATOM 513	CA	CA	. ILE ILE ILE A A 68 68 . 82.216 76.945 13.450 1.00 7.38
1 . .			
ATOM 514	CB	CB	. ILE ILE ILE A A 68 68 . 82.106 78.528 13.441 1.00 7.19
1 . .			
ATOM 515	CG1	CG1	. ILE ILE ILE A A 68 68 . 83.066 79.118 14.494 1.00 6.26
1 . .			
ATOM 516	CD1	CD1	. ILE ILE ILE A A 68 68 . 83.375 80.608 14.103 1.00 7.74
1 . .			
ATOM 517	CG2	CG2	. ILE ILE ILE A A 68 68 . 80.654 78.975 13.754 1.00 5.77
1 . .			
ATOM 518	C	C	. ILE ILE ILE A A 68 68 . 81.069 76.324 12.650 1.00 8.38
1 . .			
ATOM 519	O	O	. ILE ILE ILE A A 68 68 . 80.096 75.762 13.232 1.00 8.39
1 . .			
ATOM 520	N	N	. ASN ASN ASN A A 69 69 . 81.117 76.436 11.328 1.00 8.12
1 . .			
ATOM 521	CA	CA	. ASN ASN ASN A A 69 69 . 79.961 76.048 10.547 1.00 7.49
1 . .			
ATOM 522	CB	CB	. ASN ASN ASN A A 69 69 . 80.140 76.581 9.142 1.00 7.81
1 . .			
ATOM 523	CG	CG	. ASN ASN ASN A A 69 69 . 79.980 78.112 9.116 1.00 9.03
1 . .			
ATOM 524	OD1	OD1	. ASN ASN ASN A A 69 69 . 79.261 78.650 9.925 1.00 11.10
1 . .			
ATOM 525	ND2	ND2	. ASN ASN ASN A A 69 69 . 80.522 78.748 8.105 1.00 10.89
1 . .			
ATOM 526	C	C	. ASN ASN ASN A A 69 69 . 79.673 74.569 10.505 1.00 9.13
1 . .			
ATOM 527	O	O	. ASN ASN ASN A A 69 69 . 78.497 74.187 10.490 1.00 9.26
1 . .			
ATOM 528	N	N	. SER SER SER A A 70 70 . 80.722 73.762 10.541 1.00 9.46
1 . .			



































ATOM 979	NH2	NH2	. ARG ARG ARG A A 131 131 . 69.797 97.692 36.153 1.00 36.01
1 . .			
ATOM 980	C	C	. ARG ARG ARG A A 131 131 . 71.839 92.091 31.991 1.00 9.73
1 . .			
ATOM 981	O	O	. ARG ARG ARG A A 131 131 . 71.998 91.517 33.084 1.00 9.66
1 . .			
ATOM 982	N	N	. HIS HIS HIS A A 132 132 . 71.861 91.452 30.826 1.00 8.42
1 . .			
ATOM 983	CA	CA	. HIS HIS HIS A A 132 132 . 72.054 90.022 30.783 1.00 7.53
1 . .			
ATOM 984	CB	CB	. HIS HIS HIS A A 132 132 . 71.844 89.564 29.367 1.00 9.55
1 . .			
ATOM 985	CG	CG	. HIS HIS HIS A A 132 132 . 72.087 88.104 29.150 1.00 10.45
1 . .			
ATOM 986	ND1	ND1	. HIS HIS HIS A A 132 132 . 71.482 87.130 29.905 1.00 12.33
1 . .			
ATOM 987	CE1	CE1	. HIS HIS HIS A A 132 132 . 71.840 85.934 29.435 1.00 15.55
1 . .			
ATOM 988	NE2	NE2	. HIS HIS HIS A A 132 132 . 72.642 86.100 28.391 1.00 12.98
1 . .			
ATOM 989	CD2	CD2	. HIS HIS HIS A A 132 132 . 72.796 87.457 28.171 1.00 10.19
1 . .			
ATOM 990	C	C	. HIS HIS HIS A A 132 132 . 73.427 89.690 31.308 1.00 7.97
1 . .			
ATOM 991	O	O	. HIS HIS HIS A A 132 132 . 73.595 88.760 32.103 1.00 8.54
1 . .			
ATOM 992	N	N	. ILE ILE ILE A A 133 133 . 74.427 90.447 30.892 1.00 7.59
1 . .			
ATOM 993	CA	CA	. ILE ILE ILE A A 133 133 . 75.801 90.195 31.376 1.00 8.56
1 . .			
ATOM 994	CB	CB	. ILE ILE ILE A A 133 133 . 76.808 91.079 30.608 1.00 9.07
1 . .			
ATOM 995	CG1	CG1	. ILE ILE ILE A A 133 133 . 76.900 90.547 29.208 1.00 8.31
1 . .			
ATOM 996	CD1	CD1	. ILE ILE ILE A A 133 133 . 77.695 91.569 28.222 1.00 6.69
1 . .			
ATOM 997	CG2	CG2	. ILE ILE ILE A A 133 133 . 78.193 91.095 31.288 1.00 9.14
1 . .			
ATOM 998	C	C	. ILE ILE ILE A A 133 133 . 75.872 90.368 32.902 1.00 9.02
1 . .			
ATOM 999	O	O	. ILE ILE ILE A A 133 133 . 76.496 89.571 33.587 1.00 8.65
1 . .			
ATOM 1000	N	N	. ALA ALA ALA A A 134 134 . 75.269 91.451 33.420 1.00 9.05
1 . .			
ATOM 1001	CA	CA	. ALA ALA ALA A A 134 134 . 75.264 91.651 34.899 1.00 10.86
1 . .			
ATOM 1002	CB	CB	. ALA ALA ALA A A 134 134 . 74.426 92.889 35.216 1.00 9.88
1 . .			
ATOM 1003	C	C	. ALA ALA ALA A A 134 134 . 74.673 90.400 35.585 1.00 9.97
1 . .			
ATOM 1004	O	O	. ALA ALA ALA A A 134 134 . 75.203 89.914 36.587 1.00 11.58
1 . .			
ATOM 1005	N	N	. GLN GLN GLN A A 135 135 . 73.584 89.873 35.026 1.00 12.12
1 . .			
ATOM 1006	CA	CA	. GLN GLN GLN A A 135 135 . 73.006 88.657 35.621 1.00 11.27
1 . .			
ATOM 1007	CB	CB	. GLN GLN GLN A A 135 135 . 71.649 88.277 35.029 1.00 12.15
1 . .			
ATOM 1008	CG	CG	. GLN GLN GLN A A 135 135 . 70.631 89.337 35.362 1.00 13.80
1 . .			

























































ATOM 1759	C	C	. THR THR THR A A 236 236 . 93.398 119.238 35.594 1.00 14.03
1 . .			
ATOM 1760	O	O	. THR THR THR A A 236 236 . 93.954 118.218 36.049 1.00 13.69
1 . .			
ATOM 1761	N	N	. GLU GLU GLU A A 237 237 . 92.288 119.759 36.143 1.00 14.78
1 . .			
ATOM 1762	CA	CA	. GLU GLU GLU A A 237 237 . 91.834 119.194 37.438 1.00 17.98
1 . .			
ATOM 1763	CB	CB	. GLU GLU GLU A A 237 237 . 91.089 120.272 38.287 1.00 21.07
1 . .			
ATOM 1764	C	C	. GLU GLU GLU A A 237 237 . 90.995 117.914 37.186 1.00 18.33
1 . .			
ATOM 1765	O	O	. GLU GLU GLU A A 237 237 . 90.768 117.083 38.114 1.00 20.92
1 . .			
ATOM 1766	N	N	. LYS LYS LYS A A 238 238 . 90.641 117.648 35.932 1.00 15.02
1 . .			
ATOM 1767	CA	CA	. LYS LYS LYS A A 238 238 . 89.613 116.616 35.725 1.00 11.54
1 . .			
ATOM 1768	CB	CB	. LYS LYS LYS A A 238 238 . 88.430 117.249 34.987 1.00 12.24
1 . .			
ATOM 1769	CG	CG	. LYS LYS LYS A A 238 238 . 87.606 118.266 35.866 1.00 16.37
1 . .			
ATOM 1770	CD	CD	. LYS LYS LYS A A 238 238 . 86.299 118.620 34.983 1.00 18.81
1 . .			
ATOM 1771	CE	CE	. LYS LYS LYS A A 238 238 . 85.117 119.178 35.748 1.00 25.87
1 . .			
ATOM 1772	NZ	NZ	. LYS LYS LYS A A 238 238 . 85.754 120.339 36.267 1.00 30.64
1 . .			
ATOM 1773	C	C	. LYS LYS LYS A A 238 238 . 90.087 115.460 34.865 1.00 10.70
1 . .			
ATOM 1774	O	O	. LYS LYS LYS A A 238 238 . 89.379 114.468 34.746 1.00 9.94
1 . .			
ATOM 1775	N	N	. ILE ILE ILE A A 239 239 . 91.299 115.571 34.320 1.00 9.25
1 . .			
ATOM 1776	CA	CA	. ILE ILE ILE A A 239 239 . 91.766 114.525 33.437 1.00 9.30
1 . .			
ATOM 1777	CB	CB	. ILE ILE ILE A A 239 239 . 91.732 114.982 31.920 1.00 10.95
1 . .			
ATOM 1778	CG1	CG1	. ILE ILE ILE A A 239 239 . 90.268 115.340 31.484 1.00 11.28
1 . .			
ATOM 1779	CD1	CD1	. ILE ILE ILE A A 239 239 . 90.114 116.043 30.065 1.00 13.53
1 . .			
ATOM 1780	CG2	CG2	. ILE ILE ILE A A 239 239 . 92.364 113.824 30.999 1.00 10.39
1 . .			
ATOM 1781	C	C	. ILE ILE ILE A A 239 239 . 93.120 114.087 33.876 1.00 10.14
1 . .			
ATOM 1782	O	O	. ILE ILE ILE A A 239 239 . 94.014 114.921 34.115 1.00 12.32
1 . .			
ATOM 1783	N	N	. VAL VAL VAL A A 240 240 . 93.273 112.770 33.976 1.00 8.63
1 . .			
ATOM 1784	CA	CA	. VAL VAL VAL A A 240 240 . 94.628 112.161 34.355 1.00 9.00
1 . .			
ATOM 1785	CB	CB	. VAL VAL VAL A A 240 240 . 94.565 111.481 35.731 1.00 8.46
1 . .			
ATOM 1786	CG1	CG1	. VAL VAL VAL A A 240 240 . 94.279 112.595 36.783 1.00 12.17
1 . .			
ATOM 1787	CG2	CG2	. VAL VAL VAL A A 240 240 . 93.541 110.336 35.751 1.00 10.44
1 . .			
ATOM 1788	C	C	. VAL VAL VAL A A 240 240 . 95.123 111.192 33.264 1.00 8.14
1 . .			

























































































ATOM 2959	C	C	. ILE ILE ILE A A 392 392 . 88.448 101.497 28.895 1.00 6.47
1 . .			
ATOM 2960	O	O	. ILE ILE ILE A A 392 392 . 88.464 102.768 28.920 1.00 6.66
1 . .			
ATOM 2961	N	N	. LYS LYS LYS A A 393 393 . 89.285 100.769 28.138 1.00 5.64
1 . .			
ATOM 2962	CA	CA	. LYS LYS LYS A A 393 393 . 90.061 101.495 27.100 1.00 4.87
1 . .			
ATOM 2963	CB	CB	. LYS LYS LYS A A 393 393 . 91.631 101.306 27.238 1.00 4.53
1 . .			
ATOM 2964	CG	CG	. LYS LYS LYS A A 393 393 . 92.160 99.879 27.209 1.00 5.97
1 . .			
ATOM 2965	CD	CD	. LYS LYS LYS A A 393 393 . 93.717 99.953 27.345 1.00 6.73
1 . .			
ATOM 2966	CE	CE	. LYS LYS LYS A A 393 393 . 94.384 98.792 26.542 1.00 5.47
1 . .			
ATOM 2967	NZ	NZ	. LYS LYS LYS A A 393 393 . 95.926 98.939 26.747 1.00 7.67
1 . .			
ATOM 2968	C	C	. LYS LYS LYS A A 393 393 . 89.608 100.869 25.761 1.00 5.68
1 . .			
ATOM 2969	O	O	. LYS LYS LYS A A 393 393 . 89.616 99.616 25.596 1.00 5.36
1 . .			
ATOM 2970	N	N	. THR THR THR A A 394 394 . 89.194 101.722 24.833 1.00 6.30
1 . .			
ATOM 2971	CA	CA	. THR THR THR A A 394 394 . 88.709 101.174 23.564 1.00 6.07
1 . .			
ATOM 2972	CB	CB	. THR THR THR A A 394 394 . 87.222 100.680 23.612 1.00 6.24
1 . .			
ATOM 2973	OG1	OG1	. THR THR THR A A 394 394 . 86.915 100.113 22.322 1.00 6.19
1 . .			
ATOM 2974	CG2	CG2	. THR THR THR A A 394 394 . 86.260 101.875 23.945 1.00 6.51
1 . .			
ATOM 2975	C	C	. THR THR THR A A 394 394 . 89.028 102.156 22.442 1.00 5.40
1 . .			
ATOM 2976	O	O	. THR THR THR A A 394 394 . 88.347 102.195 21.424 1.00 6.80
1 . .			
ATOM 2977	N	N	. GLY GLY GLY A A 395 395 . 90.125 102.911 22.599 1.00 6.18
1 . .			
ATOM 2978	CA	CA	. GLY GLY GLY A A 395 395 . 90.655 103.738 21.493 1.00 6.22
1 . .			
ATOM 2979	C	C	. GLY GLY GLY A A 395 395 . 90.719 105.208 21.833 1.00 5.30
1 . .			
ATOM 2980	O	O	. GLY GLY GLY A A 395 395 . 90.093 105.666 22.827 1.00 7.52
1 . .			
ATOM 2981	N	N	. ALA ALA ALA A A 396 396 . 91.466 105.946 20.986 1.00 6.36
1 . .			
ATOM 2982	CA	CA	. ALA ALA ALA A A 396 396 . 91.270 107.377 20.884 1.00 6.52
1 . .			
ATOM 2983	CB	CB	. ALA ALA ALA A A 396 396 . 92.163 107.939 19.774 1.00 6.77
1 . .			
ATOM 2984	C	C	. ALA ALA ALA A A 396 396 . 89.802 107.583 20.499 1.00 7.21
1 . .			
ATOM 2985	O	O	. ALA ALA ALA A A 396 396 . 89.154 106.635 20.041 1.00 6.72
1 . .			
ATOM 2986	N	N	. PRO PRO PRO A A 397 397 . 89.275 108.834 20.636 1.00 7.18
1 . .			
ATOM 2987	CA	CA	. PRO PRO PRO A A 397 397 . 87.923 109.185 20.069 1.00 5.48
1 . .			
ATOM 2988	CB	CB	. PRO PRO PRO A A 397 397 . 87.547 110.444 20.849 1.00 4.91
1 . .			

ATOM 2989	CG	CG	. PRO PRO PRO A A 397 397 . 88.864	111.123	21.123	1.00	5.61
1 . .							
ATOM 2990	CD	CD	. PRO PRO PRO A A 397 397 . 89.891	109.976	21.378	1.00	5.04
1 . .							
ATOM 2991	C	C	. PRO PRO PRO A A 397 397 . 88.062	109.398	18.568	1.00	6.35
1 . .							
ATOM 2992	O	O	. PRO PRO PRO A A 397 397 . 87.733	110.467	18.074	1.00	9.01
1 . .							
ATOM 2993	N	N	. CYS CYS CYS A A 398 398 . 88.657	108.418	17.853	1.00	6.16
1 . .							
ATOM 2994	CA	CA	. CYS CYS CYS A A 398 398 . 88.928	108.577	16.422	1.00	5.13
1 . .							
ATOM 2995	CB	CB	. CYS CYS CYS A A 398 398 . 90.291	109.282	16.275	1.00	6.00
1 . .							
ATOM 2996	SG	SG	. CYS CYS CYS A A 398 398 . 90.853	109.339	14.520	1.00	10.28
1 . .							
ATOM 2997	C	C	. CYS CYS CYS A A 398 398 . 89.008	107.146	15.853	1.00	5.93
1 . .							
ATOM 2998	O	O	. CYS CYS CYS A A 398 398 . 89.602	106.267	16.531	1.00	6.11
1 . .							
ATOM 2999	N	N	. ARG ARG ARG A A 399 399 . 88.463	106.928	14.642	1.00	6.32
1 . .							
ATOM 3000	CA	CA	. ARG ARG ARG A A 399 399 . 88.263	105.571	13.976	1.00	6.33
1 . .							
ATOM 3001	CB	CB	. ARG ARG ARG A A 399 399 . 89.471	104.616	14.116	1.00	4.78
1 . .							
ATOM 3002	CG	CG	. ARG ARG ARG A A 399 399 . 90.690	105.292	13.549	1.00	6.47
1 . .							
ATOM 3003	CD	CD	. ARG ARG ARG A A 399 399 . 91.953	104.530	13.761	1.00	5.79
1 . .							
ATOM 3004	NE	NE	. ARG ARG ARG A A 399 399 . 91.942	103.246	13.013	1.00	6.42
1 . .							
ATOM 3005	CZ	CZ	. ARG ARG ARG A A 399 399 . 92.975	102.698	12.342	1.00	6.57
1 . .							
ATOM 3006	NH1	NH1	. ARG ARG ARG A A 399 399 . 94.169	103.364	12.197	1.00	7.48
1 . .							
ATOM 3007	NH2	NH2	. ARG ARG ARG A A 399 399 . 92.797	101.461	11.750	1.00	7.62
1 . .							
ATOM 3008	C	C	. ARG ARG ARG A A 399 399 . 86.984	104.912	14.573	1.00	5.67
1 . .							
ATOM 3009	O	O	. ARG ARG ARG A A 399 399 . 86.915	104.691	15.794	1.00	6.17
1 . .							
ATOM 3010	N	N	. SER SER SER A A 400 400 . 86.002	104.591	13.744	1.00	5.12
1 . .							
ATOM 3011	CA	CA	. SER SER SER A A 400 400 . 84.716	104.215	14.355	1.00	5.43
1 . .							
ATOM 3012	CB	CB	. SER SER SER A A 400 400 . 83.566	104.360	13.354	1.00	4.17
1 . .							
ATOM 3013	OG	OG	. SER SER SER A A 400 400 . 83.418	105.742	13.046	1.00	5.82
1 . .							
ATOM 3014	C	C	. SER SER SER A A 400 400 . 84.734	102.798	14.923	1.00	5.76
1 . .							
ATOM 3015	O	O	. SER SER SER A A 400 400 . 83.767	102.422	15.586	1.00	5.29
1 . .							
ATOM 3016	N	N	. GLU GLU GLU A A 401 401 . 85.784	102.003	14.704	1.00	5.95
1 . .							
ATOM 3017	CA	CA	. GLU GLU GLU A A 401 401 . 85.901	100.746	15.514	1.00	6.66
1 . .							
ATOM 3018	CB	CB	. GLU GLU GLU A A 401 401 . 86.993	99.783	15.017	1.00	5.70
1 . .							























































































































































































































































ATOM 6289	C	C	. CYS CYS CYS B B 398 398 . 90.392 101.437 7.639 1.00 8.09
1 . .			
ATOM 6290	O	O	. CYS CYS CYS B B 398 398 . 90.015 102.398 7.013 1.00 7.60
1 . .			
ATOM 6291	N	N	. ARG ARG ARG B B 399 399 . 90.166 101.245 8.931 1.00 7.69
1 . .			
ATOM 6292	CA	CA	. ARG ARG ARG B B 399 399 . 89.285 102.000 9.831 1.00 7.41
1 . .			
ATOM 6293	CB	CB	. ARG ARG ARG B B 399 399 . 89.338 103.526 9.573 1.00 5.68
1 . .			
ATOM 6294	CG	CG	. ARG ARG ARG B B 399 399 . 90.774 104.050 9.759 1.00 6.33
1 . .			
ATOM 6295	CD	CD	. ARG ARG ARG B B 399 399 . 90.858 105.575 9.290 1.00 7.86
1 . .			
ATOM 6296	NE	NE	. ARG ARG ARG B B 399 399 . 89.934 106.467 10.022 1.00 7.64
1 . .			
ATOM 6297	CZ	CZ	. ARG ARG ARG B B 399 399 . 90.330 107.600 10.622 1.00 7.15
1 . .			
ATOM 6298	NH1	NH1	. ARG ARG ARG B B 399 399 . 91.614 108.080 10.595 1.00 8.21
1 . .			
ATOM 6299	NH2	NH2	. ARG ARG ARG B B 399 399 . 89.401 108.289 11.265 1.00 6.88
1 . .			
ATOM 6300	C	C	. ARG ARG ARG B B 399 399 . 87.875 101.481 9.657 1.00 7.35
1 . .			
ATOM 6301	O	O	. ARG ARG ARG B B 399 399 . 87.373 101.478 8.543 1.00 6.29
1 . .			
ATOM 6302	N	N	. SER SER SER B B 400 400 . 87.238 101.024 10.767 1.00 6.15
1 . .			
ATOM 6303	CA	CA	. SER SER SER B B 400 400 . 85.924 100.369 10.585 1.00 5.03
1 . .			
ATOM 6304	CB	CB	. SER SER SER B B 400 400 . 85.590 99.448 11.765 1.00 6.25
1 . .			
ATOM 6305	OG	OG	. SER SER SER B B 400 400 . 86.625 98.480 11.960 1.00 6.93
1 . .			
ATOM 6306	C	C	. SER SER SER B B 400 400 . 84.691 101.216 10.194 1.00 4.96
1 . .			
ATOM 6307	O	O	. SER SER SER B B 400 400 . 83.689 100.659 9.772 1.00 6.54
1 . .			
ATOM 6308	N	N	. GLU GLU GLU B B 401 401 . 84.765 102.550 10.253 1.00 5.67
1 . .			
ATOM 6309	CA	CA	. GLU GLU GLU B B 401 401 . 83.711 103.311 9.565 1.00 6.88
1 . .			
ATOM 6310	CB	CB	. GLU GLU GLU B B 401 401 . 83.851 104.806 9.859 1.00 5.94
1 . .			
ATOM 6311	CG	CG	. GLU GLU GLU B B 401 401 . 84.982 105.566 9.254 1.00 6.45
1 . .			
ATOM 6312	CD	CD	. GLU GLU GLU B B 401 401 . 86.362 105.442 9.985 1.00 6.67
1 . .			
ATOM 6313	OE1	OE1	. GLU GLU GLU B B 401 401 . 86.511 104.697 11.042 1.00 7.78
1 . .			
ATOM 6314	OE2	OE2	. GLU GLU GLU B B 401 401 . 87.301 106.147 9.528 1.00 6.54
1 . .			
ATOM 6315	C	C	. GLU GLU GLU B B 401 401 . 83.802 103.098 8.031 1.00 6.56
1 . .			
ATOM 6316	O	O	. GLU GLU GLU B B 401 401 . 82.828 103.381 7.340 1.00 6.45
1 . .			
ATOM 6317	N	N	. ARG ARG ARG B B 402 402 . 84.940 102.562 7.529 1.00 5.91
1 . .			
ATOM 6318	CA	CA	. ARG ARG ARG B B 402 402 . 85.061 102.173 6.074 1.00 5.48
1 . .			































































ATOM	7159	O	O	.	HOH	HOH	HOH	S	.	586	586	.	112.250	103.974	9.265	1.00	34.64	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7160	O	O	.	HOH	HOH	HOH	S	.	587	587	.	69.868	123.513	-16.805	1.00	34.62	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7161	O	O	.	HOH	HOH	HOH	S	.	588	588	.	54.404	115.152	1.769	1.00	26.94	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7162	O	O	.	HOH	HOH	HOH	S	.	589	589	.	73.278	101.475	13.195	1.00	30.64	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7163	O	O	.	HOH	HOH	HOH	S	.	590	590	.	98.014	86.755	-3.299	1.00	34.74	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7164	O	O	.	HOH	HOH	HOH	S	.	591	591	.	107.921	112.918	10.084	1.00	37.08	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7165	O	O	.	HOH	HOH	HOH	S	.	592	592	.	77.751	130.401	21.243	1.00	32.14	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7166	O	O	.	HOH	HOH	HOH	S	.	594	594	.	109.957	113.096	33.178	1.00	38.20	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7167	O	O	.	HOH	HOH	HOH	S	.	595	595	.	113.693	105.525	41.085	1.00	34.79	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7168	O	O	.	HOH	HOH	HOH	S	.	596	596	.	85.632	124.505	26.664	1.00	43.43	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7169	O	O	.	HOH	HOH	HOH	S	.	597	597	.	105.922	110.551	42.904	1.00	26.22	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7170	O	O	.	HOH	HOH	HOH	S	.	598	598	.	94.881	80.438	-2.276	1.00	38.59	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7171	O	O	.	HOH	HOH	HOH	S	.	599	599	.	80.040	107.725	-18.354	1.00	30.43	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7172	O	O	.	HOH	HOH	HOH	S	.	600	600	.	74.950	119.963	27.005	1.00	48.28	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7173	O	O	.	HOH	HOH	HOH	S	.	601	601	.	104.994	97.618	6.481	1.00	31.84	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7174	O	O	.	HOH	HOH	HOH	S	.	602	602	.	115.253	93.960	36.462	1.00	22.42	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7175	O	O	.	HOH	HOH	HOH	S	.	603	603	.	89.879	121.316	16.194	1.00	39.14	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7176	O	O	.	HOH	HOH	HOH	S	.	604	604	.	64.999	129.339	0.789	1.00	28.43	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7177	O	O	.	HOH	HOH	HOH	S	.	605	605	.	67.164	107.613	-20.803	1.00	39.42	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7178	O	O	.	HOH	HOH	HOH	S	.	606	606	.	65.769	120.329	-10.993	1.00	34.66	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7179	O	O	.	HOH	HOH	HOH	S	.	607	607	.	85.803	123.330	3.721	1.00	28.94	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7180	O	O	.	HOH	HOH	HOH	S	.	608	608	.	96.691	74.646	16.299	1.00	38.63	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7181	O	O	.	HOH	HOH	HOH	S	.	609	609	.	93.815	101.143	-17.233	1.00	25.52	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7182	O	O	.	HOH	HOH	HOH	S	.	610	610	.	78.452	127.248	13.336	1.00	33.52	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7183	O	O	.	HOH	HOH	HOH	S	.	612	612	.	91.903	106.781	-21.662	1.00	37.07	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7184	O	O	.	HOH	HOH	HOH	S	.	614	614	.	86.408	76.987	3.677	1.00	38.39	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7185	O	O	.	HOH	HOH	HOH	S	.	615	615	.	94.946	104.048	31.174	1.00	38.85	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	7186	O	O	.	HOH	HOH	HOH	S	.	616	616	.	92.711	123.776	19.593	1.00	34.67	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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1  N  N  . SER SER SER A A 1 1  . 0.2052 0.2175 0.2545 0.0055 0.0255
0.0020 1 .
2  CA CA  . SER SER SER A A 1 1  . 0.2195 0.2154 0.2556 -0.0016 0.0351
0.0099 1 .
3  CB CB  . SER SER SER A A 1 1  . 0.2599 0.2183 0.2536 -0.0072 0.0139
0.0170 1 .
4  OG OG  . SER SER SER A A 1 1  . 0.3501 0.2720 0.3850 -0.0463 0.0126 -
0.0241 1 .
5  C  C  . SER SER SER A A 1 1  . 0.2002 0.2204 0.2238 0.0062 0.0263
0.0099 1 .
6  O  O  . SER SER SER A A 1 1  . 0.1889 0.2468 0.2304 0.0008 0.0392
0.0302 1 .
7  N  N  . ILE ILE ILE A A 2 2  . 0.1721 0.1900 0.1934 0.0023 0.0300 -
0.0025 1 .
8  CA CA  . ILE ILE ILE A A 2 2  . 0.1437 0.1518 0.1926 -0.0005 0.0248 -
0.0030 1 .
9  CB CB  . ILE ILE ILE A A 2 2  . 0.1221 0.1407 0.1708 0.0010 0.0174 -
0.0165 1 .
10 CG1 CG1 . ILE ILE ILE A A 2 2  . 0.1237 0.1360 0.1669 0.0218 -0.0013
0.0000 1 .
11 CD1 CD1 . ILE ILE ILE A A 2 2  . 0.1049 0.1563 0.1760 -0.0086 0.0116
0.0024 1 .
12 CG2 CG2 . ILE ILE ILE A A 2 2  . 0.1565 0.1331 0.1683 -0.0119 0.0051
0.0032 1 .
13 C  C  . ILE ILE ILE A A 2 2  . 0.1661 0.1854 0.2068 0.0002 0.0251
0.0025 1 .
14 O  O  . ILE ILE ILE A A 2 2  . 0.1494 0.1547 0.2394 0.0064 0.0333
0.0027 1 .
15 N  N  . GLN GLN GLN A A 3 3  . 0.1638 0.1800 0.2249 0.0095 0.0035
0.0004 1 .
16 CA CA  . GLN GLN GLN A A 3 3  . 0.2064 0.2034 0.2437 -0.0007 0.0041 -
0.0014 1 .
17 CB CB  . GLN GLN GLN A A 3 3  . 0.2271 0.2140 0.2523 0.0062 0.0010
0.0130 1 .
18 CG CG  . GLN GLN GLN A A 3 3  . 0.2605 0.2901 0.2992 0.0047 0.0228 -
0.0189 1 .
19 CD CD  . GLN GLN GLN A A 3 3  . 0.3855 0.4704 0.4721 0.0193 0.0080
0.0341 1 .
20 OE1 OE1 . GLN GLN GLN A A 3 3  . 0.4418 0.5306 0.5072 0.0289 0.0348
0.0505 1 .
21 NE2 NE2 . GLN GLN GLN A A 3 3  . 0.4129 0.5635 0.5112 -0.0217 0.0290
0.0245 1 .

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52	C	C	. TRP TRP TRP A A 6 6	. 0.1370 0.1230 0.1271 -0.0101 -0.0067
0.0091	1	.		
53	O	O	. TRP TRP TRP A A 6 6	. 0.1734 0.1315 0.1236 -0.0165 -0.0140
0.0097	1	.		
54	N	N	. ALA ALA ALA A A 7 7	. 0.1140 0.1122 0.1346 -0.0024 -0.0069
0.0144	1	.		
55	CA	CA	. ALA ALA ALA A A 7 7	. 0.1037 0.1052 0.1269 -0.0044 -0.0085
0.0170	1	.		
56	CB	CB	. ALA ALA ALA A A 7 7	. 0.1423 0.1151 0.1211 -0.0139 -0.0254
0.0232	1	.		
57	C	C	. ALA ALA ALA A A 7 7	. 0.1143 0.1007 0.1189 -0.0087 -0.0072
0.0021	1	.		
58	O	O	. ALA ALA ALA A A 7 7	. 0.1338 0.1007 0.1138 -0.0009 -0.0098
0.0080	1	.		
59	N	N	. ARG ARG ARG A A 8 8	. 0.1279 0.0908 0.1188 -0.0098 0.0034 -
0.0094	1	.		
60	CA	CA	. ARG ARG ARG A A 8 8	. 0.1187 0.1053 0.1062 0.0065 0.0063 -
0.0151	1	.		
61	CB	CB	. ARG ARG ARG A A 8 8	. 0.1055 0.0787 0.0826 0.0119 -0.0169 -
0.0127	1	.		
62	CG	CG	. ARG ARG ARG A A 8 8	. 0.1361 0.0779 0.0666 0.0255 0.0000 -
0.0264	1	.		
63	CD	CD	. ARG ARG ARG A A 8 8	. 0.1383 0.1009 0.0878 0.0222 -0.0227
0.0192	1	.		
64	NE	NE	. ARG ARG ARG A A 8 8	. 0.1393 0.0917 0.1417 -0.0086 0.0304 -
0.0110	1	.		
65	CZ	CZ	. ARG ARG ARG A A 8 8	. 0.1099 0.1507 0.1280 -0.0030 0.0007 -
0.0389	1	.		
66	NH1	NH1	. ARG ARG ARG A A 8 8	. 0.1178 0.1215 0.1872 0.0096 -0.0054 -
0.0419	1	.		
67	NH2	NH2	. ARG ARG ARG A A 8 8	. 0.1375 0.1483 0.2248 0.0241 0.0088 -
0.0135	1	.		
68	C	C	. ARG ARG ARG A A 8 8	. 0.1154 0.1103 0.1034 -0.0012 0.0060 -
0.0111	1	.		
69	O	O	. ARG ARG ARG A A 8 8	. 0.1177 0.1148 0.1059 -0.0053 -0.0044
0.0079	1	.		
70	N	N	. GLU GLU GLU A A 9 9	. 0.1335 0.1100 0.1151 -0.0007 -0.0073
0.0133	1	.		
71	CA	CA	. GLU GLU GLU A A 9 9	. 0.1435 0.1107 0.1146 0.0052 -0.0050 -
0.0060	1	.		
72	CB	CB	. GLU GLU GLU A A 9 9	. 0.1720 0.1785 0.1723 -0.0179 0.0141 -
0.0058	1	.		
73	CG	CG	. GLU GLU GLU A A 9 9	. 0.1596 0.2621 0.1575 0.0162 0.0079 -
0.0202	1	.		
74	CD	CD	. GLU GLU GLU A A 9 9	. 0.1853 0.2549 0.1604 0.0852 -0.0148 -
0.0444	1	.		
75	OE1	OE1	. GLU GLU GLU A A 9 9	. 0.1648 0.1223 0.1158 0.0211 0.0133
0.0047	1	.		
76	OE2	OE2	. GLU GLU GLU A A 9 9	. 0.2293 0.2493 0.1443 0.0718 0.0411
0.0113	1	.		
77	C	C	. GLU GLU GLU A A 9 9	. 0.1480 0.1191 0.1193 0.0052 -0.0186 -
0.0052	1	.		
78	O	O	. GLU GLU GLU A A 9 9	. 0.2366 0.1192 0.1628 0.0052 -0.0549 -
0.0201	1	.		
79	N	N	. ILE ILE ILE A A 10 10	. 0.1284 0.0835 0.1133 0.0146 -0.0180 -
0.0069	1	.		
80	CA	CA	. ILE ILE ILE A A 10 10	. 0.1061 0.0799 0.1047 0.0016 0.0052
0.0119	1	.		
81	CB	CB	. ILE ILE ILE A A 10 10	. 0.0937 0.0648 0.0787 0.0103 -0.0145
0.0005	1	.		

82	CG1	CG1	. ILE ILE ILE A A 10 10	. 0.0897 0.0968 0.0494 0.0075 0.0182 -
0.0196	1 .			
83	CD1	CD1	. ILE ILE ILE A A 10 10	. 0.1677 0.0769 0.1201 0.0317 0.0153 -
0.0192	1 .			
84	CG2	CG2	. ILE ILE ILE A A 10 10	. 0.0689 0.0865 0.1206 -0.0005 -0.0302
0.0269	1 .			
85	C	C	. ILE ILE ILE A A 10 10	. 0.1087 0.0843 0.0904 0.0121 -0.0089 -
0.0099	1 .			
86	O	O	. ILE ILE ILE A A 10 10	. 0.1301 0.1099 0.1019 0.0081 0.0030
0.0175	1 .			
87	N	N	. LEU LEU LEU A A 11 11	. 0.0903 0.0757 0.0609 -0.0013 0.0108
0.0161	1 .			
88	CA	CA	. LEU LEU LEU A A 11 11	. 0.1063 0.0892 0.0528 -0.0072 0.0173 -
0.0073	1 .			
89	CB	CB	. LEU LEU LEU A A 11 11	. 0.1305 0.0841 0.0831 -0.0009 0.0216
0.0103	1 .			
90	CG	CG	. LEU LEU LEU A A 11 11	. 0.1200 0.1014 0.0521 0.0079 0.0415
0.0289	1 .			
91	CD1	CD1	. LEU LEU LEU A A 11 11	. 0.1787 0.1104 0.0425 -0.0041 0.0215
0.0340	1 .			
92	CD2	CD2	. LEU LEU LEU A A 11 11	. 0.1524 0.1475 0.0560 0.0559 0.0078
0.0196	1 .			
93	C	C	. LEU LEU LEU A A 11 11	. 0.1005 0.0578 0.0752 0.0059 0.0130
0.0047	1 .			
94	O	O	. LEU LEU LEU A A 11 11	. 0.0912 0.0885 0.1044 0.0099 0.0010
0.0205	1 .			
95	N	N	. ASP ASP ASP A A 12 12	. 0.0913 0.0796 0.0622 -0.0080 0.0133 -
0.0131	1 .			
96	CA	CA	. ASP ASP ASP A A 12 12	. 0.1070 0.0668 0.0682 0.0104 -0.0090 -
0.0003	1 .			
97	CB	CB	. ASP ASP ASP A A 12 12	. 0.0533 0.0834 0.0815 0.0281 0.0056
0.0006	1 .			
98	CG	CG	. ASP ASP ASP A A 12 12	. 0.0993 0.1033 0.0973 0.0182 0.0165 -
0.0037	1 .			
99	OD1	OD1	. ASP ASP ASP A A 12 12	. 0.1052 0.0852 0.0973 0.0129 -0.0062
0.0062	1 .			
100	OD2	OD2	. ASP ASP ASP A A 12 12	. 0.1667 0.1311 0.1261 0.0258 0.0069
0.0087	1 .			
101	C	C	. ASP ASP ASP A A 12 12	. 0.0766 0.0848 0.0782 -0.0008 0.0015 -
0.0064	1 .			
102	O	O	. ASP ASP ASP A A 12 12	. 0.1088 0.0916 0.0823 0.0160 0.0000
0.0056	1 .			
103	N	N	. SER SER SER A A 13 13	. 0.0905 0.0700 0.0648 0.0178 0.0100 -
0.0091	1 .			
104	CA	CA	. SER SER SER A A 13 13	. 0.0575 0.0651 0.0477 -0.0069 0.0175 -
0.0097	1 .			
105	CB	CB	. SER SER SER A A 13 13	. 0.0689 0.0598 0.0737 0.0202 0.0004 -
0.0242	1 .			
106	OG	OG	. SER SER SER A A 13 13	. 0.1081 0.1070 0.1203 0.0200 0.0035
0.0253	1 .			
107	C	C	. SER SER SER A A 13 13	. 0.0988 0.0865 0.0883 -0.0003 0.0089 -
0.0026	1 .			
108	O	O	. SER SER SER A A 13 13	. 0.1193 0.1097 0.1040 0.0013 0.0188 -
0.0115	1 .			
109	N	N	. ARG ARG ARG A A 14 14	. 0.0792 0.1072 0.0789 0.0038 0.0095 -
0.0137	1 .			
110	CA	CA	. ARG ARG ARG A A 14 14	. 0.1099 0.1044 0.1047 0.0085 0.0084
0.0009	1 .			
111	CB	CB	. ARG ARG ARG A A 14 14	. 0.0943 0.1168 0.0974 -0.0037 -0.0080
0.0034	1 .			

112	CG	CG	. ARG ARG ARG A A 14 14	. 0.0835 0.1233 0.1382 0.0107 0.0053 -
0.0322	1	.		
113	CD	CD	. ARG ARG ARG A A 14 14	. 0.1277 0.1326 0.1282 0.0537 0.0124
0.0298	1	.		
114	NE	NE	. ARG ARG ARG A A 14 14	. 0.1382 0.1835 0.1440 0.0195 -0.0217 -
0.0129	1	.		
115	CZ	CZ	. ARG ARG ARG A A 14 14	. 0.0927 0.1378 0.1141 0.0198 -0.0118
0.0237	1	.		
116	NH1	NH1	. ARG ARG ARG A A 14 14	. 0.1240 0.1075 0.1165 0.0307 0.0445
0.0150	1	.		
117	NH2	NH2	. ARG ARG ARG A A 14 14	. 0.1051 0.1036 0.1421 -0.0141 -0.0015 -
0.0087	1	.		
118	C	C	. ARG ARG ARG A A 14 14	. 0.1117 0.0735 0.1051 -0.0016 0.0101
0.0041	1	.		
119	O	O	. ARG ARG ARG A A 14 14	. 0.1546 0.1310 0.1449 0.0187 0.0315 -
0.0259	1	.		
120	N	N	. GLY GLY GLY A A 15 15	. 0.0986 0.0741 0.0840 0.0085 -0.0079
0.0004	1	.		
121	CA	CA	. GLY GLY GLY A A 15 15	. 0.0980 0.0762 0.1074 0.0181 0.0158 -
0.0085	1	.		
122	C	C	. GLY GLY GLY A A 15 15	. 0.1295 0.1092 0.1116 0.0335 0.0110
0.0025	1	.		
123	O	O	. GLY GLY GLY A A 15 15	. 0.1380 0.1192 0.1066 0.0347 0.0145 -
0.0020	1	.		
124	N	N	. ASN ASN ASN A A 16 16	. 0.1025 0.0788 0.0870 0.0289 0.0188
0.0238	1	.		
125	CA	CA	. ASN ASN ASN A A 16 16	. 0.1139 0.1069 0.1235 0.0017 0.0151
0.0059	1	.		
126	CB	CB	. ASN ASN ASN A A 16 16	. 0.0934 0.1184 0.0933 0.0031 0.0086
0.0272	1	.		
127	CG	CG	. ASN ASN ASN A A 16 16	. 0.1322 0.1349 0.1469 0.0221 -0.0048
0.0174	1	.		
128	OD1	OD1	. ASN ASN ASN A A 16 16	. 0.1769 0.1610 0.1831 0.0499 0.0505
0.0298	1	.		
129	ND2	ND2	. ASN ASN ASN A A 16 16	. 0.1552 0.1191 0.1615 0.0580 -0.0318 -
0.0150	1	.		
130	C	C	. ASN ASN ASN A A 16 16	. 0.0927 0.0884 0.0882 -0.0012 0.0206
0.0117	1	.		
131	O	O	. ASN ASN ASN A A 16 16	. 0.1195 0.0887 0.0826 0.0104 0.0287
0.0004	1	.		
132	N	N	. PRO PRO PRO A A 17 17	. 0.1103 0.1047 0.1003 0.0107 0.0272 -
0.0093	1	.		
133	CA	CA	. PRO PRO PRO A A 17 17	. 0.1119 0.0941 0.0789 -0.0005 0.0257 -
0.0170	1	.		
134	CB	CB	. PRO PRO PRO A A 17 17	. 0.0952 0.0969 0.1006 0.0143 0.0384 -
0.0168	1	.		
135	CG	CG	. PRO PRO PRO A A 17 17	. 0.1410 0.1205 0.0785 0.0060 0.0263 -
0.0036	1	.		
136	CD	CD	. PRO PRO PRO A A 17 17	. 0.1212 0.1419 0.1258 0.0217 0.0346 -
0.0096	1	.		
137	C	C	. PRO PRO PRO A A 17 17	. 0.1201 0.0920 0.0906 0.0098 0.0139
0.0055	1	.		
138	O	O	. PRO PRO PRO A A 17 17	. 0.1213 0.1152 0.0881 0.0106 0.0159 -
0.0200	1	.		
139	N	N	. THR THR THR A A 18 18	. 0.1042 0.0839 0.0882 0.0126 0.0113
0.0220	1	.		
140	CA	CA	. THR THR THR A A 18 18	. 0.1144 0.0880 0.0781 0.0035 0.0195 -
0.0037	1	.		
141	CB	CB	. THR THR THR A A 18 18	. 0.1243 0.0876 0.0630 0.0207 0.0188 -
0.0016	1	.		





202	C	C	. THR THR THR A A 25 25 .	0.1715	0.1947	0.2141	-0.0189	-0.0071	
0.0153	1	.							
203	O	O	. THR THR THR A A 25 25 .	0.1560	0.2487	0.2084	-0.0255	-0.0334	
0.0194	1	.							
204	N	N	. ALA ALA ALA A A 26 26 .	0.1700	0.2131	0.2580	-0.0284	0.0156	
0.0192	1	.							
205	CA	CA	. ALA ALA ALA A A 26 26 .	0.2180	0.2318	0.2860	-0.0132	0.0033	
0.0237	1	.							
206	CB	CB	. ALA ALA ALA A A 26 26 .	0.2026	0.2227	0.3087	-0.0418	0.0222	
0.0309	1	.							
207	C	C	. ALA ALA ALA A A 26 26 .	0.2263	0.2464	0.2899	-0.0040	0.0008	
0.0296	1	.							
208	O	O	. ALA ALA ALA A A 26 26 .	0.1905	0.2621	0.3360	-0.0130	-0.0156	
0.0364	1	.							
209	N	N	. LYS LYS LYS A A 27 27 .	0.1937	0.2510	0.2805	-0.0046	0.0086	
0.0179	1	.							
210	CA	CA	. LYS LYS LYS A A 27 27 .	0.2250	0.2559	0.2805	0.0005	0.0247	
0.0162	1	.							
211	CB	CB	. LYS LYS LYS A A 27 27 .	0.2521	0.2735	0.2916	0.0153	0.0437	
0.0136	1	.							
212	CG	CG	. LYS LYS LYS A A 27 27 .	0.2930	0.2783	0.3457	0.0350	0.0594	
0.0349	1	.							
213	CD	CD	. LYS LYS LYS A A 27 27 .	0.3321	0.3438	0.4426	0.0410	0.0850	
0.0337	1	.							
214	CE	CE	. LYS LYS LYS A A 27 27 .	0.3441	0.4228	0.4532	0.0726	0.0851	-
0.0192	1	.							
215	NZ	NZ	. LYS LYS LYS A A 27 27 .	0.3356	0.5011	0.4887	0.0315	0.0850	-
0.0140	1	.							
216	C	C	. LYS LYS LYS A A 27 27 .	0.2381	0.2531	0.2932	0.0004	0.0188	
0.0125	1	.							
217	O	O	. LYS LYS LYS A A 27 27 .	0.2671	0.2574	0.3310	0.0052	0.0271	
0.0159	1	.							
218	N	N	. GLY GLY GLY A A 28 28 .	0.1952	0.2448	0.2586	-0.0063	0.0266	
0.0243	1	.							
219	CA	CA	. GLY GLY GLY A A 28 28 .	0.1716	0.2443	0.2577	0.0136	0.0144	
0.0370	1	.							
220	C	C	. GLY GLY GLY A A 28 28 .	0.1625	0.2112	0.2287	-0.0077	0.0082	
0.0193	1	.							
221	O	O	. GLY GLY GLY A A 28 28 .	0.1329	0.1878	0.2122	-0.0113	0.0058	
0.0246	1	.							
222	N	N	. LEU LEU LEU A A 29 29 .	0.1616	0.2011	0.1871	0.0029	0.0118	
0.0308	1	.							
223	CA	CA	. LEU LEU LEU A A 29 29 .	0.1683	0.2014	0.1784	-0.0015	0.0107	
0.0193	1	.							
224	CB	CB	. LEU LEU LEU A A 29 29 .	0.2120	0.2016	0.1835	0.0143	0.0033	
0.0340	1	.							
225	CG	CG	. LEU LEU LEU A A 29 29 .	0.2561	0.3184	0.1757	-0.0507	0.0379	
0.0369	1	.							
226	CD1	CD1	. LEU LEU LEU A A 29 29 .	0.3923	0.4027	0.1860	0.0034	-0.0085	
0.0415	1	.							
227	CD2	CD2	. LEU LEU LEU A A 29 29 .	0.3403	0.3424	0.2548	-0.0504	-0.0101	-
0.0054	1	.							
228	C	C	. LEU LEU LEU A A 29 29 .	0.1407	0.1515	0.1599	-0.0020	0.0098	
0.0110	1	.							
229	O	O	. LEU LEU LEU A A 29 29 .	0.1436	0.1406	0.1927	0.0032	-0.0065	
0.0106	1	.							
230	N	N	. PHE PHE PHE A A 30 30 .	0.1033	0.1184	0.1417	0.0036	0.0153	
0.0068	1	.							
231	CA	CA	. PHE PHE PHE A A 30 30 .	0.0959	0.1202	0.1532	-0.0052	0.0249	-
0.0010	1	.							



232	CB	CB	. PHE PHE PHE A A 30 30	. 0.0918 0.1301 0.1268 0.0104 0.0298 -
0.0143	1	.		
233	CG	CG	. PHE PHE PHE A A 30 30	. 0.1055 0.1145 0.1323 0.0097 -0.0028 -
0.0146	1	.		
234	CD1	CD1	. PHE PHE PHE A A 30 30	. 0.1076 0.1332 0.1644 0.0256 0.0317 -
0.0038	1	.		
235	CE1	CE1	. PHE PHE PHE A A 30 30	. 0.1504 0.1945 0.1781 0.0260 0.0486 -
0.0094	1	.		
236	CZ	CZ	. PHE PHE PHE A A 30 30	. 0.1752 0.1709 0.1623 0.0067 0.0037 -
0.0048	1	.		
237	CE2	CE2	. PHE PHE PHE A A 30 30	. 0.1381 0.1678 0.1624 0.0132 0.0394 -
0.0067	1	.		
238	CD2	CD2	. PHE PHE PHE A A 30 30	. 0.1119 0.1185 0.1535 -0.0043 0.0434 -
0.0115	1	.		
239	C	C	. PHE PHE PHE A A 30 30	. 0.1108 0.1222 0.1636 -0.0002 0.0219 -
0.0052	1	.		
240	O	O	. PHE PHE PHE A A 30 30	. 0.1114 0.1607 0.2184 -0.0127 0.0705 -
0.0251	1	.		
241	N	N	. ARG ARG ARG A A 31 31	. 0.1050 0.1063 0.1362 -0.0100 0.0176
0.0175	1	.		
242	CA	CA	. ARG ARG ARG A A 31 31	. 0.1029 0.0740 0.0980 0.0016 0.0047
0.0149	1	.		
243	CB	CB	. ARG ARG ARG A A 31 31	. 0.1202 0.0665 0.0994 0.0099 0.0011
0.0091	1	.		
244	CG	CG	. ARG ARG ARG A A 31 31	. 0.1454 0.0876 0.1122 0.0076 0.0009
0.0344	1	.		
245	CD	CD	. ARG ARG ARG A A 31 31	. 0.2192 0.0951 0.1722 -0.0112 -0.0342
0.0356	1	.		
246	NE	NE	. ARG ARG ARG A A 31 31	. 0.1442 0.1549 0.1500 0.0188 -0.0151
0.0494	1	.		
247	CZ	CZ	. ARG ARG ARG A A 31 31	. 0.2061 0.1747 0.2305 0.0069 -0.0200
0.0218	1	.		
248	NH1	NH1	. ARG ARG ARG A A 31 31	. 0.1994 0.2273 0.2329 0.0198 -0.0316
0.0127	1	.		
249	NH2	NH2	. ARG ARG ARG A A 31 31	. 0.2305 0.2771 0.1700 0.0307 -0.0326
0.0068	1	.		
250	C	C	. ARG ARG ARG A A 31 31	. 0.1073 0.0883 0.0983 0.0030 0.0064
0.0141	1	.		
251	O	O	. ARG ARG ARG A A 31 31	. 0.1200 0.0985 0.1204 0.0069 -0.0123 -
0.0026	1	.		
252	N	N	. ALA ALA ALA A A 32 32	. 0.0882 0.0931 0.0952 -0.0056 -0.0144
0.0290	1	.		
253	CA	CA	. ALA ALA ALA A A 32 32	. 0.0883 0.1242 0.0881 -0.0145 0.0057
0.0029	1	.		
254	CB	CB	. ALA ALA ALA A A 32 32	. 0.1196 0.1157 0.0879 0.0169 0.0120
0.0222	1	.		
255	C	C	. ALA ALA ALA A A 32 32	. 0.0927 0.1089 0.1025 0.0078 0.0042 -
0.0111	1	.		
256	O	O	. ALA ALA ALA A A 32 32	. 0.1026 0.1190 0.1038 0.0012 0.0183 -
0.0162	1	.		
257	N	N	. ALA ALA ALA A A 33 33	. 0.0703 0.0762 0.0971 -0.0011 0.0266
0.0191	1	.		
258	CA	CA	. ALA ALA ALA A A 33 33	. 0.0943 0.0991 0.0997 0.0123 0.0210
0.0201	1	.		
259	CB	CB	. ALA ALA ALA A A 33 33	. 0.1216 0.0792 0.1141 0.0034 0.0237
0.0386	1	.		
260	C	C	. ALA ALA ALA A A 33 33	. 0.0903 0.0713 0.0799 0.0005 0.0039
0.0060	1	.		
261	O	O	. ALA ALA ALA A A 33 33	. 0.1249 0.1098 0.1209 0.0074 0.0112 -
0.0291	1	.		

262	N	N	. VAL VAL VAL A A 34 34 .	0.0830	0.0931	0.0742	0.0011	0.0067	
0.0002	1	.							
263	CA	CA	. VAL VAL VAL A A 34 34 .	0.0925	0.0892	0.1036	-0.0034	0.0019	-
0.0043	1	.							
264	CB	CB	. VAL VAL VAL A A 34 34 .	0.0836	0.0763	0.1156	-0.0132	-0.0026	-
0.0002	1	.							
265	CG1	CG1	. VAL VAL VAL A A 34 34 .	0.0936	0.0600	0.0949	0.0326	-0.0317	-
0.0003	1	.							
266	CG2	CG2	. VAL VAL VAL A A 34 34 .	0.0998	0.1263	0.1047	-0.0442	0.0065	
0.0143	1	.							
267	C	C	. VAL VAL VAL A A 34 34 .	0.0926	0.0851	0.0945	-0.0054	0.0067	-
0.0020	1	.							
268	O	O	. VAL VAL VAL A A 34 34 .	0.1181	0.0932	0.0853	0.0100	0.0000	
0.0042	1	.							
269	N	N	. PRO PRO PRO A A 35 35 .	0.0905	0.0790	0.0782	-0.0008	0.0155	-
0.0057	1	.							
270	CA	CA	. PRO PRO PRO A A 35 35 .	0.0818	0.0702	0.0865	0.0036	0.0042	-
0.0098	1	.							
271	CB	CB	. PRO PRO PRO A A 35 35 .	0.0609	0.0426	0.0363	0.0067	0.0115	-
0.0011	1	.							
272	CG	CG	. PRO PRO PRO A A 35 35 .	0.0303	0.0604	0.0766	-0.0083	0.0081	
0.0149	1	.							
273	CD	CD	. PRO PRO PRO A A 35 35 .	0.0974	0.0964	0.0526	-0.0177	-0.0039	-
0.0003	1	.							
274	C	C	. PRO PRO PRO A A 35 35 .	0.0802	0.0933	0.0722	0.0065	-0.0033	
0.0034	1	.							
275	O	O	. PRO PRO PRO A A 35 35 .	0.0775	0.0845	0.1397	0.0016	0.0261	-
0.0068	1	.							
276	N	N	. SER SER SER A A 36 36 .	0.0639	0.0706	0.0788	-0.0016	0.0023	
0.0022	1	.							
277	CA	CA	. SER SER SER A A 36 36 .	0.0651	0.0755	0.1001	0.0104	-0.0026	
0.0014	1	.							
278	CB	CB	. SER SER SER A A 36 36 .	0.0566	0.1030	0.0905	0.0177	0.0085	-
0.0042	1	.							
279	OG	OG	. SER SER SER A A 36 36 .	0.1023	0.1266	0.1207	0.0256	0.0222	-
0.0148	1	.							
280	C	C	. SER SER SER A A 36 36 .	0.0746	0.0821	0.1009	0.0083	0.0055	
0.0066	1	.							
281	O	O	. SER SER SER A A 36 36 .	0.0721	0.0748	0.0883	0.0250	0.0145	-
0.0002	1	.							
282	N	N	. GLY GLY GLY A A 37 37 .	0.0681	0.0899	0.0938	-0.0022	-0.0157	
0.0044	1	.							
283	CA	CA	. GLY GLY GLY A A 37 37 .	0.0488	0.0784	0.1059	-0.0005	0.0033	
0.0004	1	.							
284	C	C	. GLY GLY GLY A A 37 37 .	0.0960	0.0898	0.1035	0.0007	0.0009	-
0.0041	1	.							
285	O	O	. GLY GLY GLY A A 37 37 .	0.1296	0.1469	0.1238	-0.0072	0.0035	-
0.0014	1	.							
286	N	N	. ALA ALA ALA A A 38 38 .	0.0566	0.0987	0.1261	-0.0212	0.0162	-
0.0050	1	.							
287	CA	CA	. ALA ALA ALA A A 38 38 .	0.0885	0.1031	0.1042	-0.0054	0.0115	
0.0122	1	.							
288	CB	CB	. ALA ALA ALA A A 38 38 .	0.1101	0.1161	0.1518	-0.0346	0.0037	
0.0255	1	.							
289	C	C	. ALA ALA ALA A A 38 38 .	0.1002	0.1206	0.1427	-0.0011	0.0150	-
0.0103	1	.							
290	O	O	. ALA ALA ALA A A 38 38 .	0.1186	0.1215	0.1473	0.0446	0.0047	-
0.0246	1	.							
291	N	N	. SER SER SER A A 39 39 .	0.0742	0.1122	0.0990	0.0008	0.0187	-
0.0026	1	.							







382	OD1	OD1	. ASP ASP ASP A A 50 50	. 0.1569 0.1327 0.1592 0.0060 0.0012
0.0148	1	.		
383	OD2	OD2	. ASP ASP ASP A A 50 50	. 0.1502 0.1302 0.1164 0.0273 -0.0023
0.0032	1	.		
384	C	C	. ASP ASP ASP A A 50 50	. 0.1897 0.1694 0.1597 0.0338 0.0213
0.0022	1	.		
385	O	O	. ASP ASP ASP A A 50 50	. 0.2231 0.1515 0.1937 0.0322 0.0373 -
0.0059	1	.		
386	N	N	. GLY GLY GLY A A 51 51	. 0.1747 0.1918 0.2135 0.0354 0.0155
0.0114	1	.		
387	CA	CA	. GLY GLY GLY A A 51 51	. 0.2167 0.2325 0.2128 0.0477 0.0266
0.0210	1	.		
388	C	C	. GLY GLY GLY A A 51 51	. 0.2301 0.2370 0.2454 0.0436 0.0264
0.0083	1	.		
389	O	O	. GLY GLY GLY A A 51 51	. 0.2596 0.2544 0.2817 0.0801 0.0422
0.0282	1	.		
390	N	N	. ASP ASP ASP A A 52 52	. 0.2358 0.2184 0.2163 0.0389 0.0007
0.0061	1	.		
391	CA	CA	. ASP ASP ASP A A 52 52	. 0.2123 0.2347 0.2291 0.0288 0.0245
0.0024	1	.		
392	CB	CB	. ASP ASP ASP A A 52 52	. 0.2430 0.2520 0.2266 0.0076 0.0088 -
0.0156	1	.		
393	CG	CG	. ASP ASP ASP A A 52 52	. 0.2068 0.2452 0.2296 0.0148 0.0025
0.0169	1	.		
394	OD1	OD1	. ASP ASP ASP A A 52 52	. 0.3136 0.2435 0.1975 0.0361 -0.0363 -
0.0831	1	.		
395	OD2	OD2	. ASP ASP ASP A A 52 52	. 0.3101 0.2500 0.2213 0.0764 0.1060
0.0256	1	.		
396	C	C	. ASP ASP ASP A A 52 52	. 0.2420 0.2478 0.2421 0.0290 0.0314
0.0047	1	.		
397	O	O	. ASP ASP ASP A A 52 52	. 0.2284 0.2176 0.1709 0.0359 0.0565
0.0083	1	.		
398	N	N	. LYS LYS LYS A A 53 53	. 0.2660 0.2695 0.2845 0.0064 0.0403
0.0112	1	.		
399	CA	CA	. LYS LYS LYS A A 53 53	. 0.3036 0.3017 0.3219 0.0152 0.0365
0.0069	1	.		
400	CB	CB	. LYS LYS LYS A A 53 53	. 0.2871 0.3063 0.3341 0.0219 0.0354
0.0178	1	.		
401	CG	CG	. LYS LYS LYS A A 53 53	. 0.3349 0.3886 0.3740 -0.0139 0.0251 -
0.0217	1	.		
402	CD	CD	. LYS LYS LYS A A 53 53	. 0.3671 0.4172 0.4763 -0.0042 0.0265 -
0.0591	1	.		
403	C	C	. LYS LYS LYS A A 53 53	. 0.3147 0.3033 0.3075 0.0275 0.0474
0.0031	1	.		
404	O	O	. LYS LYS LYS A A 53 53	. 0.3558 0.3076 0.3381 0.0557 0.0821
0.0045	1	.		
405	N	N	. GLN GLN GLN A A 54 54	. 0.3288 0.3109 0.3124 0.0505 0.0293
0.0011	1	.		
406	CA	CA	. GLN GLN GLN A A 54 54	. 0.3340 0.3213 0.3015 0.0535 0.0212
0.0093	1	.		
407	CB	CB	. GLN GLN GLN A A 54 54	. 0.3624 0.3443 0.3183 0.0548 0.0050
0.0117	1	.		
408	C	C	. GLN GLN GLN A A 54 54	. 0.3286 0.3226 0.2766 0.0539 0.0209
0.0095	1	.		
409	O	O	. GLN GLN GLN A A 54 54	. 0.3813 0.3266 0.2703 0.0581 0.0421
0.0267	1	.		
410	N	N	. ARG ARG ARG A A 55 55	. 0.2876 0.2673 0.2337 0.0492 0.0428
0.0218	1	.		
411	CA	CA	. ARG ARG ARG A A 55 55	. 0.2467 0.2363 0.2135 0.0179 0.0251
0.0050	1	.		







472	O	O	. LEU LEU LEU A A 62 62 .	0.1243	0.1101	0.0941	-0.0148	0.0183	
0.0077	1	.							
473	N	N	. LYS LYS LYS A A 63 63 .	0.1353	0.1079	0.0998	0.0051	-0.0006	-
0.0054	1	.							
474	CA	CA	. LYS LYS LYS A A 63 63 .	0.1180	0.1157	0.0929	0.0000	-0.0028	
0.0040	1	.							
475	CB	CB	. LYS LYS LYS A A 63 63 .	0.1016	0.1237	0.1057	0.0180	0.0047	
0.0015	1	.							
476	CG	CG	. LYS LYS LYS A A 63 63 .	0.1325	0.1018	0.1672	0.0042	0.0252	
0.0057	1	.							
477	CD	CD	. LYS LYS LYS A A 63 63 .	0.1421	0.1417	0.1711	0.0138	-0.0227	
0.0123	1	.							
478	CE	CE	. LYS LYS LYS A A 63 63 .	0.2099	0.2282	0.2471	0.0324	-0.0145	-
0.0127	1	.							
479	NZ	NZ	. LYS LYS LYS A A 63 63 .	0.1865	0.1888	0.3146	0.0536	0.0410	-
0.0421	1	.							
480	C	C	. LYS LYS LYS A A 63 63 .	0.1146	0.1033	0.1181	0.0047	0.0063	-
0.0040	1	.							
481	O	O	. LYS LYS LYS A A 63 63 .	0.1081	0.0958	0.1340	0.0075	-0.0098	-
0.0058	1	.							
482	N	N	. ALA ALA ALA A A 64 64 .	0.1154	0.0985	0.1024	0.0001	0.0067	-
0.0134	1	.							
483	CA	CA	. ALA ALA ALA A A 64 64 .	0.1032	0.0677	0.0978	0.0017	0.0011	-
0.0133	1	.							
484	CB	CB	. ALA ALA ALA A A 64 64 .	0.1132	0.0725	0.0809	-0.0106	-0.0065	-
0.0158	1	.							
485	C	C	. ALA ALA ALA A A 64 64 .	0.1124	0.0522	0.0912	-0.0020	0.0035	-
0.0122	1	.							
486	O	O	. ALA ALA ALA A A 64 64 .	0.1075	0.0860	0.0860	0.0057	0.0177	-
0.0229	1	.							
487	N	N	. VAL VAL VAL A A 65 65 .	0.1143	0.0726	0.0825	0.0070	-0.0052	-
0.0069	1	.							
488	CA	CA	. VAL VAL VAL A A 65 65 .	0.0991	0.0756	0.0968	-0.0008	-0.0032	-
0.0122	1	.							
489	CB	CB	. VAL VAL VAL A A 65 65 .	0.1003	0.0735	0.0998	0.0000	-0.0171	-
0.0099	1	.							
490	CG1	CG1	. VAL VAL VAL A A 65 65 .	0.1112	0.1294	0.1338	0.0202	0.0059	-
0.0120	1	.							
491	CG2	CG2	. VAL VAL VAL A A 65 65 .	0.1411	0.0420	0.1367	-0.0098	-0.0013	-
0.0247	1	.							
492	C	C	. VAL VAL VAL A A 65 65 .	0.1102	0.0903	0.1188	0.0028	0.0041	
0.0058	1	.							
493	O	O	. VAL VAL VAL A A 65 65 .	0.1080	0.0985	0.1073	-0.0091	-0.0067	
0.0036	1	.							
494	N	N	. ASP ASP ASP A A 66 66 .	0.1253	0.0906	0.0801	0.0028	0.0010	
0.0051	1	.							
495	CA	CA	. ASP ASP ASP A A 66 66 .	0.1568	0.0994	0.1237	0.0057	0.0148	
0.0043	1	.							
496	CB	CB	. ASP ASP ASP A A 66 66 .	0.1987	0.1055	0.1241	0.0139	0.0336	-
0.0004	1	.							
497	CG	CG	. ASP ASP ASP A A 66 66 .	0.3070	0.2522	0.2780	-0.0461	0.0147	-
0.0069	1	.							
498	OD1	OD1	. ASP ASP ASP A A 66 66 .	0.3092	0.3746	0.2070	-0.1173	-0.0194	-
0.0087	1	.							
499	OD2	OD2	. ASP ASP ASP A A 66 66 .	0.3992	0.3453	0.4825	0.0177	0.0035	-
0.0682	1	.							
500	C	C	. ASP ASP ASP A A 66 66 .	0.1277	0.0985	0.1033	0.0021	0.0028	
0.0069	1	.							
501	O	O	. ASP ASP ASP A A 66 66 .	0.1087	0.0993	0.1157	0.0077	-0.0010	
0.0064	1	.							











652	O	O	. GLU GLU GLU A A 87 87 .	0.1299	0.1527	0.1634	-0.0075	0.0143	
0.0396	1	.							
653	N	N	. LYS LYS LYS A A 88 88 .	0.1280	0.1294	0.1435	-0.0018	0.0133	-
0.0058	1	.							
654	CA	CA	. LYS LYS LYS A A 88 88 .	0.1382	0.1226	0.1285	-0.0130	0.0128	
0.0007	1	.							
655	CB	CB	. LYS LYS LYS A A 88 88 .	0.1586	0.1451	0.1406	-0.0220	0.0248	
0.0049	1	.							
656	CG	CG	. LYS LYS LYS A A 88 88 .	0.1859	0.1906	0.1536	-0.0131	0.0504	
0.0134	1	.							
657	CD	CD	. LYS LYS LYS A A 88 88 .	0.1820	0.2437	0.1590	-0.0117	0.0303	
0.0287	1	.							
658	CE	CE	. LYS LYS LYS A A 88 88 .	0.2766	0.3465	0.2726	-0.0377	0.0664	
0.0230	1	.							
659	NZ	NZ	. LYS LYS LYS A A 88 88 .	0.3767	0.4184	0.3529	-0.0740	0.0552	
0.0401	1	.							
660	C	C	. LYS LYS LYS A A 88 88 .	0.1373	0.1328	0.1352	0.0018	0.0009	-
0.0023	1	.							
661	O	O	. LYS LYS LYS A A 88 88 .	0.1312	0.1610	0.1370	0.0005	0.0265	-
0.0061	1	.							
662	N	N	. LEU LEU LEU A A 89 89 .	0.1348	0.1147	0.1284	-0.0106	0.0139	
0.0201	1	.							
663	CA	CA	. LEU LEU LEU A A 89 89 .	0.1135	0.1097	0.1006	0.0057	-0.0050	-
0.0006	1	.							
664	CB	CB	. LEU LEU LEU A A 89 89 .	0.0980	0.1147	0.1135	0.0025	-0.0086	-
0.0015	1	.							
665	CG	CG	. LEU LEU LEU A A 89 89 .	0.0855	0.0771	0.0827	0.0057	0.0065	-
0.0141	1	.							
666	CD1	CD1	. LEU LEU LEU A A 89 89 .	0.0920	0.1322	0.1215	0.0286	0.0155	
0.0013	1	.							
667	CD2	CD2	. LEU LEU LEU A A 89 89 .	0.1741	0.1007	0.1516	0.0063	0.0057	-
0.0134	1	.							
668	C	C	. LEU LEU LEU A A 89 89 .	0.1422	0.1235	0.1307	0.0006	0.0046	
0.0001	1	.							
669	O	O	. LEU LEU LEU A A 89 89 .	0.1462	0.1148	0.1547	0.0039	0.0204	
0.0047	1	.							
670	N	N	. ASP ASP ASP A A 90 90 .	0.1292	0.1241	0.1226	-0.0022	-0.0278	
0.0095	1	.							
671	CA	CA	. ASP ASP ASP A A 90 90 .	0.1210	0.1321	0.1222	0.0063	-0.0045	
0.0085	1	.							
672	CB	CB	. ASP ASP ASP A A 90 90 .	0.1420	0.1106	0.1089	0.0098	-0.0077	
0.0110	1	.							
673	CG	CG	. ASP ASP ASP A A 90 90 .	0.1524	0.1421	0.1444	0.0031	-0.0194	
0.0038	1	.							
674	OD1	OD1	. ASP ASP ASP A A 90 90 .	0.1610	0.1340	0.1378	0.0042	0.0115	-
0.0182	1	.							
675	OD2	OD2	. ASP ASP ASP A A 90 90 .	0.1231	0.1196	0.1300	0.0361	0.0070	-
0.0051	1	.							
676	C	C	. ASP ASP ASP A A 90 90 .	0.1419	0.1247	0.1339	0.0010	0.0103	
0.0018	1	.							
677	O	O	. ASP ASP ASP A A 90 90 .	0.1461	0.1288	0.1574	0.0112	0.0192	
0.0053	1	.							
678	N	N	. ASN ASN ASN A A 91 91 .	0.1496	0.1343	0.1370	0.0095	0.0111	
0.0273	1	.							
679	CA	CA	. ASN ASN ASN A A 91 91 .	0.1660	0.1372	0.1592	0.0116	0.0199	
0.0062	1	.							
680	CB	CB	. ASN ASN ASN A A 91 91 .	0.2061	0.1768	0.1549	0.0154	0.0145	
0.0004	1	.							
681	CG	CG	. ASN ASN ASN A A 91 91 .	0.2321	0.2618	0.2070	-0.0009	0.0038	
0.0012	1	.							









772	N	N	. SER SER SER A A 103 103 .	0.1214	0.1328	0.1454	0.0093	0.0010	
0.0102	1	.							
773	CA	CA	. SER SER SER A A 103 103 .	0.1483	0.1598	0.1766	0.0170	-0.0002	-
0.0072	1	.							
774	CB	CB	. SER SER SER A A 103 103 .	0.1574	0.1842	0.2020	0.0286	-0.0077	
0.0070	1	.							
775	OG	OG	. SER SER SER A A 103 103 .	0.1656	0.2151	0.2545	0.0354	0.0002	
0.0305	1	.							
776	C	C	. SER SER SER A A 103 103 .	0.1642	0.1576	0.1483	0.0208	0.0074	-
0.0012	1	.							
777	O	O	. SER SER SER A A 103 103 .	0.2219	0.2096	0.1459	0.0369	0.0338	-
0.0192	1	.							
778	N	N	. LYS LYS LYS A A 104 104 .	0.1387	0.1393	0.1344	0.0153	-0.0058	-
0.0272	1	.							
779	CA	CA	. LYS LYS LYS A A 104 104 .	0.1579	0.1378	0.1595	0.0136	-0.0050	-
0.0082	1	.							
780	CB	CB	. LYS LYS LYS A A 104 104 .	0.1872	0.1499	0.1685	-0.0080	-0.0093	-
0.0106	1	.							
781	CG	CG	. LYS LYS LYS A A 104 104 .	0.2014	0.1613	0.1519	0.0077	-0.0319	-
0.0014	1	.							
782	CD	CD	. LYS LYS LYS A A 104 104 .	0.2185	0.2003	0.2376	-0.0193	-0.0840	
0.0000	1	.							
783	CE	CE	. LYS LYS LYS A A 104 104 .	0.2695	0.2643	0.3176	-0.0320	-0.0390	
0.0448	1	.							
784	NZ	NZ	. LYS LYS LYS A A 104 104 .	0.2598	0.3069	0.2732	0.0007	0.0146	-
0.0026	1	.							
785	C	C	. LYS LYS LYS A A 104 104 .	0.1659	0.1520	0.1541	0.0086	0.0030	-
0.0063	1	.							
786	O	O	. LYS LYS LYS A A 104 104 .	0.1905	0.1633	0.1648	0.0310	-0.0191	-
0.0084	1	.							
787	N	N	. PHE PHE PHE A A 105 105 .	0.1341	0.1278	0.1723	0.0164	0.0097	-
0.0001	1	.							
788	CA	CA	. PHE PHE PHE A A 105 105 .	0.1331	0.1238	0.1439	0.0036	0.0093	-
0.0006	1	.							
789	CB	CB	. PHE PHE PHE A A 105 105 .	0.1121	0.1372	0.1310	-0.0102	0.0117	
0.0263	1	.							
790	CG	CG	. PHE PHE PHE A A 105 105 .	0.1503	0.1378	0.1550	-0.0115	-0.0057	-
0.0079	1	.							
791	CD1	CD1	. PHE PHE PHE A A 105 105 .	0.1865	0.1567	0.1572	-0.0577	-0.0022	
0.0532	1	.							
792	CE1	CE1	. PHE PHE PHE A A 105 105 .	0.2579	0.1477	0.2193	-0.0568	-0.0184	
0.0055	1	.							
793	CZ	CZ	. PHE PHE PHE A A 105 105 .	0.2126	0.2149	0.1621	0.0078	0.0210	-
0.0179	1	.							
794	CE2	CE2	. PHE PHE PHE A A 105 105 .	0.1996	0.1530	0.1266	0.0025	0.0024	
0.0342	1	.							
795	CD2	CD2	. PHE PHE PHE A A 105 105 .	0.1477	0.1498	0.1235	0.0127	-0.0541	
0.0175	1	.							
796	C	C	. PHE PHE PHE A A 105 105 .	0.1345	0.1260	0.1395	-0.0079	-0.0001	
0.0081	1	.							
797	O	O	. PHE PHE PHE A A 105 105 .	0.1375	0.1363	0.1393	-0.0045	0.0016	
0.0077	1	.							
798	N	N	. GLY GLY GLY A A 106 106 .	0.1259	0.1133	0.1134	0.0020	0.0061	-
0.0136	1	.							
799	CA	CA	. GLY GLY GLY A A 106 106 .	0.1082	0.1047	0.1071	0.0019	0.0024	
0.0165	1	.							
800	C	C	. GLY GLY GLY A A 106 106 .	0.1229	0.0917	0.1067	0.0004	-0.0015	
0.0214	1	.							
801	O	O	. GLY GLY GLY A A 106 106 .	0.1063	0.1177	0.1250	0.0081	0.0069	
0.0332	1	.							





862	CA	CA	. ALA ALA ALA A A	116 116	. 0.1010 0.1224 0.1113 -0.0104 -0.0019 -
0.0089	1	.			
863	CB	CB	. ALA ALA ALA A A	116 116	. 0.1362 0.1250 0.1332 -0.0370 0.0072
0.0049	1	.			
864	C	C	. ALA ALA ALA A A	116 116	. 0.1293 0.1192 0.1180 -0.0052 -0.0040
0.0068	1	.			
865	O	O	. ALA ALA ALA A A	116 116	. 0.1072 0.1106 0.1145 0.0066 0.0060
0.0157	1	.			
866	N	N	. VAL VAL VAL A A	117 117	. 0.1287 0.0968 0.1127 -0.0027 0.0089
0.0018	1	.			
867	CA	CA	. VAL VAL VAL A A	117 117	. 0.0916 0.0918 0.0854 -0.0098 0.0177 -
0.0008	1	.			
868	CB	CB	. VAL VAL VAL A A	117 117	. 0.0733 0.0821 0.1025 -0.0176 0.0346
0.0045	1	.			
869	CG1	CG1	. VAL VAL VAL A A	117 117	. 0.1084 0.1374 0.0981 -0.0330 0.0137
0.0302	1	.			
870	CG2	CG2	. VAL VAL VAL A A	117 117	. 0.1137 0.1259 0.0961 -0.0316 0.0306 -
0.0072	1	.			
871	C	C	. VAL VAL VAL A A	117 117	. 0.1026 0.1029 0.1041 -0.0117 0.0145 -
0.0063	1	.			
872	O	O	. VAL VAL VAL A A	117 117	. 0.1199 0.0908 0.1417 0.0005 0.0049 -
0.0067	1	.			
873	N	N	. CYS CYS CYS A A	118 118	. 0.1464 0.1191 0.1197 -0.0139 0.0175
0.0059	1	.			
874	CA	CA	. CYS CYS CYS A A	118 118	. 0.1109 0.1024 0.1160 -0.0150 0.0130
0.0098	1	.			
875	CB	CB	. CYS CYS CYS A A	118 118	. 0.1467 0.1076 0.1035 -0.0220 0.0001
0.0127	1	.			
876	SG	SG	. CYS CYS CYS A A	118 118	. 0.1305 0.1530 0.1395 -0.0026 0.0216 -
0.0116	1	.			
877	C	C	. CYS CYS CYS A A	118 118	. 0.1296 0.1149 0.1293 -0.0103 0.0208
0.0087	1	.			
878	O	O	. CYS CYS CYS A A	118 118	. 0.1074 0.1081 0.1116 -0.0007 0.0384
0.0219	1	.			
879	N	N	. LYS LYS LYS A A	119 119	. 0.1130 0.1108 0.0940 0.0024 0.0044 -
0.0110	1	.			
880	CA	CA	. LYS LYS LYS A A	119 119	. 0.1047 0.1042 0.1243 -0.0063 0.0054 -
0.0020	1	.			
881	CB	CB	. LYS LYS LYS A A	119 119	. 0.0873 0.1179 0.1137 -0.0155 0.0129 -
0.0039	1	.			
882	CG	CG	. LYS LYS LYS A A	119 119	. 0.0819 0.1395 0.0882 -0.0442 0.0109
0.0135	1	.			
883	CD	CD	. LYS LYS LYS A A	119 119	. 0.1542 0.1399 0.1097 -0.0484 0.0344
0.0091	1	.			
884	CE	CE	. LYS LYS LYS A A	119 119	. 0.1735 0.2066 0.1306 -0.0692 0.0126
0.0251	1	.			
885	NZ	NZ	. LYS LYS LYS A A	119 119	. 0.2144 0.1372 0.1205 -0.0536 0.0261
0.0356	1	.			
886	C	C	. LYS LYS LYS A A	119 119	. 0.1150 0.1175 0.1341 -0.0025 -0.0011 -
0.0054	1	.			
887	O	O	. LYS LYS LYS A A	119 119	. 0.1391 0.1424 0.1210 0.0011 0.0316 -
0.0070	1	.			
888	N	N	. ALA ALA ALA A A	120 120	. 0.1066 0.1266 0.1461 -0.0300 -0.0015 -
0.0060	1	.			
889	CA	CA	. ALA ALA ALA A A	120 120	. 0.0847 0.1106 0.1352 -0.0173 -0.0064 -
0.0057	1	.			
890	CB	CB	. ALA ALA ALA A A	120 120	. 0.0859 0.1028 0.1394 0.0117 0.0032 -
0.0109	1	.			
891	C	C	. ALA ALA ALA A A	120 120	. 0.0809 0.0960 0.1223 -0.0041 -0.0030
0.0010	1	.			







952	CA	CA	. LEU LEU LEU A A 129 129 .	0.1044	0.1344	0.1364	0.0138	0.0142	
0.0019	1	.							
953	CB	CB	. LEU LEU LEU A A 129 129 .	0.0934	0.0949	0.1123	0.0227	0.0181	-
0.0082	1	.							
954	CG	CG	. LEU LEU LEU A A 129 129 .	0.0571	0.0824	0.1121	0.0199	0.0408	
0.0102	1	.							
955	CD1	CD1	. LEU LEU LEU A A 129 129 .	0.1196	0.1093	0.1208	-0.0065	0.0330	
0.0191	1	.							
956	CD2	CD2	. LEU LEU LEU A A 129 129 .	0.1438	0.1241	0.0569	-0.0061	-0.0066	
0.0102	1	.							
957	C	C	. LEU LEU LEU A A 129 129 .	0.0895	0.1198	0.1202	0.0101	0.0218	-
0.0030	1	.							
958	O	O	. LEU LEU LEU A A 129 129 .	0.1225	0.0943	0.1199	0.0118	0.0206	-
0.0022	1	.							
959	N	N	. TYR TYR TYR A A 130 130 .	0.0911	0.1185	0.1298	0.0133	0.0148	
0.0020	1	.							
960	CA	CA	. TYR TYR TYR A A 130 130 .	0.1074	0.1005	0.1258	-0.0047	0.0181	-
0.0036	1	.							
961	CB	CB	. TYR TYR TYR A A 130 130 .	0.1387	0.1027	0.1520	0.0069	0.0215	
0.0116	1	.							
962	CG	CG	. TYR TYR TYR A A 130 130 .	0.1249	0.1519	0.1228	0.0134	0.0042	
0.0233	1	.							
963	CD1	CD1	. TYR TYR TYR A A 130 130 .	0.1399	0.1345	0.2017	0.0251	0.0100	
0.0329	1	.							
964	CE1	CE1	. TYR TYR TYR A A 130 130 .	0.1470	0.1036	0.1962	0.0131	0.0278	
0.0012	1	.							
965	CZ	CZ	. TYR TYR TYR A A 130 130 .	0.1152	0.1111	0.1745	-0.0084	0.0018	-
0.0194	1	.							
966	OH	OH	. TYR TYR TYR A A 130 130 .	0.1922	0.1227	0.3069	0.0429	-0.0139	-
0.0363	1	.							
967	CE2	CE2	. TYR TYR TYR A A 130 130 .	0.1212	0.1117	0.1925	-0.0049	-0.0064	
0.0180	1	.							
968	CD2	CD2	. TYR TYR TYR A A 130 130 .	0.1109	0.0834	0.1882	0.0147	-0.0089	
0.0774	1	.							
969	C	C	. TYR TYR TYR A A 130 130 .	0.1101	0.1183	0.1179	0.0052	0.0040	
0.0066	1	.							
970	O	O	. TYR TYR TYR A A 130 130 .	0.1382	0.1137	0.1084	0.0113	0.0155	
0.0049	1	.							
971	N	N	. ARG ARG ARG A A 131 131 .	0.1036	0.1098	0.1308	0.0090	0.0172	
0.0023	1	.							
972	CA	CA	. ARG ARG ARG A A 131 131 .	0.1072	0.1239	0.1550	0.0052	0.0148	
0.0164	1	.							
973	CB	CB	. ARG ARG ARG A A 131 131 .	0.1321	0.1676	0.2029	0.0365	0.0027	-
0.0181	1	.							
974	CG	CG	. ARG ARG ARG A A 131 131 .	0.3089	0.2926	0.2865	0.0066	0.0226	-
0.0021	1	.							
975	CD	CD	. ARG ARG ARG A A 131 131 .	0.3922	0.4938	0.3609	-0.0115	0.0823	
0.0111	1	.							
976	NE	NE	. ARG ARG ARG A A 131 131 .	0.4444	0.5022	0.4362	-0.0487	0.0526	-
0.0373	1	.							
977	CZ	CZ	. ARG ARG ARG A A 131 131 .	0.4513	0.5110	0.4508	-0.0207	0.0472	-
0.0443	1	.							
978	NH1	NH1	. ARG ARG ARG A A 131 131 .	0.3994	0.4771	0.4487	-0.0369	0.0663	-
0.0467	1	.							
979	NH2	NH2	. ARG ARG ARG A A 131 131 .	0.3935	0.4701	0.5044	-0.0498	0.0689	-
0.0515	1	.							
980	C	C	. ARG ARG ARG A A 131 131 .	0.1137	0.1289	0.1268	0.0019	0.0164	
0.0036	1	.							
981	O	O	. ARG ARG ARG A A 131 131 .	0.1223	0.1247	0.1201	0.0000	0.0188	
0.0252	1	.							



1012	C	C	. GLN GLN GLN A A 135 135 .	0.1427	0.1469	0.1436	0.0051	0.0217	
0.0238	1	.							
1013	O	O	. GLN GLN GLN A A 135 135 .	0.1583	0.1652	0.1290	0.0115	0.0317	
0.0443	1	.							
1014	N	N	. LEU LEU LEU A A 136 136 .	0.1475	0.1163	0.1507	0.0053	0.0267	
0.0197	1	.							
1015	CA	CA	. LEU LEU LEU A A 136 136 .	0.1599	0.1588	0.1450	0.0076	0.0236	
0.0126	1	.							
1016	CB	CB	. LEU LEU LEU A A 136 136 .	0.1469	0.1291	0.0777	-0.0035	0.0202	
0.0237	1	.							
1017	CG	CG	. LEU LEU LEU A A 136 136 .	0.1401	0.1233	0.1232	-0.0276	0.0479	-
0.0228	1	.							
1018	CD1	CD1	. LEU LEU LEU A A 136 136 .	0.0897	0.1317	0.1043	-0.0177	0.0318	
0.0238	1	.							
1019	CD2	CD2	. LEU LEU LEU A A 136 136 .	0.1582	0.1279	0.1527	-0.0323	0.0681	
0.0310	1	.							
1020	C	C	. LEU LEU LEU A A 136 136 .	0.1855	0.1728	0.1487	0.0133	0.0047	
0.0187	1	.							
1021	O	O	. LEU LEU LEU A A 136 136 .	0.2163	0.1635	0.1602	0.0385	-0.0029	
0.0206	1	.							
1022	N	N	. ALA ALA ALA A A 137 137 .	0.1555	0.1484	0.1400	-0.0100	0.0036	
0.0100	1	.							
1023	CA	CA	. ALA ALA ALA A A 137 137 .	0.1788	0.1763	0.1318	0.0039	-0.0002	
0.0187	1	.							
1024	CB	CB	. ALA ALA ALA A A 137 137 .	0.1662	0.1553	0.1378	-0.0078	-0.0224	-
0.0307	1	.							
1025	C	C	. ALA ALA ALA A A 137 137 .	0.1895	0.1801	0.1557	0.0005	-0.0065	
0.0043	1	.							
1026	O	O	. ALA ALA ALA A A 137 137 .	0.2091	0.2406	0.1851	0.0182	0.0045	
0.0196	1	.							
1027	N	N	. GLY GLY GLY A A 138 138 .	0.1944	0.1616	0.1631	0.0097	0.0176	
0.0262	1	.							
1028	CA	CA	. GLY GLY GLY A A 138 138 .	0.2669	0.2304	0.2177	0.0011	0.0058	-
0.0009	1	.							
1029	C	C	. GLY GLY GLY A A 138 138 .	0.2918	0.2528	0.2389	-0.0066	0.0108	
0.0048	1	.							
1030	O	O	. GLY GLY GLY A A 138 138 .	0.3278	0.3048	0.2537	-0.0045	0.0040	
0.0129	1	.							
1031	N	N	. ASN ASN ASN A A 139 139 .	0.2539	0.2703	0.2165	0.0081	0.0157	
0.0117	1	.							
1032	CA	CA	. ASN ASN ASN A A 139 139 .	0.2608	0.2610	0.2339	-0.0108	0.0216	
0.0120	1	.							
1033	CB	CB	. ASN ASN ASN A A 139 139 .	0.2577	0.2901	0.2446	-0.0148	0.0191	
0.0203	1	.							
1034	CG	CG	. ASN ASN ASN A A 139 139 .	0.2517	0.2756	0.2228	-0.0065	0.0354	
0.0359	1	.							
1035	OD1	OD1	. ASN ASN ASN A A 139 139 .	0.2929	0.3908	0.1844	-0.0317	0.0369	
0.0580	1	.							
1036	ND2	ND2	. ASN ASN ASN A A 139 139 .	0.2117	0.2259	0.1510	-0.0034	0.0155	
0.0255	1	.							
1037	C	C	. ASN ASN ASN A A 139 139 .	0.2834	0.2971	0.2754	0.0010	0.0177	
0.0020	1	.							
1038	O	O	. ASN ASN ASN A A 139 139 .	0.2622	0.3014	0.3023	0.0259	0.0411	-
0.0123	1	.							
1039	N	N	. SER SER SER A A 140 140 .	0.3313	0.3111	0.3192	0.0084	0.0103	-
0.0121	1	.							
1040	CA	CA	. SER SER SER A A 140 140 .	0.3773	0.3838	0.3776	0.0081	0.0014	-
0.0027	1	.							
1041	CB	CB	. SER SER SER A A 140 140 .	0.3812	0.3712	0.3857	0.0045	0.0166	
0.0063	1	.							

1042	OG	OG	. SER SER SER A A 140 140 .	0.4789	0.4517	0.4535	0.0051	0.0181	
0.0388	1	.							
1043	C	C	. SER SER SER A A 140 140 .	0.3997	0.3946	0.3841	0.0141	-0.0078	-
0.0004	1	.							
1044	O	O	. SER SER SER A A 140 140 .	0.4232	0.4546	0.4532	0.0376	-0.0157	-
0.0216	1	.							
1045	N	N	. ASP ASP ASP A A 141 141 .	0.3779	0.4024	0.3823	0.0041	-0.0061	
0.0011	1	.							
1046	CA	CA	. ASP ASP ASP A A 141 141 .	0.3939	0.4012	0.3783	-0.0106	0.0040	
0.0121	1	.							
1047	CB	CB	. ASP ASP ASP A A 141 141 .	0.4131	0.4136	0.3961	-0.0146	-0.0035	
0.0024	1	.							
1048	CG	CG	. ASP ASP ASP A A 141 141 .	0.4588	0.4555	0.4196	-0.0021	0.0107	-
0.0060	1	.							
1049	OD1	OD1	. ASP ASP ASP A A 141 141 .	0.4599	0.4492	0.4392	-0.0219	0.0307	-
0.0480	1	.							
1050	OD2	OD2	. ASP ASP ASP A A 141 141 .	0.5582	0.5328	0.4856	-0.0039	-0.0551	
0.0338	1	.							
1051	C	C	. ASP ASP ASP A A 141 141 .	0.3617	0.3923	0.3670	-0.0093	-0.0020	
0.0141	1	.							
1052	O	O	. ASP ASP ASP A A 141 141 .	0.4021	0.4192	0.3835	-0.0113	-0.0177	
0.0163	1	.							
1053	N	N	. LEU LEU LEU A A 142 142 .	0.3067	0.3333	0.2952	-0.0243	-0.0005	
0.0069	1	.							
1054	CA	CA	. LEU LEU LEU A A 142 142 .	0.2406	0.2553	0.2617	-0.0213	0.0122	
0.0122	1	.							
1055	CB	CB	. LEU LEU LEU A A 142 142 .	0.2306	0.2492	0.2341	-0.0372	0.0346	-
0.0148	1	.							
1056	CG	CG	. LEU LEU LEU A A 142 142 .	0.2503	0.2655	0.2797	-0.0050	0.0455	-
0.0102	1	.							
1057	CD1	CD1	. LEU LEU LEU A A 142 142 .	0.2578	0.3156	0.2536	-0.0122	0.0437	-
0.0085	1	.							
1058	CD2	CD2	. LEU LEU LEU A A 142 142 .	0.2058	0.1778	0.2924	-0.0016	0.1179	-
0.0354	1	.							
1059	C	C	. LEU LEU LEU A A 142 142 .	0.2275	0.2391	0.2270	-0.0136	0.0052	
0.0115	1	.							
1060	O	O	. LEU LEU LEU A A 142 142 .	0.2258	0.2491	0.1650	-0.0333	0.0384	
0.0138	1	.							
1061	N	N	. ILE ILE ILE A A 143 143 .	0.2108	0.2086	0.2027	-0.0178	0.0172	
0.0331	1	.							
1062	CA	CA	. ILE ILE ILE A A 143 143 .	0.2131	0.2247	0.1924	-0.0127	0.0038	
0.0189	1	.							
1063	CB	CB	. ILE ILE ILE A A 143 143 .	0.2374	0.2973	0.2109	-0.0041	0.0193	
0.0396	1	.							
1064	CG1	CG1	. ILE ILE ILE A A 143 143 .	0.2469	0.2803	0.1996	0.0118	0.0115	
0.0470	1	.							
1065	CD1	CD1	. ILE ILE ILE A A 143 143 .	0.2684	0.1746	0.2778	-0.0782	-0.0384	
0.0277	1	.							
1066	CG2	CG2	. ILE ILE ILE A A 143 143 .	0.2838	0.3012	0.2175	-0.0416	0.0469	
0.0479	1	.							
1067	C	C	. ILE ILE ILE A A 143 143 .	0.1586	0.1726	0.1925	-0.0133	0.0056	
0.0168	1	.							
1068	O	O	. ILE ILE ILE A A 143 143 .	0.1712	0.2086	0.1849	-0.0025	0.0059	
0.0218	1	.							
1069	N	N	. LEU LEU LEU A A 144 144 .	0.1422	0.1443	0.1466	-0.0103	0.0048	
0.0113	1	.							
1070	CA	CA	. LEU LEU LEU A A 144 144 .	0.1045	0.1161	0.1252	-0.0026	-0.0056	-
0.0016	1	.							
1071	CB	CB	. LEU LEU LEU A A 144 144 .	0.0926	0.1065	0.0856	0.0191	-0.0202	-
0.0020	1	.							

1072	CG	CG	. LEU LEU LEU A A 144 144 .	0.1095	0.1370	0.1295	0.0061	-0.0226	
0.0190	1	.							
1073	CD1	CD1	. LEU LEU LEU A A 144 144 .	0.1955	0.1246	0.1259	0.0089	0.0129	
0.0376	1	.							
1074	CD2	CD2	. LEU LEU LEU A A 144 144 .	0.2464	0.1941	0.1844	-0.0320	0.0275	
0.0437	1	.							
1075	C	C	. LEU LEU LEU A A 144 144 .	0.0894	0.1123	0.1074	0.0034	-0.0065	-
0.0022	1	.							
1076	O	O	. LEU LEU LEU A A 144 144 .	0.1092	0.1336	0.1140	0.0116	0.0000	-
0.0275	1	.							
1077	N	N	. PRO PRO PRO A A 145 145 .	0.0841	0.1049	0.0924	0.0105	-0.0001	-
0.0188	1	.							
1078	CA	CA	. PRO PRO PRO A A 145 145 .	0.0863	0.0911	0.0732	0.0003	0.0038	-
0.0239	1	.							
1079	CB	CB	. PRO PRO PRO A A 145 145 .	0.0918	0.1013	0.0726	-0.0010	0.0080	-
0.0110	1	.							
1080	CG	CG	. PRO PRO PRO A A 145 145 .	0.0580	0.0896	0.1116	0.0181	0.0101	-
0.0043	1	.							
1081	CD	CD	. PRO PRO PRO A A 145 145 .	0.0549	0.1079	0.0871	0.0004	0.0000	-
0.0149	1	.							
1082	C	C	. PRO PRO PRO A A 145 145 .	0.1057	0.1250	0.0873	-0.0008	0.0000	-
0.0140	1	.							
1083	O	O	. PRO PRO PRO A A 145 145 .	0.1001	0.1137	0.1108	0.0095	-0.0065	-
0.0128	1	.							
1084	N	N	. VAL VAL VAL A A 146 146 .	0.0774	0.1189	0.0742	-0.0004	-0.0029	-
0.0153	1	.							
1085	CA	CA	. VAL VAL VAL A A 146 146 .	0.0960	0.1066	0.0785	-0.0040	0.0100	-
0.0012	1	.							
1086	CB	CB	. VAL VAL VAL A A 146 146 .	0.0844	0.1337	0.0730	-0.0154	0.0336	-
0.0102	1	.							
1087	CG1	CG1	. VAL VAL VAL A A 146 146 .	0.1224	0.1414	0.1024	-0.0303	-0.0149	-
0.0432	1	.							
1088	CG2	CG2	. VAL VAL VAL A A 146 146 .	0.1157	0.0963	0.0629	-0.0023	0.0247	-
0.0255	1	.							
1089	C	C	. VAL VAL VAL A A 146 146 .	0.0850	0.0845	0.0777	0.0128	-0.0013	-
0.0079	1	.							
1090	O	O	. VAL VAL VAL A A 146 146 .	0.1150	0.0884	0.0929	0.0114	0.0214	-
0.0020	1	.							
1091	N	N	. PRO PRO PRO A A 147 147 .	0.0778	0.0898	0.0844	0.0139	-0.0032	-
0.0006	1	.							
1092	CA	CA	. PRO PRO PRO A A 147 147 .	0.0651	0.1016	0.0852	0.0101	0.0006	-
0.0066	1	.							
1093	CB	CB	. PRO PRO PRO A A 147 147 .	0.0751	0.0767	0.0798	0.0258	0.0067	-
0.0031	1	.							
1094	CG	CG	. PRO PRO PRO A A 147 147 .	0.0554	0.0678	0.0320	-0.0112	0.0130	-
0.0112	1	.							
1095	CD	CD	. PRO PRO PRO A A 147 147 .	0.1132	0.0904	0.0681	0.0406	-0.0075	-
0.0407	1	.							
1096	C	C	. PRO PRO PRO A A 147 147 .	0.0737	0.0866	0.0899	-0.0030	-0.0035	-
0.0033	1	.							
1097	O	O	. PRO PRO PRO A A 147 147 .	0.0949	0.0983	0.0766	0.0050	-0.0096	-
0.0118	1	.							
1098	N	N	. ALA ALA ALA A A 148 148 .	0.0508	0.0971	0.0783	0.0064	0.0086	-
0.0023	1	.							
1099	CA	CA	. ALA ALA ALA A A 148 148 .	0.0673	0.0884	0.0837	0.0000	-0.0129	-
0.0020	1	.							
1100	CB	CB	. ALA ALA ALA A A 148 148 .	0.0983	0.0638	0.0830	0.0160	0.0069	-
0.0044	1	.							
1101	C	C	. ALA ALA ALA A A 148 148 .	0.0744	0.0931	0.0930	0.0020	-0.0006	-
0.0099	1	.							

1102	O	O	. ALA ALA ALA A A	148 148	. 0.0996 0.0820 0.0899 0.0008	-0.0057
0.0063	1	.				
1103	N	N	. PHE PHE PHE A A	149 149	. 0.0651 0.0896 0.0863 0.0011	-0.0063
0.0213	1	.				
1104	CA	CA	. PHE PHE PHE A A	149 149	. 0.0707 0.0766 0.0783 0.0211	0.0194
0.0051	1	.				
1105	CB	CB	. PHE PHE PHE A A	149 149	. 0.0455 0.0851 0.0622 0.0056	0.0070
0.0273	1	.				
1106	CG	CG	. PHE PHE PHE A A	149 149	. 0.0575 0.0772 0.0657 0.0292	0.0162 -
0.0138	1	.				
1107	CD1	CD1	. PHE PHE PHE A A	149 149	. 0.0479 0.0934 0.0905 0.0094	-0.0095
0.0050	1	.				
1108	CE1	CE1	. PHE PHE PHE A A	149 149	. 0.0612 0.1002 0.0766 0.0146	0.0190 -
0.0155	1	.				
1109	CZ	CZ	. PHE PHE PHE A A	149 149	. 0.0816 0.0986 0.0802 -0.0192	-0.0041 -
0.0168	1	.				
1110	CE2	CE2	. PHE PHE PHE A A	149 149	. 0.0680 0.0760 0.0763 0.0146	0.0082 -
0.0090	1	.				
1111	CD2	CD2	. PHE PHE PHE A A	149 149	. 0.0595 0.0792 0.0943 -0.0026	0.0099 -
0.0079	1	.				
1112	C	C	. PHE PHE PHE A A	149 149	. 0.0624 0.0612 0.0755 0.0045	0.0095
0.0153	1	.				
1113	O	O	. PHE PHE PHE A A	149 149	. 0.0829 0.0771 0.0643 0.0102	0.0004
0.0056	1	.				
1114	N	N	. ASN ASN ASN A A	150 150	. 0.0539 0.0652 0.0716 0.0150	0.0189 -
0.0044	1	.				
1115	CA	CA	. ASN ASN ASN A A	150 150	. 0.0620 0.0736 0.1093 0.0073	0.0264
0.0022	1	.				
1116	CB	CB	. ASN ASN ASN A A	150 150	. 0.0604 0.0752 0.1205 0.0293	0.0142 -
0.0357	1	.				
1117	CG	CG	. ASN ASN ASN A A	150 150	. 0.1295 0.1413 0.1276 -0.0129	0.0345 -
0.0362	1	.				
1118	OD1	OD1	. ASN ASN ASN A A	150 150	. 0.1979 0.1313 0.1941 0.0187	0.0168 -
0.0341	1	.				
1119	ND2	ND2	. ASN ASN ASN A A	150 150	. 0.0747 0.0598 0.0882 0.0021	0.0044 -
0.0180	1	.				
1120	C	C	. ASN ASN ASN A A	150 150	. 0.0782 0.1140 0.1059 0.0153	0.0082 -
0.0017	1	.				
1121	O	O	. ASN ASN ASN A A	150 150	. 0.1306 0.1255 0.1183 0.0074	0.0094 -
0.0102	1	.				
1122	N	N	. VAL VAL VAL A A	151 151	. 0.0739 0.0925 0.0922 0.0050	0.0050
0.0152	1	.				
1123	CA	CA	. VAL VAL VAL A A	151 151	. 0.0788 0.0818 0.1214 0.0061	0.0220
0.0095	1	.				
1124	CB	CB	. VAL VAL VAL A A	151 151	. 0.0691 0.1058 0.1173 0.0043	0.0113 -
0.0055	1	.				
1125	CG1	CG1	. VAL VAL VAL A A	151 151	. 0.0796 0.1101 0.1135 -0.0184	0.0220 -
0.0035	1	.				
1126	CG2	CG2	. VAL VAL VAL A A	151 151	. 0.1294 0.0978 0.1611 0.0039	-0.0045 -
0.0210	1	.				
1127	C	C	. VAL VAL VAL A A	151 151	. 0.0872 0.0786 0.1076 -0.0070	0.0066
0.0049	1	.				
1128	O	O	. VAL VAL VAL A A	151 151	. 0.0783 0.0971 0.1108 -0.0082	0.0236
0.0199	1	.				
1129	N	N	. ILE ILE ILE A A	152 152	. 0.0744 0.0737 0.1119 -0.0048	0.0016
0.0021	1	.				
1130	CA	CA	. ILE ILE ILE A A	152 152	. 0.0942 0.0741 0.1237 0.0032	0.0155 -
0.0115	1	.				
1131	CB	CB	. ILE ILE ILE A A	152 152	. 0.0773 0.0819 0.0982 0.0030	0.0109 -
0.0118	1	.				

1132	CG1	CG1	. ILE ILE ILE A A 152 152 .	0.1268	0.1136	0.1128	-0.0291	-0.0056	
0.0027	1	.							
1133	CD1	CD1	. ILE ILE ILE A A 152 152 .	0.1011	0.0786	0.1435	-0.0221	-0.0193	-
0.0103	1	.							
1134	CG2	CG2	. ILE ILE ILE A A 152 152 .	0.1088	0.0735	0.1668	-0.0063	0.0437	-
0.0128	1	.							
1135	C	C	. ILE ILE ILE A A 152 152 .	0.0969	0.0991	0.1287	0.0083	0.0079	
0.0076	1	.							
1136	O	O	. ILE ILE ILE A A 152 152 .	0.0787	0.0926	0.1283	0.0191	-0.0011	
0.0057	1	.							
1137	N	N	. ASN ASN ASN A A 153 153 .	0.0894	0.0938	0.1208	0.0089	0.0051	-
0.0121	1	.							
1138	CA	CA	. ASN ASN ASN A A 153 153 .	0.1008	0.1192	0.1350	0.0230	0.0047	-
0.0123	1	.							
1139	CB	CB	. ASN ASN ASN A A 153 153 .	0.0841	0.1379	0.1406	0.0211	-0.0059	
0.0003	1	.							
1140	CG	CG	. ASN ASN ASN A A 153 153 .	0.1135	0.1536	0.1507	0.0198	-0.0068	-
0.0229	1	.							
1141	OD1	OD1	. ASN ASN ASN A A 153 153 .	0.1735	0.2416	0.1887	0.0212	0.0042	
0.0089	1	.							
1142	ND2	ND2	. ASN ASN ASN A A 153 153 .	0.0658	0.1116	0.0871	0.0094	-0.0149	-
0.0020	1	.							
1143	C	C	. ASN ASN ASN A A 153 153 .	0.0970	0.1202	0.1304	0.0070	0.0173	
0.0076	1	.							
1144	O	O	. ASN ASN ASN A A 153 153 .	0.1112	0.1506	0.1612	0.0111	0.0303	-
0.0016	1	.							
1145	N	N	. GLY GLY GLY A A 154 154 .	0.0817	0.1196	0.1319	0.0299	0.0156	-
0.0088	1	.							
1146	CA	CA	. GLY GLY GLY A A 154 154 .	0.1035	0.1154	0.1308	0.0229	0.0138	-
0.0100	1	.							
1147	C	C	. GLY GLY GLY A A 154 154 .	0.1058	0.1212	0.1306	0.0163	0.0003	-
0.0143	1	.							
1148	O	O	. GLY GLY GLY A A 154 154 .	0.1138	0.1415	0.1572	0.0190	0.0063	-
0.0206	1	.							
1149	N	N	. GLY GLY GLY A A 155 155 .	0.1057	0.1263	0.1251	0.0255	0.0093	-
0.0164	1	.							
1150	CA	CA	. GLY GLY GLY A A 155 155 .	0.1128	0.1198	0.1568	0.0355	-0.0127	-
0.0017	1	.							
1151	C	C	. GLY GLY GLY A A 155 155 .	0.1242	0.1369	0.1617	0.0319	0.0046	-
0.0087	1	.							
1152	O	O	. GLY GLY GLY A A 155 155 .	0.1532	0.1387	0.1378	0.0360	-0.0014	-
0.0085	1	.							
1153	N	N	. SER SER SER A A 156 156 .	0.1644	0.1480	0.1771	0.0179	-0.0049	-
0.0173	1	.							
1154	CA	CA	. SER SER SER A A 156 156 .	0.1798	0.1499	0.2151	0.0170	-0.0103	-
0.0199	1	.							
1155	CB	CB	. SER SER SER A A 156 156 .	0.1761	0.1550	0.2298	0.0027	-0.0160	
0.0071	1	.							
1156	OG	OG	. SER SER SER A A 156 156 .	0.2283	0.2119	0.2663	0.0525	-0.0110	-
0.0544	1	.							
1157	C	C	. SER SER SER A A 156 156 .	0.1924	0.1599	0.1886	0.0146	-0.0123	-
0.0191	1	.							
1158	O	O	. SER SER SER A A 156 156 .	0.2126	0.1744	0.2201	0.0408	-0.0255	-
0.0202	1	.							
1159	N	N	. HIS HIS HIS A A 157 157 .	0.1530	0.1396	0.1875	0.0312	0.0052	-
0.0175	1	.							
1160	CA	CA	. HIS HIS HIS A A 157 157 .	0.1483	0.1489	0.1539	0.0061	0.0227	-
0.0087	1	.							
1161	CB	CB	. HIS HIS HIS A A 157 157 .	0.1291	0.1594	0.1616	-0.0003	0.0319	-
0.0130	1	.							

1162	CG	CG	. HIS HIS HIS A A 157 157 .	0.1516	0.1608	0.1813	-0.0051	0.0092	
0.0108	1	.							
1163	ND1	ND1	. HIS HIS HIS A A 157 157 .	0.1169	0.1528	0.1679	-0.0020	-0.0041	-
0.0043	1	.							
1164	CE1	CE1	. HIS HIS HIS A A 157 157 .	0.1887	0.1516	0.1951	-0.0341	-0.0218	
0.0070	1	.							
1165	NE2	NE2	. HIS HIS HIS A A 157 157 .	0.1246	0.1705	0.1938	-0.0013	0.0034	
0.0165	1	.							
1166	CD2	CD2	. HIS HIS HIS A A 157 157 .	0.1355	0.1785	0.1841	0.0241	0.0291	-
0.0099	1	.							
1167	C	C	. HIS HIS HIS A A 157 157 .	0.1582	0.1653	0.1476	0.0075	0.0210	-
0.0124	1	.							
1168	O	O	. HIS HIS HIS A A 157 157 .	0.1058	0.1527	0.1543	-0.0020	0.0302	
0.0035	1	.							
1169	N	N	. ALA ALA ALA A A 158 158 .	0.1617	0.1734	0.1559	-0.0038	0.0088	-
0.0181	1	.							
1170	CA	CA	. ALA ALA ALA A A 158 158 .	0.1636	0.1720	0.1511	-0.0086	0.0234	-
0.0164	1	.							
1171	CB	CB	. ALA ALA ALA A A 158 158 .	0.1921	0.1980	0.2199	0.0062	0.0225	-
0.0213	1	.							
1172	C	C	. ALA ALA ALA A A 158 158 .	0.1502	0.1791	0.1608	-0.0020	0.0163	-
0.0081	1	.							
1173	O	O	. ALA ALA ALA A A 158 158 .	0.1828	0.1715	0.1631	-0.0140	0.0016	-
0.0062	1	.							
1174	N	N	. GLY GLY GLY A A 159 159 .	0.1309	0.1674	0.1654	-0.0021	0.0132	-
0.0013	1	.							
1175	CA	CA	. GLY GLY GLY A A 159 159 .	0.1524	0.1758	0.1834	-0.0183	0.0280	-
0.0143	1	.							
1176	C	C	. GLY GLY GLY A A 159 159 .	0.1536	0.1833	0.1934	-0.0189	0.0133	-
0.0042	1	.							
1177	O	O	. GLY GLY GLY A A 159 159 .	0.1510	0.1840	0.2171	-0.0214	0.0267	-
0.0155	1	.							
1178	N	N	. ASN ASN ASN A A 160 160 .	0.1357	0.1786	0.1737	-0.0174	0.0189	-
0.0018	1	.							
1179	CA	CA	. ASN ASN ASN A A 160 160 .	0.1571	0.1737	0.1900	-0.0046	0.0171	-
0.0209	1	.							
1180	CB	CB	. ASN ASN ASN A A 160 160 .	0.1390	0.1699	0.1679	-0.0053	0.0296	-
0.0249	1	.							
1181	CG	CG	. ASN ASN ASN A A 160 160 .	0.1425	0.1605	0.1661	0.0028	0.0107	-
0.0072	1	.							
1182	OD1	OD1	. ASN ASN ASN A A 160 160 .	0.1187	0.1771	0.1862	-0.0197	0.0239	
0.0046	1	.							
1183	ND2	ND2	. ASN ASN ASN A A 160 160 .	0.0933	0.1369	0.1348	-0.0079	0.0092	-
0.0136	1	.							
1184	C	C	. ASN ASN ASN A A 160 160 .	0.1347	0.1674	0.1808	-0.0026	0.0062	-
0.0126	1	.							
1185	O	O	. ASN ASN ASN A A 160 160 .	0.1282	0.1664	0.1621	0.0040	0.0179	-
0.0113	1	.							
1186	N	N	. LYS LYS LYS A A 161 161 .	0.1582	0.1915	0.1737	-0.0032	0.0317	-
0.0219	1	.							
1187	CA	CA	. LYS LYS LYS A A 161 161 .	0.1405	0.2063	0.1799	-0.0156	0.0169	-
0.0125	1	.							
1188	CB	CB	. LYS LYS LYS A A 161 161 .	0.1341	0.2220	0.1828	-0.0307	0.0372	-
0.0044	1	.							
1189	CG	CG	. LYS LYS LYS A A 161 161 .	0.1837	0.2412	0.1853	-0.0607	0.0379	
0.0129	1	.							
1190	CD	CD	. LYS LYS LYS A A 161 161 .	0.1887	0.2459	0.2829	-0.0418	0.0257	
0.0114	1	.							
1191	CE	CE	. LYS LYS LYS A A 161 161 .	0.2490	0.3610	0.3494	-0.1018	0.0264	
0.0226	1	.							



1192	NZ	NZ	. LYS LYS LYS A A 161 161 .	0.2922	0.4701	0.4597	-0.0478	-0.0106	
0.0420	1	.							
1193	C	C	. LYS LYS LYS A A 161 161 .	0.1581	0.1769	0.1813	0.0019	0.0169	
0.0010	1	.							
1194	O	O	. LYS LYS LYS A A 161 161 .	0.1279	0.2241	0.2206	-0.0030	0.0116	-
0.0163	1	.							
1195	N	N	. LEU LEU LEU A A 162 162 .	0.1253	0.1996	0.1708	0.0112	0.0259	-
0.0042	1	.							
1196	CA	CA	. LEU LEU LEU A A 162 162 .	0.1298	0.1551	0.1412	0.0293	0.0021	
0.0054	1	.							
1197	CB	CB	. LEU LEU LEU A A 162 162 .	0.0795	0.1664	0.1279	0.0303	0.0121	-
0.0248	1	.							
1198	CG	CG	. LEU LEU LEU A A 162 162 .	0.1017	0.1277	0.0733	0.0285	0.0108	-
0.0014	1	.							
1199	CD1	CD1	. LEU LEU LEU A A 162 162 .	0.1016	0.2114	0.1377	0.0145	-0.0249	-
0.0084	1	.							
1200	CD2	CD2	. LEU LEU LEU A A 162 162 .	0.1035	0.1685	0.1750	0.0366	0.0300	
0.0159	1	.							
1201	C	C	. LEU LEU LEU A A 162 162 .	0.1374	0.1745	0.1679	0.0110	0.0084	-
0.0028	1	.							
1202	O	O	. LEU LEU LEU A A 162 162 .	0.1493	0.1819	0.1588	-0.0008	-0.0074	-
0.0092	1	.							
1203	N	N	. ALA ALA ALA A A 163 163 .	0.1166	0.1394	0.1372	0.0312	0.0066	
0.0248	1	.							
1204	CA	CA	. ALA ALA ALA A A 163 163 .	0.1098	0.1332	0.1537	-0.0058	0.0014	
0.0051	1	.							
1205	CB	CB	. ALA ALA ALA A A 163 163 .	0.1195	0.1412	0.1576	0.0027	-0.0072	
0.0145	1	.							
1206	C	C	. ALA ALA ALA A A 163 163 .	0.1276	0.1308	0.1451	0.0013	-0.0032	
0.0028	1	.							
1207	O	O	. ALA ALA ALA A A 163 163 .	0.0895	0.1435	0.1720	0.0081	-0.0051	
0.0138	1	.							
1208	N	N	. MET MET MET A A 164 164 .	0.0936	0.1300	0.1380	0.0025	0.0020	-
0.0192	1	.							
1209	CA	CA	. MET MET MET A A 164 164 .	0.1033	0.1443	0.1282	-0.0148	-0.0069	-
0.0145	1	.							
1210	CB	CB	. MET MET MET A A 164 164 .	0.0894	0.1603	0.1402	-0.0015	-0.0147	-
0.0222	1	.							
1211	CG	CG	. MET MET MET A A 164 164 .	0.1065	0.1315	0.0719	-0.0094	-0.0363	
0.0108	1	.							
1212	SD	SD	. MET MET MET A A 164 164 .	0.1244	0.1590	0.1545	0.0116	-0.0096	-
0.0219	1	.							
1213	CE	CE	. MET MET MET A A 164 164 .	0.1083	0.1708	0.1667	0.0394	-0.0295	
0.0000	1	.							
1214	C	C	. MET MET MET A A 164 164 .	0.1004	0.1326	0.1233	0.0082	-0.0023	-
0.0038	1	.							
1215	O	O	. MET MET MET A A 164 164 .	0.0977	0.1240	0.1404	0.0026	-0.0058	-
0.0003	1	.							
1216	N	N	. GLN GLN GLN A A 165 165 .	0.0885	0.1052	0.1272	-0.0088	-0.0080	-
0.0146	1	.							
1217	CA	CA	. GLN GLN GLN A A 165 165 .	0.0851	0.0916	0.1107	0.0096	-0.0003	-
0.0046	1	.							
1218	CB	CB	. GLN GLN GLN A A 165 165 .	0.0766	0.1126	0.1135	0.0045	-0.0137	-
0.0127	1	.							
1219	CG	CG	. GLN GLN GLN A A 165 165 .	0.0696	0.1013	0.0844	-0.0250	0.0294	-
0.0200	1	.							
1220	CD	CD	. GLN GLN GLN A A 165 165 .	0.1320	0.1212	0.1193	-0.0224	0.0082	-
0.0225	1	.							
1221	OE1	OE1	. GLN GLN GLN A A 165 165 .	0.1091	0.1344	0.1418	0.0050	0.0174	-
0.0155	1	.							



1252	O	O	. MET MET MET A A 168 168 .	0.1072	0.0974	0.1118	0.0190	-0.0039	-
0.0075	1	.							
1253	N	N	. ILE ILE ILE A A 169 169 .	0.0882	0.0686	0.0834	0.0174	0.0063	
0.0048	1	.							
1254	CA	CA	. ILE ILE ILE A A 169 169 .	0.0627	0.0723	0.0691	0.0020	0.0122	-
0.0008	1	.							
1255	CB	CB	. ILE ILE ILE A A 169 169 .	0.0902	0.0706	0.0935	-0.0332	-0.0093	
0.0085	1	.							
1256	CG1	CG1	. ILE ILE ILE A A 169 169 .	0.0817	0.0727	0.1003	-0.0144	-0.0336	
0.0393	1	.							
1257	CD1	CD1	. ILE ILE ILE A A 169 169 .	0.1060	0.0573	0.1022	0.0164	-0.0184	
0.0418	1	.							
1258	CG2	CG2	. ILE ILE ILE A A 169 169 .	0.1066	0.1166	0.0693	-0.0284	0.0097	
0.0139	1	.							
1259	C	C	. ILE ILE ILE A A 169 169 .	0.0865	0.0932	0.1032	0.0070	-0.0042	
0.0022	1	.							
1260	O	O	. ILE ILE ILE A A 169 169 .	0.0910	0.0882	0.1220	0.0154	-0.0085	-
0.0066	1	.							
1261	N	N	. LEU LEU LEU A A 170 170 .	0.0742	0.0916	0.0879	0.0186	0.0116	
0.0018	1	.							
1262	CA	CA	. LEU LEU LEU A A 170 170 .	0.0757	0.0735	0.0694	0.0030	-0.0004	
0.0122	1	.							
1263	CB	CB	. LEU LEU LEU A A 170 170 .	0.1042	0.0936	0.1221	0.0217	-0.0064	
0.0127	1	.							
1264	CG	CG	. LEU LEU LEU A A 170 170 .	0.1520	0.1005	0.1059	0.0053	0.0180	-
0.0051	1	.							
1265	CD1	CD1	. LEU LEU LEU A A 170 170 .	0.1475	0.1636	0.2299	0.0161	-0.0237	-
0.0083	1	.							
1266	CD2	CD2	. LEU LEU LEU A A 170 170 .	0.1709	0.1433	0.1093	0.0207	0.0079	
0.0139	1	.							
1267	C	C	. LEU LEU LEU A A 170 170 .	0.1093	0.0818	0.0905	0.0006	-0.0100	
0.0074	1	.							
1268	O	O	. LEU LEU LEU A A 170 170 .	0.0987	0.0726	0.0993	0.0039	-0.0239	
0.0056	1	.							
1269	N	N	. PRO PRO PRO A A 171 171 .	0.0896	0.0949	0.1115	0.0104	-0.0097	-
0.0146	1	.							
1270	CA	CA	. PRO PRO PRO A A 171 171 .	0.1167	0.1125	0.0988	0.0055	-0.0003	-
0.0150	1	.							
1271	CB	CB	. PRO PRO PRO A A 171 171 .	0.1155	0.1152	0.1055	0.0008	0.0100	-
0.0009	1	.							
1272	CG	CG	. PRO PRO PRO A A 171 171 .	0.0980	0.1156	0.1054	0.0563	0.0115	-
0.0089	1	.							
1273	CD	CD	. PRO PRO PRO A A 171 171 .	0.1274	0.0824	0.1128	0.0160	-0.0262	-
0.0011	1	.							
1274	C	C	. PRO PRO PRO A A 171 171 .	0.0833	0.0966	0.0808	-0.0018	0.0007	-
0.0010	1	.							
1275	O	O	. PRO PRO PRO A A 171 171 .	0.1286	0.1265	0.0777	0.0028	0.0206	-
0.0066	1	.							
1276	N	N	. VAL VAL VAL A A 172 172 .	0.1044	0.0844	0.0736	0.0011	0.0048	-
0.0057	1	.							
1277	CA	CA	. VAL VAL VAL A A 172 172 .	0.0899	0.0956	0.0860	0.0173	-0.0050	-
0.0021	1	.							
1278	CB	CB	. VAL VAL VAL A A 172 172 .	0.0880	0.0885	0.0802	0.0134	-0.0199	-
0.0025	1	.							
1279	CG1	CG1	. VAL VAL VAL A A 172 172 .	0.1424	0.0920	0.1121	0.0104	0.0046	-
0.0328	1	.							
1280	CG2	CG2	. VAL VAL VAL A A 172 172 .	0.0795	0.1199	0.1002	-0.0059	-0.0178	
0.0022	1	.							
1281	C	C	. VAL VAL VAL A A 172 172 .	0.1175	0.1150	0.0978	0.0049	0.0040	-
0.0177	1	.							

1282	O	O	. VAL VAL VAL A A	172 172	. 0.1029 0.1033 0.1027 -0.0048 0.0292 -
0.0215	1	.			
1283	N	N	. GLY GLY GLY A A	173 173	. 0.1095 0.1156 0.1014 0.0059 0.0081 -
0.0142	1	.			
1284	CA	CA	. GLY GLY GLY A A	173 173	. 0.1172 0.1295 0.1140 0.0057 -0.0009 -
0.0129	1	.			
1285	C	C	. GLY GLY GLY A A	173 173	. 0.1293 0.1337 0.1311 0.0011 -0.0006 -
0.0117	1	.			
1286	O	O	. GLY GLY GLY A A	173 173	. 0.1399 0.1435 0.1483 0.0030 0.0041 -
0.0226	1	.			
1287	N	N	. ALA ALA ALA A A	174 174	. 0.1312 0.1228 0.1383 -0.0050 -0.0150 -
0.0200	1	.			
1288	CA	CA	. ALA ALA ALA A A	174 174	. 0.1271 0.1222 0.1237 -0.0043 -0.0065 -
0.0371	1	.			
1289	CB	CB	. ALA ALA ALA A A	174 174	. 0.1223 0.1158 0.1061 -0.0063 -0.0134 -
0.0607	1	.			
1290	C	C	. ALA ALA ALA A A	174 174	. 0.1367 0.1298 0.1236 0.0032 -0.0012 -
0.0282	1	.			
1291	O	O	. ALA ALA ALA A A	174 174	. 0.1397 0.1710 0.1413 0.0024 0.0115 -
0.0204	1	.			
1292	N	N	. GLU GLU GLU A A	175 175	. 0.1592 0.1484 0.1632 0.0101 0.0058 -
0.0293	1	.			
1293	CA	CA	. GLU GLU GLU A A	175 175	. 0.1639 0.1697 0.1904 0.0018 0.0153 -
0.0155	1	.			
1294	CB	CB	. GLU GLU GLU A A	175 175	. 0.1884 0.1932 0.2350 0.0096 0.0194 -
0.0253	1	.			
1295	CG	CG	. GLU GLU GLU A A	175 175	. 0.3600 0.2769 0.3765 0.0030 0.0318 -
0.0117	1	.			
1296	CD	CD	. GLU GLU GLU A A	175 175	. 0.5377 0.4536 0.5287 0.0537 0.0762 -
0.0130	1	.			
1297	OE1	OE1	. GLU GLU GLU A A	175 175	. 0.6329 0.5550 0.5654 0.0011 0.0706
0.0548	1	.			
1298	OE2	OE2	. GLU GLU GLU A A	175 175	. 0.6142 0.4575 0.6598 0.0702 0.0470
0.0391	1	.			
1299	C	C	. GLU GLU GLU A A	175 175	. 0.1654 0.1634 0.1639 0.0046 0.0168
0.0003	1	.			
1300	O	O	. GLU GLU GLU A A	175 175	. 0.1586 0.1911 0.1586 -0.0061 0.0382 -
0.0288	1	.			
1301	N	N	. SER SER SER A A	176 176	. 0.1415 0.1261 0.1173 0.0060 0.0181 -
0.0080	1	.			
1302	CA	CA	. SER SER SER A A	176 176	. 0.1401 0.1397 0.1248 0.0022 0.0150 -
0.0013	1	.			
1303	CB	CB	. SER SER SER A A	176 176	. 0.1695 0.1585 0.1588 0.0133 0.0188
0.0073	1	.			
1304	OG	OG	. SER SER SER A A	176 176	. 0.1236 0.1626 0.1192 0.0084 0.0320
0.0331	1	.			
1305	C	C	. SER SER SER A A	176 176	. 0.1342 0.1304 0.1216 -0.0005 0.0167 -
0.0205	1	.			
1306	O	O	. SER SER SER A A	176 176	. 0.1183 0.0989 0.0929 0.0070 0.0062 -
0.0096	1	.			
1307	N	N	. PHE PHE PHE A A	177 177	. 0.1085 0.1011 0.0925 0.0135 0.0098 -
0.0199	1	.			
1308	CA	CA	. PHE PHE PHE A A	177 177	. 0.1042 0.0926 0.0774 0.0174 0.0001 -
0.0002	1	.			
1309	CB	CB	. PHE PHE PHE A A	177 177	. 0.1132 0.0770 0.0885 0.0138 -0.0061 -
0.0230	1	.			
1310	CG	CG	. PHE PHE PHE A A	177 177	. 0.0712 0.1130 0.1057 0.0062 -0.0022 -
0.0003	1	.			
1311	CD1	CD1	. PHE PHE PHE A A	177 177	. 0.0648 0.1368 0.1271 0.0054 -0.0372 -
0.0376	1	.			





1372	O	O	. GLY GLY GLY A A 184 184 .	0.0825	0.0696	0.0827	-0.0024	0.0192	
0.0209	1	.							
1373	N	N	. ALA ALA ALA A A 185 185 .	0.0966	0.0872	0.0734	-0.0019	-0.0075	
0.0059	1	.							
1374	CA	CA	. ALA ALA ALA A A 185 185 .	0.0852	0.0897	0.0955	-0.0035	-0.0018	
0.0042	1	.							
1375	CB	CB	. ALA ALA ALA A A 185 185 .	0.0366	0.1006	0.0679	0.0060	-0.0075	
0.0180	1	.							
1376	C	C	. ALA ALA ALA A A 185 185 .	0.0854	0.0855	0.1146	-0.0098	0.0185	-
0.0076	1	.							
1377	O	O	. ALA ALA ALA A A 185 185 .	0.0959	0.0901	0.0953	-0.0044	0.0266	
0.0049	1	.							
1378	N	N	. GLU GLU GLU A A 186 186 .	0.0738	0.0786	0.1073	-0.0063	-0.0052	-
0.0103	1	.							
1379	CA	CA	. GLU GLU GLU A A 186 186 .	0.0765	0.0739	0.1077	0.0190	-0.0196	-
0.0149	1	.							
1380	CB	CB	. GLU GLU GLU A A 186 186 .	0.0715	0.1180	0.0925	0.0274	-0.0120	-
0.0059	1	.							
1381	CG	CG	. GLU GLU GLU A A 186 186 .	0.0620	0.1099	0.0928	0.0473	-0.0408	-
0.0298	1	.							
1382	CD	CD	. GLU GLU GLU A A 186 186 .	0.1507	0.1798	0.1493	0.0268	-0.0072	-
0.0211	1	.							
1383	OE1	OE1	. GLU GLU GLU A A 186 186 .	0.1915	0.1437	0.1707	0.0298	-0.0219	-
0.0377	1	.							
1384	OE2	OE2	. GLU GLU GLU A A 186 186 .	0.1330	0.1429	0.1458	0.0237	0.0004	-
0.0315	1	.							
1385	C	C	. GLU GLU GLU A A 186 186 .	0.0915	0.0668	0.0992	0.0049	0.0060	-
0.0200	1	.							
1386	O	O	. GLU GLU GLU A A 186 186 .	0.0923	0.0795	0.1341	0.0038	-0.0012	
0.0146	1	.							
1387	N	N	. VAL VAL VAL A A 187 187 .	0.0882	0.0682	0.0826	-0.0074	-0.0189	-
0.0227	1	.							
1388	CA	CA	. VAL VAL VAL A A 187 187 .	0.0909	0.1033	0.1046	0.0001	-0.0006	-
0.0047	1	.							
1389	CB	CB	. VAL VAL VAL A A 187 187 .	0.0901	0.1004	0.0791	0.0109	-0.0067	-
0.0011	1	.							
1390	CG1	CG1	. VAL VAL VAL A A 187 187 .	0.0865	0.0805	0.1197	0.0045	0.0006	-
0.0079	1	.							
1391	CG2	CG2	. VAL VAL VAL A A 187 187 .	0.1209	0.0971	0.1152	0.0096	0.0215	-
0.0291	1	.							
1392	C	C	. VAL VAL VAL A A 187 187 .	0.0940	0.1033	0.1060	-0.0031	0.0020	-
0.0066	1	.							
1393	O	O	. VAL VAL VAL A A 187 187 .	0.1046	0.1281	0.1209	-0.0103	-0.0040	
0.0007	1	.							
1394	N	N	. TYR TYR TYR A A 188 188 .	0.0996	0.1224	0.1157	-0.0113	0.0165	-
0.0256	1	.							
1395	CA	CA	. TYR TYR TYR A A 188 188 .	0.1032	0.1124	0.0782	-0.0143	0.0087	-
0.0028	1	.							
1396	CB	CB	. TYR TYR TYR A A 188 188 .	0.1037	0.1060	0.0823	-0.0028	0.0013	
0.0024	1	.							
1397	CG	CG	. TYR TYR TYR A A 188 188 .	0.0777	0.0847	0.0624	0.0112	-0.0150	-
0.0233	1	.							
1398	CD1	CD1	. TYR TYR TYR A A 188 188 .	0.0805	0.0825	0.0978	-0.0025	0.0241	
0.0127	1	.							
1399	CE1	CE1	. TYR TYR TYR A A 188 188 .	0.1038	0.0920	0.0720	-0.0204	0.0241	-
0.0197	1	.							
1400	CZ	CZ	. TYR TYR TYR A A 188 188 .	0.0976	0.1261	0.1015	0.0215	0.0100	-
0.0199	1	.							
1401	OH	OH	. TYR TYR TYR A A 188 188 .	0.0900	0.0933	0.0928	-0.0164	0.0139	-
0.0164	1	.							





1432	CA	CA	. LYS LYS LYS A A 192 192 .	0.1139	0.1159	0.1165	-0.0126	-0.0027	
0.0143	1	.							
1433	CB	CB	. LYS LYS LYS A A 192 192 .	0.1002	0.1514	0.1161	-0.0038	-0.0002	
0.0085	1	.							
1434	CG	CG	. LYS LYS LYS A A 192 192 .	0.1474	0.1304	0.1210	-0.0396	-0.0085	
0.0180	1	.							
1435	CD	CD	. LYS LYS LYS A A 192 192 .	0.2380	0.2448	0.1790	-0.0428	-0.0152	-
0.0203	1	.							
1436	CE	CE	. LYS LYS LYS A A 192 192 .	0.2737	0.3068	0.1857	-0.0377	0.0198	
0.0180	1	.							
1437	NZ	NZ	. LYS LYS LYS A A 192 192 .	0.3417	0.3604	0.1423	-0.0785	0.0274	
0.0157	1	.							
1438	C	C	. LYS LYS LYS A A 192 192 .	0.1241	0.1236	0.1384	-0.0140	0.0088	
0.0097	1	.							
1439	O	O	. LYS LYS LYS A A 192 192 .	0.1223	0.1523	0.1300	0.0018	0.0230	
0.0170	1	.							
1440	N	N	. GLY GLY GLY A A 193 193 .	0.1282	0.1136	0.1193	-0.0140	0.0129	-
0.0044	1	.							
1441	CA	CA	. GLY GLY GLY A A 193 193 .	0.1474	0.1403	0.1287	-0.0300	-0.0065	-
0.0153	1	.							
1442	C	C	. GLY GLY GLY A A 193 193 .	0.1552	0.1511	0.1569	-0.0114	-0.0005	
0.0027	1	.							
1443	O	O	. GLY GLY GLY A A 193 193 .	0.1543	0.1748	0.1779	-0.0309	-0.0159	
0.0149	1	.							
1444	N	N	. VAL VAL VAL A A 194 194 .	0.1472	0.1153	0.1039	-0.0046	-0.0156	-
0.0149	1	.							
1445	CA	CA	. VAL VAL VAL A A 194 194 .	0.1228	0.1358	0.1513	-0.0131	0.0030	-
0.0132	1	.							
1446	CB	CB	. VAL VAL VAL A A 194 194 .	0.1091	0.1429	0.1209	-0.0129	-0.0092	-
0.0252	1	.							
1447	CG1	CG1	. VAL VAL VAL A A 194 194 .	0.0823	0.1819	0.1404	-0.0118	-0.0083	-
0.0330	1	.							
1448	CG2	CG2	. VAL VAL VAL A A 194 194 .	0.1538	0.2038	0.1480	-0.0228	0.0255	-
0.0516	1	.							
1449	C	C	. VAL VAL VAL A A 194 194 .	0.1454	0.1307	0.1609	-0.0049	0.0039	-
0.0077	1	.							
1450	O	O	. VAL VAL VAL A A 194 194 .	0.1540	0.1528	0.2128	-0.0039	0.0231	
0.0103	1	.							
1451	N	N	. ILE ILE ILE A A 195 195 .	0.1312	0.1491	0.1426	-0.0095	-0.0011	-
0.0102	1	.							
1452	CA	CA	. ILE ILE ILE A A 195 195 .	0.1428	0.1177	0.1395	-0.0099	0.0113	-
0.0186	1	.							
1453	CB	CB	. ILE ILE ILE A A 195 195 .	0.1252	0.1044	0.1407	-0.0225	0.0312	-
0.0238	1	.							
1454	CG1	CG1	. ILE ILE ILE A A 195 195 .	0.0898	0.0750	0.1423	0.0012	0.0069	
0.0123	1	.							
1455	CD1	CD1	. ILE ILE ILE A A 195 195 .	0.1582	0.1003	0.2126	-0.0416	0.0040	-
0.0170	1	.							
1456	CG2	CG2	. ILE ILE ILE A A 195 195 .	0.1127	0.1314	0.1813	-0.0110	0.0366	-
0.0281	1	.							
1457	C	C	. ILE ILE ILE A A 195 195 .	0.1695	0.1447	0.1647	-0.0050	0.0084	-
0.0121	1	.							
1458	O	O	. ILE ILE ILE A A 195 195 .	0.1860	0.1913	0.1880	0.0111	0.0178	
0.0131	1	.							
1459	N	N	. LYS LYS LYS A A 196 196 .	0.1528	0.1483	0.1590	-0.0040	-0.0045	-
0.0015	1	.							
1460	CA	CA	. LYS LYS LYS A A 196 196 .	0.1679	0.1828	0.1813	-0.0114	0.0104	
0.0061	1	.							
1461	CB	CB	. LYS LYS LYS A A 196 196 .	0.1711	0.1984	0.1815	0.0106	-0.0048	
0.0402	1	.							

1462	CG	CG	. LYS LYS LYS A A 196 196 .	0.2192	0.2625	0.2091	0.0340	0.0233	
0.0410	1	.							
1463	CD	CD	. LYS LYS LYS A A 196 196 .	0.2752	0.3779	0.3224	0.0667	0.0035	
0.0818	1	.							
1464	CE	CE	. LYS LYS LYS A A 196 196 .	0.4054	0.3910	0.4556	0.0275	-0.0153	
0.0435	1	.							
1465	C	C	. LYS LYS LYS A A 196 196 .	0.1690	0.1842	0.1884	-0.0277	0.0148	
0.0004	1	.							
1466	O	O	. LYS LYS LYS A A 196 196 .	0.1936	0.2098	0.2248	-0.0503	0.0172	
0.0119	1	.							
1467	N	N	. ASP ASP ASP A A 197 197 .	0.1546	0.1550	0.1827	-0.0291	0.0025	
0.0014	1	.							
1468	CA	CA	. ASP ASP ASP A A 197 197 .	0.1710	0.2116	0.2152	-0.0408	0.0023	-
0.0029	1	.							
1469	CB	CB	. ASP ASP ASP A A 197 197 .	0.1875	0.1951	0.2372	-0.0414	-0.0008	-
0.0315	1	.							
1470	CG	CG	. ASP ASP ASP A A 197 197 .	0.2979	0.2837	0.2974	-0.0168	0.0013	-
0.0183	1	.							
1471	OD1	OD1	. ASP ASP ASP A A 197 197 .	0.3059	0.3372	0.3490	-0.0073	0.0612	-
0.0437	1	.							
1472	OD2	OD2	. ASP ASP ASP A A 197 197 .	0.3470	0.3728	0.3569	0.0112	-0.0351	-
0.0352	1	.							
1473	C	C	. ASP ASP ASP A A 197 197 .	0.1851	0.2118	0.2199	-0.0313	-0.0039	-
0.0161	1	.							
1474	O	O	. ASP ASP ASP A A 197 197 .	0.1753	0.2066	0.2342	-0.0646	-0.0127	-
0.0402	1	.							
1475	N	N	. LYS LYS LYS A A 198 198 .	0.1579	0.2103	0.1822	-0.0271	-0.0210	-
0.0193	1	.							
1476	CA	CA	. LYS LYS LYS A A 198 198 .	0.1664	0.2156	0.1899	-0.0133	-0.0074	-
0.0204	1	.							
1477	CB	CB	. LYS LYS LYS A A 198 198 .	0.1570	0.2246	0.1862	-0.0044	-0.0341	-
0.0461	1	.							
1478	CG	CG	. LYS LYS LYS A A 198 198 .	0.1675	0.2239	0.1800	-0.0024	-0.0291	-
0.0195	1	.							
1479	CD	CD	. LYS LYS LYS A A 198 198 .	0.1666	0.1856	0.1783	0.0017	-0.0372	-
0.0182	1	.							
1480	CE	CE	. LYS LYS LYS A A 198 198 .	0.2288	0.2370	0.2223	-0.0064	-0.0300	-
0.0125	1	.							
1481	NZ	NZ	. LYS LYS LYS A A 198 198 .	0.3371	0.2084	0.1874	-0.0171	0.0175	-
0.0167	1	.							
1482	C	C	. LYS LYS LYS A A 198 198 .	0.1809	0.2355	0.2128	-0.0179	-0.0092	-
0.0085	1	.							
1483	O	O	. LYS LYS LYS A A 198 198 .	0.1756	0.2700	0.2370	-0.0402	0.0000	-
0.0039	1	.							
1484	N	N	. TYR TYR TYR A A 199 199 .	0.1510	0.2210	0.1935	-0.0187	-0.0268	-
0.0044	1	.							
1485	CA	CA	. TYR TYR TYR A A 199 199 .	0.1720	0.2315	0.2033	-0.0049	-0.0168	-
0.0049	1	.							
1486	CB	CB	. TYR TYR TYR A A 199 199 .	0.1846	0.2263	0.2102	-0.0146	-0.0156	-
0.0130	1	.							
1487	CG	CG	. TYR TYR TYR A A 199 199 .	0.1997	0.2501	0.2328	-0.0046	-0.0048	-
0.0010	1	.							
1488	CD1	CD1	. TYR TYR TYR A A 199 199 .	0.1639	0.1794	0.2301	-0.0423	-0.0034	-
0.0316	1	.							
1489	CE1	CE1	. TYR TYR TYR A A 199 199 .	0.1674	0.1856	0.1595	-0.0331	-0.0080	-
0.0324	1	.							
1490	CZ	CZ	. TYR TYR TYR A A 199 199 .	0.1748	0.2143	0.1915	-0.0160	-0.0281	-
0.0122	1	.							
1491	OH	OH	. TYR TYR TYR A A 199 199 .	0.1508	0.2533	0.2185	-0.0560	-0.0479	-
0.0108	1	.							





1552 N	N	. GLU GLU GLU A A 209 209 .	0.1062	0.1013	0.0875	0.0037	0.0125	-
0.0087	1 .							
1553 CA	CA	. GLU GLU GLU A A 209 209 .	0.0956	0.0734	0.0780	0.0139	0.0295	
0.0113	1 .							
1554 CB	CB	. GLU GLU GLU A A 209 209 .	0.1167	0.0984	0.0998	-0.0141	-0.0108	-
0.0039	1 .							
1555 CG	CG	. GLU GLU GLU A A 209 209 .	0.1238	0.1000	0.0864	0.0299	0.0329	
0.0099	1 .							
1556 CD	CD	. GLU GLU GLU A A 209 209 .	0.1278	0.1297	0.1337	0.0050	0.0265	
0.0032	1 .							
1557 OE1	OE1	. GLU GLU GLU A A 209 209 .	0.1425	0.1534	0.1695	0.0015	0.0037	-
0.0001	1 .							
1558 OE2	OE2	. GLU GLU GLU A A 209 209 .	0.1533	0.1278	0.1342	0.0020	0.0005	
0.0202	1 .							
1559 C	C	. GLU GLU GLU A A 209 209 .	0.1022	0.0933	0.0997	0.0083	0.0057	
0.0000	1 .							
1560 O	O	. GLU GLU GLU A A 209 209 .	0.1065	0.0921	0.1201	0.0166	0.0088	-
0.0051	1 .							
1561 N	N	. GLY GLY GLY A A 210 210 .	0.0784	0.0937	0.1172	0.0013	0.0099	
0.0167	1 .							
1562 CA	CA	. GLY GLY GLY A A 210 210 .	0.1011	0.0924	0.1046	-0.0036	0.0105	-
0.0221	1 .							
1563 C	C	. GLY GLY GLY A A 210 210 .	0.1198	0.1184	0.1073	-0.0042	0.0069	-
0.0061	1 .							
1564 O	O	. GLY GLY GLY A A 210 210 .	0.1100	0.1027	0.0969	0.0042	0.0066	-
0.0119	1 .							
1565 N	N	. GLY GLY GLY A A 211 211 .	0.1017	0.1287	0.1137	-0.0053	0.0143	-
0.0070	1 .							
1566 CA	CA	. GLY GLY GLY A A 211 211 .	0.1141	0.1071	0.1076	-0.0225	0.0334	-
0.0141	1 .							
1567 C	C	. GLY GLY GLY A A 211 211 .	0.1419	0.1238	0.1220	-0.0151	0.0215	-
0.0016	1 .							
1568 O	O	. GLY GLY GLY A A 211 211 .	0.0960	0.1469	0.1169	-0.0317	0.0236	
0.0071	1 .							
1569 N	N	. PHE PHE PHE A A 212 212 .	0.1107	0.0935	0.1048	-0.0381	0.0189	-
0.0103	1 .							
1570 CA	CA	. PHE PHE PHE A A 212 212 .	0.0913	0.1150	0.1332	0.0121	0.0345	
0.0010	1 .							
1571 CB	CB	. PHE PHE PHE A A 212 212 .	0.0898	0.0969	0.1391	0.0087	0.0307	-
0.0024	1 .							
1572 CG	CG	. PHE PHE PHE A A 212 212 .	0.1239	0.1179	0.1472	0.0089	0.0105	-
0.0111	1 .							
1573 CD1	CD1	. PHE PHE PHE A A 212 212 .	0.1105	0.0545	0.1309	-0.0101	0.0135	-
0.0150	1 .							
1574 CE1	CE1	. PHE PHE PHE A A 212 212 .	0.1190	0.1254	0.1698	-0.0001	-0.0003	
0.0142	1 .							
1575 CZ	CZ	. PHE PHE PHE A A 212 212 .	0.1471	0.0800	0.1306	-0.0006	-0.0059	-
0.0313	1 .							
1576 CE2	CE2	. PHE PHE PHE A A 212 212 .	0.1182	0.0918	0.1766	-0.0048	0.0088	-
0.0098	1 .							
1577 CD2	CD2	. PHE PHE PHE A A 212 212 .	0.1280	0.0623	0.1761	-0.0106	-0.0078	-
0.0124	1 .							
1578 C	C	. PHE PHE PHE A A 212 212 .	0.0811	0.1354	0.1351	-0.0014	0.0046	
0.0067	1 .							
1579 O	O	. PHE PHE PHE A A 212 212 .	0.0718	0.1234	0.1353	-0.0157	0.0271	
0.0019	1 .							
1580 N	N	. ALA ALA ALA A A 213 213 .	0.0987	0.1325	0.1285	0.0032	0.0172	-
0.0196	1 .							
1581 CA	CA	. ALA ALA ALA A A 213 213 .	0.1028	0.1379	0.1185	0.0038	0.0120	-
0.0209	1 .							









1672	CB	CB	. LEU LEU LEU A A 225 225 .	0.1219	0.1725	0.1345	-0.0277	0.0349	-
0.0010	1	.							
1673	CG	CG	. LEU LEU LEU A A 225 225 .	0.0887	0.1378	0.1451	-0.0089	0.0394	
0.0290	1	.							
1674	CD1	CD1	. LEU LEU LEU A A 225 225 .	0.1565	0.1666	0.1605	0.0094	0.0166	
0.0232	1	.							
1675	CD2	CD2	. LEU LEU LEU A A 225 225 .	0.1120	0.1363	0.1765	-0.0367	0.0468	
0.0471	1	.							
1676	C	C	. LEU LEU LEU A A 225 225 .	0.1214	0.1276	0.1560	-0.0176	0.0003	-
0.0008	1	.							
1677	O	O	. LEU LEU LEU A A 225 225 .	0.1073	0.1102	0.1611	-0.0228	-0.0073	
0.0027	1	.							
1678	N	N	. VAL VAL VAL A A 226 226 .	0.1429	0.1351	0.1449	-0.0234	0.0059	
0.0081	1	.							
1679	CA	CA	. VAL VAL VAL A A 226 226 .	0.1192	0.1329	0.1501	0.0064	0.0176	-
0.0159	1	.							
1680	CB	CB	. VAL VAL VAL A A 226 226 .	0.1268	0.1311	0.1545	-0.0002	0.0286	-
0.0086	1	.							
1681	CG1	CG1	. VAL VAL VAL A A 226 226 .	0.1588	0.1607	0.1254	-0.0208	0.0310	
0.0080	1	.							
1682	CG2	CG2	. VAL VAL VAL A A 226 226 .	0.1622	0.0902	0.1219	-0.0163	-0.0089	-
0.0215	1	.							
1683	C	C	. VAL VAL VAL A A 226 226 .	0.1359	0.1476	0.1500	0.0016	0.0017	-
0.0151	1	.							
1684	O	O	. VAL VAL VAL A A 226 226 .	0.1142	0.1336	0.1832	0.0012	0.0033	-
0.0068	1	.							
1685	N	N	. LYS LYS LYS A A 227 227 .	0.1318	0.1546	0.1431	0.0039	0.0035	-
0.0193	1	.							
1686	CA	CA	. LYS LYS LYS A A 227 227 .	0.1616	0.1535	0.1563	0.0105	-0.0131	-
0.0302	1	.							
1687	CB	CB	. LYS LYS LYS A A 227 227 .	0.1690	0.1766	0.1512	0.0290	-0.0266	-
0.0318	1	.							
1688	CG	CG	. LYS LYS LYS A A 227 227 .	0.2658	0.2235	0.2144	0.0527	-0.0675	-
0.0609	1	.							
1689	CD	CD	. LYS LYS LYS A A 227 227 .	0.3290	0.3275	0.3490	0.0567	-0.0799	-
0.0943	1	.							
1690	CE	CE	. LYS LYS LYS A A 227 227 .	0.4430	0.4668	0.3546	0.0788	-0.0594	-
0.0596	1	.							
1691	NZ	NZ	. LYS LYS LYS A A 227 227 .	0.4457	0.4411	0.3795	0.1083	-0.0984	-
0.0548	1	.							
1692	C	C	. LYS LYS LYS A A 227 227 .	0.1562	0.1549	0.1401	0.0084	-0.0098	-
0.0181	1	.							
1693	O	O	. LYS LYS LYS A A 227 227 .	0.1321	0.1725	0.1745	-0.0092	-0.0071	-
0.0103	1	.							
1694	N	N	. GLU GLU GLU A A 228 228 .	0.1401	0.1301	0.1683	-0.0104	-0.0111	-
0.0104	1	.							
1695	CA	CA	. GLU GLU GLU A A 228 228 .	0.1401	0.1464	0.1569	0.0052	-0.0293	-
0.0007	1	.							
1696	CB	CB	. GLU GLU GLU A A 228 228 .	0.1671	0.1395	0.1973	0.0055	-0.0195	
0.0191	1	.							
1697	CG	CG	. GLU GLU GLU A A 228 228 .	0.2731	0.2028	0.2102	0.0228	-0.0484	
0.0286	1	.							
1698	CD	CD	. GLU GLU GLU A A 228 228 .	0.3865	0.3023	0.3292	0.0303	-0.0457	-
0.0446	1	.							
1699	OE1	OE1	. GLU GLU GLU A A 228 228 .	0.4479	0.3099	0.3777	-0.0320	-0.0988	-
0.1102	1	.							
1700	OE2	OE2	. GLU GLU GLU A A 228 228 .	0.5103	0.3170	0.3763	0.0245	-0.0267	-
0.0444	1	.							
1701	C	C	. GLU GLU GLU A A 228 228 .	0.1443	0.1419	0.1716	0.0013	-0.0160	-
0.0128	1	.							

1702	O	O	. GLU GLU GLU A A 228 228 .	0.1370	0.1395	0.1609	0.0000	-0.0115	-
0.0205	1	.							
1703	N	N	. ALA ALA ALA A A 229 229 .	0.1349	0.1478	0.1495	-0.0149	-0.0216	-
0.0136	1	.							
1704	CA	CA	. ALA ALA ALA A A 229 229 .	0.1214	0.1433	0.1437	-0.0145	-0.0127	-
0.0172	1	.							
1705	CB	CB	. ALA ALA ALA A A 229 229 .	0.1348	0.1221	0.1276	-0.0123	-0.0330	-
0.0398	1	.							
1706	C	C	. ALA ALA ALA A A 229 229 .	0.1310	0.1181	0.1339	-0.0036	-0.0121	-
0.0223	1	.							
1707	O	O	. ALA ALA ALA A A 229 229 .	0.1306	0.1444	0.1530	-0.0020	-0.0209	-
0.0122	1	.							
1708	N	N	. ILE ILE ILE A A 230 230 .	0.1077	0.0889	0.1231	-0.0140	0.0042	-
0.0219	1	.							
1709	CA	CA	. ILE ILE ILE A A 230 230 .	0.1291	0.1151	0.1443	-0.0089	0.0078	-
0.0199	1	.							
1710	CB	CB	. ILE ILE ILE A A 230 230 .	0.0984	0.0902	0.1152	0.0129	0.0112	-
0.0301	1	.							
1711	CG1	CG1	. ILE ILE ILE A A 230 230 .	0.0911	0.0548	0.1151	0.0061	-0.0245	-
0.0188	1	.							
1712	CD1	CD1	. ILE ILE ILE A A 230 230 .	0.1549	0.1311	0.1547	0.0219	-0.0259	-
0.0233	1	.							
1713	CG2	CG2	. ILE ILE ILE A A 230 230 .	0.1284	0.1401	0.1239	-0.0173	0.0185	-
0.0367	1	.							
1714	C	C	. ILE ILE ILE A A 230 230 .	0.1318	0.1361	0.1408	0.0005	0.0006	-
0.0353	1	.							
1715	O	O	. ILE ILE ILE A A 230 230 .	0.1264	0.1533	0.1284	0.0078	-0.0032	-
0.0202	1	.							
1716	N	N	. ASP ASP ASP A A 231 231 .	0.1235	0.1243	0.1524	-0.0238	0.0139	-
0.0330	1	.							
1717	CA	CA	. ASP ASP ASP A A 231 231 .	0.1695	0.1412	0.1859	0.0003	-0.0073	-
0.0240	1	.							
1718	CB	CB	. ASP ASP ASP A A 231 231 .	0.1898	0.1439	0.2071	-0.0190	-0.0211	-
0.0570	1	.							
1719	CG	CG	. ASP ASP ASP A A 231 231 .	0.2674	0.2519	0.2457	-0.0369	-0.0128	-
0.0315	1	.							
1720	OD1	OD1	. ASP ASP ASP A A 231 231 .	0.2890	0.3929	0.3329	-0.0258	0.0220	-
0.0408	1	.							
1721	OD2	OD2	. ASP ASP ASP A A 231 231 .	0.2929	0.3980	0.2436	-0.0921	-0.0181	-
0.0029	1	.							
1722	C	C	. ASP ASP ASP A A 231 231 .	0.1736	0.1583	0.1819	-0.0079	-0.0050	-
0.0204	1	.							
1723	O	O	. ASP ASP ASP A A 231 231 .	0.1943	0.1687	0.1781	0.0133	-0.0100	-
0.0262	1	.							
1724	N	N	. LYS LYS LYS A A 232 232 .	0.1562	0.1425	0.1593	-0.0158	-0.0138	-
0.0066	1	.							
1725	CA	CA	. LYS LYS LYS A A 232 232 .	0.1352	0.1503	0.1761	-0.0205	-0.0064	-
0.0027	1	.							
1726	CB	CB	. LYS LYS LYS A A 232 232 .	0.1755	0.1175	0.1493	0.0057	0.0016	-
0.0027	1	.							
1727	CG	CG	. LYS LYS LYS A A 232 232 .	0.1983	0.2670	0.2087	-0.0098	-0.0222	-
0.0155	1	.							
1728	CD	CD	. LYS LYS LYS A A 232 232 .	0.3583	0.3671	0.2678	-0.0571	0.0280	-
0.0076	1	.							
1729	CE	CE	. LYS LYS LYS A A 232 232 .	0.4711	0.3930	0.3403	-0.0561	-0.0049	-
0.0019	1	.							
1730	NZ	NZ	. LYS LYS LYS A A 232 232 .	0.5328	0.4570	0.3767	-0.0711	0.0206	-
0.0394	1	.							
1731	C	C	. LYS LYS LYS A A 232 232 .	0.1378	0.1445	0.1887	-0.0021	-0.0057	-
0.0053	1	.							

1732	O	O	. LYS LYS LYS A A 232 232 .	0.1054	0.1110	0.2126	-0.0049	-0.0214	-
0.0028	1	.							
1733	N	N	. ALA ALA ALA A A 233 233 .	0.1212	0.1221	0.1807	-0.0004	0.0020	-
0.0078	1	.							
1734	CA	CA	. ALA ALA ALA A A 233 233 .	0.1254	0.1362	0.1560	-0.0174	0.0000	-
0.0234	1	.							
1735	CB	CB	. ALA ALA ALA A A 233 233 .	0.1383	0.0776	0.1536	-0.0054	0.0216	-
0.0346	1	.							
1736	C	C	. ALA ALA ALA A A 233 233 .	0.1517	0.1240	0.1662	0.0002	-0.0020	-
0.0258	1	.							
1737	O	O	. ALA ALA ALA A A 233 233 .	0.1378	0.1511	0.1737	-0.0311	-0.0037	-
0.0423	1	.							
1738	N	N	. GLY GLY GLY A A 234 234 .	0.1628	0.1535	0.1572	0.0053	-0.0035	-
0.0122	1	.							
1739	CA	CA	. GLY GLY GLY A A 234 234 .	0.1638	0.1472	0.1467	0.0097	0.0000	-
0.0104	1	.							
1740	C	C	. GLY GLY GLY A A 234 234 .	0.1358	0.1373	0.1496	-0.0100	0.0042	-
0.0210	1	.							
1741	O	O	. GLY GLY GLY A A 234 234 .	0.1780	0.1471	0.1636	0.0174	0.0170	-
0.0120	1	.							
1742	N	N	. TYR TYR TYR A A 235 235 .	0.1051	0.1326	0.1296	-0.0074	-0.0067	-
0.0116	1	.							
1743	CA	CA	. TYR TYR TYR A A 235 235 .	0.1232	0.1083	0.1244	-0.0020	-0.0274	-
0.0155	1	.							
1744	CB	CB	. TYR TYR TYR A A 235 235 .	0.1284	0.1390	0.1259	0.0006	-0.0297	-
0.0212	1	.							
1745	CG	CG	. TYR TYR TYR A A 235 235 .	0.1116	0.0898	0.1234	-0.0035	-0.0232	-
0.0130	1	.							
1746	CD1	CD1	. TYR TYR TYR A A 235 235 .	0.1538	0.1851	0.1679	0.0052	-0.0262	-
0.0063	1	.							
1747	CE1	CE1	. TYR TYR TYR A A 235 235 .	0.1141	0.1242	0.1520	0.0001	-0.0351	-
0.0034	1	.							
1748	CZ	CZ	. TYR TYR TYR A A 235 235 .	0.1701	0.1618	0.1704	0.0139	-0.0114	-
0.0128	1	.							
1749	OH	OH	. TYR TYR TYR A A 235 235 .	0.1640	0.1794	0.1998	0.0284	-0.0440	-
0.0212	1	.							
1750	CE2	CE2	. TYR TYR TYR A A 235 235 .	0.1685	0.1719	0.1441	0.0096	-0.0326	-
0.0033	1	.							
1751	CD2	CD2	. TYR TYR TYR A A 235 235 .	0.1471	0.1457	0.1228	0.0018	0.0014	-
0.0198	1	.							
1752	C	C	. TYR TYR TYR A A 235 235 .	0.1219	0.1393	0.1422	-0.0059	-0.0116	-
0.0051	1	.							
1753	O	O	. TYR TYR TYR A A 235 235 .	0.1202	0.1281	0.1317	0.0004	-0.0044	-
0.0177	1	.							
1754	N	N	. THR THR THR A A 236 236 .	0.1498	0.1611	0.1528	-0.0158	-0.0341	-
0.0238	1	.							
1755	CA	CA	. THR THR THR A A 236 236 .	0.1620	0.1619	0.1659	-0.0106	-0.0199	-
0.0008	1	.							
1756	CB	CB	. THR THR THR A A 236 236 .	0.1640	0.2068	0.1856	-0.0389	-0.0265	-
0.0028	1	.							
1757	OG1	OG1	. THR THR THR A A 236 236 .	0.2319	0.2518	0.2337	-0.0571	-0.0424	-
0.0137	1	.							
1758	CG2	CG2	. THR THR THR A A 236 236 .	0.1718	0.1596	0.1907	-0.0088	-0.0079	-
0.0216	1	.							
1759	C	C	. THR THR THR A A 236 236 .	0.1851	0.1836	0.1643	-0.0120	-0.0231	-
0.0270	1	.							
1760	O	O	. THR THR THR A A 236 236 .	0.1909	0.1736	0.1554	0.0018	-0.0271	-
0.0076	1	.							
1761	N	N	. GLU GLU GLU A A 237 237 .	0.1827	0.1984	0.1805	-0.0161	-0.0199	-
0.0328	1	.							



1792	CB	CB	. ILE ILE ILE A A 241 241 .	0.0836	0.0910	0.0837	-0.0038	-0.0008	
0.0160	1	.							
1793	CG1	CG1	. ILE ILE ILE A A 241 241 .	0.1433	0.1075	0.1536	-0.0264	-0.0036	-
0.0032	1	.							
1794	CD1	CD1	. ILE ILE ILE A A 241 241 .	0.1492	0.1430	0.2481	-0.0579	-0.0365	
0.0427	1	.							
1795	CG2	CG2	. ILE ILE ILE A A 241 241 .	0.1252	0.1299	0.1245	0.0053	0.0097	
0.0150	1	.							
1796	C	C	. ILE ILE ILE A A 241 241 .	0.0962	0.1061	0.1171	0.0190	-0.0025	-
0.0110	1	.							
1797	O	O	. ILE ILE ILE A A 241 241 .	0.1342	0.1415	0.1357	0.0037	0.0012	-
0.0289	1	.							
1798	N	N	. GLY GLY GLY A A 242 242 .	0.0772	0.0859	0.1163	-0.0036	-0.0094	-
0.0262	1	.							
1799	CA	CA	. GLY GLY GLY A A 242 242 .	0.0593	0.1012	0.1092	0.0121	-0.0082	-
0.0030	1	.							
1800	C	C	. GLY GLY GLY A A 242 242 .	0.0916	0.1055	0.0916	0.0145	-0.0006	
0.0196	1	.							
1801	O	O	. GLY GLY GLY A A 242 242 .	0.1111	0.1261	0.1245	0.0188	-0.0026	
0.0026	1	.							
1802	N	N	. MET MET MET A A 243 243 .	0.0986	0.1111	0.1342	0.0059	0.0088	-
0.0032	1	.							
1803	CA	CA	. MET MET MET A A 243 243 .	0.0996	0.1101	0.0975	0.0045	-0.0132	-
0.0026	1	.							
1804	CB	CB	. MET MET MET A A 243 243 .	0.0843	0.0989	0.1242	-0.0171	-0.0267	
0.0044	1	.							
1805	CG	CG	. MET MET MET A A 243 243 .	0.1249	0.1138	0.1838	-0.0269	-0.0377	-
0.0376	1	.							
1806	SD	SD	. MET MET MET A A 243 243 .	0.1371	0.1631	0.1972	-0.0141	-0.0041	-
0.0369	1	.							
1807	CE	CE	. MET MET MET A A 243 243 .	0.1360	0.2368	0.1379	-0.0029	-0.0249	-
0.0425	1	.							
1808	C	C	. MET MET MET A A 243 243 .	0.0997	0.1145	0.1105	-0.0090	-0.0133	
0.0010	1	.							
1809	O	O	. MET MET MET A A 243 243 .	0.1089	0.1275	0.1151	-0.0150	0.0099	
0.0064	1	.							
1810	N	N	. ASP ASP ASP A A 244 244 .	0.1040	0.1201	0.1255	0.0024	-0.0203	-
0.0282	1	.							
1811	CA	CA	. ASP ASP ASP A A 244 244 .	0.0906	0.1117	0.1360	0.0000	-0.0117	-
0.0186	1	.							
1812	CB	CB	. ASP ASP ASP A A 244 244 .	0.1107	0.1090	0.1549	0.0008	-0.0190	-
0.0212	1	.							
1813	CG	CG	. ASP ASP ASP A A 244 244 .	0.1146	0.1233	0.1551	0.0112	-0.0329	-
0.0162	1	.							
1814	OD1	OD1	. ASP ASP ASP A A 244 244 .	0.1178	0.0903	0.1284	-0.0244	-0.0210	-
0.0085	1	.							
1815	OD2	OD2	. ASP ASP ASP A A 244 244 .	0.1079	0.1324	0.1288	0.0139	-0.0036	-
0.0038	1	.							
1816	C	C	. ASP ASP ASP A A 244 244 .	0.1083	0.1262	0.1281	0.0135	-0.0009	-
0.0038	1	.							
1817	O	O	. ASP ASP ASP A A 244 244 .	0.1116	0.1383	0.1174	0.0169	0.0194	-
0.0116	1	.							
1818	N	N	. VAL VAL VAL A A 245 245 .	0.0773	0.1194	0.1180	-0.0071	-0.0081	-
0.0105	1	.							
1819	CA	CA	. VAL VAL VAL A A 245 245 .	0.0880	0.1414	0.1194	0.0132	-0.0043	-
0.0222	1	.							
1820	CB	CB	. VAL VAL VAL A A 245 245 .	0.0502	0.0935	0.0658	0.0305	0.0023	-
0.0068	1	.							
1821	CG1	CG1	. VAL VAL VAL A A 245 245 .	0.0284	0.1450	0.0977	0.0167	-0.0013	-
0.0543	1	.							





1882	C	C	. ARG ARG ARG A A 252 252 .	0.2531	0.3135	0.3105	0.0205	-0.0191	-
0.0272	1	.							
1883	O	O	. ARG ARG ARG A A 252 252 .	0.2073	0.3203	0.3173	0.0025	-0.0233	-
0.0398	1	.							
1884	N	N	. ASP ASP ASP A A 253 253 .	0.2870	0.3423	0.3469	0.0373	-0.0278	-
0.0181	1	.							
1885	CA	CA	. ASP ASP ASP A A 253 253 .	0.3315	0.3853	0.3607	0.0308	-0.0211	-
0.0078	1	.							
1886	CB	CB	. ASP ASP ASP A A 253 253 .	0.3570	0.4182	0.3894	0.0347	-0.0125	-
0.0098	1	.							
1887	CG	CG	. ASP ASP ASP A A 253 253 .	0.4215	0.4804	0.4521	0.0327	0.0061	-
0.0020	1	.							
1888	OD1	OD1	. ASP ASP ASP A A 253 253 .	0.4479	0.5769	0.4481	0.1340	0.0371	-
0.0704	1	.							
1889	OD2	OD2	. ASP ASP ASP A A 253 253 .	0.4881	0.5890	0.5185	0.0079	-0.0060	-
0.0351	1	.							
1890	C	C	. ASP ASP ASP A A 253 253 .	0.3199	0.3641	0.3554	0.0168	-0.0112	-
0.0242	1	.							
1891	O	O	. ASP ASP ASP A A 253 253 .	0.3059	0.3911	0.3934	0.0387	-0.0050	-
0.0224	1	.							
1892	N	N	. GLY GLY GLY A A 254 254 .	0.2607	0.3164	0.3266	0.0364	-0.0147	-
0.0249	1	.							
1893	CA	CA	. GLY GLY GLY A A 254 254 .	0.2598	0.2819	0.3060	0.0321	-0.0178	-
0.0242	1	.							
1894	C	C	. GLY GLY GLY A A 254 254 .	0.2266	0.2515	0.2762	0.0362	-0.0140	-
0.0111	1	.							
1895	O	O	. GLY GLY GLY A A 254 254 .	0.2546	0.2342	0.2817	0.0554	-0.0192	-
0.0174	1	.							
1896	N	N	. LYS LYS LYS A A 255 255 .	0.1884	0.2402	0.2583	0.0358	-0.0195	-
0.0234	1	.							
1897	CA	CA	. LYS LYS LYS A A 255 255 .	0.1828	0.2223	0.2622	0.0214	-0.0197	-
0.0030	1	.							
1898	CB	CB	. LYS LYS LYS A A 255 255 .	0.1808	0.2558	0.2780	0.0304	-0.0146	-
0.0058	1	.							
1899	CG	CG	. LYS LYS LYS A A 255 255 .	0.2144	0.2808	0.2941	0.0150	-0.0495	-
0.0228	1	.							
1900	CD	CD	. LYS LYS LYS A A 255 255 .	0.2839	0.2802	0.4034	-0.0055	0.0343	
0.0208	1	.							
1901	CE	CE	. LYS LYS LYS A A 255 255 .	0.3140	0.3593	0.4474	-0.0145	0.0274	-
0.0175	1	.							
1902	NZ	NZ	. LYS LYS LYS A A 255 255 .	0.3557	0.4329	0.5398	-0.0196	-0.0094	
0.0451	1	.							
1903	C	C	. LYS LYS LYS A A 255 255 .	0.1659	0.2205	0.2665	0.0283	-0.0165	-
0.0182	1	.							
1904	O	O	. LYS LYS LYS A A 255 255 .	0.1267	0.2214	0.2971	0.0403	-0.0230	-
0.0183	1	.							
1905	N	N	. TYR TYR TYR A A 256 256 .	0.1355	0.1949	0.2417	0.0312	-0.0137	-
0.0030	1	.							
1906	CA	CA	. TYR TYR TYR A A 256 256 .	0.1563	0.1948	0.2002	0.0287	-0.0093	-
0.0108	1	.							
1907	CB	CB	. TYR TYR TYR A A 256 256 .	0.0955	0.1940	0.2002	0.0332	-0.0160	-
0.0148	1	.							
1908	CG	CG	. TYR TYR TYR A A 256 256 .	0.1322	0.2093	0.1719	0.0077	0.0026	-
0.0168	1	.							
1909	CD1	CD1	. TYR TYR TYR A A 256 256 .	0.1168	0.1912	0.1748	-0.0036	-0.0135	-
0.0446	1	.							
1910	CE1	CE1	. TYR TYR TYR A A 256 256 .	0.1558	0.2044	0.1899	0.0167	0.0021	-
0.0226	1	.							
1911	CZ	CZ	. TYR TYR TYR A A 256 256 .	0.1637	0.1484	0.1674	0.0127	-0.0102	-
0.0262	1	.							







1972	C	C	. PRO PRO PRO A A 263 263 .	0.2923	0.3451	0.3385	0.0301	0.0390	
0.0061	1	.							
1973	O	O	. PRO PRO PRO A A 263 263 .	0.2495	0.3388	0.3189	0.0414	0.0370	-
0.0052	1	.							
1974	N	N	. THR THR THR A A 264 264 .	0.3211	0.3680	0.3586	0.0258	0.0433	
0.0049	1	.							
1975	CA	CA	. THR THR THR A A 264 264 .	0.3431	0.3793	0.3680	0.0240	0.0298	-
0.0014	1	.							
1976	CB	CB	. THR THR THR A A 264 264 .	0.3564	0.3870	0.3749	0.0117	0.0276	-
0.0020	1	.							
1977	OG1	OG1	. THR THR THR A A 264 264 .	0.3488	0.3992	0.3674	0.0177	0.0375	-
0.0233	1	.							
1978	CG2	CG2	. THR THR THR A A 264 264 .	0.3835	0.4084	0.3920	0.0289	0.0070	-
0.0129	1	.							
1979	C	C	. THR THR THR A A 264 264 .	0.3622	0.3899	0.3789	0.0215	0.0256	-
0.0020	1	.							
1980	O	O	. THR THR THR A A 264 264 .	0.3576	0.3997	0.3771	0.0221	0.0470	
0.0181	1	.							
1981	N	N	. ASP ASP ASP A A 265 265 .	0.3609	0.4027	0.3846	0.0250	0.0171	-
0.0068	1	.							
1982	CA	CA	. ASP ASP ASP A A 265 265 .	0.3657	0.4054	0.4022	0.0113	0.0037	-
0.0059	1	.							
1983	CB	CB	. ASP ASP ASP A A 265 265 .	0.3580	0.4043	0.3980	0.0221	0.0026	
0.0005	1	.							
1984	CG	CG	. ASP ASP ASP A A 265 265 .	0.3988	0.4107	0.4198	0.0141	-0.0014	
0.0011	1	.							
1985	OD1	OD1	. ASP ASP ASP A A 265 265 .	0.2932	0.4608	0.3920	0.0495	-0.0336	
0.0069	1	.							
1986	OD2	OD2	. ASP ASP ASP A A 265 265 .	0.4445	0.4255	0.4971	-0.0235	0.0105	
0.0308	1	.							
1987	C	C	. ASP ASP ASP A A 265 265 .	0.3555	0.3922	0.3989	0.0112	0.0021	-
0.0097	1	.							
1988	O	O	. ASP ASP ASP A A 265 265 .	0.3384	0.3888	0.4100	0.0167	-0.0048	-
0.0297	1	.							
1989	N	N	. PRO PRO PRO A A 266 266 .	0.3391	0.3891	0.4020	0.0135	-0.0003	-
0.0072	1	.							
1990	CA	CA	. PRO PRO PRO A A 266 266 .	0.3339	0.3770	0.3849	0.0152	0.0056	-
0.0040	1	.							
1991	CB	CB	. PRO PRO PRO A A 266 266 .	0.3267	0.3798	0.3870	0.0151	-0.0033	-
0.0170	1	.							
1992	CG	CG	. PRO PRO PRO A A 266 266 .	0.3485	0.3935	0.4043	0.0177	-0.0086	-
0.0070	1	.							
1993	CD	CD	. PRO PRO PRO A A 266 266 .	0.3601	0.3897	0.3860	0.0099	0.0010	-
0.0198	1	.							
1994	C	C	. PRO PRO PRO A A 266 266 .	0.3286	0.3723	0.3819	0.0081	0.0103	
0.0025	1	.							
1995	O	O	. PRO PRO PRO A A 266 266 .	0.3188	0.3831	0.3730	0.0120	0.0329	
0.0079	1	.							
1996	N	N	. SER SER SER A A 267 267 .	0.3406	0.3617	0.3825	0.0075	0.0130	
0.0058	1	.							
1997	CA	CA	. SER SER SER A A 267 267 .	0.3296	0.3638	0.3675	0.0031	0.0130	-
0.0005	1	.							
1998	CB	CB	. SER SER SER A A 267 267 .	0.3409	0.3699	0.3848	-0.0115	0.0159	
0.0069	1	.							
1999	OG	OG	. SER SER SER A A 267 267 .	0.3821	0.4043	0.4248	-0.0292	0.0565	
0.0445	1	.							
2000	C	C	. SER SER SER A A 267 267 .	0.3143	0.3479	0.3458	0.0088	0.0006	-
0.0103	1	.							
2001	O	O	. SER SER SER A A 267 267 .	0.2828	0.3479	0.3516	0.0186	0.0055	-
0.0161	1	.							

2002	N	N	. ARG ARG ARG A A 268 268 .	0.2885	0.3235	0.3289	-0.0017	0.0164	-
0.0060	1	.							
2003	CA	CA	. ARG ARG ARG A A 268 268 .	0.2694	0.3059	0.3093	0.0071	0.0108	-
0.0057	1	.							
2004	CB	CB	. ARG ARG ARG A A 268 268 .	0.2914	0.3047	0.2914	0.0091	0.0152	-
0.0176	1	.							
2005	CG	CG	. ARG ARG ARG A A 268 268 .	0.2174	0.3142	0.3196	0.0257	0.0129	
0.0099	1	.							
2006	CD	CD	. ARG ARG ARG A A 268 268 .	0.1999	0.2602	0.2461	0.0153	0.0199	-
0.0270	1	.							
2007	NE	NE	. ARG ARG ARG A A 268 268 .	0.2190	0.2684	0.2707	-0.0253	0.0313	
0.0039	1	.							
2008	CZ	CZ	. ARG ARG ARG A A 268 268 .	0.2207	0.2717	0.2659	-0.0230	0.0186	
0.0230	1	.							
2009	NH1	NH1	. ARG ARG ARG A A 268 268 .	0.1814	0.2434	0.2827	0.0142	0.0350	-
0.0349	1	.							
2010	NH2	NH2	. ARG ARG ARG A A 268 268 .	0.2369	0.2829	0.3247	0.0247	0.0198	
0.0826	1	.							
2011	C	C	. ARG ARG ARG A A 268 268 .	0.2599	0.2870	0.3038	0.0023	0.0137	-
0.0080	1	.							
2012	O	O	. ARG ARG ARG A A 268 268 .	0.2330	0.2940	0.2854	0.0019	0.0188	-
0.0074	1	.							
2013	N	N	. TYR TYR TYR A A 269 269 .	0.2125	0.2781	0.2810	-0.0033	0.0023	-
0.0112	1	.							
2014	CA	CA	. TYR TYR TYR A A 269 269 .	0.2181	0.2613	0.2713	0.0098	-0.0011	-
0.0113	1	.							
2015	CB	CB	. TYR TYR TYR A A 269 269 .	0.2470	0.2813	0.2786	0.0157	0.0113	-
0.0126	1	.							
2016	CG	CG	. TYR TYR TYR A A 269 269 .	0.1943	0.2667	0.2802	-0.0130	-0.0134	-
0.0235	1	.							
2017	CD1	CD1	. TYR TYR TYR A A 269 269 .	0.1177	0.3020	0.2955	0.0118	-0.0083	-
0.0360	1	.							
2018	CE1	CE1	. TYR TYR TYR A A 269 269 .	0.1208	0.2856	0.2844	0.0079	-0.0015	-
0.0180	1	.							
2019	CZ	CZ	. TYR TYR TYR A A 269 269 .	0.1569	0.3000	0.3067	0.0188	0.0147	-
0.0238	1	.							
2020	OH	OH	. TYR TYR TYR A A 269 269 .	0.2370	0.3635	0.2973	0.0494	0.0108	-
0.0376	1	.							
2021	CE2	CE2	. TYR TYR TYR A A 269 269 .	0.1864	0.2943	0.2662	0.0270	0.0173	-
0.0381	1	.							
2022	CD2	CD2	. TYR TYR TYR A A 269 269 .	0.1783	0.2967	0.3442	0.0109	-0.0038	-
0.0551	1	.							
2023	C	C	. TYR TYR TYR A A 269 269 .	0.1991	0.2641	0.2474	0.0105	-0.0110	-
0.0046	1	.							
2024	O	O	. TYR TYR TYR A A 269 269 .	0.1639	0.2890	0.2610	0.0361	-0.0157	-
0.0135	1	.							
2025	N	N	. ILE ILE ILE A A 270 270 .	0.1764	0.2481	0.2373	0.0148	-0.0274	-
0.0152	1	.							
2026	CA	CA	. ILE ILE ILE A A 270 270 .	0.1592	0.2488	0.2324	0.0144	-0.0279	-
0.0146	1	.							
2027	CB	CB	. ILE ILE ILE A A 270 270 .	0.1564	0.2142	0.2408	0.0244	-0.0363	-
0.0005	1	.							
2028	CG1	CG1	. ILE ILE ILE A A 270 270 .	0.1415	0.2451	0.2504	0.0191	-0.0256	-
0.0324	1	.							
2029	CD1	CD1	. ILE ILE ILE A A 270 270 .	0.1153	0.2374	0.2657	0.0064	-0.0039	-
0.0787	1	.							
2030	CG2	CG2	. ILE ILE ILE A A 270 270 .	0.1933	0.2386	0.2414	-0.0254	-0.0178	-
0.0184	1	.							
2031	C	C	. ILE ILE ILE A A 270 270 .	0.1701	0.2207	0.2293	0.0196	-0.0380	-
0.0108	1	.							

2032	O	O	. ILE ILE ILE A A 270 270 .	0.1845	0.2280	0.2414	0.0387	-0.0250	-
0.0166	1	.							
2033	N	N	. THR THR THR A A 271 271 .	0.1482	0.2236	0.1928	0.0323	-0.0307	-
0.0178	1	.							
2034	CA	CA	. THR THR THR A A 271 271 .	0.1458	0.2046	0.1891	0.0191	-0.0329	-
0.0173	1	.							
2035	CB	CB	. THR THR THR A A 271 271 .	0.1630	0.2132	0.1920	0.0204	-0.0361	-
0.0349	1	.							
2036	OG1	OG1	. THR THR THR A A 271 271 .	0.1553	0.2078	0.2319	0.0362	-0.0369	-
0.0441	1	.							
2037	CG2	CG2	. THR THR THR A A 271 271 .	0.1702	0.1680	0.1777	0.0290	-0.0314	-
0.0003	1	.							
2038	C	C	. THR THR THR A A 271 271 .	0.1672	0.2102	0.1826	0.0060	-0.0305	-
0.0214	1	.							
2039	O	O	. THR THR THR A A 271 271 .	0.1652	0.2000	0.2165	-0.0009	-0.0299	-
0.0189	1	.							
2040	N	N	. GLY GLY GLY A A 272 272 .	0.1647	0.1861	0.1780	0.0044	-0.0294	-
0.0197	1	.							
2041	CA	CA	. GLY GLY GLY A A 272 272 .	0.1552	0.1793	0.1718	0.0031	-0.0260	-
0.0231	1	.							
2042	C	C	. GLY GLY GLY A A 272 272 .	0.1739	0.1901	0.2076	0.0111	-0.0356	-
0.0153	1	.							
2043	O	O	. GLY GLY GLY A A 272 272 .	0.1599	0.1813	0.1979	0.0245	-0.0455	-
0.0009	1	.							
2044	N	N	. ASP ASP ASP A A 273 273 .	0.1803	0.1974	0.2135	0.0151	-0.0608	-
0.0093	1	.							
2045	CA	CA	. ASP ASP ASP A A 273 273 .	0.1815	0.2098	0.2124	0.0167	-0.0634	-
0.0064	1	.							
2046	CB	CB	. ASP ASP ASP A A 273 273 .	0.1971	0.2216	0.2130	0.0009	-0.0708	-
0.0036	1	.							
2047	CG	CG	. ASP ASP ASP A A 273 273 .	0.2439	0.2764	0.2373	-0.0120	-0.0574	-
0.0158	1	.							
2048	OD1	OD1	. ASP ASP ASP A A 273 273 .	0.2280	0.2417	0.3006	0.0016	-0.1042	-
0.0126	1	.							
2049	OD2	OD2	. ASP ASP ASP A A 273 273 .	0.2695	0.2285	0.2282	-0.0029	-0.0837	-
0.0031	1	.							
2050	C	C	. ASP ASP ASP A A 273 273 .	0.1634	0.2211	0.2112	-0.0021	-0.0535	-
0.0102	1	.							
2051	O	O	. ASP ASP ASP A A 273 273 .	0.1728	0.2090	0.2284	0.0001	-0.0447	-
0.0000	1	.							
2052	N	N	. GLN GLN GLN A A 274 274 .	0.1479	0.2134	0.2042	0.0108	-0.0557	-
0.0043	1	.							
2053	CA	CA	. GLN GLN GLN A A 274 274 .	0.1396	0.2133	0.2173	0.0234	-0.0494	-
0.0046	1	.							
2054	CB	CB	. GLN GLN GLN A A 274 274 .	0.1157	0.2394	0.2311	0.0284	-0.0432	-
0.0065	1	.							
2055	CG	CG	. GLN GLN GLN A A 274 274 .	0.0959	0.2992	0.2411	0.0079	-0.0461	-
0.0017	1	.							
2056	CD	CD	. GLN GLN GLN A A 274 274 .	0.1527	0.2742	0.2535	0.0206	-0.0247	-
0.0306	1	.							
2057	OE1	OE1	. GLN GLN GLN A A 274 274 .	0.1469	0.2316	0.2961	0.0244	-0.0754	-
0.0358	1	.							
2058	NE2	NE2	. GLN GLN GLN A A 274 274 .	0.2106	0.2086	0.2895	-0.0173	-0.0364	-
0.0561	1	.							
2059	C	C	. GLN GLN GLN A A 274 274 .	0.1442	0.1925	0.2280	0.0226	-0.0484	-
0.0150	1	.							
2060	O	O	. GLN GLN GLN A A 274 274 .	0.1713	0.1996	0.2310	0.0421	-0.0498	-
0.0033	1	.							
2061	N	N	. LEU LEU LEU A A 275 275 .	0.1462	0.1732	0.1928	0.0068	-0.0504	-
0.0093	1	.							



2092 CZ	CZ	. TYR TYR TYR A A 279 279 .	0.1261	0.1505	0.1413	0.0360	0.0018	-
0.0188	1 .							
2093 OH	OH	. TYR TYR TYR A A 279 279 .	0.1432	0.1741	0.1602	-0.0008	-0.0497	-
0.0376	1 .							
2094 CE2	CE2	. TYR TYR TYR A A 279 279 .	0.0885	0.1517	0.1502	0.0221	-0.0055	-
0.0383	1 .							
2095 CD2	CD2	. TYR TYR TYR A A 279 279 .	0.0716	0.1377	0.1447	-0.0319	-0.0153	-
0.0315	1 .							
2096 C	C	. TYR TYR TYR A A 279 279 .	0.1552	0.1652	0.1460	0.0206	-0.0154	-
0.0326	1 .							
2097 O	O	. TYR TYR TYR A A 279 279 .	0.1522	0.1956	0.1443	0.0163	-0.0055	-
0.0553	1 .							
2098 N	N	. GLN GLN GLN A A 280 280 .	0.1335	0.1477	0.1465	0.0314	-0.0259	-
0.0139	1 .							
2099 CA	CA	. GLN GLN GLN A A 280 280 .	0.1578	0.1688	0.1589	0.0175	-0.0236	-
0.0043	1 .							
2100 CB	CB	. GLN GLN GLN A A 280 280 .	0.1622	0.1671	0.1718	0.0104	-0.0252	-
0.0087	1 .							
2101 CG	CG	. GLN GLN GLN A A 280 280 .	0.2322	0.2000	0.1705	-0.0027	-0.0284	-
0.0148	1 .							
2102 CD	CD	. GLN GLN GLN A A 280 280 .	0.2482	0.2400	0.2463	0.0010	-0.0224	-
0.0115	1 .							
2103 OE1	OE1	. GLN GLN GLN A A 280 280 .	0.2878	0.2971	0.2838	0.0429	0.0202	-
0.0156	1 .							
2104 NE2	NE2	. GLN GLN GLN A A 280 280 .	0.2592	0.2163	0.2546	0.0236	-0.0606	-
0.0318	1 .							
2105 C	C	. GLN GLN GLN A A 280 280 .	0.1550	0.1645	0.1598	0.0012	-0.0172	-
0.0046	1 .							
2106 O	O	. GLN GLN GLN A A 280 280 .	0.1443	0.1843	0.1872	0.0071	-0.0231	-
0.0207	1 .							
2107 N	N	. ASP ASP ASP A A 281 281 .	0.1396	0.1816	0.1794	0.0031	-0.0281	-
0.0194	1 .							
2108 CA	CA	. ASP ASP ASP A A 281 281 .	0.1526	0.1924	0.1795	0.0081	-0.0341	-
0.0039	1 .							
2109 CB	CB	. ASP ASP ASP A A 281 281 .	0.1509	0.1968	0.2234	0.0000	-0.0164	-
0.0077	1 .							
2110 CG	CG	. ASP ASP ASP A A 281 281 .	0.2074	0.2543	0.2441	0.0143	-0.0183	-
0.0148	1 .							
2111 OD1	OD1	. ASP ASP ASP A A 281 281 .	0.2358	0.4102	0.3478	-0.0171	-0.0748	-
0.0266	1 .							
2112 OD2	OD2	. ASP ASP ASP A A 281 281 .	0.1604	0.3814	0.4068	0.0050	0.0166	-
0.0415	1 .							
2113 C	C	. ASP ASP ASP A A 281 281 .	0.1545	0.1858	0.2049	0.0158	-0.0341	-
0.0091	1 .							
2114 O	O	. ASP ASP ASP A A 281 281 .	0.1655	0.1669	0.2024	-0.0041	-0.0329	-
0.0047	1 .							
2115 N	N	. PHE PHE PHE A A 282 282 .	0.1363	0.1660	0.1664	-0.0006	-0.0311	-
0.0097	1 .							
2116 CA	CA	. PHE PHE PHE A A 282 282 .	0.1442	0.1728	0.1691	0.0015	-0.0160	-
0.0002	1 .							
2117 CB	CB	. PHE PHE PHE A A 282 282 .	0.1696	0.1806	0.1491	0.0104	-0.0130	-
0.0132	1 .							
2118 CG	CG	. PHE PHE PHE A A 282 282 .	0.1541	0.1877	0.1983	0.0237	-0.0207	-
0.0115	1 .							
2119 CD1	CD1	. PHE PHE PHE A A 282 282 .	0.1297	0.2496	0.1751	0.0262	-0.0490	-
0.0044	1 .							
2120 CE1	CE1	. PHE PHE PHE A A 282 282 .	0.1758	0.2705	0.2354	0.0258	-0.0368	-
0.0398	1 .							
2121 CZ	CZ	. PHE PHE PHE A A 282 282 .	0.1732	0.2478	0.2180	0.0342	-0.0329	-
0.0001	1 .							





2152	N	N	. TYR TYR TYR A A 286 286 .	0.1579	0.1367	0.1731	0.0022	-0.0283	-
0.0128	1	.							
2153	CA	CA	. TYR TYR TYR A A 286 286 .	0.1505	0.1631	0.1705	0.0054	-0.0230	-
0.0050	1	.							
2154	CB	CB	. TYR TYR TYR A A 286 286 .	0.1484	0.1477	0.1382	0.0288	-0.0196	-
0.0064	1	.							
2155	CG	CG	. TYR TYR TYR A A 286 286 .	0.1520	0.1406	0.1876	0.0099	-0.0346	-
0.0022	1	.							
2156	CD1	CD1	. TYR TYR TYR A A 286 286 .	0.2195	0.1664	0.1273	-0.0330	-0.0024	-
0.0363	1	.							
2157	CE1	CE1	. TYR TYR TYR A A 286 286 .	0.1989	0.1796	0.2280	-0.0847	0.0078	-
0.0305	1	.							
2158	CZ	CZ	. TYR TYR TYR A A 286 286 .	0.2151	0.2179	0.2637	-0.0550	-0.0031	-
0.0144	1	.							
2159	OH	OH	. TYR TYR TYR A A 286 286 .	0.2919	0.3079	0.2417	-0.0910	0.0400	-
0.0321	1	.							
2160	CE2	CE2	. TYR TYR TYR A A 286 286 .	0.2026	0.2148	0.1807	-0.0294	-0.0304	-
0.0132	1	.							
2161	CD2	CD2	. TYR TYR TYR A A 286 286 .	0.1933	0.2178	0.1651	-0.0238	-0.0227	-
0.0351	1	.							
2162	C	C	. TYR TYR TYR A A 286 286 .	0.1540	0.1467	0.1616	0.0041	-0.0178	-
0.0101	1	.							
2163	O	O	. TYR TYR TYR A A 286 286 .	0.1535	0.1761	0.1615	0.0074	-0.0406	-
0.0143	1	.							
2164	N	N	. PRO PRO PRO A A 287 287 .	0.1412	0.1376	0.1525	0.0048	-0.0129	-
0.0123	1	.							
2165	CA	CA	. PRO PRO PRO A A 287 287 .	0.1312	0.1303	0.1681	0.0035	-0.0034	-
0.0089	1	.							
2166	CB	CB	. PRO PRO PRO A A 287 287 .	0.1200	0.1414	0.1477	0.0186	-0.0177	-
0.0010	1	.							
2167	CG	CG	. PRO PRO PRO A A 287 287 .	0.0902	0.1358	0.1582	-0.0033	-0.0013	-
0.0156	1	.							
2168	CD	CD	. PRO PRO PRO A A 287 287 .	0.1472	0.1440	0.1664	-0.0070	-0.0237	-
0.0008	1	.							
2169	C	C	. PRO PRO PRO A A 287 287 .	0.1194	0.1189	0.1330	0.0030	-0.0033	-
0.0269	1	.							
2170	O	O	. PRO PRO PRO A A 287 287 .	0.1195	0.1128	0.1661	0.0081	0.0032	-
0.0359	1	.							
2171	N	N	. VAL VAL VAL A A 288 288 .	0.1110	0.1188	0.1268	0.0054	-0.0207	-
0.0184	1	.							
2172	CA	CA	. VAL VAL VAL A A 288 288 .	0.1001	0.1213	0.1408	0.0063	-0.0080	-
0.0136	1	.							
2173	CB	CB	. VAL VAL VAL A A 288 288 .	0.0985	0.1050	0.1409	0.0004	0.0081	-
0.0036	1	.							
2174	CG1	CG1	. VAL VAL VAL A A 288 288 .	0.1367	0.1131	0.1643	0.0044	-0.0372	-
0.0466	1	.							
2175	CG2	CG2	. VAL VAL VAL A A 288 288 .	0.0986	0.1047	0.0914	0.0017	0.0104	-
0.0111	1	.							
2176	C	C	. VAL VAL VAL A A 288 288 .	0.1362	0.1475	0.1392	-0.0011	-0.0136	-
0.0004	1	.							
2177	O	O	. VAL VAL VAL A A 288 288 .	0.1511	0.1856	0.1530	0.0070	-0.0271	-
0.0059	1	.							
2178	N	N	. VAL VAL VAL A A 289 289 .	0.1158	0.1193	0.1410	0.0006	-0.0201	-
0.0106	1	.							
2179	CA	CA	. VAL VAL VAL A A 289 289 .	0.1160	0.1138	0.1416	0.0017	0.0011	-
0.0225	1	.							
2180	CB	CB	. VAL VAL VAL A A 289 289 .	0.1115	0.1196	0.1486	0.0147	-0.0190	-
0.0229	1	.							
2181	CG1	CG1	. VAL VAL VAL A A 289 289 .	0.1767	0.1222	0.1437	-0.0034	0.0148	-
0.0089	1	.							





2242	N	N	. GLN GLN GLN A A 297 297 .	0.1264	0.1219	0.1305	0.0074	-0.0219	-
0.0087	1	.							
2243	CA	CA	. GLN GLN GLN A A 297 297 .	0.1319	0.1491	0.1480	0.0096	-0.0190	-
0.0097	1	.							
2244	CB	CB	. GLN GLN GLN A A 297 297 .	0.1530	0.1507	0.1332	0.0004	-0.0251	-
0.0164	1	.							
2245	CG	CG	. GLN GLN GLN A A 297 297 .	0.1172	0.1195	0.1117	0.0076	-0.0106	-
0.0162	1	.							
2246	CD	CD	. GLN GLN GLN A A 297 297 .	0.1354	0.1243	0.1138	-0.0022	0.0191	-
0.0122	1	.							
2247	OE1	OE1	. GLN GLN GLN A A 297 297 .	0.1949	0.1847	0.1858	-0.0014	-0.0223	-
0.0068	1	.							
2248	NE2	NE2	. GLN GLN GLN A A 297 297 .	0.1155	0.1301	0.1495	-0.0264	0.0340	
0.0005	1	.							
2249	C	C	. GLN GLN GLN A A 297 297 .	0.1622	0.1823	0.1542	0.0024	-0.0162	
0.0027	1	.							
2250	O	O	. GLN GLN GLN A A 297 297 .	0.1665	0.1898	0.1464	0.0090	-0.0008	
0.0102	1	.							
2251	N	N	. ASP ASP ASP A A 298 298 .	0.1588	0.1639	0.1582	0.0248	-0.0354	-
0.0164	1	.							
2252	CA	CA	. ASP ASP ASP A A 298 298 .	0.1823	0.1940	0.2013	0.0133	-0.0332	
0.0074	1	.							
2253	CB	CB	. ASP ASP ASP A A 298 298 .	0.2071	0.1622	0.1956	0.0365	-0.0381	-
0.0046	1	.							
2254	CG	CG	. ASP ASP ASP A A 298 298 .	0.2523	0.2599	0.2775	-0.0168	-0.0125	
0.0205	1	.							
2255	OD1	OD1	. ASP ASP ASP A A 298 298 .	0.1753	0.2122	0.2746	-0.0083	-0.0701	
0.0446	1	.							
2256	OD2	OD2	. ASP ASP ASP A A 298 298 .	0.3323	0.2811	0.2490	-0.0142	-0.0514	
0.0396	1	.							
2257	C	C	. ASP ASP ASP A A 298 298 .	0.2042	0.1869	0.2073	0.0267	-0.0466	
0.0057	1	.							
2258	O	O	. ASP ASP ASP A A 298 298 .	0.1709	0.1867	0.2242	0.0506	-0.0454	
0.0157	1	.							
2259	N	N	. ASP ASP ASP A A 299 299 .	0.1720	0.1904	0.1943	0.0025	-0.0489	
0.0053	1	.							
2260	CA	CA	. ASP ASP ASP A A 299 299 .	0.1828	0.1928	0.1844	0.0073	-0.0265	-
0.0026	1	.							
2261	CB	CB	. ASP ASP ASP A A 299 299 .	0.2048	0.2106	0.2034	-0.0026	-0.0393	-
0.0108	1	.							
2262	CG	CG	. ASP ASP ASP A A 299 299 .	0.1650	0.2246	0.2096	0.0027	-0.0129	-
0.0059	1	.							
2263	OD1	OD1	. ASP ASP ASP A A 299 299 .	0.2444	0.2125	0.2169	0.0800	-0.0581	-
0.0354	1	.							
2264	OD2	OD2	. ASP ASP ASP A A 299 299 .	0.1667	0.1744	0.2155	0.0098	-0.0549	-
0.0404	1	.							
2265	C	C	. ASP ASP ASP A A 299 299 .	0.1925	0.1959	0.1941	0.0203	-0.0319	-
0.0013	1	.							
2266	O	O	. ASP ASP ASP A A 299 299 .	0.2075	0.1913	0.1881	0.0365	-0.0651	-
0.0035	1	.							
2267	N	N	. TRP TRP TRP A A 300 300 .	0.1694	0.1793	0.1789	0.0312	-0.0223	
0.0142	1	.							
2268	CA	CA	. TRP TRP TRP A A 300 300 .	0.1820	0.1821	0.1977	0.0133	-0.0118	
0.0122	1	.							
2269	CB	CB	. TRP TRP TRP A A 300 300 .	0.1828	0.1849	0.2095	0.0029	-0.0143	-
0.0039	1	.							
2270	CG	CG	. TRP TRP TRP A A 300 300 .	0.1990	0.1934	0.2012	-0.0105	0.0080	-
0.0064	1	.							
2271	CD1	CD1	. TRP TRP TRP A A 300 300 .	0.2020	0.1517	0.1718	0.0029	0.0068	
0.0019	1	.							





2332	CA	CA	. THR THR THR A A 307 307 .	0.1806	0.1811	0.1757	0.0320	-0.0242	
0.0079	1	.							
2333	CB	CB	. THR THR THR A A 307 307 .	0.1947	0.2090	0.1894	0.0224	-0.0055	
0.0035	1	.							
2334	OG1	OG1	. THR THR THR A A 307 307 .	0.1909	0.2065	0.1461	0.0414	-0.0380	-
0.0030	1	.							
2335	CG2	CG2	. THR THR THR A A 307 307 .	0.1743	0.2277	0.1781	-0.0065	-0.0263	-
0.0087	1	.							
2336	C	C	. THR THR THR A A 307 307 .	0.1942	0.1888	0.1794	0.0441	-0.0213	
0.0035	1	.							
2337	O	O	. THR THR THR A A 307 307 .	0.1476	0.1805	0.1480	0.0383	-0.0273	
0.0133	1	.							
2338	N	N	. ALA ALA ALA A A 308 308 .	0.2050	0.1985	0.1835	0.0419	-0.0302	-
0.0088	1	.							
2339	CA	CA	. ALA ALA ALA A A 308 308 .	0.2315	0.2112	0.2013	0.0318	-0.0317	-
0.0142	1	.							
2340	CB	CB	. ALA ALA ALA A A 308 308 .	0.2574	0.2055	0.2186	0.0387	-0.0198	-
0.0001	1	.							
2341	C	C	. ALA ALA ALA A A 308 308 .	0.2517	0.2302	0.2200	0.0394	-0.0182	-
0.0149	1	.							
2342	O	O	. ALA ALA ALA A A 308 308 .	0.2865	0.2519	0.2190	0.0401	-0.0223	-
0.0580	1	.							
2343	N	N	. ASN ASN ASN A A 309 309 .	0.2323	0.2240	0.2169	0.0325	-0.0047	-
0.0132	1	.							
2344	CA	CA	. ASN ASN ASN A A 309 309 .	0.2434	0.2511	0.2315	0.0068	-0.0226	-
0.0118	1	.							
2345	CB	CB	. ASN ASN ASN A A 309 309 .	0.2639	0.2900	0.2703	0.0089	-0.0173	-
0.0143	1	.							
2346	CG	CG	. ASN ASN ASN A A 309 309 .	0.2931	0.4335	0.3124	-0.0006	-0.0334	-
0.0000	1	.							
2347	OD1	OD1	. ASN ASN ASN A A 309 309 .	0.3261	0.5092	0.3826	0.0118	0.0256	
0.0671	1	.							
2348	ND2	ND2	. ASN ASN ASN A A 309 309 .	0.4155	0.5038	0.3510	-0.0488	0.0072	
0.0359	1	.							
2349	C	C	. ASN ASN ASN A A 309 309 .	0.2264	0.2316	0.2368	0.0056	-0.0289	-
0.0122	1	.							
2350	O	O	. ASN ASN ASN A A 309 309 .	0.2146	0.2568	0.2455	-0.0172	-0.0571	-
0.0031	1	.							
2351	N	N	. VAL VAL VAL A A 310 310 .	0.2026	0.1932	0.2188	0.0048	-0.0308	-
0.0209	1	.							
2352	CA	CA	. VAL VAL VAL A A 310 310 .	0.2151	0.1882	0.1813	0.0098	-0.0305	-
0.0030	1	.							
2353	CB	CB	. VAL VAL VAL A A 310 310 .	0.2001	0.1804	0.1897	0.0004	-0.0282	-
0.0219	1	.							
2354	CG1	CG1	. VAL VAL VAL A A 310 310 .	0.2483	0.2645	0.2194	-0.0132	-0.0227	-
0.0236	1	.							
2355	CG2	CG2	. VAL VAL VAL A A 310 310 .	0.2270	0.1886	0.1995	-0.0057	-0.0453	-
0.0117	1	.							
2356	C	C	. VAL VAL VAL A A 310 310 .	0.1878	0.1712	0.1593	0.0067	-0.0324	-
0.0125	1	.							
2357	O	O	. VAL VAL VAL A A 310 310 .	0.1977	0.1725	0.1392	0.0110	-0.0492	-
0.0075	1	.							
2358	N	N	. GLY GLY GLY A A 311 311 .	0.1916	0.1927	0.1416	0.0178	-0.0424	-
0.0123	1	.							
2359	CA	CA	. GLY GLY GLY A A 311 311 .	0.1831	0.1850	0.1308	0.0070	-0.0315	-
0.0080	1	.							
2360	C	C	. GLY GLY GLY A A 311 311 .	0.1784	0.1925	0.1581	0.0167	-0.0220	-
0.0100	1	.							
2361	O	O	. GLY GLY GLY A A 311 311 .	0.2049	0.2188	0.1518	0.0305	0.0149	
0.0046	1	.							

2362	N	N	. ILE ILE ILE A A 312 312 .	0.1761	0.1623	0.1284	0.0172	-0.0422	-
0.0076	1	.							
2363	CA	CA	. ILE ILE ILE A A 312 312 .	0.1672	0.1403	0.1331	0.0068	-0.0262	-
0.0044	1	.							
2364	CB	CB	. ILE ILE ILE A A 312 312 .	0.1451	0.1392	0.1276	-0.0001	-0.0162	-
0.0202	1	.							
2365	CG1	CG1	. ILE ILE ILE A A 312 312 .	0.1863	0.2127	0.1604	0.0039	0.0070	
0.0110	1	.							
2366	CD1	CD1	. ILE ILE ILE A A 312 312 .	0.1943	0.2066	0.1680	-0.0089	0.0466	
0.0404	1	.							
2367	CG2	CG2	. ILE ILE ILE A A 312 312 .	0.1690	0.1215	0.1606	0.0056	-0.0191	-
0.0110	1	.							
2368	C	C	. ILE ILE ILE A A 312 312 .	0.1587	0.1470	0.1191	0.0028	-0.0314	-
0.0074	1	.							
2369	O	O	. ILE ILE ILE A A 312 312 .	0.1535	0.1357	0.1162	0.0027	-0.0378	-
0.0190	1	.							
2370	N	N	. GLN GLN GLN A A 313 313 .	0.1366	0.1195	0.1170	-0.0051	-0.0294	-
0.0015	1	.							
2371	CA	CA	. GLN GLN GLN A A 313 313 .	0.1149	0.0977	0.1030	0.0065	-0.0237	-
0.0021	1	.							
2372	CB	CB	. GLN GLN GLN A A 313 313 .	0.0978	0.1218	0.1200	-0.0128	-0.0212	-
0.0114	1	.							
2373	CG	CG	. GLN GLN GLN A A 313 313 .	0.1018	0.1502	0.0794	0.0009	-0.0265	-
0.0095	1	.							
2374	CD	CD	. GLN GLN GLN A A 313 313 .	0.1140	0.1524	0.1182	0.0152	-0.0009	-
0.0016	1	.							
2375	OE1	OE1	. GLN GLN GLN A A 313 313 .	0.1232	0.1550	0.1263	0.0016	-0.0204	-
0.0069	1	.							
2376	NE2	NE2	. GLN GLN GLN A A 313 313 .	0.1264	0.1173	0.1110	0.0050	0.0052	-
0.0049	1	.							
2377	C	C	. GLN GLN GLN A A 313 313 .	0.1041	0.0998	0.1003	0.0032	-0.0100	-
0.0092	1	.							
2378	O	O	. GLN GLN GLN A A 313 313 .	0.0789	0.1168	0.1065	-0.0017	-0.0106	-
0.0061	1	.							
2379	N	N	. ILE ILE ILE A A 314 314 .	0.0955	0.0997	0.0862	0.0142	-0.0178	-
0.0122	1	.							
2380	CA	CA	. ILE ILE ILE A A 314 314 .	0.1180	0.1189	0.1153	0.0158	-0.0267	-
0.0149	1	.							
2381	CB	CB	. ILE ILE ILE A A 314 314 .	0.0978	0.1323	0.1237	0.0071	-0.0287	-
0.0121	1	.							
2382	CG1	CG1	. ILE ILE ILE A A 314 314 .	0.1527	0.1386	0.1392	-0.0029	0.0075	-
0.0095	1	.							
2383	CD1	CD1	. ILE ILE ILE A A 314 314 .	0.1676	0.1728	0.1988	0.0054	0.0362	
0.0305	1	.							
2384	CG2	CG2	. ILE ILE ILE A A 314 314 .	0.1579	0.1458	0.1360	0.0354	-0.0235	-
0.0114	1	.							
2385	C	C	. ILE ILE ILE A A 314 314 .	0.1065	0.1112	0.1111	-0.0018	-0.0185	-
0.0029	1	.							
2386	O	O	. ILE ILE ILE A A 314 314 .	0.1177	0.1383	0.1120	0.0136	-0.0297	-
0.0110	1	.							
2387	N	N	. VAL VAL VAL A A 315 315 .	0.0995	0.1082	0.0839	0.0246	-0.0261	-
0.0141	1	.							
2388	CA	CA	. VAL VAL VAL A A 315 315 .	0.1112	0.0930	0.1198	0.0118	-0.0108	-
0.0059	1	.							
2389	CB	CB	. VAL VAL VAL A A 315 315 .	0.1110	0.1104	0.0865	0.0238	-0.0359	-
0.0154	1	.							
2390	CG1	CG1	. VAL VAL VAL A A 315 315 .	0.0887	0.1384	0.1683	0.0054	0.0017	-
0.0002	1	.							
2391	CG2	CG2	. VAL VAL VAL A A 315 315 .	0.0964	0.0801	0.1231	0.0107	0.0109	-
0.0059	1	.							



2392	C	C	. VAL VAL VAL A A 315 315 .	0.1081	0.0999	0.1027	0.0106	-0.0055	-
0.0077	1	.							
2393	O	O	. VAL VAL VAL A A 315 315 .	0.0956	0.0929	0.1233	0.0117	-0.0041	-
0.0011	1	.							
2394	N	N	. GLY GLY GLY A A 316 316 .	0.1208	0.0977	0.1218	0.0214	-0.0101	-
0.0042	1	.							
2395	CA	CA	. GLY GLY GLY A A 316 316 .	0.1373	0.1021	0.1124	0.0181	-0.0149	-
0.0113	1	.							
2396	C	C	. GLY GLY GLY A A 316 316 .	0.1381	0.1202	0.1212	0.0108	-0.0107	-
0.0027	1	.							
2397	O	O	. GLY GLY GLY A A 316 316 .	0.1203	0.1007	0.1249	0.0156	-0.0241	-
0.0193	1	.							
2398	N	N	. ASP ASP ASP A A 317 317 .	0.1292	0.1216	0.1141	0.0294	-0.0087	-
0.0014	1	.							
2399	CA	CA	. ASP ASP ASP A A 317 317 .	0.1051	0.0899	0.0906	0.0153	-0.0060	-
0.0047	1	.							
2400	CB	CB	. ASP ASP ASP A A 317 317 .	0.1304	0.1106	0.0972	0.0019	0.0004	-
0.0086	1	.							
2401	CG	CG	. ASP ASP ASP A A 317 317 .	0.1176	0.0998	0.0912	0.0006	-0.0070	-
0.0022	1	.							
2402	OD1	OD1	. ASP ASP ASP A A 317 317 .	0.0972	0.1131	0.1397	-0.0020	0.0222	-
0.0099	1	.							
2403	OD2	OD2	. ASP ASP ASP A A 317 317 .	0.1522	0.1554	0.1079	-0.0249	-0.0123	-
0.0009	1	.							
2404	C	C	. ASP ASP ASP A A 317 317 .	0.1286	0.1123	0.1136	0.0078	-0.0057	-
0.0046	1	.							
2405	O	O	. ASP ASP ASP A A 317 317 .	0.1125	0.1185	0.1045	-0.0082	-0.0185	-
0.0055	1	.							
2406	N	N	. ASP ASP ASP A A 318 318 .	0.1117	0.1013	0.1229	0.0186	-0.0054	-
0.0125	1	.							
2407	CA	CA	. ASP ASP ASP A A 318 318 .	0.1227	0.0987	0.1241	0.0305	0.0044	-
0.0049	1	.							
2408	CB	CB	. ASP ASP ASP A A 318 318 .	0.1244	0.1077	0.1314	0.0349	-0.0073	-
0.0059	1	.							
2409	CG	CG	. ASP ASP ASP A A 318 318 .	0.1436	0.1163	0.1383	0.0169	0.0025	-
0.0022	1	.							
2410	OD1	OD1	. ASP ASP ASP A A 318 318 .	0.1394	0.1392	0.1356	0.0161	0.0058	-
0.0196	1	.							
2411	OD2	OD2	. ASP ASP ASP A A 318 318 .	0.1192	0.1215	0.1248	0.0054	-0.0089	-
0.0039	1	.							
2412	C	C	. ASP ASP ASP A A 318 318 .	0.1288	0.1120	0.1170	0.0118	-0.0029	-
0.0101	1	.							
2413	O	O	. ASP ASP ASP A A 318 318 .	0.1389	0.1455	0.1601	0.0095	0.0003	-
0.0107	1	.							
2414	N	N	. LEU LEU LEU A A 319 319 .	0.1135	0.1319	0.1029	0.0197	-0.0063	-
0.0048	1	.							
2415	CA	CA	. LEU LEU LEU A A 319 319 .	0.1221	0.1252	0.0888	0.0060	-0.0066	-
0.0102	1	.							
2416	CB	CB	. LEU LEU LEU A A 319 319 .	0.1271	0.1096	0.1093	0.0199	-0.0106	-
0.0160	1	.							
2417	CG	CG	. LEU LEU LEU A A 319 319 .	0.0967	0.1127	0.0986	0.0400	-0.0365	-
0.0185	1	.							
2418	CD1	CD1	. LEU LEU LEU A A 319 319 .	0.1123	0.1731	0.1649	0.0428	0.0015	-
0.0181	1	.							
2419	CD2	CD2	. LEU LEU LEU A A 319 319 .	0.1600	0.1518	0.1294	0.0636	-0.0159	-
0.0241	1	.							
2420	C	C	. LEU LEU LEU A A 319 319 .	0.1481	0.1284	0.1105	0.0099	-0.0107	-
0.0164	1	.							
2421	O	O	. LEU LEU LEU A A 319 319 .	0.1397	0.1189	0.1230	0.0106	0.0014	-
0.0009	1	.							

2422	N	N	. THR THR THR A A 320 320 .	0.1177	0.1131	0.0970	0.0108	-0.0183	-
0.0101	1	.							
2423	CA	CA	. THR THR THR A A 320 320 .	0.1400	0.1165	0.1096	0.0018	-0.0042	-
0.0082	1	.							
2424	CB	CB	. THR THR THR A A 320 320 .	0.1398	0.1277	0.1326	0.0106	-0.0134	
0.0054	1	.							
2425	OG1	OG1	. THR THR THR A A 320 320 .	0.2020	0.1113	0.1623	0.0083	0.0051	
0.0167	1	.							
2426	CG2	CG2	. THR THR THR A A 320 320 .	0.1394	0.1108	0.1385	0.0137	-0.0334	
0.0067	1	.							
2427	C	C	. THR THR THR A A 320 320 .	0.1357	0.1137	0.1264	0.0080	-0.0099	
0.0094	1	.							
2428	O	O	. THR THR THR A A 320 320 .	0.1197	0.0890	0.1194	0.0010	-0.0223	
0.0083	1	.							
2429	N	N	. VAL VAL VAL A A 321 321 .	0.1405	0.1038	0.1064	0.0216	-0.0073	-
0.0158	1	.							
2430	CA	CA	. VAL VAL VAL A A 321 321 .	0.1085	0.1066	0.1107	0.0145	-0.0088	-
0.0002	1	.							
2431	CB	CB	. VAL VAL VAL A A 321 321 .	0.0883	0.0901	0.1095	0.0153	0.0095	-
0.0025	1	.							
2432	CG1	CG1	. VAL VAL VAL A A 321 321 .	0.1260	0.0848	0.1012	0.0397	0.0358	-
0.0087	1	.							
2433	CG2	CG2	. VAL VAL VAL A A 321 321 .	0.1486	0.1249	0.1270	0.0319	-0.0092	
0.0052	1	.							
2434	C	C	. VAL VAL VAL A A 321 321 .	0.0874	0.0873	0.0734	0.0040	-0.0023	
0.0028	1	.							
2435	O	O	. VAL VAL VAL A A 321 321 .	0.1167	0.0965	0.0836	0.0171	0.0060	
0.0030	1	.							
2436	N	N	. THR THR THR A A 322 322 .	0.0888	0.0992	0.0930	0.0039	-0.0155	-
0.0037	1	.							
2437	CA	CA	. THR THR THR A A 322 322 .	0.0964	0.0953	0.0981	0.0177	-0.0019	
0.0005	1	.							
2438	CB	CB	. THR THR THR A A 322 322 .	0.0901	0.0795	0.0818	0.0001	-0.0039	
0.0037	1	.							
2439	OG1	OG1	. THR THR THR A A 322 322 .	0.0828	0.1065	0.1034	0.0202	0.0048	-
0.0127	1	.							
2440	CG2	CG2	. THR THR THR A A 322 322 .	0.0931	0.1102	0.1062	0.0129	-0.0064	
0.0152	1	.							
2441	C	C	. THR THR THR A A 322 322 .	0.1052	0.1049	0.1028	0.0003	-0.0033	
0.0019	1	.							
2442	O	O	. THR THR THR A A 322 322 .	0.1134	0.1084	0.1149	0.0121	-0.0110	
0.0176	1	.							
2443	N	N	. ASN ASN ASN A A 323 323 .	0.1205	0.1098	0.1039	0.0153	-0.0091	
0.0099	1	.							
2444	CA	CA	. ASN ASN ASN A A 323 323 .	0.1602	0.1358	0.1239	0.0150	0.0081	
0.0162	1	.							
2445	CB	CB	. ASN ASN ASN A A 323 323 .	0.1681	0.1149	0.1315	0.0293	0.0045	
0.0115	1	.							
2446	CG	CG	. ASN ASN ASN A A 323 323 .	0.2470	0.1607	0.1765	0.0337	0.0285	
0.0017	1	.							
2447	OD1	OD1	. ASN ASN ASN A A 323 323 .	0.3499	0.1716	0.2130	0.0364	0.0517	
0.0352	1	.							
2448	ND2	ND2	. ASN ASN ASN A A 323 323 .	0.1844	0.1585	0.1732	0.0450	-0.0078	-
0.0436	1	.							
2449	C	C	. ASN ASN ASN A A 323 323 .	0.1700	0.1574	0.1461	0.0036	-0.0111	
0.0067	1	.							
2450	O	O	. ASN ASN ASN A A 323 323 .	0.1738	0.1567	0.1296	0.0172	-0.0162	-
0.0117	1	.							
2451	N	N	. PRO PRO PRO A A 324 324 .	0.1900	0.1775	0.1604	-0.0135	-0.0117	
0.0040	1	.							

2452	CA	CA	. PRO PRO PRO A A 324 324 .	0.1997	0.1934	0.1575	-0.0080	0.0044	
0.0126	1	.							
2453	CB	CB	. PRO PRO PRO A A 324 324 .	0.1910	0.2172	0.1734	-0.0058	0.0063	-
0.0016	1	.							
2454	CG	CG	. PRO PRO PRO A A 324 324 .	0.2364	0.2360	0.1592	-0.0049	-0.0075	
0.0043	1	.							
2455	CD	CD	. PRO PRO PRO A A 324 324 .	0.1403	0.2058	0.1762	-0.0079	-0.0121	
0.0098	1	.							
2456	C	C	. PRO PRO PRO A A 324 324 .	0.2469	0.1941	0.1810	0.0133	-0.0065	
0.0204	1	.							
2457	O	O	. PRO PRO PRO A A 324 324 .	0.2570	0.1652	0.2038	0.0197	-0.0291	
0.0163	1	.							
2458	N	N	. LYS LYS LYS A A 325 325 .	0.2422	0.1923	0.1905	0.0172	0.0026	
0.0328	1	.							
2459	CA	CA	. LYS LYS LYS A A 325 325 .	0.2329	0.1934	0.1937	0.0176	-0.0011	
0.0206	1	.							
2460	CB	CB	. LYS LYS LYS A A 325 325 .	0.2613	0.1976	0.2118	0.0267	0.0098	
0.0216	1	.							
2461	C	C	. LYS LYS LYS A A 325 325 .	0.2286	0.1986	0.1900	0.0233	-0.0102	
0.0165	1	.							
2462	O	O	. LYS LYS LYS A A 325 325 .	0.2494	0.1984	0.1761	0.0337	-0.0409	
0.0339	1	.							
2463	N	N	. ARG ARG ARG A A 326 326 .	0.2012	0.1620	0.1661	0.0201	0.0039	
0.0101	1	.							
2464	CA	CA	. ARG ARG ARG A A 326 326 .	0.1752	0.1533	0.1532	0.0297	-0.0050	-
0.0023	1	.							
2465	CB	CB	. ARG ARG ARG A A 326 326 .	0.1806	0.1708	0.1392	0.0449	0.0292	-
0.0255	1	.							
2466	CG	CG	. ARG ARG ARG A A 326 326 .	0.3069	0.1439	0.1812	0.0106	0.0369	-
0.0450	1	.							
2467	CD	CD	. ARG ARG ARG A A 326 326 .	0.3539	0.3286	0.2162	0.0373	0.0500	
0.0111	1	.							
2468	NE	NE	. ARG ARG ARG A A 326 326 .	0.2316	0.3546	0.1984	0.0943	0.0152	-
0.0302	1	.							
2469	CZ	CZ	. ARG ARG ARG A A 326 326 .	0.2650	0.2295	0.2017	-0.0051	0.0014	
0.0339	1	.							
2470	NH1	NH1	. ARG ARG ARG A A 326 326 .	0.1515	0.2215	0.1745	0.0445	0.0052	-
0.0039	1	.							
2471	NH2	NH2	. ARG ARG ARG A A 326 326 .	0.2496	0.1830	0.2215	0.0565	0.0695	
0.0104	1	.							
2472	C	C	. ARG ARG ARG A A 326 326 .	0.1560	0.1512	0.1416	0.0283	-0.0083	-
0.0078	1	.							
2473	O	O	. ARG ARG ARG A A 326 326 .	0.1882	0.1569	0.1472	0.0328	-0.0068	
0.0088	1	.							
2474	N	N	. ILE ILE ILE A A 327 327 .	0.1774	0.1402	0.1038	0.0332	-0.0081	
0.0068	1	.							
2475	CA	CA	. ILE ILE ILE A A 327 327 .	0.1894	0.1570	0.1297	0.0387	-0.0143	
0.0126	1	.							
2476	CB	CB	. ILE ILE ILE A A 327 327 .	0.1765	0.1527	0.1271	0.0298	-0.0109	
0.0049	1	.							
2477	CG1	CG1	. ILE ILE ILE A A 327 327 .	0.1774	0.1363	0.1341	0.0335	-0.0399	
0.0002	1	.							
2478	CD1	CD1	. ILE ILE ILE A A 327 327 .	0.1256	0.0695	0.1617	0.0050	-0.0274	-
0.0110	1	.							
2479	CG2	CG2	. ILE ILE ILE A A 327 327 .	0.1452	0.1413	0.1251	0.0303	0.0018	
0.0085	1	.							
2480	C	C	. ILE ILE ILE A A 327 327 .	0.2281	0.1764	0.1517	0.0251	-0.0187	
0.0123	1	.							
2481	O	O	. ILE ILE ILE A A 327 327 .	0.2474	0.1609	0.1650	0.0127	-0.0420	-
0.0020	1	.							

2482	N	N	. GLU GLU GLU A A 328 328 .	0.2300	0.1944	0.1661	0.0137	-0.0084	
0.0187	1	.							
2483	CA	CA	. GLU GLU GLU A A 328 328 .	0.2336	0.2051	0.1970	0.0094	-0.0078	
0.0318	1	.							
2484	CB	CB	. GLU GLU GLU A A 328 328 .	0.2502	0.1956	0.1992	-0.0047	-0.0058	
0.0233	1	.							
2485	CG	CG	. GLU GLU GLU A A 328 328 .	0.3115	0.2990	0.3077	-0.0005	0.0037	
0.0207	1	.							
2486	CD	CD	. GLU GLU GLU A A 328 328 .	0.4940	0.4565	0.3800	-0.0593	0.0106	
0.0392	1	.							
2487	OE1	OE1	. GLU GLU GLU A A 328 328 .	0.5290	0.4939	0.4468	-0.1204	-0.0168	
0.0355	1	.							
2488	OE2	OE2	. GLU GLU GLU A A 328 328 .	0.5835	0.4799	0.4407	-0.0777	-0.0217	
0.0196	1	.							
2489	C	C	. GLU GLU GLU A A 328 328 .	0.2378	0.1890	0.2003	0.0141	-0.0083	
0.0323	1	.							
2490	O	O	. GLU GLU GLU A A 328 328 .	0.2551	0.2097	0.1878	0.0223	0.0008	
0.0312	1	.							
2491	N	N	. ARG ARG ARG A A 329 329 .	0.2259	0.1836	0.2094	0.0259	-0.0018	
0.0257	1	.							
2492	CA	CA	. ARG ARG ARG A A 329 329 .	0.2195	0.2116	0.2125	0.0136	-0.0229	
0.0215	1	.							
2493	CB	CB	. ARG ARG ARG A A 329 329 .	0.2217	0.2309	0.2489	0.0317	-0.0276	
0.0264	1	.							
2494	CG	CG	. ARG ARG ARG A A 329 329 .	0.2619	0.2717	0.2782	0.0074	0.0113	
0.0464	1	.							
2495	CD	CD	. ARG ARG ARG A A 329 329 .	0.2857	0.3295	0.2964	0.0089	0.0049	
0.0306	1	.							
2496	NE	NE	. ARG ARG ARG A A 329 329 .	0.3094	0.3364	0.3039	-0.0049	0.0190	
0.0619	1	.							
2497	CZ	CZ	. ARG ARG ARG A A 329 329 .	0.2925	0.2829	0.3039	0.0616	-0.0330	
0.0441	1	.							
2498	NH1	NH1	. ARG ARG ARG A A 329 329 .	0.3799	0.2855	0.3211	0.0576	-0.0256	-
0.0221	1	.							
2499	NH2	NH2	. ARG ARG ARG A A 329 329 .	0.3094	0.2912	0.2897	0.0258	0.0041	
0.0890	1	.							
2500	C	C	. ARG ARG ARG A A 329 329 .	0.2192	0.2171	0.2128	0.0190	-0.0271	
0.0150	1	.							
2501	O	O	. ARG ARG ARG A A 329 329 .	0.2350	0.2091	0.2243	0.0140	-0.0241	-
0.0130	1	.							
2502	N	N	. ALA ALA ALA A A 330 330 .	0.1756	0.1855	0.1999	0.0319	-0.0267	
0.0149	1	.							
2503	CA	CA	. ALA ALA ALA A A 330 330 .	0.1914	0.1900	0.1832	0.0338	-0.0255	
0.0027	1	.							
2504	CB	CB	. ALA ALA ALA A A 330 330 .	0.1885	0.1673	0.1458	0.0394	-0.0214	
0.0189	1	.							
2505	C	C	. ALA ALA ALA A A 330 330 .	0.1937	0.1974	0.1743	0.0275	-0.0312	
0.0093	1	.							
2506	O	O	. ALA ALA ALA A A 330 330 .	0.2038	0.1934	0.2053	0.0206	-0.0280	
0.0062	1	.							
2507	N	N	. VAL VAL VAL A A 331 331 .	0.2019	0.1866	0.1715	0.0304	-0.0249	
0.0102	1	.							
2508	CA	CA	. VAL VAL VAL A A 331 331 .	0.2541	0.2341	0.2057	0.0195	-0.0126	
0.0005	1	.							
2509	CB	CB	. VAL VAL VAL A A 331 331 .	0.2543	0.2140	0.2051	0.0049	0.0024	
0.0072	1	.							
2510	CG1	CG1	. VAL VAL VAL A A 331 331 .	0.3503	0.2718	0.2333	0.0031	0.0277	-
0.0135	1	.							
2511	CG2	CG2	. VAL VAL VAL A A 331 331 .	0.2708	0.2554	0.2384	-0.0006	0.0162	
0.0015	1	.							

2512	C	C	. VAL VAL VAL A A 331 331 .	0.2703	0.2305	0.2055	0.0136	-0.0201	
0.0165	1	.							
2513	O	O	. VAL VAL VAL A A 331 331 .	0.2896	0.2482	0.1683	0.0322	-0.0268	
0.0305	1	.							
2514	N	N	. GLU GLU GLU A A 332 332 .	0.2676	0.2526	0.2219	0.0239	-0.0134	
0.0108	1	.							
2515	CA	CA	. GLU GLU GLU A A 332 332 .	0.3102	0.2779	0.2517	0.0159	-0.0355	
0.0143	1	.							
2516	CB	CB	. GLU GLU GLU A A 332 332 .	0.3063	0.2894	0.2739	0.0284	-0.0427	
0.0298	1	.							
2517	CG	CG	. GLU GLU GLU A A 332 332 .	0.3972	0.3763	0.3573	0.0235	-0.0471	
0.0509	1	.							
2518	CD	CD	. GLU GLU GLU A A 332 332 .	0.5014	0.5163	0.4282	0.0036	-0.0242	
0.0422	1	.							
2519	OE1	OE1	. GLU GLU GLU A A 332 332 .	0.5282	0.5657	0.5175	-0.0035	-0.0519	
0.0515	1	.							
2520	OE2	OE2	. GLU GLU GLU A A 332 332 .	0.5060	0.5577	0.4750	-0.0027	-0.0353	
0.0787	1	.							
2521	C	C	. GLU GLU GLU A A 332 332 .	0.3045	0.2684	0.2457	0.0163	-0.0315	
0.0107	1	.							
2522	O	O	. GLU GLU GLU A A 332 332 .	0.3589	0.2764	0.2490	0.0201	-0.0556	
0.0351	1	.							
2523	N	N	. GLU GLU GLU A A 333 333 .	0.2929	0.2464	0.2466	0.0122	-0.0323	
0.0071	1	.							
2524	CA	CA	. GLU GLU GLU A A 333 333 .	0.2575	0.2306	0.2409	0.0227	-0.0317	-
0.0041	1	.							
2525	CB	CB	. GLU GLU GLU A A 333 333 .	0.2664	0.2461	0.2748	0.0222	-0.0277	-
0.0013	1	.							
2526	CG	CG	. GLU GLU GLU A A 333 333 .	0.3445	0.2511	0.3285	0.0197	-0.0190	-
0.0216	1	.							
2527	CD	CD	. GLU GLU GLU A A 333 333 .	0.3980	0.3714	0.4253	0.0104	0.0170	-
0.0138	1	.							
2528	OE1	OE1	. GLU GLU GLU A A 333 333 .	0.4735	0.3765	0.4974	-0.0043	-0.0083	
0.0019	1	.							
2529	OE2	OE2	. GLU GLU GLU A A 333 333 .	0.4166	0.3677	0.4943	-0.0012	0.0046	-
0.0080	1	.							
2530	C	C	. GLU GLU GLU A A 333 333 .	0.2417	0.2263	0.2262	0.0129	-0.0246	-
0.0030	1	.							
2531	O	O	. GLU GLU GLU A A 333 333 .	0.2250	0.2072	0.2336	0.0352	-0.0494	
0.0007	1	.							
2532	N	N	. LYS LYS LYS A A 334 334 .	0.2182	0.2134	0.1792	0.0165	-0.0427	-
0.0200	1	.							
2533	CA	CA	. LYS LYS LYS A A 334 334 .	0.2203	0.2184	0.1714	0.0082	-0.0208	-
0.0123	1	.							
2534	CB	CB	. LYS LYS LYS A A 334 334 .	0.2143	0.2307	0.1693	0.0073	-0.0255	-
0.0060	1	.							
2535	CG	CG	. LYS LYS LYS A A 334 334 .	0.2924	0.2315	0.1683	-0.0045	0.0076	-
0.0091	1	.							
2536	CD	CD	. LYS LYS LYS A A 334 334 .	0.4138	0.3340	0.2887	-0.0065	-0.0706	-
0.0481	1	.							
2537	C	C	. LYS LYS LYS A A 334 334 .	0.2154	0.1962	0.1752	0.0184	-0.0300	-
0.0136	1	.							
2538	O	O	. LYS LYS LYS A A 334 334 .	0.2449	0.2011	0.1673	0.0134	-0.0090	-
0.0228	1	.							
2539	N	N	. ALA ALA ALA A A 335 335 .	0.2045	0.1601	0.1491	0.0354	-0.0227	-
0.0165	1	.							
2540	CA	CA	. ALA ALA ALA A A 335 335 .	0.1989	0.1682	0.1715	0.0276	-0.0194	-
0.0142	1	.							
2541	CB	CB	. ALA ALA ALA A A 335 335 .	0.1957	0.1664	0.1453	0.0350	-0.0234	-
0.0319	1	.							

2542	C	C	. ALA ALA ALA A A 335 335 .	0.1863	0.1787	0.1632	0.0282	-0.0185	-
0.0067	1	.							
2543	O	O	. ALA ALA ALA A A 335 335 .	0.1656	0.1658	0.1476	0.0145	-0.0401	-
0.0084	1	.							
2544	N	N	. CYS CYS CYS A A 336 336 .	0.1870	0.1695	0.1679	0.0351	-0.0182	-
0.0056	1	.							
2545	CA	CA	. CYS CYS CYS A A 336 336 .	0.1730	0.1694	0.1433	0.0395	-0.0218	-
0.0029	1	.							
2546	CB	CB	. CYS CYS CYS A A 336 336 .	0.1925	0.1580	0.1448	0.0305	-0.0266	-
0.0154	1	.							
2547	SG	SG	. CYS CYS CYS A A 336 336 .	0.1651	0.1640	0.1490	0.0231	-0.0225	-
0.0091	1	.							
2548	C	C	. CYS CYS CYS A A 336 336 .	0.1789	0.1707	0.1566	0.0308	-0.0119	-
0.0016	1	.							
2549	O	O	. CYS CYS CYS A A 336 336 .	0.1835	0.1755	0.1559	0.0357	-0.0128	-
0.0074	1	.							
2550	N	N	. ASN ASN ASN A A 337 337 .	0.1463	0.1442	0.1197	0.0286	-0.0377	-
0.0208	1	.							
2551	CA	CA	. ASN ASN ASN A A 337 337 .	0.1439	0.1498	0.1420	0.0087	-0.0314	-
0.0159	1	.							
2552	CB	CB	. ASN ASN ASN A A 337 337 .	0.1668	0.1629	0.1354	-0.0044	-0.0378	-
0.0122	1	.							
2553	CG	CG	. ASN ASN ASN A A 337 337 .	0.1630	0.1897	0.1623	-0.0043	-0.0293	-
0.0084	1	.							
2554	OD1	OD1	. ASN ASN ASN A A 337 337 .	0.2214	0.2281	0.2565	0.0107	-0.0314	-
0.0308	1	.							
2555	ND2	ND2	. ASN ASN ASN A A 337 337 .	0.1216	0.0943	0.1215	-0.0076	-0.0578	-
0.0093	1	.							
2556	C	C	. ASN ASN ASN A A 337 337 .	0.1519	0.1475	0.1345	0.0099	-0.0198	-
0.0206	1	.							
2557	O	O	. ASN ASN ASN A A 337 337 .	0.1492	0.1405	0.1623	0.0002	-0.0185	-
0.0121	1	.							
2558	N	N	. CYS CYS CYS A A 338 338 .	0.1346	0.1090	0.1224	-0.0019	-0.0142	-
0.0084	1	.							
2559	CA	CA	. CYS CYS CYS A A 338 338 .	0.1248	0.0800	0.0927	0.0124	-0.0219	-
0.0119	1	.							
2560	CB	CB	. CYS CYS CYS A A 338 338 .	0.1481	0.1208	0.1209	0.0010	-0.0414	-
0.0050	1	.							
2561	SG	SG	. CYS CYS CYS A A 338 338 .	0.1423	0.1266	0.1485	0.0372	-0.0265	-
0.0155	1	.							
2562	C	C	. CYS CYS CYS A A 338 338 .	0.1125	0.0968	0.1000	0.0068	-0.0061	-
0.0122	1	.							
2563	O	O	. CYS CYS CYS A A 338 338 .	0.1474	0.1057	0.1611	0.0247	-0.0271	-
0.0121	1	.							
2564	N	N	. LEU LEU LEU A A 339 339 .	0.0830	0.0729	0.0665	0.0148	-0.0101	-
0.0081	1	.							
2565	CA	CA	. LEU LEU LEU A A 339 339 .	0.1080	0.0834	0.0722	0.0065	-0.0113	-
0.0055	1	.							
2566	CB	CB	. LEU LEU LEU A A 339 339 .	0.1029	0.0825	0.0594	-0.0126	-0.0146	-
0.0107	1	.							
2567	CG	CG	. LEU LEU LEU A A 339 339 .	0.1012	0.0726	0.0553	-0.0026	-0.0004	-
0.0025	1	.							
2568	CD1	CD1	. LEU LEU LEU A A 339 339 .	0.1446	0.0878	0.1303	0.0522	0.0118	-
0.0201	1	.							
2569	CD2	CD2	. LEU LEU LEU A A 339 339 .	0.1248	0.1302	0.1262	-0.0076	0.0087	-
0.0187	1	.							
2570	C	C	. LEU LEU LEU A A 339 339 .	0.1034	0.1011	0.0710	0.0094	0.0006	-
0.0029	1	.							
2571	O	O	. LEU LEU LEU A A 339 339 .	0.1220	0.1011	0.0596	0.0109	0.0064	-
0.0043	1	.							

2572	N	N	. LEU LEU LEU A A 340 340 .	0.1116	0.1014	0.0717	0.0044	0.0036	
0.0105	1	.							
2573	CA	CA	. LEU LEU LEU A A 340 340 .	0.0920	0.1030	0.0711	-0.0024	0.0053	
0.0140	1	.							
2574	CB	CB	. LEU LEU LEU A A 340 340 .	0.0870	0.0763	0.0915	0.0056	0.0130	
0.0175	1	.							
2575	CG	CG	. LEU LEU LEU A A 340 340 .	0.1096	0.0732	0.0716	0.0014	0.0166	
0.0094	1	.							
2576	CD1	CD1	. LEU LEU LEU A A 340 340 .	0.0731	0.0614	0.0970	-0.0119	0.0026	-
0.0077	1	.							
2577	CD2	CD2	. LEU LEU LEU A A 340 340 .	0.1140	0.0920	0.0719	-0.0131	0.0104	-
0.0117	1	.							
2578	C	C	. LEU LEU LEU A A 340 340 .	0.1028	0.1062	0.0859	0.0099	0.0002	-
0.0005	1	.							
2579	O	O	. LEU LEU LEU A A 340 340 .	0.1131	0.1044	0.0825	-0.0123	-0.0135	
0.0116	1	.							
2580	N	N	. LEU LEU LEU A A 341 341 .	0.0914	0.1028	0.0928	0.0064	-0.0009	-
0.0002	1	.							
2581	CA	CA	. LEU LEU LEU A A 341 341 .	0.0996	0.1177	0.1021	0.0088	0.0054	
0.0062	1	.							
2582	CB	CB	. LEU LEU LEU A A 341 341 .	0.1068	0.0927	0.0983	0.0095	0.0140	
0.0040	1	.							
2583	CG	CG	. LEU LEU LEU A A 341 341 .	0.0937	0.1221	0.1252	-0.0001	-0.0071	
0.0059	1	.							
2584	CD1	CD1	. LEU LEU LEU A A 341 341 .	0.1925	0.1249	0.1464	0.0642	0.0206	-
0.0028	1	.							
2585	CD2	CD2	. LEU LEU LEU A A 341 341 .	0.1293	0.1844	0.1926	0.0203	0.0302	-
0.0100	1	.							
2586	C	C	. LEU LEU LEU A A 341 341 .	0.1060	0.1216	0.1046	0.0117	0.0030	
0.0001	1	.							
2587	O	O	. LEU LEU LEU A A 341 341 .	0.1173	0.1168	0.1018	0.0112	-0.0138	
0.0098	1	.							
2588	N	N	. LYS LYS LYS A A 342 342 .	0.1226	0.1320	0.1073	0.0301	-0.0002	-
0.0098	1	.							
2589	CA	CA	. LYS LYS LYS A A 342 342 .	0.1081	0.1392	0.0892	0.0074	-0.0027	
0.0075	1	.							
2590	CB	CB	. LYS LYS LYS A A 342 342 .	0.1171	0.1469	0.1005	0.0163	-0.0066	
0.0097	1	.							
2591	CG	CG	. LYS LYS LYS A A 342 342 .	0.1033	0.1096	0.1034	0.0256	-0.0239	
0.0136	1	.							
2592	CD	CD	. LYS LYS LYS A A 342 342 .	0.0898	0.0945	0.0859	-0.0038	-0.0352	
0.0212	1	.							
2593	CE	CE	. LYS LYS LYS A A 342 342 .	0.1348	0.1555	0.1090	-0.0210	-0.0312	
0.0085	1	.							
2594	NZ	NZ	. LYS LYS LYS A A 342 342 .	0.1463	0.1749	0.1606	-0.0262	0.0121	
0.0206	1	.							
2595	C	C	. LYS LYS LYS A A 342 342 .	0.1402	0.1423	0.0929	0.0246	-0.0117	-
0.0119	1	.							
2596	O	O	. LYS LYS LYS A A 342 342 .	0.1462	0.1444	0.0802	0.0338	-0.0335	
0.0063	1	.							
2597	N	N	. VAL VAL VAL A A 343 343 .	0.0911	0.1282	0.0909	-0.0050	0.0009	
0.0012	1	.							
2598	CA	CA	. VAL VAL VAL A A 343 343 .	0.1219	0.1169	0.0982	0.0008	0.0074	
0.0118	1	.							
2599	CB	CB	. VAL VAL VAL A A 343 343 .	0.1307	0.1443	0.1092	0.0141	0.0149	
0.0141	1	.							
2600	CG1	CG1	. VAL VAL VAL A A 343 343 .	0.1625	0.1916	0.0754	0.0427	0.0206	
0.0136	1	.							
2601	CG2	CG2	. VAL VAL VAL A A 343 343 .	0.1401	0.1798	0.1233	-0.0094	0.0055	
0.0282	1	.							

2602	C	C	. VAL VAL VAL A A 343 343 .	0.1213	0.1110	0.0868	-0.0032	0.0123	
0.0116	1	.							
2603	O	O	. VAL VAL VAL A A 343 343 .	0.1607	0.0965	0.0808	0.0066	0.0105	
0.0135	1	.							
2604	N	N	. ASN ASN ASN A A 344 344 .	0.0903	0.0907	0.1089	-0.0048	0.0061	
0.0226	1	.							
2605	CA	CA	. ASN ASN ASN A A 344 344 .	0.0903	0.1063	0.0903	0.0028	0.0024	
0.0164	1	.							
2606	CB	CB	. ASN ASN ASN A A 344 344 .	0.0801	0.1006	0.0710	0.0127	0.0036	-
0.0006	1	.							
2607	CG	CG	. ASN ASN ASN A A 344 344 .	0.0893	0.0995	0.0944	0.0065	-0.0078	-
0.0215	1	.							
2608	OD1	OD1	. ASN ASN ASN A A 344 344 .	0.1048	0.0737	0.1298	-0.0120	-0.0074	-
0.0052	1	.							
2609	ND2	ND2	. ASN ASN ASN A A 344 344 .	0.1040	0.1269	0.0960	0.0306	0.0109	
0.0109	1	.							
2610	C	C	. ASN ASN ASN A A 344 344 .	0.1094	0.1094	0.1034	0.0071	-0.0085	-
0.0060	1	.							
2611	O	O	. ASN ASN ASN A A 344 344 .	0.1170	0.0957	0.1154	0.0128	0.0095	-
0.0050	1	.							
2612	N	N	. GLN GLN GLN A A 345 345 .	0.1054	0.0825	0.0858	0.0004	-0.0006	-
0.0023	1	.							
2613	CA	CA	. GLN GLN GLN A A 345 345 .	0.1120	0.0938	0.0948	0.0001	-0.0066	-
0.0010	1	.							
2614	CB	CB	. GLN GLN GLN A A 345 345 .	0.0957	0.0920	0.1072	-0.0177	0.0036	
0.0054	1	.							
2615	CG	CG	. GLN GLN GLN A A 345 345 .	0.1031	0.0947	0.0974	-0.0166	-0.0015	
0.0027	1	.							
2616	CD	CD	. GLN GLN GLN A A 345 345 .	0.0945	0.0993	0.0868	-0.0163	0.0034	
0.0077	1	.							
2617	OE1	OE1	. GLN GLN GLN A A 345 345 .	0.1134	0.0913	0.1336	0.0145	-0.0172	
0.0254	1	.							
2618	NE2	NE2	. GLN GLN GLN A A 345 345 .	0.0615	0.1072	0.1410	0.0013	-0.0094	
0.0053	1	.							
2619	C	C	. GLN GLN GLN A A 345 345 .	0.1029	0.0880	0.0961	-0.0057	0.0088	-
0.0032	1	.							
2620	O	O	. GLN GLN GLN A A 345 345 .	0.1193	0.1171	0.0930	0.0110	0.0070	
0.0114	1	.							
2621	N	N	. ILE ILE ILE A A 346 346 .	0.0922	0.0844	0.0892	-0.0114	0.0005	-
0.0127	1	.							
2622	CA	CA	. ILE ILE ILE A A 346 346 .	0.1102	0.1015	0.1071	0.0156	0.0023	
0.0051	1	.							
2623	CB	CB	. ILE ILE ILE A A 346 346 .	0.1214	0.1147	0.0924	0.0091	-0.0035	
0.0120	1	.							
2624	CG1	CG1	. ILE ILE ILE A A 346 346 .	0.1178	0.0980	0.1225	0.0353	-0.0094	
0.0244	1	.							
2625	CD1	CD1	. ILE ILE ILE A A 346 346 .	0.1057	0.1317	0.1142	0.0143	-0.0211	
0.0269	1	.							
2626	CG2	CG2	. ILE ILE ILE A A 346 346 .	0.1178	0.1290	0.1057	0.0132	0.0198	
0.0402	1	.							
2627	C	C	. ILE ILE ILE A A 346 346 .	0.1078	0.1077	0.1152	0.0050	-0.0070	
0.0084	1	.							
2628	O	O	. ILE ILE ILE A A 346 346 .	0.1152	0.1328	0.1172	-0.0023	-0.0231	-
0.0202	1	.							
2629	N	N	. GLY GLY GLY A A 347 347 .	0.1110	0.0960	0.1034	0.0058	-0.0176	
0.0105	1	.							
2630	CA	CA	. GLY GLY GLY A A 347 347 .	0.1129	0.1169	0.1203	0.0014	-0.0061	
0.0078	1	.							
2631	C	C	. GLY GLY GLY A A 347 347 .	0.1120	0.1154	0.1103	0.0016	-0.0038	
0.0040	1	.							



2632	O	O	. GLY GLY GLY A A 347 347 .	0.1094	0.0922	0.1250	-0.0028	-0.0066	
0.0009	1	.							
2633	N	N	. SER SER SER A A 348 348 .	0.1104	0.1009	0.1170	0.0099	-0.0006	-
0.0139	1	.							
2634	CA	CA	. SER SER SER A A 348 348 .	0.1268	0.0964	0.1117	-0.0114	0.0041	-
0.0184	1	.							
2635	CB	CB	. SER SER SER A A 348 348 .	0.1448	0.1144	0.1131	-0.0126	-0.0055	
0.0084	1	.							
2636	OG	OG	. SER SER SER A A 348 348 .	0.1693	0.1563	0.0781	-0.0179	-0.0054	
0.0039	1	.							
2637	C	C	. SER SER SER A A 348 348 .	0.0896	0.1066	0.1004	0.0033	0.0111	-
0.0132	1	.							
2638	O	O	. SER SER SER A A 348 348 .	0.0994	0.1030	0.1133	-0.0158	0.0018	-
0.0033	1	.							
2639	N	N	. VAL VAL VAL A A 349 349 .	0.1119	0.0976	0.1064	0.0017	0.0030	-
0.0116	1	.							
2640	CA	CA	. VAL VAL VAL A A 349 349 .	0.1050	0.1013	0.0869	0.0155	0.0209	
0.0065	1	.							
2641	CB	CB	. VAL VAL VAL A A 349 349 .	0.1055	0.0935	0.0792	0.0204	0.0070	-
0.0039	1	.							
2642	CG1	CG1	. VAL VAL VAL A A 349 349 .	0.0880	0.1012	0.1463	0.0577	0.0137	-
0.0095	1	.							
2643	CG2	CG2	. VAL VAL VAL A A 349 349 .	0.1657	0.1056	0.1311	-0.0094	0.0137	
0.0040	1	.							
2644	C	C	. VAL VAL VAL A A 349 349 .	0.1111	0.0919	0.1020	0.0039	-0.0043	
0.0000	1	.							
2645	O	O	. VAL VAL VAL A A 349 349 .	0.1185	0.1170	0.0791	0.0008	0.0151	
0.0101	1	.							
2646	N	N	. THR THR THR A A 350 350 .	0.1191	0.1105	0.1230	-0.0076	0.0095	
0.0174	1	.							
2647	CA	CA	. THR THR THR A A 350 350 .	0.1100	0.1085	0.0971	-0.0187	-0.0156	
0.0200	1	.							
2648	CB	CB	. THR THR THR A A 350 350 .	0.1061	0.0910	0.1029	-0.0126	-0.0221	
0.0096	1	.							
2649	OG1	OG1	. THR THR THR A A 350 350 .	0.1327	0.1175	0.1455	-0.0195	-0.0107	
0.0466	1	.							
2650	CG2	CG2	. THR THR THR A A 350 350 .	0.1479	0.1461	0.1464	-0.0331	-0.0305	
0.0154	1	.							
2651	C	C	. THR THR THR A A 350 350 .	0.1184	0.0992	0.1023	-0.0207	0.0057	
0.0184	1	.							
2652	O	O	. THR THR THR A A 350 350 .	0.0929	0.1130	0.1002	-0.0182	0.0071	
0.0011	1	.							
2653	N	N	. GLU GLU GLU A A 351 351 .	0.1153	0.1100	0.1276	-0.0012	-0.0063	
0.0087	1	.							
2654	CA	CA	. GLU GLU GLU A A 351 351 .	0.1211	0.1046	0.1394	0.0015	0.0066	
0.0055	1	.							
2655	CB	CB	. GLU GLU GLU A A 351 351 .	0.1399	0.1056	0.1223	0.0229	0.0082	-
0.0057	1	.							
2656	CG	CG	. GLU GLU GLU A A 351 351 .	0.1847	0.1259	0.1698	0.0180	-0.0009	-
0.0257	1	.							
2657	CD	CD	. GLU GLU GLU A A 351 351 .	0.1779	0.1460	0.1737	0.0158	0.0125	-
0.0344	1	.							
2658	OE1	OE1	. GLU GLU GLU A A 351 351 .	0.2149	0.1861	0.1750	0.0024	0.0096	-
0.0110	1	.							
2659	OE2	OE2	. GLU GLU GLU A A 351 351 .	0.2397	0.1935	0.1847	0.0380	0.0063	
0.0297	1	.							
2660	C	C	. GLU GLU GLU A A 351 351 .	0.1291	0.1238	0.1280	0.0062	0.0050	-
0.0094	1	.							
2661	O	O	. GLU GLU GLU A A 351 351 .	0.1329	0.1303	0.1365	-0.0148	-0.0099	-
0.0035	1	.							

2662	N	N	. ALA ALA ALA A A	352 352	. 0.1314 0.0935 0.1232 -0.0120 0.0158
0.0070	1	.			
2663	CA	CA	. ALA ALA ALA A A	352 352	. 0.1138 0.1027 0.1067 -0.0075 0.0050
0.0063	1	.			
2664	CB	CB	. ALA ALA ALA A A	352 352	. 0.1437 0.1074 0.0727 -0.0182 -0.0010
0.0328	1	.			
2665	C	C	. ALA ALA ALA A A	352 352	. 0.1330 0.1229 0.1179 -0.0123 -0.0041 -
0.0052	1	.			
2666	O	O	. ALA ALA ALA A A	352 352	. 0.1366 0.1319 0.1188 -0.0152 -0.0158
0.0051	1	.			
2667	N	N	. ILE ILE ILE A A	353 353	. 0.1106 0.1252 0.1123 -0.0066 0.0190
0.0028	1	.			
2668	CA	CA	. ILE ILE ILE A A	353 353	. 0.1240 0.1462 0.1358 -0.0086 0.0008 -
0.0022	1	.			
2669	CB	CB	. ILE ILE ILE A A	353 353	. 0.1083 0.1288 0.1221 -0.0164 -0.0092 -
0.0045	1	.			
2670	CG1	CG1	. ILE ILE ILE A A	353 353	. 0.1529 0.1278 0.1395 0.0065 -0.0191 -
0.0094	1	.			
2671	CD1	CD1	. ILE ILE ILE A A	353 353	. 0.1384 0.1975 0.1679 0.0287 -0.0045
0.0091	1	.			
2672	CG2	CG2	. ILE ILE ILE A A	353 353	. 0.1215 0.1815 0.1389 -0.0272 0.0261 -
0.0195	1	.			
2673	C	C	. ILE ILE ILE A A	353 353	. 0.1211 0.1259 0.1357 -0.0315 0.0161
0.0151	1	.			
2674	O	O	. ILE ILE ILE A A	353 353	. 0.1433 0.1554 0.1275 -0.0061 0.0162 -
0.0075	1	.			
2675	N	N	. GLN GLN GLN A A	354 354	. 0.1299 0.1462 0.1562 -0.0022 0.0106
0.0012	1	.			
2676	CA	CA	. GLN GLN GLN A A	354 354	. 0.1698 0.1568 0.1558 -0.0121 -0.0023
0.0147	1	.			
2677	CB	CB	. GLN GLN GLN A A	354 354	. 0.2081 0.1461 0.1736 -0.0067 0.0038
0.0124	1	.			
2678	CG	CG	. GLN GLN GLN A A	354 354	. 0.3074 0.2797 0.2596 -0.0354 -0.0249
0.0545	1	.			
2679	CD	CD	. GLN GLN GLN A A	354 354	. 0.4230 0.3376 0.3561 -0.0198 0.0046
0.0476	1	.			
2680	OE1	OE1	. GLN GLN GLN A A	354 354	. 0.4864 0.4244 0.3434 -0.0653 -0.0281
0.0935	1	.			
2681	NE2	NE2	. GLN GLN GLN A A	354 354	. 0.4475 0.3279 0.3606 0.0354 0.0435
0.1286	1	.			
2682	C	C	. GLN GLN GLN A A	354 354	. 0.1523 0.1397 0.1451 -0.0038 -0.0040
0.0010	1	.			
2683	O	O	. GLN GLN GLN A A	354 354	. 0.1528 0.1542 0.1557 -0.0136 -0.0035
0.0053	1	.			
2684	N	N	. ALA ALA ALA A A	355 355	. 0.1250 0.1209 0.1260 -0.0066 0.0050 -
0.0013	1	.			
2685	CA	CA	. ALA ALA ALA A A	355 355	. 0.1088 0.1094 0.1268 0.0076 0.0111
0.0031	1	.			
2686	CB	CB	. ALA ALA ALA A A	355 355	. 0.1113 0.1204 0.1105 0.0294 0.0014 -
0.0046	1	.			
2687	C	C	. ALA ALA ALA A A	355 355	. 0.1276 0.1333 0.1227 0.0064 0.0033
0.0055	1	.			
2688	O	O	. ALA ALA ALA A A	355 355	. 0.1088 0.1423 0.1310 0.0146 0.0000
0.0194	1	.			
2689	N	N	. CYS CYS CYS A A	356 356	. 0.1123 0.1222 0.1140 0.0199 0.0079
0.0105	1	.			
2690	CA	CA	. CYS CYS CYS A A	356 356	. 0.1339 0.1285 0.0979 0.0164 -0.0051
0.0062	1	.			
2691	CB	CB	. CYS CYS CYS A A	356 356	. 0.0999 0.1146 0.1077 0.0436 -0.0029 -
0.0274	1	.			









2812	CA	CA	. SER SER SER A A 372 372 .	0.1077	0.1075	0.0977	0.0128	0.0064	
0.0130	1	.							
2813	CB	CB	. SER SER SER A A 372 372 .	0.0425	0.0691	0.0271	-0.0275	-0.0055	
0.0089	1	.							
2814	OG	OG	. SER SER SER A A 372 372 .	0.2369	0.1791	0.2680	-0.0455	-0.0294	-
0.0541	1	.							
2815	C	C	. SER SER SER A A 372 372 .	0.0567	0.0850	0.0789	0.0026	0.0116	
0.0215	1	.							
2816	O	O	. SER SER SER A A 372 372 .	0.0871	0.0961	0.1001	0.0265	0.0163	
0.0145	1	.							
2817	N	N	. GLY GLY GLY A A 373 373 .	0.0788	0.0932	0.0842	0.0052	0.0290	-
0.0127	1	.							
2818	CA	CA	. GLY GLY GLY A A 373 373 .	0.0703	0.1016	0.0825	-0.0033	0.0075	-
0.0031	1	.							
2819	C	C	. GLY GLY GLY A A 373 373 .	0.0623	0.0782	0.0924	0.0023	0.0129	
0.0098	1	.							
2820	O	O	. GLY GLY GLY A A 373 373 .	0.0644	0.0997	0.1139	0.0118	0.0121	
0.0169	1	.							
2821	N	N	. GLU GLU GLU A A 374 374 .	0.0695	0.0840	0.0656	0.0090	-0.0060	
0.0072	1	.							
2822	CA	CA	. GLU GLU GLU A A 374 374 .	0.0821	0.0926	0.0776	0.0074	0.0007	-
0.0083	1	.							
2823	CB	CB	. GLU GLU GLU A A 374 374 .	0.0993	0.0660	0.0846	0.0121	0.0001	
0.0052	1	.							
2824	CG	CG	. GLU GLU GLU A A 374 374 .	0.1294	0.1024	0.0598	-0.0105	0.0118	
0.0133	1	.							
2825	CD	CD	. GLU GLU GLU A A 374 374 .	0.0811	0.1064	0.0887	0.0138	-0.0015	-
0.0018	1	.							
2826	OE1	OE1	. GLU GLU GLU A A 374 374 .	0.0896	0.0935	0.1040	-0.0061	0.0228	
0.0043	1	.							
2827	OE2	OE2	. GLU GLU GLU A A 374 374 .	0.1347	0.1025	0.0989	0.0355	0.0123	-
0.0036	1	.							
2828	C	C	. GLU GLU GLU A A 374 374 .	0.0960	0.0870	0.0885	-0.0027	0.0013	-
0.0001	1	.							
2829	O	O	. GLU GLU GLU A A 374 374 .	0.0956	0.0825	0.0887	-0.0021	0.0077	-
0.0048	1	.							
2830	N	N	. THR THR THR A A 375 375 .	0.0828	0.0884	0.0895	0.0062	0.0046	
0.0085	1	.							
2831	CA	CA	. THR THR THR A A 375 375 .	0.0753	0.0813	0.0786	-0.0011	0.0036	
0.0018	1	.							
2832	CB	CB	. THR THR THR A A 375 375 .	0.0856	0.1004	0.0889	0.0063	0.0186	-
0.0129	1	.							
2833	OG1	OG1	. THR THR THR A A 375 375 .	0.1040	0.1058	0.0944	-0.0093	0.0309	-
0.0040	1	.							
2834	CG2	CG2	. THR THR THR A A 375 375 .	0.0839	0.0982	0.1524	0.0402	0.0250	-
0.0024	1	.							
2835	C	C	. THR THR THR A A 375 375 .	0.0994	0.0704	0.0924	0.0059	-0.0086	
0.0024	1	.							
2836	O	O	. THR THR THR A A 375 375 .	0.0996	0.0997	0.0767	0.0099	0.0125	
0.0142	1	.							
2837	N	N	. GLU GLU GLU A A 376 376 .	0.0904	0.0901	0.1098	0.0125	0.0088	
0.0171	1	.							
2838	CA	CA	. GLU GLU GLU A A 376 376 .	0.0798	0.1151	0.1042	0.0258	0.0035	
0.0114	1	.							
2839	CB	CB	. GLU GLU GLU A A 376 376 .	0.1322	0.1035	0.0959	0.0066	-0.0195	-
0.0007	1	.							
2840	CG	CG	. GLU GLU GLU A A 376 376 .	0.0868	0.1211	0.1035	0.0186	0.0031	-
0.0221	1	.							
2841	CD	CD	. GLU GLU GLU A A 376 376 .	0.1362	0.1337	0.1085	-0.0022	-0.0016	-
0.0184	1	.							

2842	OE1	OE1	. GLU GLU GLU A A	376 376	. 0.1694 0.1519 0.1223 -0.0164 0.0012 -
0.0180	1 .				
2843	OE2	OE2	. GLU GLU GLU A A	376 376	. 0.1231 0.1215 0.1276 -0.0131 -0.0028 -
0.0102	1 .				
2844	C	C	. GLU GLU GLU A A	376 376	. 0.1025 0.1015 0.0924 0.0241 0.0053
0.0074	1 .				
2845	O	O	. GLU GLU GLU A A	376 376	. 0.0993 0.1541 0.1017 0.0277 0.0172
0.0101	1 .				
2846	N	N	. ASP ASP ASP A A	377 377	. 0.1119 0.1058 0.0841 0.0032 0.0225
0.0043	1 .				
2847	CA	CA	. ASP ASP ASP A A	377 377	. 0.1272 0.1197 0.0903 0.0039 0.0175 -
0.0031	1 .				
2848	CB	CB	. ASP ASP ASP A A	377 377	. 0.1415 0.1192 0.1136 -0.0023 0.0255
0.0098	1 .				
2849	CG	CG	. ASP ASP ASP A A	377 377	. 0.2052 0.1367 0.1620 -0.0128 -0.0142
0.0185	1 .				
2850	OD1	OD1	. ASP ASP ASP A A	377 377	. 0.3371 0.1402 0.1979 -0.0045 0.0200
0.0153	1 .				
2851	OD2	OD2	. ASP ASP ASP A A	377 377	. 0.1418 0.1688 0.1598 -0.0354 0.0258 -
0.0048	1 .				
2852	C	C	. ASP ASP ASP A A	377 377	. 0.1137 0.1192 0.1065 -0.0115 0.0089 -
0.0130	1 .				
2853	O	O	. ASP ASP ASP A A	377 377	. 0.1235 0.1153 0.1121 0.0126 -0.0082 -
0.0167	1 .				
2854	N	N	. THR THR THR A A	378 378	. 0.0983 0.1058 0.0851 -0.0189 0.0080 -
0.0255	1 .				
2855	CA	CA	. THR THR THR A A	378 378	. 0.1076 0.0974 0.0778 -0.0015 0.0062
0.0030	1 .				
2856	CB	CB	. THR THR THR A A	378 378	. 0.1128 0.1097 0.1108 -0.0130 0.0177
0.0200	1 .				
2857	OG1	OG1	. THR THR THR A A	378 378	. 0.0826 0.1242 0.1239 0.0122 0.0096
0.0155	1 .				
2858	CG2	CG2	. THR THR THR A A	378 378	. 0.1826 0.1161 0.0563 -0.0168 0.0113
0.0348	1 .				
2859	C	C	. THR THR THR A A	378 378	. 0.1029 0.1039 0.1007 -0.0029 0.0074 -
0.0063	1 .				
2860	O	O	. THR THR THR A A	378 378	. 0.0838 0.0912 0.0855 -0.0003 -0.0048 -
0.0044	1 .				
2861	N	N	. PHE PHE PHE A A	379 379	. 0.0768 0.0682 0.0751 -0.0109 0.0034
0.0121	1 .				
2862	CA	CA	. PHE PHE PHE A A	379 379	. 0.1175 0.0948 0.0910 0.0036 -0.0008
0.0051	1 .				
2863	CB	CB	. PHE PHE PHE A A	379 379	. 0.1122 0.0793 0.0970 0.0082 0.0017
0.0408	1 .				
2864	CG	CG	. PHE PHE PHE A A	379 379	. 0.1014 0.0549 0.0978 0.0017 0.0096
0.0128	1 .				
2865	CD1	CD1	. PHE PHE PHE A A	379 379	. 0.1597 0.0860 0.0734 0.0042 0.0260
0.0366	1 .				
2866	CE1	CE1	. PHE PHE PHE A A	379 379	. 0.1708 0.1050 0.1177 -0.0018 0.0541
0.0453	1 .				
2867	CZ	CZ	. PHE PHE PHE A A	379 379	. 0.1323 0.0904 0.1709 -0.0082 0.0066
0.0043	1 .				
2868	CE2	CE2	. PHE PHE PHE A A	379 379	. 0.1624 0.1290 0.1639 0.0292 0.0327
0.0641	1 .				
2869	CD2	CD2	. PHE PHE PHE A A	379 379	. 0.0996 0.1087 0.1744 0.0087 0.0327
0.0581	1 .				
2870	C	C	. PHE PHE PHE A A	379 379	. 0.0820 0.1050 0.0858 -0.0106 0.0017
0.0042	1 .				
2871	O	O	. PHE PHE PHE A A	379 379	. 0.0937 0.0836 0.0978 0.0143 0.0060
0.0028	1 .				



2872	N	N	. ILE ILE ILE A A	380 380	. 0.1046 0.1078 0.1022 -0.0010 0.0026
0.0148	1	.			
2873	CA	CA	. ILE ILE ILE A A	380 380	. 0.0570 0.0834 0.0820 0.0055 -0.0048 -
0.0016	1	.			
2874	CB	CB	. ILE ILE ILE A A	380 380	. 0.0664 0.0744 0.0895 0.0115 0.0192
0.0146	1	.			
2875	CG1	CG1	. ILE ILE ILE A A	380 380	. 0.0668 0.0772 0.1073 -0.0058 0.0160
0.0362	1	.			
2876	CD1	CD1	. ILE ILE ILE A A	380 380	. 0.1036 0.1166 0.1643 0.0100 0.0525 -
0.0182	1	.			
2877	CG2	CG2	. ILE ILE ILE A A	380 380	. 0.1152 0.0945 0.0929 0.0478 0.0158 -
0.0165	1	.			
2878	C	C	. ILE ILE ILE A A	380 380	. 0.0749 0.0847 0.0824 0.0068 -0.0002
0.0106	1	.			
2879	O	O	. ILE ILE ILE A A	380 380	. 0.0766 0.0828 0.0819 0.0129 -0.0051 -
0.0034	1	.			
2880	N	N	. ALA ALA ALA A A	381 381	. 0.0959 0.0964 0.0964 0.0149 0.0086
0.0174	1	.			
2881	CA	CA	. ALA ALA ALA A A	381 381	. 0.1111 0.0798 0.0659 -0.0051 -0.0008
0.0163	1	.			
2882	CB	CB	. ALA ALA ALA A A	381 381	. 0.0896 0.0865 0.1076 0.0155 -0.0073
0.0162	1	.			
2883	C	C	. ALA ALA ALA A A	381 381	. 0.0841 0.0980 0.0952 -0.0060 -0.0022
0.0025	1	.			
2884	O	O	. ALA ALA ALA A A	381 381	. 0.0796 0.0987 0.0895 -0.0030 0.0053 -
0.0139	1	.			
2885	N	N	. ASP ASP ASP A A	382 382	. 0.0923 0.1024 0.0959 -0.0179 -0.0047 -
0.0043	1	.			
2886	CA	CA	. ASP ASP ASP A A	382 382	. 0.0757 0.0891 0.0517 -0.0217 0.0017
0.0071	1	.			
2887	CB	CB	. ASP ASP ASP A A	382 382	. 0.1048 0.1030 0.1135 -0.0071 -0.0040
0.0185	1	.			
2888	CG	CG	. ASP ASP ASP A A	382 382	. 0.1701 0.1395 0.1644 0.0004 0.0098
0.0168	1	.			
2889	OD1	OD1	. ASP ASP ASP A A	382 382	. 0.1755 0.1733 0.1228 0.0018 0.0284
0.0443	1	.			
2890	OD2	OD2	. ASP ASP ASP A A	382 382	. 0.1716 0.1352 0.1601 -0.0191 0.0228 -
0.0143	1	.			
2891	C	C	. ASP ASP ASP A A	382 382	. 0.0890 0.0845 0.0883 0.0085 0.0097
0.0035	1	.			
2892	O	O	. ASP ASP ASP A A	382 382	. 0.0933 0.1152 0.0965 0.0166 0.0155
0.0098	1	.			
2893	N	N	. LEU LEU LEU A A	383 383	. 0.1036 0.0849 0.0804 -0.0039 -0.0024
0.0100	1	.			
2894	CA	CA	. LEU LEU LEU A A	383 383	. 0.0939 0.0768 0.0722 0.0101 0.0033 -
0.0010	1	.			
2895	CB	CB	. LEU LEU LEU A A	383 383	. 0.0765 0.1047 0.1213 0.0173 0.0077 -
0.0117	1	.			
2896	CG	CG	. LEU LEU LEU A A	383 383	. 0.0957 0.1126 0.1184 -0.0008 0.0109
0.0200	1	.			
2897	CD1	CD1	. LEU LEU LEU A A	383 383	. 0.1403 0.1102 0.1143 -0.0194 -0.0259
0.0441	1	.			
2898	CD2	CD2	. LEU LEU LEU A A	383 383	. 0.0979 0.1061 0.1203 0.0047 0.0132 -
0.0267	1	.			
2899	C	C	. LEU LEU LEU A A	383 383	. 0.1051 0.0911 0.0848 -0.0071 -0.0035
0.0031	1	.			
2900	O	O	. LEU LEU LEU A A	383 383	. 0.1277 0.1174 0.0970 0.0140 -0.0021
0.0022	1	.			
2901	N	N	. VAL VAL VAL A A	384 384	. 0.1057 0.0719 0.0810 -0.0050 -0.0119 -
0.0034	1	.			



2932	O	O	. CYS CYS CYS A A 388 388 .	0.1569	0.1789	0.1150	0.0071	0.0004	-
0.0374	1	.							
2933	N	N	. THR THR THR A A 389 389 .	0.1011	0.0959	0.0865	0.0090	-0.0032	
0.0000	1	.							
2934	CA	CA	. THR THR THR A A 389 389 .	0.1030	0.0936	0.0769	-0.0003	0.0015	-
0.0040	1	.							
2935	CB	CB	. THR THR THR A A 389 389 .	0.1170	0.0925	0.1257	0.0036	0.0101	
0.0015	1	.							
2936	OG1	OG1	. THR THR THR A A 389 389 .	0.1636	0.1360	0.0977	0.0065	-0.0057	
0.0030	1	.							
2937	CG2	CG2	. THR THR THR A A 389 389 .	0.0753	0.0801	0.0694	-0.0174	0.0398	-
0.0384	1	.							
2938	C	C	. THR THR THR A A 389 389 .	0.1051	0.1018	0.1054	0.0071	-0.0007	-
0.0037	1	.							
2939	O	O	. THR THR THR A A 389 389 .	0.1420	0.1348	0.1249	0.0129	-0.0188	-
0.0199	1	.							
2940	N	N	. GLY GLY GLY A A 390 390 .	0.0841	0.0891	0.0918	0.0080	-0.0031	
0.0006	1	.							
2941	CA	CA	. GLY GLY GLY A A 390 390 .	0.0921	0.0809	0.0998	0.0109	0.0070	
0.0037	1	.							
2942	C	C	. GLY GLY GLY A A 390 390 .	0.1153	0.0780	0.0741	0.0112	0.0106	
0.0112	1	.							
2943	O	O	. GLY GLY GLY A A 390 390 .	0.1045	0.0938	0.0604	0.0015	0.0028	-
0.0176	1	.							
2944	N	N	. GLN GLN GLN A A 391 391 .	0.0968	0.0790	0.0707	0.0029	0.0066	
0.0122	1	.							
2945	CA	CA	. GLN GLN GLN A A 391 391 .	0.0896	0.0857	0.0835	0.0043	0.0001	
0.0052	1	.							
2946	CB	CB	. GLN GLN GLN A A 391 391 .	0.0988	0.1179	0.1089	0.0023	-0.0053	
0.0223	1	.							
2947	CG	CG	. GLN GLN GLN A A 391 391 .	0.0853	0.1492	0.1414	0.0201	-0.0131	
0.0267	1	.							
2948	CD	CD	. GLN GLN GLN A A 391 391 .	0.0932	0.1456	0.1126	-0.0045	-0.0022	
0.0031	1	.							
2949	OE1	OE1	. GLN GLN GLN A A 391 391 .	0.1234	0.1501	0.1635	0.0078	-0.0210	
0.0148	1	.							
2950	NE2	NE2	. GLN GLN GLN A A 391 391 .	0.1229	0.1524	0.1209	0.0253	-0.0353	-
0.0028	1	.							
2951	C	C	. GLN GLN GLN A A 391 391 .	0.0761	0.0600	0.0626	0.0020	0.0085	
0.0049	1	.							
2952	O	O	. GLN GLN GLN A A 391 391 .	0.0784	0.0878	0.0789	0.0010	0.0050	
0.0160	1	.							
2953	N	N	. ILE ILE ILE A A 392 392 .	0.0798	0.0893	0.0495	0.0025	-0.0080	-
0.0035	1	.							
2954	CA	CA	. ILE ILE ILE A A 392 392 .	0.0678	0.0933	0.0611	0.0036	0.0035	-
0.0106	1	.							
2955	CB	CB	. ILE ILE ILE A A 392 392 .	0.1179	0.0940	0.0700	0.0062	-0.0195	-
0.0060	1	.							
2956	CG1	CG1	. ILE ILE ILE A A 392 392 .	0.1114	0.0983	0.0915	0.0295	0.0018	-
0.0364	1	.							
2957	CD1	CD1	. ILE ILE ILE A A 392 392 .	0.1118	0.1257	0.1038	-0.0155	0.0056	-
0.0406	1	.							
2958	CG2	CG2	. ILE ILE ILE A A 392 392 .	0.0787	0.0924	0.0965	0.0498	-0.0128	
0.0175	1	.							
2959	C	C	. ILE ILE ILE A A 392 392 .	0.0930	0.0862	0.0665	-0.0005	-0.0098	
0.0069	1	.							
2960	O	O	. ILE ILE ILE A A 392 392 .	0.0796	0.1012	0.0721	-0.0047	-0.0077	
0.0097	1	.							
2961	N	N	. LYS LYS LYS A A 393 393 .	0.0594	0.0802	0.0744	-0.0030	0.0048	-
0.0014	1	.							



2992	O	O	. PRO PRO PRO A A 397 397 .	0.1089	0.1032	0.1301	0.0070	-0.0116	
0.0019	1	.							
2993	N	N	. CYS CYS CYS A A 398 398 .	0.0711	0.0933	0.0696	-0.0127	0.0119	-
0.0125	1	.							
2994	CA	CA	. CYS CYS CYS A A 398 398 .	0.0734	0.0640	0.0573	-0.0110	0.0056	
0.0022	1	.							
2995	CB	CB	. CYS CYS CYS A A 398 398 .	0.0685	0.0928	0.0663	-0.0085	0.0290	-
0.0045	1	.							
2996	SG	SG	. CYS CYS CYS A A 398 398 .	0.1343	0.1292	0.1270	-0.0206	0.0285	-
0.0005	1	.							
2997	C	C	. CYS CYS CYS A A 398 398 .	0.0802	0.0774	0.0676	-0.0043	0.0087	-
0.0044	1	.							
2998	O	O	. CYS CYS CYS A A 398 398 .	0.0980	0.0674	0.0667	0.0001	-0.0079	
0.0007	1	.							
2999	N	N	. ARG ARG ARG A A 399 399 .	0.0869	0.0728	0.0803	-0.0083	0.0043	
0.0077	1	.							
3000	CA	CA	. ARG ARG ARG A A 399 399 .	0.0719	0.0770	0.0914	-0.0088	0.0079	
0.0006	1	.							
3001	CB	CB	. ARG ARG ARG A A 399 399 .	0.0593	0.0411	0.0810	-0.0046	0.0036	
0.0036	1	.							
3002	CG	CG	. ARG ARG ARG A A 399 399 .	0.0527	0.0948	0.0980	-0.0012	0.0078	-
0.0041	1	.							
3003	CD	CD	. ARG ARG ARG A A 399 399 .	0.0593	0.0511	0.1095	0.0293	-0.0051	-
0.0115	1	.							
3004	NE	NE	. ARG ARG ARG A A 399 399 .	0.0879	0.0619	0.0940	-0.0001	0.0053	-
0.0095	1	.							
3005	CZ	CZ	. ARG ARG ARG A A 399 399 .	0.0788	0.0812	0.0895	0.0018	0.0018	-
0.0085	1	.							
3006	NH1	NH1	. ARG ARG ARG A A 399 399 .	0.0969	0.0684	0.1187	-0.0141	0.0056	
0.0024	1	.							
3007	NH2	NH2	. ARG ARG ARG A A 399 399 .	0.1294	0.0769	0.0830	-0.0019	0.0029	
0.0049	1	.							
3008	C	C	. ARG ARG ARG A A 399 399 .	0.0659	0.0721	0.0775	-0.0012	0.0110	
0.0001	1	.							
3009	O	O	. ARG ARG ARG A A 399 399 .	0.1006	0.0621	0.0715	0.0011	0.0143	
0.0005	1	.							
3010	N	N	. SER SER SER A A 400 400 .	0.0566	0.0620	0.0760	-0.0001	0.0141	-
0.0037	1	.							
3011	CA	CA	. SER SER SER A A 400 400 .	0.0694	0.0618	0.0751	0.0016	-0.0001	
0.0008	1	.							
3012	CB	CB	. SER SER SER A A 400 400 .	0.0513	0.0444	0.0628	0.0187	-0.0029	
0.0122	1	.							
3013	OG	OG	. SER SER SER A A 400 400 .	0.0860	0.0713	0.0637	0.0056	0.0310	-
0.0066	1	.							
3014	C	C	. SER SER SER A A 400 400 .	0.0772	0.0712	0.0705	-0.0002	0.0002	
0.0035	1	.							
3015	O	O	. SER SER SER A A 400 400 .	0.0649	0.0581	0.0779	0.0102	0.0172	
0.0108	1	.							
3016	N	N	. GLU GLU GLU A A 401 401 .	0.0818	0.0828	0.0613	0.0059	-0.0028	
0.0051	1	.							
3017	CA	CA	. GLU GLU GLU A A 401 401 .	0.1092	0.0812	0.0624	0.0109	0.0055	-
0.0087	1	.							
3018	CB	CB	. GLU GLU GLU A A 401 401 .	0.0534	0.0845	0.0784	-0.0005	0.0072	
0.0094	1	.							
3019	CG	CG	. GLU GLU GLU A A 401 401 .	0.0592	0.0899	0.0691	-0.0096	0.0077	
0.0415	1	.							
3020	CD	CD	. GLU GLU GLU A A 401 401 .	0.1041	0.0855	0.1045	-0.0206	-0.0160	
0.0407	1	.							
3021	OE1	OE1	. GLU GLU GLU A A 401 401 .	0.0750	0.0782	0.0681	0.0000	0.0059	
0.0002	1	.							



3052	CG	CG	. LYS LYS LYS A A 405 405 .	0.1152	0.0839	0.0915	-0.0019	0.0096	
0.0098	1	.							
3053	CD	CD	. LYS LYS LYS A A 405 405 .	0.0950	0.0649	0.0808	0.0075	0.0136	-
0.0243	1	.							
3054	CE	CE	. LYS LYS LYS A A 405 405 .	0.0794	0.0755	0.0425	0.0270	-0.0170	
0.0090	1	.							
3055	NZ	NZ	. LYS LYS LYS A A 405 405 .	0.0480	0.0853	0.0303	0.0103	0.0082	-
0.0070	1	.							
3056	C	C	. LYS LYS LYS A A 405 405 .	0.0771	0.0700	0.0658	0.0055	0.0033	
0.0084	1	.							
3057	O	O	. LYS LYS LYS A A 405 405 .	0.0703	0.0807	0.0721	0.0101	-0.0023	-
0.0194	1	.							
3058	N	N	. TYR TYR TYR A A 406 406 .	0.0892	0.0680	0.0582	0.0108	0.0028	-
0.0164	1	.							
3059	CA	CA	. TYR TYR TYR A A 406 406 .	0.0834	0.0681	0.0745	0.0004	0.0027	-
0.0020	1	.							
3060	CB	CB	. TYR TYR TYR A A 406 406 .	0.0733	0.0915	0.0778	-0.0217	-0.0030	
0.0062	1	.							
3061	CG	CG	. TYR TYR TYR A A 406 406 .	0.0557	0.0758	0.0484	0.0181	-0.0005	
0.0053	1	.							
3062	CD1	CD1	. TYR TYR TYR A A 406 406 .	0.0569	0.0539	0.0987	-0.0049	-0.0192	
0.0214	1	.							
3063	CE1	CE1	. TYR TYR TYR A A 406 406 .	0.0771	0.0800	0.0858	0.0096	-0.0158	-
0.0139	1	.							
3064	CZ	CZ	. TYR TYR TYR A A 406 406 .	0.0790	0.0792	0.0629	0.0149	0.0049	
0.0191	1	.							
3065	OH	OH	. TYR TYR TYR A A 406 406 .	0.0792	0.1025	0.0713	-0.0016	-0.0098	
0.0031	1	.							
3066	CE2	CE2	. TYR TYR TYR A A 406 406 .	0.0661	0.0370	0.0317	0.0210	-0.0145	-
0.0085	1	.							
3067	CD2	CD2	. TYR TYR TYR A A 406 406 .	0.0382	0.0469	0.0729	-0.0076	0.0004	
0.0075	1	.							
3068	C	C	. TYR TYR TYR A A 406 406 .	0.0757	0.0794	0.0732	-0.0027	0.0085	
0.0028	1	.							
3069	O	O	. TYR TYR TYR A A 406 406 .	0.0917	0.1040	0.0725	0.0188	0.0031	-
0.0257	1	.							
3070	N	N	. ASN ASN ASN A A 407 407 .	0.0624	0.0978	0.0849	0.0127	-0.0114	
0.0014	1	.							
3071	CA	CA	. ASN ASN ASN A A 407 407 .	0.0534	0.0928	0.0624	0.0114	-0.0033	
0.0087	1	.							
3072	CB	CB	. ASN ASN ASN A A 407 407 .	0.0788	0.0913	0.0620	0.0080	0.0067	
0.0170	1	.							
3073	CG	CG	. ASN ASN ASN A A 407 407 .	0.0411	0.0655	0.0490	-0.0005	-0.0051	-
0.0077	1	.							
3074	OD1	OD1	. ASN ASN ASN A A 407 407 .	0.1116	0.0779	0.0617	0.0045	-0.0107	
0.0030	1	.							
3075	ND2	ND2	. ASN ASN ASN A A 407 407 .	0.0680	0.0880	0.0377	0.0100	0.0124	-
0.0006	1	.							
3076	C	C	. ASN ASN ASN A A 407 407 .	0.0707	0.0741	0.0591	0.0066	-0.0066	
0.0040	1	.							
3077	O	O	. ASN ASN ASN A A 407 407 .	0.0572	0.0710	0.0808	-0.0007	0.0244	
0.0098	1	.							
3078	N	N	. GLN GLN GLN A A 408 408 .	0.0662	0.0827	0.0635	0.0031	0.0010	-
0.0079	1	.							
3079	CA	CA	. GLN GLN GLN A A 408 408 .	0.1067	0.0729	0.0773	-0.0058	0.0092	
0.0010	1	.							
3080	CB	CB	. GLN GLN GLN A A 408 408 .	0.0883	0.0795	0.0880	0.0057	0.0296	-
0.0060	1	.							
3081	CG	CG	. GLN GLN GLN A A 408 408 .	0.1091	0.1006	0.1436	-0.0274	-0.0009	
0.0372	1	.							

3082	CD	CD	. GLN GLN GLN A A 408 408 .	0.1479	0.1597	0.1786	-0.0310	-0.0017	
0.0246	1	.							
3083	OE1	OE1	. GLN GLN GLN A A 408 408 .	0.1213	0.1229	0.1877	-0.0499	-0.0246	
0.0094	1	.							
3084	NE2	NE2	. GLN GLN GLN A A 408 408 .	0.1829	0.1607	0.1629	-0.0382	0.0137	
0.0520	1	.							
3085	C	C	. GLN GLN GLN A A 408 408 .	0.0785	0.0945	0.0694	0.0056	0.0047	-
0.0068	1	.							
3086	O	O	. GLN GLN GLN A A 408 408 .	0.0684	0.0936	0.1114	-0.0036	-0.0025	
0.0173	1	.							
3087	N	N	. LEU LEU LEU A A 409 409 .	0.0735	0.0850	0.0692	-0.0125	0.0065	-
0.0039	1	.							
3088	CA	CA	. LEU LEU LEU A A 409 409 .	0.0509	0.0841	0.0631	0.0047	-0.0020	-
0.0141	1	.							
3089	CB	CB	. LEU LEU LEU A A 409 409 .	0.0580	0.0612	0.0637	-0.0153	-0.0114	
0.0058	1	.							
3090	CG	CG	. LEU LEU LEU A A 409 409 .	0.0298	0.0760	0.0898	0.0119	-0.0057	
0.0181	1	.							
3091	CD1	CD1	. LEU LEU LEU A A 409 409 .	0.0271	0.0805	0.1369	-0.0004	-0.0137	
0.0236	1	.							
3092	CD2	CD2	. LEU LEU LEU A A 409 409 .	0.0655	0.0501	0.1034	0.0174	0.0208	
0.0085	1	.							
3093	C	C	. LEU LEU LEU A A 409 409 .	0.0646	0.0684	0.0663	0.0125	0.0114	
0.0079	1	.							
3094	O	O	. LEU LEU LEU A A 409 409 .	0.0949	0.0889	0.0683	-0.0010	0.0139	-
0.0177	1	.							
3095	N	N	. MET MET MET A A 410 410 .	0.0577	0.0625	0.0502	0.0120	0.0045	-
0.0097	1	.							
3096	CA	CA	. MET MET MET A A 410 410 .	0.0676	0.0717	0.1046	0.0110	0.0033	
0.0077	1	.							
3097	CB	CB	. MET MET MET A A 410 410 .	0.0770	0.0508	0.0986	0.0003	-0.0084	
0.0085	1	.							
3098	CG	CG	. MET MET MET A A 410 410 .	0.1166	0.0858	0.0997	-0.0240	0.0262	
0.0089	1	.							
3099	SD	SD	. MET MET MET A A 410 410 .	0.1460	0.1577	0.1349	0.0020	0.0075	
0.0167	1	.							
3100	CE	CE	. MET MET MET A A 410 410 .	0.1773	0.1560	0.0749	-0.0443	0.0646	
0.0092	1	.							
3101	C	C	. MET MET MET A A 410 410 .	0.0873	0.0936	0.0964	0.0089	0.0042	-
0.0029	1	.							
3102	O	O	. MET MET MET A A 410 410 .	0.0741	0.1423	0.1201	0.0142	0.0096	
0.0025	1	.							
3103	N	N	. ARG ARG ARG A A 411 411 .	0.0747	0.0951	0.0858	-0.0036	0.0024	-
0.0090	1	.							
3104	CA	CA	. ARG ARG ARG A A 411 411 .	0.0890	0.1048	0.0864	0.0056	0.0041	
0.0049	1	.							
3105	CB	CB	. ARG ARG ARG A A 411 411 .	0.0787	0.1169	0.0605	-0.0035	0.0031	
0.0121	1	.							
3106	CG	CG	. ARG ARG ARG A A 411 411 .	0.1351	0.0755	0.0721	-0.0040	-0.0025	
0.0216	1	.							
3107	CD	CD	. ARG ARG ARG A A 411 411 .	0.1055	0.1150	0.0793	-0.0342	0.0057	-
0.0076	1	.							
3108	NE	NE	. ARG ARG ARG A A 411 411 .	0.1358	0.1769	0.1400	0.0022	-0.0037	-
0.0020	1	.							
3109	CZ	CZ	. ARG ARG ARG A A 411 411 .	0.1418	0.1151	0.1218	0.0448	0.0152	-
0.0351	1	.							
3110	NH1	NH1	. ARG ARG ARG A A 411 411 .	0.0775	0.1718	0.1459	0.0575	-0.0123	
0.0181	1	.							
3111	NH2	NH2	. ARG ARG ARG A A 411 411 .	0.1689	0.1261	0.1457	0.0258	-0.0103	
0.0002	1	.							



3112	C	C	. ARG ARG ARG A A 411 411 .	0.1044	0.1158	0.0944	0.0054	0.0050	
0.0027	1	.							
3113	O	O	. ARG ARG ARG A A 411 411 .	0.1281	0.1504	0.1096	0.0067	0.0067	
0.0177	1	.							
3114	N	N	. ILE ILE ILE A A 412 412 .	0.0854	0.0989	0.0880	0.0189	0.0187	
0.0208	1	.							
3115	CA	CA	. ILE ILE ILE A A 412 412 .	0.1038	0.1196	0.0878	0.0241	0.0088	
0.0081	1	.							
3116	CB	CB	. ILE ILE ILE A A 412 412 .	0.0862	0.0780	0.0816	0.0174	0.0126	
0.0073	1	.							
3117	CG1	CG1	. ILE ILE ILE A A 412 412 .	0.0830	0.1003	0.1120	0.0131	0.0044	-
0.0127	1	.							
3118	CD1	CD1	. ILE ILE ILE A A 412 412 .	0.0414	0.0983	0.1299	0.0200	0.0187	-
0.0030	1	.							
3119	CG2	CG2	. ILE ILE ILE A A 412 412 .	0.0851	0.1457	0.0984	0.0032	-0.0093	
0.0169	1	.							
3120	C	C	. ILE ILE ILE A A 412 412 .	0.1084	0.1013	0.1043	0.0140	0.0103	
0.0157	1	.							
3121	O	O	. ILE ILE ILE A A 412 412 .	0.1281	0.1415	0.1173	0.0022	0.0335	-
0.0103	1	.							
3122	N	N	. GLU GLU GLU A A 413 413 .	0.0879	0.1055	0.0840	0.0091	0.0041	-
0.0083	1	.							
3123	CA	CA	. GLU GLU GLU A A 413 413 .	0.0918	0.1245	0.1046	0.0041	-0.0015	-
0.0010	1	.							
3124	CB	CB	. GLU GLU GLU A A 413 413 .	0.1134	0.1114	0.1005	0.0024	-0.0150	
0.0024	1	.							
3125	CG	CG	. GLU GLU GLU A A 413 413 .	0.1171	0.0918	0.1264	-0.0086	0.0197	-
0.0116	1	.							
3126	CD	CD	. GLU GLU GLU A A 413 413 .	0.1312	0.1867	0.1656	0.0175	0.0266	-
0.0101	1	.							
3127	OE1	OE1	. GLU GLU GLU A A 413 413 .	0.1277	0.1606	0.2318	-0.0149	0.0204	
0.0156	1	.							
3128	OE2	OE2	. GLU GLU GLU A A 413 413 .	0.1592	0.1789	0.1553	0.0286	0.0241	-
0.0007	1	.							
3129	C	C	. GLU GLU GLU A A 413 413 .	0.1319	0.1495	0.1186	0.0320	0.0046	-
0.0027	1	.							
3130	O	O	. GLU GLU GLU A A 413 413 .	0.1257	0.1923	0.0923	0.0121	0.0030	
0.0297	1	.							
3131	N	N	. GLU GLU GLU A A 414 414 .	0.1193	0.1717	0.1200	0.0386	-0.0049	-
0.0019	1	.							
3132	CA	CA	. GLU GLU GLU A A 414 414 .	0.1549	0.2175	0.1400	0.0479	-0.0036	
0.0000	1	.							
3133	CB	CB	. GLU GLU GLU A A 414 414 .	0.1847	0.2282	0.1383	0.0687	-0.0303	-
0.0116	1	.							
3134	CG	CG	. GLU GLU GLU A A 414 414 .	0.2921	0.3156	0.2070	0.0615	-0.0058	-
0.0059	1	.							
3135	CD	CD	. GLU GLU GLU A A 414 414 .	0.3387	0.3319	0.2098	0.0333	-0.0347	-
0.0010	1	.							
3136	OE1	OE1	. GLU GLU GLU A A 414 414 .	0.4237	0.4165	0.2984	0.0335	0.0098	-
0.0301	1	.							
3137	OE2	OE2	. GLU GLU GLU A A 414 414 .	0.3510	0.4076	0.2883	0.0683	0.0023	-
0.0692	1	.							
3138	C	C	. GLU GLU GLU A A 414 414 .	0.1510	0.2193	0.1519	0.0388	-0.0081	-
0.0100	1	.							
3139	O	O	. GLU GLU GLU A A 414 414 .	0.1380	0.2835	0.1735	0.0495	0.0089	-
0.0107	1	.							
3140	N	N	. GLU GLU GLU A A 415 415 .	0.1427	0.2091	0.1458	-0.0041	-0.0075	-
0.0107	1	.							
3141	CA	CA	. GLU GLU GLU A A 415 415 .	0.1718	0.2370	0.1580	-0.0166	0.0089	
0.0035	1	.							



3172	OE2	OE2	. GLU GLU GLU A A 419 419 .	0.5220	0.5433	0.5660	-0.0894	-0.0299	
0.0295	1	.							
3173	C	C	. GLU GLU GLU A A 419 419 .	0.2607	0.3159	0.2890	-0.0045	0.0096	
0.0244	1	.							
3174	O	O	. GLU GLU GLU A A 419 419 .	0.2295	0.3362	0.3225	-0.0113	0.0184	
0.0421	1	.							
3175	N	N	. ALA ALA ALA A A 420 420 .	0.2172	0.2611	0.2479	-0.0068	0.0240	
0.0159	1	.							
3176	CA	CA	. ALA ALA ALA A A 420 420 .	0.2083	0.2258	0.2276	-0.0017	0.0075	
0.0123	1	.							
3177	CB	CB	. ALA ALA ALA A A 420 420 .	0.1952	0.2058	0.2027	0.0126	0.0279	
0.0198	1	.							
3178	C	C	. ALA ALA ALA A A 420 420 .	0.2132	0.2370	0.2347	0.0110	0.0029	-
0.0055	1	.							
3179	O	O	. ALA ALA ALA A A 420 420 .	0.2182	0.2445	0.2262	0.0117	0.0011	-
0.0097	1	.							
3180	N	N	. ARG ARG ARG A A 421 421 .	0.1916	0.2199	0.2118	0.0000	0.0156	-
0.0027	1	.							
3181	CA	CA	. ARG ARG ARG A A 421 421 .	0.1759	0.2232	0.1958	-0.0118	0.0382	-
0.0097	1	.							
3182	CB	CB	. ARG ARG ARG A A 421 421 .	0.2054	0.2163	0.2108	0.0005	0.0535	-
0.0219	1	.							
3183	CG	CG	. ARG ARG ARG A A 421 421 .	0.2251	0.3037	0.2777	0.0074	0.0425	-
0.0202	1	.							
3184	CD	CD	. ARG ARG ARG A A 421 421 .	0.2828	0.2924	0.2955	0.0469	0.0217	-
0.0177	1	.							
3185	NE	NE	. ARG ARG ARG A A 421 421 .	0.3484	0.3972	0.2744	0.0174	0.0307	-
0.0001	1	.							
3186	CZ	CZ	. ARG ARG ARG A A 421 421 .	0.3681	0.5175	0.3596	0.0332	0.0427	-
0.0104	1	.							
3187	NH1	NH1	. ARG ARG ARG A A 421 421 .	0.3841	0.4755	0.3509	0.0183	0.0043	-
0.0782	1	.							
3188	NH2	NH2	. ARG ARG ARG A A 421 421 .	0.3762	0.5772	0.3755	0.0368	0.0624	-
0.0017	1	.							
3189	C	C	. ARG ARG ARG A A 421 421 .	0.1535	0.1975	0.1897	-0.0086	0.0409	-
0.0251	1	.							
3190	O	O	. ARG ARG ARG A A 421 421 .	0.1653	0.2457	0.2496	-0.0370	0.0910	-
0.0312	1	.							
3191	N	N	. PHE PHE PHE A A 422 422 .	0.1272	0.1628	0.1246	-0.0117	0.0351	-
0.0139	1	.							
3192	CA	CA	. PHE PHE PHE A A 422 422 .	0.1115	0.1475	0.1370	0.0146	0.0057	-
0.0031	1	.							
3193	CB	CB	. PHE PHE PHE A A 422 422 .	0.1368	0.1789	0.1535	-0.0094	0.0275	-
0.0210	1	.							
3194	CG	CG	. PHE PHE PHE A A 422 422 .	0.1212	0.1453	0.1414	0.0105	0.0041	-
0.0003	1	.							
3195	CD1	CD1	. PHE PHE PHE A A 422 422 .	0.1218	0.1492	0.1258	0.0215	0.0017	-
0.0089	1	.							
3196	CE1	CE1	. PHE PHE PHE A A 422 422 .	0.1224	0.0855	0.0739	0.0026	0.0088	-
0.0022	1	.							
3197	CZ	CZ	. PHE PHE PHE A A 422 422 .	0.1026	0.1360	0.1255	0.0119	0.0025	-
0.0208	1	.							
3198	CE2	CE2	. PHE PHE PHE A A 422 422 .	0.1242	0.1423	0.0876	0.0038	0.0259	-
0.0111	1	.							
3199	CD2	CD2	. PHE PHE PHE A A 422 422 .	0.0773	0.0814	0.0911	0.0006	0.0113	-
0.0050	1	.							
3200	C	C	. PHE PHE PHE A A 422 422 .	0.1113	0.1544	0.1148	0.0120	0.0011	-
0.0223	1	.							
3201	O	O	. PHE PHE PHE A A 422 422 .	0.1142	0.1546	0.1434	0.0171	0.0075	-
0.0476	1	.							

3202	N	N	. ALA ALA ALA A A 423 423 .	0.1116	0.1104	0.1244	0.0115	-0.0181	-
0.0021	1	.							
3203	CA	CA	. ALA ALA ALA A A 423 423 .	0.1139	0.1183	0.1140	0.0052	-0.0185	-
0.0117	1	.							
3204	CB	CB	. ALA ALA ALA A A 423 423 .	0.0972	0.1388	0.1310	0.0236	0.0095	-
0.0279	1	.							
3205	C	C	. ALA ALA ALA A A 423 423 .	0.1349	0.1313	0.1229	-0.0065	-0.0093	-
0.0036	1	.							
3206	O	O	. ALA ALA ALA A A 423 423 .	0.1105	0.1089	0.0773	0.0046	-0.0317	-
0.0151	1	.							
3207	N	N	. GLY GLY GLY A A 424 424 .	0.1098	0.0883	0.1070	-0.0085	-0.0091	-
0.0086	1	.							
3208	CA	CA	. GLY GLY GLY A A 424 424 .	0.1339	0.1136	0.1036	0.0004	-0.0205	-
0.0003	1	.							
3209	C	C	. GLY GLY GLY A A 424 424 .	0.1243	0.1193	0.0971	-0.0074	-0.0060	-
0.0074	1	.							
3210	O	O	. GLY GLY GLY A A 424 424 .	0.1085	0.1181	0.1024	0.0235	-0.0098	-
0.0132	1	.							
3211	N	N	. HIS HIS HIS A A 425 425 .	0.1216	0.1004	0.0921	-0.0169	-0.0016	-
0.0181	1	.							
3212	CA	CA	. HIS HIS HIS A A 425 425 .	0.1338	0.0919	0.0861	-0.0087	-0.0195	-
0.0116	1	.							
3213	CB	CB	. HIS HIS HIS A A 425 425 .	0.1611	0.0917	0.1096	-0.0015	-0.0134	-
0.0178	1	.							
3214	CG	CG	. HIS HIS HIS A A 425 425 .	0.1313	0.1055	0.1419	-0.0157	-0.0270	-
0.0233	1	.							
3215	ND1	ND1	. HIS HIS HIS A A 425 425 .	0.2414	0.1772	0.1643	0.0036	0.0017	-
0.0083	1	.							
3216	CE1	CE1	. HIS HIS HIS A A 425 425 .	0.2136	0.1644	0.1257	-0.0030	-0.0314	-
0.0249	1	.							
3217	NE2	NE2	. HIS HIS HIS A A 425 425 .	0.2512	0.1494	0.1582	-0.0142	-0.0017	-
0.0423	1	.							
3218	CD2	CD2	. HIS HIS HIS A A 425 425 .	0.2070	0.1362	0.1321	-0.0157	-0.0413	-
0.0264	1	.							
3219	C	C	. HIS HIS HIS A A 425 425 .	0.1217	0.0846	0.0993	0.0048	-0.0120	-
0.0037	1	.							
3220	O	O	. HIS HIS HIS A A 425 425 .	0.1363	0.1401	0.1447	-0.0148	-0.0311	-
0.0343	1	.							
3221	N	N	. ASN ASN ASN A A 426 426 .	0.1141	0.1046	0.0736	0.0044	0.0117	-
0.0006	1	.							
3222	CA	CA	. ASN ASN ASN A A 426 426 .	0.1303	0.0902	0.0907	-0.0072	0.0143	-
0.0189	1	.							
3223	CB	CB	. ASN ASN ASN A A 426 426 .	0.1268	0.1041	0.0790	0.0075	0.0105	-
0.0222	1	.							
3224	CG	CG	. ASN ASN ASN A A 426 426 .	0.1490	0.1360	0.1183	0.0108	-0.0139	-
0.0233	1	.							
3225	OD1	OD1	. ASN ASN ASN A A 426 426 .	0.2751	0.3011	0.1432	-0.0174	-0.0385	-
0.0355	1	.							
3226	ND2	ND2	. ASN ASN ASN A A 426 426 .	0.1155	0.1003	0.0789	-0.0207	-0.0003	-
0.0105	1	.							
3227	C	C	. ASN ASN ASN A A 426 426 .	0.1524	0.1128	0.1025	-0.0175	0.0129	-
0.0186	1	.							
3228	O	O	. ASN ASN ASN A A 426 426 .	0.1936	0.1410	0.1379	-0.0109	0.0195	-
0.0089	1	.							
3229	N	N	. PHE PHE PHE A A 427 427 .	0.1437	0.1137	0.1048	-0.0276	0.0168	-
0.0175	1	.							
3230	CA	CA	. PHE PHE PHE A A 427 427 .	0.1598	0.1279	0.1202	-0.0106	0.0148	-
0.0184	1	.							
3231	CB	CB	. PHE PHE PHE A A 427 427 .	0.1714	0.1406	0.1173	-0.0219	0.0081	-
0.0205	1	.							





3292	O3P	O3P	. 2PG 2PG 2PG A	. 601 601	. 0.0849 0.1196 0.1131 0.0033	-0.0330
0.0241	1	.				
3293	O1P	O1P	. 2PG 2PG 2PG A	. 601 601	. 0.0988 0.1009 0.1143 0.0005	-0.0121 -
0.0303	1	.				
3294	C2	C2	. 2PG 2PG 2PG A	. 601 601	. 0.0888 0.0831 0.0896 0.0199	-0.0125
0.0182	1	.				
3295	C1	C1	. 2PG 2PG 2PG A	. 601 601	. 0.1351 0.1572 0.1164 0.0240	-0.0044 -
0.0141	1	.				
3296	O2	O2	. 2PG 2PG 2PG A	. 601 601	. 0.0652 0.0998 0.1003 0.0152	-0.0056
0.0023	1	.				
3297	O1	O1	. 2PG 2PG 2PG A	. 601 601	. 0.1176 0.1081 0.1555 0.0377	0.0125 -
0.0112	1	.				
3298	C3	C3	. 2PG 2PG 2PG A	. 601 601	. 0.1058 0.1389 0.1727 0.0030	-0.0467
0.0088	1	.				
3299	O3	O3	. 2PG 2PG 2PG A	. 601 601	. 0.1611 0.2384 0.1940 -0.0058	-0.0337
0.0375	1	.				
3300	O	O	. HOH HOH HOH A	. 800 800	. 0.0398 0.0934 0.0664 0.0284	-0.0123 -
0.0048	1	.				
3301	O	O	. HOH HOH HOH A	. 801 801	. 0.0761 0.1069 0.0945 0.0000	-0.0260
0.0089	1	.				
3302	O	O	. HOH HOH HOH A	. 802 802	. 0.0816 0.1168 0.1106 0.0082	-0.0003 -
0.0098	1	.				
3303	O3	O3	. TRS TRS TRS A	. 700 700	. 0.2921 0.3968 0.2719 0.0222	0.0213 -
0.0331	1	.				
3304	C3	C3	. TRS TRS TRS A	. 700 700	. 0.2191 0.2934 0.2353 0.0361	0.0023 -
0.0137	1	.				
3305	C	C	. TRS TRS TRS A	. 700 700	. 0.2093 0.2366 0.2286 0.0245	0.0020 -
0.0069	1	.				
3306	N	N	. TRS TRS TRS A	. 700 700	. 0.1714 0.1706 0.1951 0.0307	0.0238 -
0.0028	1	.				
3307	C2	C2	. TRS TRS TRS A	. 700 700	. 0.2263 0.2438 0.2228 0.0267	-0.0081 -
0.0072	1	.				
3308	O2	O2	. TRS TRS TRS A	. 700 700	. 0.2632 0.2881 0.2629 0.0234	-0.0278 -
0.0698	1	.				
3309	C1	C1	. TRS TRS TRS A	. 700 700	. 0.1755 0.2139 0.1930 0.0413	0.0017
0.0027	1	.				
3310	O1	O1	. TRS TRS TRS A	. 700 700	. 0.1707 0.1598 0.2168 0.0565	0.0273
0.0332	1	.				
3311	N	N	. SER SER SER B B 1	1	. 0.2236 0.2884 0.3089 0.0091	-0.0425
0.0159	1	.				
3312	CA	CA	. SER SER SER B B 1	1	. 0.2470 0.3050 0.3213 0.0110	-0.0315
0.0096	1	.				
3313	CB	CB	. SER SER SER B B 1	1	. 0.2768 0.3273 0.3142 0.0304	-0.0197
0.0178	1	.				
3314	OG	OG	. SER SER SER B B 1	1	. 0.3043 0.3843 0.3636 -0.0087	-0.0267
0.0566	1	.				
3315	C	C	. SER SER SER B B 1	1	. 0.2321 0.2844 0.3047 0.0030	-0.0317
0.0081	1	.				
3316	O	O	. SER SER SER B B 1	1	. 0.2191 0.3080 0.3145 -0.0034	-0.0213
0.0268	1	.				
3317	N	N	. ILE ILE ILE B B 2	2	. 0.2143 0.2681 0.2845 0.0141	-0.0218
0.0044	1	.				
3318	CA	CA	. ILE ILE ILE B B 2	2	. 0.1825 0.2236 0.2399 0.0066	-0.0167 -
0.0161	1	.				
3319	CB	CB	. ILE ILE ILE B B 2	2	. 0.1676 0.2196 0.2276 0.0236	-0.0004 -
0.0052	1	.				
3320	CG1	CG1	. ILE ILE ILE B B 2	2	. 0.2294 0.2173 0.2202 0.0024	-0.0222 -
0.0184	1	.				
3321	CD1	CD1	. ILE ILE ILE B B 2	2	. 0.1863 0.1930 0.1914 0.0216	-0.0458 -
0.0369	1	.				





3352	CA	CA	. TRP TRP TRP B B 6 6	. 0.0912 0.1283 0.1284 0.0011 0.0182	
0.0121	1 .				
3353	CB	CB	. TRP TRP TRP B B 6 6	. 0.1314 0.1607 0.1448 -0.0004 0.0220	-
0.0106	1 .				
3354	CG	CG	. TRP TRP TRP B B 6 6	. 0.1503 0.2033 0.1686 -0.0189 0.0145	
0.0082	1 .				
3355	CD1	CD1	. TRP TRP TRP B B 6 6	. 0.1991 0.1998 0.2554 -0.0024 0.0100	
0.0262	1 .				
3356	NE1	NE1	. TRP TRP TRP B B 6 6	. 0.2190 0.2799 0.2222 -0.0182 0.0276	
0.0063	1 .				
3357	CE2	CE2	. TRP TRP TRP B B 6 6	. 0.2415 0.2028 0.2138 -0.0355 0.0105	
0.0112	1 .				
3358	CD2	CD2	. TRP TRP TRP B B 6 6	. 0.1935 0.1666 0.1805 0.0099 0.0102	
0.0116	1 .				
3359	CE3	CE3	. TRP TRP TRP B B 6 6	. 0.1796 0.1970 0.1917 0.0022 0.0416	
0.0076	1 .				
3360	CZ3	CZ3	. TRP TRP TRP B B 6 6	. 0.2151 0.2690 0.1828 -0.0132 0.0116	-
0.0009	1 .				
3361	CH2	CH2	. TRP TRP TRP B B 6 6	. 0.2587 0.2980 0.2227 -0.0211 0.0037	-
0.0302	1 .				
3362	CZ2	CZ2	. TRP TRP TRP B B 6 6	. 0.2944 0.2645 0.2068 -0.0217 0.0273	-
0.0046	1 .				
3363	C	C	. TRP TRP TRP B B 6 6	. 0.0813 0.1323 0.1385 0.0090 0.0059	
0.0009	1 .				
3364	O	O	. TRP TRP TRP B B 6 6	. 0.1095 0.1607 0.1682 0.0155 0.0113	
0.0058	1 .				
3365	N	N	. ALA ALA ALA B B 7 7	. 0.0842 0.1211 0.1095 0.0106 0.0064	
0.0160	1 .				
3366	CA	CA	. ALA ALA ALA B B 7 7	. 0.0848 0.1238 0.1130 -0.0001 0.0019	
0.0099	1 .				
3367	CB	CB	. ALA ALA ALA B B 7 7	. 0.1404 0.1423 0.1315 0.0017 -0.0095	
0.0107	1 .				
3368	C	C	. ALA ALA ALA B B 7 7	. 0.1142 0.1409 0.1174 0.0114 0.0001	
0.0038	1 .				
3369	O	O	. ALA ALA ALA B B 7 7	. 0.1248 0.1608 0.1186 0.0215 0.0011	
0.0220	1 .				
3370	N	N	. ARG ARG ARG B B 8 8	. 0.0870 0.1245 0.1163 0.0104 -0.0032	
0.0021	1 .				
3371	CA	CA	. ARG ARG ARG B B 8 8	. 0.0923 0.1248 0.1133 0.0099 0.0030	
0.0033	1 .				
3372	CB	CB	. ARG ARG ARG B B 8 8	. 0.0919 0.1403 0.1360 0.0064 0.0042	
0.0066	1 .				
3373	CG	CG	. ARG ARG ARG B B 8 8	. 0.1240 0.1330 0.1327 0.0512 0.0063	
0.0112	1 .				
3374	CD	CD	. ARG ARG ARG B B 8 8	. 0.1623 0.1482 0.1419 -0.0007 -0.0064	
0.0101	1 .				
3375	NE	NE	. ARG ARG ARG B B 8 8	. 0.1513 0.1645 0.1466 0.0299 0.0100	
0.0186	1 .				
3376	CZ	CZ	. ARG ARG ARG B B 8 8	. 0.2155 0.1531 0.1765 0.0208 -0.0003	
0.0436	1 .				
3377	NH1	NH1	. ARG ARG ARG B B 8 8	. 0.1437 0.1404 0.1809 0.0375 -0.0157	-
0.0160	1 .				
3378	NH2	NH2	. ARG ARG ARG B B 8 8	. 0.2488 0.2332 0.2397 0.0246 0.0388	
0.0222	1 .				
3379	C	C	. ARG ARG ARG B B 8 8	. 0.0921 0.1049 0.0932 0.0036 0.0031	
0.0073	1 .				
3380	O	O	. ARG ARG ARG B B 8 8	. 0.0817 0.1211 0.0938 0.0131 0.0117	-
0.0052	1 .				
3381	N	N	. GLU GLU GLU B B 9 9	. 0.0953 0.1091 0.1081 -0.0065 0.0142	-
0.0001	1 .				



3412	C	C	. ASP ASP ASP B B 12 12	. 0.0816 0.0957 0.0843 0.0049 0.0005 -
0.0017	1	.		
3413	O	O	. ASP ASP ASP B B 12 12	. 0.0942 0.0760 0.0867 -0.0033 -0.0072 -
0.0010	1	.		
3414	N	N	. SER SER SER B B 13 13	. 0.0757 0.0961 0.0821 0.0032 0.0017 -
0.0006	1	.		
3415	CA	CA	. SER SER SER B B 13 13	. 0.0800 0.0769 0.0795 0.0070 0.0005 -
0.0193	1	.		
3416	CB	CB	. SER SER SER B B 13 13	. 0.1047 0.0896 0.0351 0.0076 0.0095 -
0.0225	1	.		
3417	OG	OG	. SER SER SER B B 13 13	. 0.1052 0.0909 0.0942 0.0192 -0.0037
0.0070	1	.		
3418	C	C	. SER SER SER B B 13 13	. 0.0931 0.0870 0.0652 0.0075 -0.0028 -
0.0103	1	.		
3419	O	O	. SER SER SER B B 13 13	. 0.0717 0.0866 0.1073 0.0119 -0.0143 -
0.0121	1	.		
3420	N	N	. ARG ARG ARG B B 14 14	. 0.0893 0.0896 0.0676 -0.0020 -0.0093
0.0048	1	.		
3421	CA	CA	. ARG ARG ARG B B 14 14	. 0.1063 0.0833 0.0878 -0.0020 0.0002
0.0042	1	.		
3422	CB	CB	. ARG ARG ARG B B 14 14	. 0.1106 0.0879 0.0904 -0.0205 0.0158
0.0104	1	.		
3423	CG	CG	. ARG ARG ARG B B 14 14	. 0.1708 0.1224 0.1262 -0.0041 0.0183
0.0215	1	.		
3424	CD	CD	. ARG ARG ARG B B 14 14	. 0.1802 0.1322 0.1761 0.0332 -0.0146
0.0287	1	.		
3425	NE	NE	. ARG ARG ARG B B 14 14	. 0.1606 0.1347 0.1623 0.0058 -0.0243 -
0.0057	1	.		
3426	CZ	CZ	. ARG ARG ARG B B 14 14	. 0.1496 0.1631 0.1507 0.0132 -0.0185
0.0282	1	.		
3427	NH1	NH1	. ARG ARG ARG B B 14 14	. 0.1982 0.1090 0.1282 0.0102 -0.0044
0.0177	1	.		
3428	NH2	NH2	. ARG ARG ARG B B 14 14	. 0.1724 0.1655 0.1565 -0.0077 -0.0646
0.0163	1	.		
3429	C	C	. ARG ARG ARG B B 14 14	. 0.1114 0.0921 0.0973 0.0031 -0.0102
0.0125	1	.		
3430	O	O	. ARG ARG ARG B B 14 14	. 0.1175 0.0938 0.1177 -0.0077 -0.0102
0.0095	1	.		
3431	N	N	. GLY GLY GLY B B 15 15	. 0.0798 0.0750 0.0649 0.0130 -0.0076 -
0.0045	1	.		
3432	CA	CA	. GLY GLY GLY B B 15 15	. 0.1018 0.0668 0.0759 0.0198 -0.0126
0.0058	1	.		
3433	C	C	. GLY GLY GLY B B 15 15	. 0.0985 0.1123 0.1035 -0.0063 0.0058 -
0.0033	1	.		
3434	O	O	. GLY GLY GLY B B 15 15	. 0.1165 0.1159 0.0946 -0.0068 0.0090 -
0.0304	1	.		
3435	N	N	. ASN ASN ASN B B 16 16	. 0.1030 0.1064 0.1069 0.0118 -0.0054
0.0031	1	.		
3436	CA	CA	. ASN ASN ASN B B 16 16	. 0.0898 0.0983 0.1042 0.0081 0.0056 -
0.0001	1	.		
3437	CB	CB	. ASN ASN ASN B B 16 16	. 0.0635 0.1017 0.1068 -0.0082 0.0171
0.0106	1	.		
3438	CG	CG	. ASN ASN ASN B B 16 16	. 0.0890 0.1153 0.1144 -0.0365 -0.0020 -
0.0129	1	.		
3439	OD1	OD1	. ASN ASN ASN B B 16 16	. 0.1506 0.0978 0.1773 -0.0213 -0.0151 -
0.0081	1	.		
3440	ND2	ND2	. ASN ASN ASN B B 16 16	. 0.1643 0.1239 0.1366 -0.0010 0.0033
0.0289	1	.		
3441	C	C	. ASN ASN ASN B B 16 16	. 0.0740 0.0951 0.0808 0.0005 -0.0017 -
0.0103	1	.		

3442	O	O	. ASN ASN ASN B B 16 16 .	0.1065	0.0729	0.0978	0.0153	0.0028	-
0.0199	1	.							
3443	N	N	. PRO PRO PRO B B 17 17 .	0.0793	0.0820	0.0891	-0.0014	-0.0108	-
0.0151	1	.							
3444	CA	CA	. PRO PRO PRO B B 17 17 .	0.0594	0.0735	0.0784	0.0006	0.0058	-
0.0170	1	.							
3445	CB	CB	. PRO PRO PRO B B 17 17 .	0.0683	0.0636	0.0684	0.0067	-0.0138	-
0.0196	1	.							
3446	CG	CG	. PRO PRO PRO B B 17 17 .	0.0610	0.1019	0.0872	-0.0074	0.0014	-
0.0088	1	.							
3447	CD	CD	. PRO PRO PRO B B 17 17 .	0.1009	0.0886	0.0820	0.0077	-0.0047	-
0.0387	1	.							
3448	C	C	. PRO PRO PRO B B 17 17 .	0.0607	0.0787	0.0885	0.0069	0.0199	-
0.0021	1	.							
3449	O	O	. PRO PRO PRO B B 17 17 .	0.0823	0.0915	0.0891	0.0213	0.0006	-
0.0034	1	.							
3450	N	N	. THR THR THR B B 18 18 .	0.0875	0.0727	0.0837	0.0079	-0.0063	-
0.0176	1	.							
3451	CA	CA	. THR THR THR B B 18 18 .	0.0795	0.1032	0.0963	0.0148	-0.0003	-
0.0053	1	.							
3452	CB	CB	. THR THR THR B B 18 18 .	0.1075	0.0796	0.0719	0.0121	-0.0201	-
0.0160	1	.							
3453	OG1	OG1	. THR THR THR B B 18 18 .	0.0748	0.0963	0.0903	0.0259	-0.0113	
0.0112	1	.							
3454	CG2	CG2	. THR THR THR B B 18 18 .	0.0771	0.0863	0.0908	0.0143	0.0097	-
0.0081	1	.							
3455	C	C	. THR THR THR B B 18 18 .	0.0971	0.0909	0.1012	0.0029	-0.0026	-
0.0020	1	.							
3456	O	O	. THR THR THR B B 18 18 .	0.0827	0.1002	0.0999	0.0124	0.0037	-
0.0060	1	.							
3457	N	N	. VAL VAL VAL B B 19 19 .	0.0658	0.0829	0.0618	0.0017	-0.0124	
0.0021	1	.							
3458	CA	CA	. VAL VAL VAL B B 19 19 .	0.0703	0.0824	0.0991	0.0048	0.0125	
0.0147	1	.							
3459	CB	CB	. VAL VAL VAL B B 19 19 .	0.0599	0.0631	0.0776	-0.0046	0.0001	
0.0227	1	.							
3460	CG1	CG1	. VAL VAL VAL B B 19 19 .	0.0657	0.1239	0.1277	0.0071	-0.0151	
0.0295	1	.							
3461	CG2	CG2	. VAL VAL VAL B B 19 19 .	0.0871	0.0905	0.1613	0.0324	0.0217	
0.0167	1	.							
3462	C	C	. VAL VAL VAL B B 19 19 .	0.0948	0.1133	0.0959	-0.0054	-0.0001	
0.0039	1	.							
3463	O	O	. VAL VAL VAL B B 19 19 .	0.0969	0.1065	0.1221	0.0113	0.0016	
0.0126	1	.							
3464	N	N	. GLU GLU GLU B B 20 20 .	0.0971	0.0921	0.0761	0.0038	0.0042	
0.0233	1	.							
3465	CA	CA	. GLU GLU GLU B B 20 20 .	0.0773	0.1008	0.0839	0.0059	-0.0095	
0.0155	1	.							
3466	CB	CB	. GLU GLU GLU B B 20 20 .	0.0864	0.1007	0.1061	0.0014	-0.0002	
0.0167	1	.							
3467	CG	CG	. GLU GLU GLU B B 20 20 .	0.1260	0.1061	0.1339	0.0138	-0.0193	
0.0102	1	.							
3468	CD	CD	. GLU GLU GLU B B 20 20 .	0.1746	0.1491	0.1620	0.0393	0.0166	
0.0240	1	.							
3469	OE1	OE1	. GLU GLU GLU B B 20 20 .	0.1677	0.1429	0.1479	0.0184	0.0324	
0.0429	1	.							
3470	OE2	OE2	. GLU GLU GLU B B 20 20 .	0.1528	0.1544	0.1596	0.0261	0.0050	
0.0218	1	.							
3471	C	C	. GLU GLU GLU B B 20 20 .	0.0816	0.0987	0.0811	0.0053	-0.0025	-
0.0026	1	.							



3502	CZ	CZ	. TYR TYR TYR B B 24 24 .	0.2228	0.3104	0.2838	-0.0001	-0.0638
0.0505	1	.						
3503	OH	OH	. TYR TYR TYR B B 24 24 .	0.1800	0.3443	0.2938	-0.0327	-0.0415
0.0749	1	.						
3504	CE2	CE2	. TYR TYR TYR B B 24 24 .	0.2402	0.3256	0.2499	0.0136	-0.0249
0.0340	1	.						
3505	CD2	CD2	. TYR TYR TYR B B 24 24 .	0.2202	0.2932	0.2087	-0.0342	0.0089
0.0747	1	.						
3506	C	C	. TYR TYR TYR B B 24 24 .	0.1787	0.1860	0.2139	-0.0027	-0.0067
0.0137	1	.						
3507	O	O	. TYR TYR TYR B B 24 24 .	0.1764	0.1980	0.2237	-0.0082	0.0220
0.0009	1	.						
3508	N	N	. THR THR THR B B 25 25 .	0.1670	0.1804	0.2196	-0.0152	-0.0093
0.0068	1	.						
3509	CA	CA	. THR THR THR B B 25 25 .	0.1888	0.1979	0.2367	-0.0197	0.0022
0.0105	1	.						
3510	CB	CB	. THR THR THR B B 25 25 .	0.1734	0.1682	0.1974	-0.0193	0.0205
0.0104	1	.						
3511	OG1	OG1	. THR THR THR B B 25 25 .	0.1714	0.1958	0.2444	-0.0211	0.0255
0.0408	1	.						
3512	CG2	CG2	. THR THR THR B B 25 25 .	0.2043	0.2086	0.2250	-0.0208	0.0568
0.0006	1	.						
3513	C	C	. THR THR THR B B 25 25 .	0.1961	0.2112	0.2281	-0.0230	-0.0034
0.0125	1	.						
3514	O	O	. THR THR THR B B 25 25 .	0.1807	0.2211	0.2539	-0.0293	0.0092
0.0155	1	.						
3515	N	N	. ALA ALA ALA B B 26 26 .	0.1812	0.2351	0.2593	-0.0304	-0.0061
0.0158	1	.						
3516	CA	CA	. ALA ALA ALA B B 26 26 .	0.2106	0.2356	0.2907	-0.0166	-0.0130
0.0264	1	.						
3517	CB	CB	. ALA ALA ALA B B 26 26 .	0.2249	0.2506	0.3132	-0.0325	-0.0372
0.0307	1	.						
3518	C	C	. ALA ALA ALA B B 26 26 .	0.2294	0.2520	0.2912	-0.0137	-0.0162
0.0322	1	.						
3519	O	O	. ALA ALA ALA B B 26 26 .	0.2207	0.2549	0.3228	-0.0304	0.0130
0.0660	1	.						
3520	N	N	. LYS LYS LYS B B 27 27 .	0.2166	0.2354	0.2679	-0.0076	-0.0288
0.0126	1	.						
3521	CA	CA	. LYS LYS LYS B B 27 27 .	0.2496	0.2524	0.2821	-0.0024	-0.0247
0.0057	1	.						
3522	CB	CB	. LYS LYS LYS B B 27 27 .	0.2660	0.2509	0.2747	0.0053	-0.0325
0.0074	1	.						
3523	CG	CG	. LYS LYS LYS B B 27 27 .	0.3185	0.3444	0.3290	0.0046	-0.0509
0.0115	1	.						
3524	CD	CD	. LYS LYS LYS B B 27 27 .	0.3857	0.3775	0.2652	-0.0133	-0.0029
0.0024	1	.						
3525	CE	CE	. LYS LYS LYS B B 27 27 .	0.3814	0.3636	0.3874	-0.0726	-0.0092
0.0220	1	.						
3526	NZ	NZ	. LYS LYS LYS B B 27 27 .	0.3705	0.4494	0.4448	-0.1083	0.0283
0.0398	1	.						
3527	C	C	. LYS LYS LYS B B 27 27 .	0.2249	0.2395	0.2760	-0.0008	-0.0207
0.0158	1	.						
3528	O	O	. LYS LYS LYS B B 27 27 .	0.2502	0.2798	0.3464	0.0061	-0.0307
0.0017	1	.						
3529	N	N	. GLY GLY GLY B B 28 28 .	0.1985	0.2319	0.2416	-0.0098	-0.0279
0.0267	1	.						
3530	CA	CA	. GLY GLY GLY B B 28 28 .	0.1962	0.2285	0.2674	-0.0338	-0.0202
0.0359	1	.						
3531	C	C	. GLY GLY GLY B B 28 28 .	0.1914	0.2144	0.2421	-0.0260	-0.0110
0.0391	1	.						

3532	O	O	. GLY GLY GLY B B 28 28 .	0.1545	0.1877	0.2176	-0.0266	0.0078	
0.0333	1	.							
3533	N	N	. LEU LEU LEU B B 29 29 .	0.1492	0.1962	0.2177	-0.0157	-0.0208	
0.0457	1	.							
3534	CA	CA	. LEU LEU LEU B B 29 29 .	0.1835	0.1963	0.2118	-0.0075	-0.0221	
0.0161	1	.							
3535	CB	CB	. LEU LEU LEU B B 29 29 .	0.1586	0.2041	0.2092	-0.0112	-0.0297	
0.0235	1	.							
3536	CG	CG	. LEU LEU LEU B B 29 29 .	0.2426	0.2270	0.2818	-0.0195	-0.0745	
0.0089	1	.							
3537	CD1	CD1	. LEU LEU LEU B B 29 29 .	0.3111	0.2206	0.3271	-0.0209	-0.0589	-
0.0387	1	.							
3538	CD2	CD2	. LEU LEU LEU B B 29 29 .	0.1940	0.2894	0.2360	-0.0263	-0.0640	
0.0133	1	.							
3539	C	C	. LEU LEU LEU B B 29 29 .	0.1545	0.1794	0.1919	0.0047	-0.0117	
0.0030	1	.							
3540	O	O	. LEU LEU LEU B B 29 29 .	0.1961	0.2013	0.2373	0.0118	0.0055	-
0.0007	1	.							
3541	N	N	. PHE PHE PHE B B 30 30 .	0.1312	0.1651	0.1671	-0.0059	0.0069	-
0.0045	1	.							
3542	CA	CA	. PHE PHE PHE B B 30 30 .	0.1377	0.1282	0.1606	-0.0102	0.0033	-
0.0017	1	.							
3543	CB	CB	. PHE PHE PHE B B 30 30 .	0.1195	0.1295	0.1421	-0.0190	0.0098	
0.0028	1	.							
3544	CG	CG	. PHE PHE PHE B B 30 30 .	0.1165	0.1523	0.1936	-0.0147	0.0022	
0.0000	1	.							
3545	CD1	CD1	. PHE PHE PHE B B 30 30 .	0.1321	0.1603	0.1667	-0.0117	-0.0105	
0.0030	1	.							
3546	CE1	CE1	. PHE PHE PHE B B 30 30 .	0.1292	0.1781	0.1575	-0.0398	0.0073	
0.0144	1	.							
3547	CZ	CZ	. PHE PHE PHE B B 30 30 .	0.1380	0.2168	0.1548	0.0267	0.0351	-
0.0230	1	.							
3548	CE2	CE2	. PHE PHE PHE B B 30 30 .	0.1830	0.1691	0.2202	-0.0142	0.0303	-
0.0039	1	.							
3549	CD2	CD2	. PHE PHE PHE B B 30 30 .	0.1262	0.1886	0.1815	-0.0146	-0.0030	
0.0050	1	.							
3550	C	C	. PHE PHE PHE B B 30 30 .	0.1345	0.1540	0.1897	-0.0036	0.0007	
0.0002	1	.							
3551	O	O	. PHE PHE PHE B B 30 30 .	0.1755	0.1527	0.2337	-0.0119	0.0000	-
0.0377	1	.							
3552	N	N	. ARG ARG ARG B B 31 31 .	0.1137	0.1341	0.1648	0.0076	-0.0109	
0.0252	1	.							
3553	CA	CA	. ARG ARG ARG B B 31 31 .	0.1049	0.0947	0.1154	0.0122	-0.0120	
0.0016	1	.							
3554	CB	CB	. ARG ARG ARG B B 31 31 .	0.1139	0.1182	0.1287	0.0036	-0.0420	
0.0238	1	.							
3555	CG	CG	. ARG ARG ARG B B 31 31 .	0.1123	0.0981	0.1112	0.0146	-0.0288	-
0.0056	1	.							
3556	CD	CD	. ARG ARG ARG B B 31 31 .	0.1269	0.1137	0.1262	0.0147	-0.0341	
0.0270	1	.							
3557	NE	NE	. ARG ARG ARG B B 31 31 .	0.1487	0.1272	0.1407	0.0243	-0.0164	-
0.0019	1	.							
3558	CZ	CZ	. ARG ARG ARG B B 31 31 .	0.1761	0.1913	0.1630	0.0053	-0.0151	-
0.0010	1	.							
3559	NH1	NH1	. ARG ARG ARG B B 31 31 .	0.2173	0.2077	0.1670	-0.1088	-0.0147	
0.0015	1	.							
3560	NH2	NH2	. ARG ARG ARG B B 31 31 .	0.1819	0.1621	0.1715	0.0045	-0.0107	-
0.0253	1	.							
3561	C	C	. ARG ARG ARG B B 31 31 .	0.1235	0.1071	0.1258	0.0104	0.0051	
0.0117	1	.							

3562	O	O	. ARG ARG ARG B B 31 31 .	0.1289	0.1142	0.1243	-0.0009	0.0031	
0.0249	1	.							
3563	N	N	. ALA ALA ALA B B 32 32 .	0.0882	0.1003	0.1194	0.0068	0.0085	
0.0157	1	.							
3564	CA	CA	. ALA ALA ALA B B 32 32 .	0.1048	0.1051	0.1127	0.0061	0.0024	
0.0100	1	.							
3565	CB	CB	. ALA ALA ALA B B 32 32 .	0.1218	0.1210	0.1157	0.0004	-0.0043	
0.0121	1	.							
3566	C	C	. ALA ALA ALA B B 32 32 .	0.0995	0.1048	0.1115	0.0107	0.0000	
0.0091	1	.							
3567	O	O	. ALA ALA ALA B B 32 32 .	0.0932	0.1198	0.0917	-0.0112	0.0036	
0.0043	1	.							
3568	N	N	. ALA ALA ALA B B 33 33 .	0.0893	0.1035	0.1213	0.0074	-0.0124	
0.0188	1	.							
3569	CA	CA	. ALA ALA ALA B B 33 33 .	0.0863	0.1009	0.1019	0.0030	-0.0193	
0.0099	1	.							
3570	CB	CB	. ALA ALA ALA B B 33 33 .	0.0712	0.1301	0.1256	0.0237	-0.0354	-
0.0175	1	.							
3571	C	C	. ALA ALA ALA B B 33 33 .	0.1299	0.1134	0.1121	0.0038	-0.0092	-
0.0015	1	.							
3572	O	O	. ALA ALA ALA B B 33 33 .	0.1320	0.1123	0.1214	0.0069	-0.0002	-
0.0118	1	.							
3573	N	N	. VAL VAL VAL B B 34 34 .	0.1154	0.0938	0.1162	-0.0028	0.0023	
0.0111	1	.							
3574	CA	CA	. VAL VAL VAL B B 34 34 .	0.1068	0.0979	0.1071	0.0115	0.0015	
0.0020	1	.							
3575	CB	CB	. VAL VAL VAL B B 34 34 .	0.0973	0.0980	0.0996	0.0133	0.0136	
0.0037	1	.							
3576	CG1	CG1	. VAL VAL VAL B B 34 34 .	0.1016	0.0921	0.0912	0.0069	0.0142	-
0.0096	1	.							
3577	CG2	CG2	. VAL VAL VAL B B 34 34 .	0.1026	0.1372	0.1086	0.0249	-0.0144	-
0.0025	1	.							
3578	C	C	. VAL VAL VAL B B 34 34 .	0.0848	0.0906	0.0975	0.0132	-0.0019	
0.0001	1	.							
3579	O	O	. VAL VAL VAL B B 34 34 .	0.1188	0.1051	0.0743	0.0375	-0.0019	-
0.0151	1	.							
3580	N	N	. PRO PRO PRO B B 35 35 .	0.0902	0.0974	0.0729	0.0143	-0.0064	-
0.0024	1	.							
3581	CA	CA	. PRO PRO PRO B B 35 35 .	0.0924	0.0708	0.0625	0.0069	0.0069	
0.0016	1	.							
3582	CB	CB	. PRO PRO PRO B B 35 35 .	0.0824	0.0875	0.0789	0.0090	-0.0087	-
0.0083	1	.							
3583	CG	CG	. PRO PRO PRO B B 35 35 .	0.0762	0.0707	0.0943	0.0133	0.0076	-
0.0215	1	.							
3584	CD	CD	. PRO PRO PRO B B 35 35 .	0.0782	0.0861	0.0805	0.0040	-0.0121	-
0.0063	1	.							
3585	C	C	. PRO PRO PRO B B 35 35 .	0.0905	0.0782	0.0648	0.0086	0.0117	
0.0141	1	.							
3586	O	O	. PRO PRO PRO B B 35 35 .	0.1113	0.0985	0.1294	0.0165	0.0190	
0.0151	1	.							
3587	N	N	. SER SER SER B B 36 36 .	0.1081	0.0711	0.0731	0.0049	-0.0018	
0.0029	1	.							
3588	CA	CA	. SER SER SER B B 36 36 .	0.1139	0.0929	0.0820	-0.0075	0.0063	-
0.0163	1	.							
3589	CB	CB	. SER SER SER B B 36 36 .	0.0947	0.1003	0.0613	0.0033	-0.0077	-
0.0215	1	.							
3590	OG	OG	. SER SER SER B B 36 36 .	0.1485	0.1289	0.1193	-0.0124	0.0132	-
0.0155	1	.							
3591	C	C	. SER SER SER B B 36 36 .	0.0940	0.0784	0.0730	-0.0046	-0.0139	-
0.0040	1	.							



3592	O	O	. SER SER SER B B 36 36 .	0.0802	0.0886	0.0737	0.0182	-0.0049	
0.0005	1	.							
3593	N	N	. GLY GLY GLY B B 37 37 .	0.1056	0.0764	0.0804	-0.0063	0.0008	-
0.0123	1	.							
3594	CA	CA	. GLY GLY GLY B B 37 37 .	0.1094	0.1082	0.0806	-0.0168	-0.0041	-
0.0005	1	.							
3595	C	C	. GLY GLY GLY B B 37 37 .	0.1072	0.0947	0.0988	0.0085	-0.0072	
0.0027	1	.							
3596	O	O	. GLY GLY GLY B B 37 37 .	0.1303	0.1083	0.0947	0.0151	-0.0107	-
0.0194	1	.							
3597	N	N	. ALA ALA ALA B B 38 38 .	0.1230	0.1024	0.0854	0.0097	0.0092	
0.0022	1	.							
3598	CA	CA	. ALA ALA ALA B B 38 38 .	0.1179	0.1119	0.1151	-0.0004	-0.0082	
0.0080	1	.							
3599	CB	CB	. ALA ALA ALA B B 38 38 .	0.1213	0.1237	0.1336	0.0167	-0.0057	
0.0015	1	.							
3600	C	C	. ALA ALA ALA B B 38 38 .	0.1520	0.1075	0.0934	0.0193	-0.0132	
0.0077	1	.							
3601	O	O	. ALA ALA ALA B B 38 38 .	0.1621	0.1063	0.1004	0.0103	0.0014	-
0.0155	1	.							
3602	N	N	. SER SER SER B B 39 39 .	0.1388	0.1229	0.1137	0.0114	-0.0093	
0.0163	1	.							
3603	CA	CA	. SER SER SER B B 39 39 .	0.1133	0.1058	0.0826	0.0161	-0.0098	
0.0014	1	.							
3604	CB	CB	. SER SER SER B B 39 39 .	0.1311	0.1080	0.0726	-0.0088	0.0104	-
0.0278	1	.							
3605	OG	OG	. SER SER SER B B 39 39 .	0.0983	0.0979	0.0774	-0.0054	-0.0118	
0.0091	1	.							
3606	C	C	. SER SER SER B B 39 39 .	0.1114	0.1015	0.1001	0.0089	-0.0064	-
0.0001	1	.							
3607	O	O	. SER SER SER B B 39 39 .	0.1518	0.0807	0.0759	0.0062	-0.0280	-
0.0119	1	.							
3608	N	N	. THR THR THR B B 40 40 .	0.1335	0.1271	0.1020	-0.0001	-0.0112	
0.0108	1	.							
3609	CA	CA	. THR THR THR B B 40 40 .	0.1156	0.1052	0.0973	0.0072	0.0039	
0.0273	1	.							
3610	CB	CB	. THR THR THR B B 40 40 .	0.1486	0.1204	0.1203	-0.0094	0.0150	
0.0177	1	.							
3611	OG1	OG1	. THR THR THR B B 40 40 .	0.1734	0.1442	0.1410	0.0263	0.0206	-
0.0128	1	.							
3612	CG2	CG2	. THR THR THR B B 40 40 .	0.1260	0.0793	0.0810	0.0437	0.0083	
0.0347	1	.							
3613	C	C	. THR THR THR B B 40 40 .	0.1275	0.1129	0.1145	0.0083	-0.0137	
0.0155	1	.							
3614	O	O	. THR THR THR B B 40 40 .	0.1899	0.1130	0.1358	-0.0103	-0.0360	
0.0171	1	.							
3615	N	N	. GLY GLY GLY B B 41 41 .	0.1114	0.0902	0.0814	0.0142	-0.0125	
0.0125	1	.							
3616	CA	CA	. GLY GLY GLY B B 41 41 .	0.1205	0.0708	0.0981	0.0153	0.0068	
0.0131	1	.							
3617	C	C	. GLY GLY GLY B B 41 41 .	0.1203	0.0953	0.1094	0.0030	0.0030	
0.0119	1	.							
3618	O	O	. GLY GLY GLY B B 41 41 .	0.1423	0.0820	0.1102	0.0141	-0.0051	
0.0104	1	.							
3619	N	N	. ILE ILE ILE B B 42 42 .	0.1292	0.0703	0.0781	0.0156	-0.0026	
0.0170	1	.							
3620	CA	CA	. ILE ILE ILE B B 42 42 .	0.1268	0.0970	0.1154	0.0107	-0.0008	
0.0143	1	.							
3621	CB	CB	. ILE ILE ILE B B 42 42 .	0.0946	0.0610	0.0739	0.0007	-0.0024	
0.0056	1	.							



3652	O	O	. ALA ALA ALA B B 45 45 .	0.1480	0.1314	0.1277	0.0436	0.0051	
0.0089	1	.							
3653	N	N	. LEU LEU LEU B B 46 46 .	0.1301	0.1102	0.1166	0.0111	-0.0009	-
0.0059	1	.							
3654	CA	CA	. LEU LEU LEU B B 46 46 .	0.1370	0.1251	0.1164	0.0235	-0.0109	-
0.0017	1	.							
3655	CB	CB	. LEU LEU LEU B B 46 46 .	0.1742	0.1126	0.1381	0.0205	-0.0232	-
0.0154	1	.							
3656	CG	CG	. LEU LEU LEU B B 46 46 .	0.1971	0.1994	0.2007	0.0211	-0.0206	-
0.0415	1	.							
3657	CD1	CD1	. LEU LEU LEU B B 46 46 .	0.2528	0.2329	0.2762	-0.0702	-0.0138	-
0.0329	1	.							
3658	CD2	CD2	. LEU LEU LEU B B 46 46 .	0.2672	0.2846	0.2426	0.0426	0.0113	-
0.0260	1	.							
3659	C	C	. LEU LEU LEU B B 46 46 .	0.1421	0.1415	0.1233	0.0074	-0.0004	
0.0039	1	.							
3660	O	O	. LEU LEU LEU B B 46 46 .	0.1700	0.1784	0.1555	0.0006	-0.0014	
0.0196	1	.							
3661	N	N	. GLU GLU GLU B B 47 47 .	0.1271	0.1271	0.0988	0.0304	0.0108	
0.0133	1	.							
3662	CA	CA	. GLU GLU GLU B B 47 47 .	0.1095	0.1152	0.0834	0.0280	-0.0012	
0.0052	1	.							
3663	CB	CB	. GLU GLU GLU B B 47 47 .	0.1079	0.1034	0.0967	0.0334	-0.0119	
0.0037	1	.							
3664	CG	CG	. GLU GLU GLU B B 47 47 .	0.1097	0.1260	0.0702	0.0482	-0.0070	-
0.0090	1	.							
3665	CD	CD	. GLU GLU GLU B B 47 47 .	0.1235	0.1425	0.1261	0.0189	-0.0063	-
0.0283	1	.							
3666	OE1	OE1	. GLU GLU GLU B B 47 47 .	0.2148	0.1292	0.1197	0.0116	0.0141	-
0.0145	1	.							
3667	OE2	OE2	. GLU GLU GLU B B 47 47 .	0.1852	0.1699	0.1752	0.0201	0.0247	-
0.0060	1	.							
3668	C	C	. GLU GLU GLU B B 47 47 .	0.1172	0.1064	0.1175	0.0045	0.0036	
0.0029	1	.							
3669	O	O	. GLU GLU GLU B B 47 47 .	0.1411	0.1234	0.1400	-0.0094	0.0172	
0.0114	1	.							
3670	N	N	. LEU LEU LEU B B 48 48 .	0.1166	0.0824	0.0822	0.0267	0.0106	-
0.0174	1	.							
3671	CA	CA	. LEU LEU LEU B B 48 48 .	0.1254	0.1020	0.1088	0.0152	0.0023	-
0.0028	1	.							
3672	CB	CB	. LEU LEU LEU B B 48 48 .	0.1235	0.1022	0.1116	0.0208	0.0205	-
0.0185	1	.							
3673	CG	CG	. LEU LEU LEU B B 48 48 .	0.1297	0.1214	0.1058	-0.0010	0.0210	-
0.0246	1	.							
3674	CD1	CD1	. LEU LEU LEU B B 48 48 .	0.2066	0.1392	0.1605	0.0172	0.0145	-
0.0305	1	.							
3675	CD2	CD2	. LEU LEU LEU B B 48 48 .	0.1437	0.1606	0.1091	-0.0132	-0.0039	
0.0042	1	.							
3676	C	C	. LEU LEU LEU B B 48 48 .	0.1329	0.1140	0.1017	0.0018	0.0009	-
0.0142	1	.							
3677	O	O	. LEU LEU LEU B B 48 48 .	0.1308	0.0951	0.1088	0.0313	-0.0036	-
0.0140	1	.							
3678	N	N	. ARG ARG ARG B B 49 49 .	0.1514	0.1050	0.1355	0.0081	-0.0104	-
0.0136	1	.							
3679	CA	CA	. ARG ARG ARG B B 49 49 .	0.1571	0.1186	0.1173	0.0106	-0.0086	-
0.0203	1	.							
3680	CB	CB	. ARG ARG ARG B B 49 49 .	0.1910	0.1556	0.1389	0.0379	-0.0015	-
0.0227	1	.							
3681	CG	CG	. ARG ARG ARG B B 49 49 .	0.2037	0.1914	0.1934	0.0740	-0.0019	-
0.0631	1	.							





3742	OH	OH	. TYR TYR TYR B B 56 56	. 0.1574 0.1193 0.1305 -0.0233 -0.0159 -
0.0160	1 .			
3743	CE2	CE2	. TYR TYR TYR B B 56 56	. 0.1018 0.1198 0.1291 -0.0071 0.0183
0.0035	1 .			
3744	CD2	CD2	. TYR TYR TYR B B 56 56	. 0.0903 0.1076 0.1010 0.0141 -0.0316 -
0.0022	1 .			
3745	C	C	. TYR TYR TYR B B 56 56	. 0.1712 0.1655 0.1617 -0.0053 -0.0164 -
0.0115	1 .			
3746	O	O	. TYR TYR TYR B B 56 56	. 0.1617 0.1684 0.1636 -0.0028 -0.0120 -
0.0160	1 .			
3747	N	N	. LEU LEU LEU B B 57 57	. 0.1980 0.1893 0.2092 -0.0254 -0.0139 -
0.0088	1 .			
3748	CA	CA	. LEU LEU LEU B B 57 57	. 0.2138 0.2042 0.2233 -0.0188 0.0044 -
0.0002	1 .			
3749	CB	CB	. LEU LEU LEU B B 57 57	. 0.2270 0.2779 0.2744 -0.0309 -0.0074
0.0096	1 .			
3750	CG	CG	. LEU LEU LEU B B 57 57	. 0.2906 0.3451 0.3398 -0.0345 -0.0248
0.0152	1 .			
3751	CD1	CD1	. LEU LEU LEU B B 57 57	. 0.3502 0.3295 0.4471 -0.0136 -0.0302 -
0.0755	1 .			
3752	CD2	CD2	. LEU LEU LEU B B 57 57	. 0.3713 0.4406 0.4591 -0.1002 -0.0099 -
0.0029	1 .			
3753	C	C	. LEU LEU LEU B B 57 57	. 0.2040 0.1942 0.2083 -0.0246 0.0080 -
0.0069	1 .			
3754	O	O	. LEU LEU LEU B B 57 57	. 0.2048 0.2131 0.2100 -0.0262 0.0078 -
0.0099	1 .			
3755	N	N	. GLY GLY GLY B B 58 58	. 0.1830 0.1223 0.1976 -0.0090 0.0072 -
0.0149	1 .			
3756	CA	CA	. GLY GLY GLY B B 58 58	. 0.2001 0.1536 0.1768 -0.0150 -0.0150 -
0.0177	1 .			
3757	C	C	. GLY GLY GLY B B 58 58	. 0.1606 0.1543 0.1735 0.0013 -0.0073 -
0.0022	1 .			
3758	O	O	. GLY GLY GLY B B 58 58	. 0.1787 0.1358 0.1842 0.0046 -0.0277
0.0127	1 .			
3759	N	N	. LYS LYS LYS B B 59 59	. 0.1602 0.1231 0.1581 -0.0149 0.0138
0.0053	1 .			
3760	CA	CA	. LYS LYS LYS B B 59 59	. 0.1169 0.1185 0.1314 0.0008 0.0187 -
0.0091	1 .			
3761	CB	CB	. LYS LYS LYS B B 59 59	. 0.1302 0.1244 0.1587 -0.0023 0.0286 -
0.0043	1 .			
3762	CG	CG	. LYS LYS LYS B B 59 59	. 0.1294 0.1655 0.2253 -0.0056 0.0560
0.0022	1 .			
3763	CD	CD	. LYS LYS LYS B B 59 59	. 0.2128 0.2251 0.3361 0.0538 0.0474
0.0851	1 .			
3764	CE	CE	. LYS LYS LYS B B 59 59	. 0.2312 0.3557 0.3249 -0.0031 0.0523
0.1053	1 .			
3765	NZ	NZ	. LYS LYS LYS B B 59 59	. 0.3293 0.4103 0.3845 0.0747 0.0068
0.1105	1 .			
3766	C	C	. LYS LYS LYS B B 59 59	. 0.1174 0.1070 0.1102 -0.0016 0.0036 -
0.0065	1 .			
3767	O	O	. LYS LYS LYS B B 59 59	. 0.1284 0.1189 0.1288 0.0063 0.0053 -
0.0083	1 .			
3768	N	N	. GLY GLY GLY B B 60 60	. 0.1060 0.1101 0.0977 0.0091 0.0176
0.0123	1 .			
3769	CA	CA	. GLY GLY GLY B B 60 60	. 0.0969 0.1220 0.0953 -0.0162 -0.0001
0.0073	1 .			
3770	C	C	. GLY GLY GLY B B 60 60	. 0.1169 0.1194 0.1150 0.0020 0.0024
0.0002	1 .			
3771	O	O	. GLY GLY GLY B B 60 60	. 0.1488 0.0953 0.1247 -0.0010 0.0014
0.0026	1 .			

3772	N	N	. VAL VAL VAL B B 61 61 .	0.1099	0.0975	0.0882	0.0014	0.0063	-
0.0123	1	.							
3773	CA	CA	. VAL VAL VAL B B 61 61 .	0.1234	0.1093	0.0961	0.0052	0.0094	-
0.0050	1	.							
3774	CB	CB	. VAL VAL VAL B B 61 61 .	0.1091	0.0947	0.0956	0.0105	0.0014	
0.0049	1	.							
3775	CG1	CG1	. VAL VAL VAL B B 61 61 .	0.1205	0.1203	0.1065	-0.0030	0.0252	
0.0251	1	.							
3776	CG2	CG2	. VAL VAL VAL B B 61 61 .	0.0834	0.0852	0.0749	0.0094	-0.0048	
0.0128	1	.							
3777	C	C	. VAL VAL VAL B B 61 61 .	0.1326	0.1120	0.1259	0.0162	-0.0030	-
0.0152	1	.							
3778	O	O	. VAL VAL VAL B B 61 61 .	0.1225	0.1067	0.1138	0.0099	0.0189	-
0.0116	1	.							
3779	N	N	. LEU LEU LEU B B 62 62 .	0.1561	0.1040	0.1081	0.0330	-0.0039	-
0.0032	1	.							
3780	CA	CA	. LEU LEU LEU B B 62 62 .	0.1239	0.1305	0.1258	0.0135	-0.0170	-
0.0096	1	.							
3781	CB	CB	. LEU LEU LEU B B 62 62 .	0.1242	0.1560	0.1072	0.0231	-0.0450	-
0.0140	1	.							
3782	CG	CG	. LEU LEU LEU B B 62 62 .	0.1516	0.1917	0.1834	0.0485	-0.0439	-
0.0344	1	.							
3783	CD1	CD1	. LEU LEU LEU B B 62 62 .	0.1657	0.2381	0.1523	0.0211	-0.0483	-
0.0686	1	.							
3784	CD2	CD2	. LEU LEU LEU B B 62 62 .	0.1006	0.2346	0.1627	0.0394	0.0569	
0.0149	1	.							
3785	C	C	. LEU LEU LEU B B 62 62 .	0.1324	0.1218	0.1299	0.0144	-0.0176	
0.0024	1	.							
3786	O	O	. LEU LEU LEU B B 62 62 .	0.1595	0.1476	0.1509	0.0125	0.0000	-
0.0088	1	.							
3787	N	N	. LYS LYS LYS B B 63 63 .	0.1453	0.1277	0.1221	0.0157	-0.0135	-
0.0114	1	.							
3788	CA	CA	. LYS LYS LYS B B 63 63 .	0.1461	0.1343	0.1344	0.0066	-0.0009	-
0.0080	1	.							
3789	CB	CB	. LYS LYS LYS B B 63 63 .	0.1386	0.1043	0.1465	-0.0014	0.0110	-
0.0127	1	.							
3790	CG	CG	. LYS LYS LYS B B 63 63 .	0.1499	0.1202	0.1386	0.0079	0.0221	-
0.0128	1	.							
3791	CD	CD	. LYS LYS LYS B B 63 63 .	0.1915	0.1268	0.1565	-0.0095	0.0122	
0.0069	1	.							
3792	CE	CE	. LYS LYS LYS B B 63 63 .	0.2395	0.1539	0.1588	-0.0351	0.0087	-
0.0079	1	.							
3793	NZ	NZ	. LYS LYS LYS B B 63 63 .	0.2925	0.1466	0.2665	0.0263	0.0362	-
0.0234	1	.							
3794	C	C	. LYS LYS LYS B B 63 63 .	0.1438	0.1325	0.1288	0.0080	-0.0042	
0.0025	1	.							
3795	O	O	. LYS LYS LYS B B 63 63 .	0.1316	0.1371	0.1223	0.0013	-0.0053	-
0.0103	1	.							
3796	N	N	. ALA ALA ALA B B 64 64 .	0.1471	0.1155	0.0972	0.0228	0.0172	
0.0077	1	.							
3797	CA	CA	. ALA ALA ALA B B 64 64 .	0.1180	0.1303	0.1052	0.0304	0.0069	
0.0085	1	.							
3798	CB	CB	. ALA ALA ALA B B 64 64 .	0.1204	0.1479	0.0782	0.0464	0.0013	-
0.0101	1	.							
3799	C	C	. ALA ALA ALA B B 64 64 .	0.1211	0.1351	0.1289	0.0177	0.0073	-
0.0031	1	.							
3800	O	O	. ALA ALA ALA B B 64 64 .	0.1390	0.1504	0.1148	0.0028	-0.0206	-
0.0120	1	.							
3801	N	N	. VAL VAL VAL B B 65 65 .	0.1065	0.1204	0.0985	0.0326	0.0248	-
0.0203	1	.							





3832	C	C	. ILE ILE ILE B B 68 68 .	0.1334	0.1455	0.1597	0.0329	-0.0033	-
0.0087	1	.							
3833	O	O	. ILE ILE ILE B B 68 68 .	0.1109	0.1868	0.1690	0.0249	0.0118	-
0.0175	1	.							
3834	N	N	. ASN ASN ASN B B 69 69 .	0.1172	0.1600	0.1463	0.0496	0.0152	-
0.0042	1	.							
3835	CA	CA	. ASN ASN ASN B B 69 69 .	0.1374	0.1623	0.1610	0.0459	0.0079	
0.0082	1	.							
3836	CB	CB	. ASN ASN ASN B B 69 69 .	0.1177	0.1411	0.1495	0.0535	0.0000	-
0.0001	1	.							
3837	CG	CG	. ASN ASN ASN B B 69 69 .	0.1059	0.1064	0.1209	0.0498	-0.0120	
0.0190	1	.							
3838	OD1	OD1	. ASN ASN ASN B B 69 69 .	0.0968	0.1598	0.1541	0.0515	-0.0164	
0.0219	1	.							
3839	ND2	ND2	. ASN ASN ASN B B 69 69 .	0.0956	0.1888	0.1371	-0.0144	0.0079	
0.0258	1	.							
3840	C	C	. ASN ASN ASN B B 69 69 .	0.1210	0.1763	0.1735	0.0358	0.0181	
0.0016	1	.							
3841	O	O	. ASN ASN ASN B B 69 69 .	0.1386	0.2174	0.1954	0.0372	0.0212	
0.0109	1	.							
3842	N	N	. SER SER SER B B 70 70 .	0.1385	0.2020	0.1778	0.0607	0.0190	-
0.0153	1	.							
3843	CA	CA	. SER SER SER B B 70 70 .	0.1671	0.2121	0.1918	0.0537	0.0061	-
0.0142	1	.							
3844	CB	CB	. SER SER SER B B 70 70 .	0.1720	0.2250	0.2185	0.0584	-0.0105	-
0.0361	1	.							
3845	OG	OG	. SER SER SER B B 70 70 .	0.2661	0.3041	0.2419	0.0509	0.0126	-
0.0192	1	.							
3846	C	C	. SER SER SER B B 70 70 .	0.1537	0.2175	0.1850	0.0443	0.0069	-
0.0139	1	.							
3847	O	O	. SER SER SER B B 70 70 .	0.1584	0.2258	0.2064	0.0538	0.0246	-
0.0268	1	.							
3848	N	N	. THR THR THR B B 71 71 .	0.1333	0.1926	0.1716	0.0394	0.0109	-
0.0183	1	.							
3849	CA	CA	. THR THR THR B B 71 71 .	0.1534	0.1815	0.1694	0.0339	0.0008	-
0.0034	1	.							
3850	CB	CB	. THR THR THR B B 71 71 .	0.1241	0.1985	0.1827	0.0255	-0.0046	-
0.0105	1	.							
3851	OG1	OG1	. THR THR THR B B 71 71 .	0.1291	0.1899	0.2151	0.0395	0.0074	-
0.0236	1	.							
3852	CG2	CG2	. THR THR THR B B 71 71 .	0.1727	0.2273	0.2020	0.0176	-0.0395	-
0.0116	1	.							
3853	C	C	. THR THR THR B B 71 71 .	0.1453	0.1774	0.1685	0.0250	0.0074	
0.0074	1	.							
3854	O	O	. THR THR THR B B 71 71 .	0.1291	0.1934	0.1690	0.0312	0.0002	
0.0170	1	.							
3855	N	N	. ILE ILE ILE B B 72 72 .	0.1143	0.1570	0.1630	0.0320	0.0061	
0.0272	1	.							
3856	CA	CA	. ILE ILE ILE B B 72 72 .	0.1089	0.1194	0.1259	0.0294	0.0012	
0.0059	1	.							
3857	CB	CB	. ILE ILE ILE B B 72 72 .	0.1066	0.1239	0.1333	0.0171	0.0124	
0.0115	1	.							
3858	CG1	CG1	. ILE ILE ILE B B 72 72 .	0.1041	0.1228	0.1641	0.0747	0.0394	
0.0021	1	.							
3859	CD1	CD1	. ILE ILE ILE B B 72 72 .	0.0910	0.1809	0.1634	0.0900	0.0552	
0.0391	1	.							
3860	CG2	CG2	. ILE ILE ILE B B 72 72 .	0.1301	0.1755	0.1568	0.0244	-0.0314	
0.0059	1	.							
3861	C	C	. ILE ILE ILE B B 72 72 .	0.1218	0.1472	0.1522	0.0231	-0.0029	-
0.0068	1	.							

3862	O	O	. ILE ILE ILE B B 72 72 .	0.1415	0.1789	0.1776	0.0157	-0.0219	
0.0082	1	.							
3863	N	N	. ALA ALA ALA B B 73 73 .	0.1111	0.1429	0.1529	0.0245	-0.0098	-
0.0001	1	.							
3864	CA	CA	. ALA ALA ALA B B 73 73 .	0.0999	0.1746	0.1346	0.0222	-0.0025	
0.0128	1	.							
3865	CB	CB	. ALA ALA ALA B B 73 73 .	0.1427	0.1744	0.1872	0.0250	-0.0210	
0.0174	1	.							
3866	C	C	. ALA ALA ALA B B 73 73 .	0.1263	0.1815	0.1698	0.0260	-0.0168	-
0.0003	1	.							
3867	O	O	. ALA ALA ALA B B 73 73 .	0.0998	0.1842	0.2077	0.0170	-0.0090	
0.0188	1	.							
3868	N	N	. PRO PRO PRO B B 74 74 .	0.1225	0.1737	0.1723	0.0273	-0.0014	
0.0037	1	.							
3869	CA	CA	. PRO PRO PRO B B 74 74 .	0.1341	0.1802	0.1803	0.0366	-0.0143	-
0.0017	1	.							
3870	CB	CB	. PRO PRO PRO B B 74 74 .	0.1295	0.1890	0.1622	0.0330	-0.0284	-
0.0119	1	.							
3871	CG	CG	. PRO PRO PRO B B 74 74 .	0.1590	0.1883	0.2022	0.0316	0.0194	-
0.0120	1	.							
3872	CD	CD	. PRO PRO PRO B B 74 74 .	0.1115	0.1734	0.1773	0.0427	-0.0115	-
0.0081	1	.							
3873	C	C	. PRO PRO PRO B B 74 74 .	0.1495	0.1726	0.1549	0.0195	0.0001	
0.0023	1	.							
3874	O	O	. PRO PRO PRO B B 74 74 .	0.1757	0.1766	0.1906	0.0311	-0.0256	
0.0056	1	.							
3875	N	N	. ALA ALA ALA B B 75 75 .	0.1441	0.1364	0.1706	0.0206	0.0070	-
0.0002	1	.							
3876	CA	CA	. ALA ALA ALA B B 75 75 .	0.1435	0.1561	0.1608	0.0217	0.0064	-
0.0014	1	.							
3877	CB	CB	. ALA ALA ALA B B 75 75 .	0.1500	0.1573	0.1582	0.0155	0.0021	
0.0275	1	.							
3878	C	C	. ALA ALA ALA B B 75 75 .	0.1472	0.1619	0.1724	0.0246	-0.0031	
0.0048	1	.							
3879	O	O	. ALA ALA ALA B B 75 75 .	0.1380	0.1655	0.1840	0.0461	-0.0057	-
0.0030	1	.							
3880	N	N	. LEU LEU LEU B B 76 76 .	0.1249	0.1496	0.1542	0.0437	-0.0192	
0.0128	1	.							
3881	CA	CA	. LEU LEU LEU B B 76 76 .	0.1230	0.1487	0.1735	0.0416	-0.0033	
0.0076	1	.							
3882	CB	CB	. LEU LEU LEU B B 76 76 .	0.1204	0.1496	0.1744	0.0381	-0.0088	
0.0172	1	.							
3883	CG	CG	. LEU LEU LEU B B 76 76 .	0.1723	0.2132	0.2188	0.0349	0.0027	
0.0191	1	.							
3884	CD1	CD1	. LEU LEU LEU B B 76 76 .	0.0998	0.1891	0.2456	0.0394	0.0021	
0.0360	1	.							
3885	CD2	CD2	. LEU LEU LEU B B 76 76 .	0.0767	0.2925	0.2356	0.0511	0.0048	
0.0685	1	.							
3886	C	C	. LEU LEU LEU B B 76 76 .	0.1274	0.1526	0.1795	0.0334	-0.0098	
0.0008	1	.							
3887	O	O	. LEU LEU LEU B B 76 76 .	0.1396	0.1816	0.1999	0.0133	-0.0157	
0.0134	1	.							
3888	N	N	. ILE ILE ILE B B 77 77 .	0.1073	0.1737	0.1948	0.0295	0.0047	-
0.0003	1	.							
3889	CA	CA	. ILE ILE ILE B B 77 77 .	0.1422	0.1851	0.2017	0.0281	-0.0033	
0.0240	1	.							
3890	CB	CB	. ILE ILE ILE B B 77 77 .	0.1218	0.1825	0.2054	0.0227	0.0024	
0.0098	1	.							
3891	CG1	CG1	. ILE ILE ILE B B 77 77 .	0.1445	0.1885	0.2178	0.0367	0.0006	
0.0053	1	.							

3892	CD1	CD1	. ILE ILE ILE B B 77 77	. 0.2007 0.2306 0.2282 0.0391 -0.0045 -
0.0343	1 .			
3893	CG2	CG2	. ILE ILE ILE B B 77 77	. 0.1925 0.2019 0.1843 0.0147 0.0011
0.0626	1 .			
3894	C	C	. ILE ILE ILE B B 77 77	. 0.1517 0.1914 0.2274 0.0165 0.0126
0.0028	1 .			
3895	O	O	. ILE ILE ILE B B 77 77	. 0.0956 0.1652 0.2260 0.0104 0.0024
0.0203	1 .			
3896	N	N	. SER SER SER B B 78 78	. 0.1696 0.1668 0.2304 0.0196 0.0007
0.0277	1 .			
3897	CA	CA	. SER SER SER B B 78 78	. 0.1770 0.1958 0.2536 0.0170 0.0107
0.0078	1 .			
3898	CB	CB	. SER SER SER B B 78 78	. 0.2214 0.2314 0.2592 0.0308 -0.0004 -
0.0240	1 .			
3899	OG	OG	. SER SER SER B B 78 78	. 0.2325 0.3480 0.2878 0.0363 0.0086 -
0.0129	1 .			
3900	C	C	. SER SER SER B B 78 78	. 0.1922 0.1699 0.2396 0.0119 0.0074 -
0.0047	1 .			
3901	O	O	. SER SER SER B B 78 78	. 0.2148 0.1920 0.2590 0.0144 -0.0211 -
0.0093	1 .			
3902	N	N	. SER SER SER B B 79 79	. 0.1917 0.1892 0.2408 0.0257 -0.0002 -
0.0065	1 .			
3903	CA	CA	. SER SER SER B B 79 79	. 0.1983 0.1979 0.2387 0.0235 0.0074
0.0016	1 .			
3904	CB	CB	. SER SER SER B B 79 79	. 0.1664 0.1897 0.2276 0.0118 0.0121
0.0040	1 .			
3905	OG	OG	. SER SER SER B B 79 79	. 0.1753 0.2316 0.2361 0.0263 0.0185
0.0113	1 .			
3906	C	C	. SER SER SER B B 79 79	. 0.1983 0.2134 0.2464 0.0178 -0.0033
0.0048	1 .			
3907	O	O	. SER SER SER B B 79 79	. 0.2320 0.2312 0.2965 0.0169 -0.0072 -
0.0029	1 .			
3908	N	N	. GLY GLY GLY B B 80 80	. 0.1773 0.2147 0.2536 0.0193 -0.0139
0.0151	1 .			
3909	CA	CA	. GLY GLY GLY B B 80 80	. 0.2002 0.2192 0.2436 0.0110 -0.0107
0.0131	1 .			
3910	C	C	. GLY GLY GLY B B 80 80	. 0.2076 0.2127 0.2410 0.0032 -0.0162
0.0082	1 .			
3911	O	O	. GLY GLY GLY B B 80 80	. 0.2153 0.2400 0.2639 -0.0071 -0.0069
0.0065	1 .			
3912	N	N	. LEU LEU LEU B B 81 81	. 0.1808 0.2007 0.2282 0.0130 -0.0276
0.0159	1 .			
3913	CA	CA	. LEU LEU LEU B B 81 81	. 0.1920 0.1980 0.2473 0.0165 -0.0268
0.0134	1 .			
3914	CB	CB	. LEU LEU LEU B B 81 81	. 0.2132 0.2280 0.2356 0.0365 -0.0238
0.0264	1 .			
3915	CG	CG	. LEU LEU LEU B B 81 81	. 0.2082 0.1895 0.2485 0.0463 -0.0395
0.0029	1 .			
3916	CD1	CD1	. LEU LEU LEU B B 81 81	. 0.2185 0.2182 0.2499 0.0391 -0.0323
0.0027	1 .			
3917	CD2	CD2	. LEU LEU LEU B B 81 81	. 0.2500 0.2043 0.2274 0.0366 -0.0487
0.0253	1 .			
3918	C	C	. LEU LEU LEU B B 81 81	. 0.2076 0.2041 0.2419 0.0196 -0.0176
0.0157	1 .			
3919	O	O	. LEU LEU LEU B B 81 81	. 0.2275 0.1999 0.2500 0.0089 -0.0213
0.0208	1 .			
3920	N	N	. SER SER SER B B 82 82	. 0.1876 0.1876 0.2577 0.0048 -0.0161
0.0137	1 .			
3921	CA	CA	. SER SER SER B B 82 82	. 0.1961 0.1873 0.2545 -0.0010 -0.0114
0.0088	1 .			





3982	C	C	. LEU LEU LEU B B 89 89	. 0.1374 0.1455 0.1603 0.0031 -0.0256
0.0119	1	.		
3983	O	O	. LEU LEU LEU B B 89 89	. 0.1378 0.1351 0.1545 0.0079 -0.0341
0.0142	1	.		
3984	N	N	. ASP ASP ASP B B 90 90	. 0.1309 0.1408 0.1303 -0.0025 -0.0233
0.0075	1	.		
3985	CA	CA	. ASP ASP ASP B B 90 90	. 0.1436 0.1403 0.1415 -0.0078 -0.0118
0.0052	1	.		
3986	CB	CB	. ASP ASP ASP B B 90 90	. 0.1756 0.1589 0.1889 0.0270 -0.0110
0.0305	1	.		
3987	CG	CG	. ASP ASP ASP B B 90 90	. 0.1710 0.1686 0.1902 0.0201 -0.0096
0.0200	1	.		
3988	OD1	OD1	. ASP ASP ASP B B 90 90	. 0.1889 0.1546 0.1765 0.0153 0.0023
0.0002	1	.		
3989	OD2	OD2	. ASP ASP ASP B B 90 90	. 0.1741 0.1713 0.1751 0.0238 -0.0011
0.0212	1	.		
3990	C	C	. ASP ASP ASP B B 90 90	. 0.1569 0.1483 0.1633 0.0029 -0.0219 -
0.0037	1	.		
3991	O	O	. ASP ASP ASP B B 90 90	. 0.1852 0.1557 0.1634 -0.0116 -0.0192
0.0105	1	.		
3992	N	N	. ASN ASN ASN B B 91 91	. 0.1569 0.1546 0.1953 0.0079 -0.0268
0.0082	1	.		
3993	CA	CA	. ASN ASN ASN B B 91 91	. 0.1853 0.1850 0.2005 0.0090 -0.0242
0.0024	1	.		
3994	CB	CB	. ASN ASN ASN B B 91 91	. 0.2167 0.2440 0.2431 0.0041 -0.0299
0.0088	1	.		
3995	CG	CG	. ASN ASN ASN B B 91 91	. 0.2873 0.2723 0.2106 -0.0106 -0.0358
0.0469	1	.		
3996	OD1	OD1	. ASN ASN ASN B B 91 91	. 0.4482 0.3256 0.3401 -0.0395 -0.0184
0.0213	1	.		
3997	ND2	ND2	. ASN ASN ASN B B 91 91	. 0.3301 0.4379 0.2142 -0.0465 -0.0214
0.0487	1	.		
3998	C	C	. ASN ASN ASN B B 91 91	. 0.1782 0.1847 0.1975 0.0010 -0.0135
0.0032	1	.		
3999	O	O	. ASN ASN ASN B B 91 91	. 0.1551 0.1937 0.2089 0.0228 -0.0175 -
0.0056	1	.		
4000	N	N	. LEU LEU LEU B B 92 92	. 0.1654 0.2003 0.1784 0.0122 -0.0251 -
0.0104	1	.		
4001	CA	CA	. LEU LEU LEU B B 92 92	. 0.1344 0.1842 0.1836 0.0229 -0.0119 -
0.0055	1	.		
4002	CB	CB	. LEU LEU LEU B B 92 92	. 0.1838 0.1934 0.1909 0.0226 -0.0100
0.0121	1	.		
4003	CG	CG	. LEU LEU LEU B B 92 92	. 0.1794 0.1596 0.2247 0.0387 0.0010
0.0108	1	.		
4004	CD1	CD1	. LEU LEU LEU B B 92 92	. 0.1345 0.1316 0.2429 0.0600 -0.0257 -
0.0102	1	.		
4005	CD2	CD2	. LEU LEU LEU B B 92 92	. 0.1512 0.1541 0.2458 0.0278 0.0212
0.0245	1	.		
4006	C	C	. LEU LEU LEU B B 92 92	. 0.1400 0.1544 0.1790 0.0316 -0.0026 -
0.0160	1	.		
4007	O	O	. LEU LEU LEU B B 92 92	. 0.1466 0.1611 0.1847 0.0341 -0.0078 -
0.0087	1	.		
4008	N	N	. MET MET MET B B 93 93	. 0.1231 0.1537 0.1628 0.0288 -0.0280
0.0136	1	.		
4009	CA	CA	. MET MET MET B B 93 93	. 0.1021 0.1190 0.1488 0.0353 -0.0132
0.0111	1	.		
4010	CB	CB	. MET MET MET B B 93 93	. 0.0924 0.1521 0.1625 0.0501 -0.0064
0.0175	1	.		
4011	CG	CG	. MET MET MET B B 93 93	. 0.1133 0.0943 0.1564 0.0439 0.0082
0.0000	1	.		

4012	SD	SD	. MET MET MET B B 93 93	. 0.1404 0.1681 0.1429 0.0299 -0.0048
0.0066	1	.		
4013	CE	CE	. MET MET MET B B 93 93	. 0.1103 0.1190 0.1296 0.0390 -0.0239 -
0.0354	1	.		
4014	C	C	. MET MET MET B B 93 93	. 0.0946 0.1318 0.1360 0.0262 -0.0058
0.0031	1	.		
4015	O	O	. MET MET MET B B 93 93	. 0.1132 0.1288 0.1554 0.0270 0.0065
0.0124	1	.		
4016	N	N	. LEU LEU LEU B B 94 94	. 0.0950 0.1235 0.1249 0.0264 -0.0022
0.0218	1	.		
4017	CA	CA	. LEU LEU LEU B B 94 94	. 0.1464 0.1461 0.1483 0.0350 -0.0023
0.0059	1	.		
4018	CB	CB	. LEU LEU LEU B B 94 94	. 0.1599 0.1686 0.1361 0.0267 0.0200 -
0.0076	1	.		
4019	CG	CG	. LEU LEU LEU B B 94 94	. 0.2337 0.2563 0.2016 0.0671 0.0058 -
0.0357	1	.		
4020	CD1	CD1	. LEU LEU LEU B B 94 94	. 0.1824 0.2657 0.1661 0.0869 0.0624
0.0028	1	.		
4021	CD2	CD2	. LEU LEU LEU B B 94 94	. 0.1760 0.3555 0.2681 0.0265 0.0005 -
0.0842	1	.		
4022	C	C	. LEU LEU LEU B B 94 94	. 0.1517 0.1420 0.1563 0.0164 -0.0081
0.0067	1	.		
4023	O	O	. LEU LEU LEU B B 94 94	. 0.1866 0.1160 0.1634 0.0226 -0.0354
0.0178	1	.		
4024	N	N	. GLU GLU GLU B B 95 95	. 0.1713 0.1737 0.1729 0.0212 -0.0053
0.0072	1	.		
4025	CA	CA	. GLU GLU GLU B B 95 95	. 0.1712 0.1698 0.1644 0.0212 0.0089 -
0.0101	1	.		
4026	CB	CB	. GLU GLU GLU B B 95 95	. 0.1975 0.1996 0.1799 0.0211 -0.0077 -
0.0285	1	.		
4027	CG	CG	. GLU GLU GLU B B 95 95	. 0.3188 0.3529 0.2854 0.0190 -0.0298 -
0.0317	1	.		
4028	CD	CD	. GLU GLU GLU B B 95 95	. 0.4688 0.4674 0.4152 -0.0152 -0.0340
0.0343	1	.		
4029	OE1	OE1	. GLU GLU GLU B B 95 95	. 0.5362 0.5973 0.5196 -0.0349 -0.0931
0.0123	1	.		
4030	OE2	OE2	. GLU GLU GLU B B 95 95	. 0.5348 0.5232 0.4894 -0.0567 -0.0510 -
0.0203	1	.		
4031	C	C	. GLU GLU GLU B B 95 95	. 0.1548 0.1723 0.1728 0.0067 -0.0025 -
0.0022	1	.		
4032	O	O	. GLU GLU GLU B B 95 95	. 0.1634 0.1737 0.1822 0.0387 -0.0071 -
0.0006	1	.		
4033	N	N	. LEU LEU LEU B B 96 96	. 0.1475 0.1763 0.1748 0.0183 0.0147
0.0106	1	.		
4034	CA	CA	. LEU LEU LEU B B 96 96	. 0.1464 0.1689 0.1671 0.0264 0.0003
0.0109	1	.		
4035	CB	CB	. LEU LEU LEU B B 96 96	. 0.1500 0.1853 0.1933 0.0204 0.0208
0.0266	1	.		
4036	CG	CG	. LEU LEU LEU B B 96 96	. 0.2228 0.2245 0.2722 0.0649 0.0286
0.0354	1	.		
4037	CD1	CD1	. LEU LEU LEU B B 96 96	. 0.3070 0.2955 0.3431 0.0590 0.0227
0.0897	1	.		
4038	CD2	CD2	. LEU LEU LEU B B 96 96	. 0.2219 0.3465 0.2162 0.1237 0.0479
0.0222	1	.		
4039	C	C	. LEU LEU LEU B B 96 96	. 0.1651 0.1740 0.1759 0.0298 0.0008
0.0020	1	.		
4040	O	O	. LEU LEU LEU B B 96 96	. 0.1556 0.1729 0.1909 0.0500 -0.0064
0.0005	1	.		
4041	N	N	. ASP ASP ASP B B 97 97	. 0.1379 0.1704 0.1747 0.0209 0.0086
0.0058	1	.		

4042	CA	CA	. ASP ASP ASP B B 97 97	. 0.1521 0.1318 0.1616 0.0145 0.0035
0.0196	1	.		
4043	CB	CB	. ASP ASP ASP B B 97 97	. 0.1261 0.1324 0.1513 0.0182 0.0189
0.0219	1	.		
4044	CG	CG	. ASP ASP ASP B B 97 97	. 0.1581 0.1678 0.1490 0.0253 0.0147
0.0084	1	.		
4045	OD1	OD1	. ASP ASP ASP B B 97 97	. 0.1656 0.2144 0.1965 -0.0019 0.0493 -
0.0052	1	.		
4046	OD2	OD2	. ASP ASP ASP B B 97 97	. 0.1945 0.1992 0.1759 0.0497 -0.0098
0.0329	1	.		
4047	C	C	. ASP ASP ASP B B 97 97	. 0.1557 0.1491 0.1855 0.0255 -0.0077
0.0113	1	.		
4048	O	O	. ASP ASP ASP B B 97 97	. 0.1546 0.1201 0.1835 0.0333 -0.0136
0.0009	1	.		
4049	N	N	. GLY GLY GLY B B 98 98	. 0.1828 0.1538 0.1704 0.0281 -0.0158
0.0296	1	.		
4050	CA	CA	. GLY GLY GLY B B 98 98	. 0.1736 0.1646 0.1856 0.0257 -0.0049
0.0452	1	.		
4051	C	C	. GLY GLY GLY B B 98 98	. 0.1908 0.1762 0.1942 0.0245 0.0002
0.0399	1	.		
4052	O	O	. GLY GLY GLY B B 98 98	. 0.1789 0.1872 0.2300 0.0431 0.0044
0.0535	1	.		
4053	N	N	. THR THR THR B B 99 99	. 0.1754 0.1736 0.1700 0.0259 -0.0094
0.0357	1	.		
4054	CA	CA	. THR THR THR B B 99 99	. 0.1719 0.1635 0.1946 0.0085 0.0005
0.0089	1	.		
4055	CB	CB	. THR THR THR B B 99 99	. 0.1780 0.1676 0.1851 0.0005 -0.0053
0.0013	1	.		
4056	OG1	OG1	. THR THR THR B B 99 99	. 0.1578 0.1585 0.1747 0.0182 0.0036
0.0018	1	.		
4057	CG2	CG2	. THR THR THR B B 99 99	. 0.1445 0.1684 0.1795 0.0050 -0.0146 -
0.0060	1	.		
4058	C	C	. THR THR THR B B 99 99	. 0.1934 0.1795 0.1963 -0.0004 0.0147
0.0097	1	.		
4059	O	O	. THR THR THR B B 99 99	. 0.2178 0.1820 0.2324 0.0024 0.0509 -
0.0094	1	.		
4060	N	N	. GLU GLU GLU B B 100 100	. 0.1928 0.1954 0.1918 0.0158 0.0067
0.0059	1	.		
4061	CA	CA	. GLU GLU GLU B B 100 100	. 0.2056 0.2149 0.2225 0.0256 0.0160
0.0274	1	.		
4062	CB	CB	. GLU GLU GLU B B 100 100	. 0.2258 0.2304 0.2348 0.0161 0.0461
0.0388	1	.		
4063	CG	CG	. GLU GLU GLU B B 100 100	. 0.3731 0.3580 0.3322 0.0134 0.0295 -
0.0075	1	.		
4064	CD	CD	. GLU GLU GLU B B 100 100	. 0.5515 0.4982 0.4527 -0.0088 -0.0439 -
0.0141	1	.		
4065	OE1	OE1	. GLU GLU GLU B B 100 100	. 0.6044 0.6224 0.5244 0.0575 -0.0679 -
0.0056	1	.		
4066	OE2	OE2	. GLU GLU GLU B B 100 100	. 0.7037 0.5039 0.5109 0.0096 0.0043 -
0.0711	1	.		
4067	C	C	. GLU GLU GLU B B 100 100	. 0.1803 0.1857 0.1821 0.0177 -0.0066
0.0391	1	.		
4068	O	O	. GLU GLU GLU B B 100 100	. 0.1845 0.2183 0.2022 0.0165 -0.0319
0.0203	1	.		
4069	N	N	. ASN ASN ASN B B 101 101	. 0.1724 0.1689 0.1503 0.0183 0.0093
0.0423	1	.		
4070	CA	CA	. ASN ASN ASN B B 101 101	. 0.1619 0.1748 0.1547 0.0096 -0.0002
0.0405	1	.		
4071	CB	CB	. ASN ASN ASN B B 101 101	. 0.2162 0.2145 0.1948 -0.0085 -0.0162
0.0397	1	.		



4072	CG	CG	. ASN ASN ASN B B 101 101 .	0.3042	0.2884	0.3061	-0.0046	-0.0122	
0.0371	1	.							
4073	OD1	OD1	. ASN ASN ASN B B 101 101 .	0.3601	0.4945	0.4638	-0.0558	0.0177	
0.1012	1	.							
4074	ND2	ND2	. ASN ASN ASN B B 101 101 .	0.3410	0.4543	0.3704	-0.0689	0.0246	
0.0329	1	.							
4075	C	C	. ASN ASN ASN B B 101 101 .	0.1625	0.1544	0.1571	0.0096	-0.0063	
0.0203	1	.							
4076	O	O	. ASN ASN ASN B B 101 101 .	0.1361	0.1358	0.1501	0.0012	-0.0092	
0.0108	1	.							
4077	N	N	. LYS LYS LYS B B 102 102 .	0.1229	0.1160	0.1256	0.0318	0.0125	
0.0120	1	.							
4078	CA	CA	. LYS LYS LYS B B 102 102 .	0.1463	0.1273	0.1439	0.0168	0.0110	
0.0021	1	.							
4079	CB	CB	. LYS LYS LYS B B 102 102 .	0.1500	0.1064	0.1453	-0.0030	0.0064	
0.0176	1	.							
4080	CG	CG	. LYS LYS LYS B B 102 102 .	0.1258	0.0953	0.1397	0.0391	-0.0071	
0.0141	1	.							
4081	CD	CD	. LYS LYS LYS B B 102 102 .	0.1192	0.0960	0.1735	0.0074	-0.0400	-
0.0085	1	.							
4082	CE	CE	. LYS LYS LYS B B 102 102 .	0.1076	0.1466	0.0956	0.0015	-0.0425	
0.0274	1	.							
4083	NZ	NZ	. LYS LYS LYS B B 102 102 .	0.1887	0.1676	0.1365	-0.0036	-0.0481	
0.0604	1	.							
4084	C	C	. LYS LYS LYS B B 102 102 .	0.1378	0.1476	0.1547	0.0117	0.0136	
0.0047	1	.							
4085	O	O	. LYS LYS LYS B B 102 102 .	0.1457	0.1407	0.1132	0.0083	0.0025	
0.0037	1	.							
4086	N	N	. SER SER SER B B 103 103 .	0.1517	0.1540	0.1575	0.0048	0.0232	
0.0106	1	.							
4087	CA	CA	. SER SER SER B B 103 103 .	0.1702	0.1567	0.1786	-0.0048	0.0224	-
0.0058	1	.							
4088	CB	CB	. SER SER SER B B 103 103 .	0.1786	0.1581	0.2068	0.0096	0.0113	
0.0127	1	.							
4089	OG	OG	. SER SER SER B B 103 103 .	0.2188	0.1667	0.2678	0.0132	-0.0294	
0.0194	1	.							
4090	C	C	. SER SER SER B B 103 103 .	0.1782	0.1759	0.1868	-0.0095	0.0180	-
0.0089	1	.							
4091	O	O	. SER SER SER B B 103 103 .	0.2001	0.2267	0.2111	-0.0185	0.0241	-
0.0276	1	.							
4092	N	N	. LYS LYS LYS B B 104 104 .	0.1305	0.1625	0.1499	0.0082	0.0310	-
0.0154	1	.							
4093	CA	CA	. LYS LYS LYS B B 104 104 .	0.1623	0.1623	0.1403	0.0099	0.0190	
0.0070	1	.							
4094	CB	CB	. LYS LYS LYS B B 104 104 .	0.1303	0.1750	0.1032	0.0084	0.0053	
0.0022	1	.							
4095	CG	CG	. LYS LYS LYS B B 104 104 .	0.2058	0.1270	0.1595	0.0201	0.0195	-
0.0104	1	.							
4096	CD	CD	. LYS LYS LYS B B 104 104 .	0.3225	0.2326	0.2146	0.0196	0.0205	-
0.0354	1	.							
4097	CE	CE	. LYS LYS LYS B B 104 104 .	0.2669	0.3099	0.3280	0.0439	0.0268	-
0.0604	1	.							
4098	NZ	NZ	. LYS LYS LYS B B 104 104 .	0.3155	0.3296	0.3746	0.0515	0.0369	-
0.0970	1	.							
4099	C	C	. LYS LYS LYS B B 104 104 .	0.1431	0.1628	0.1358	0.0129	-0.0152	
0.0033	1	.							
4100	O	O	. LYS LYS LYS B B 104 104 .	0.1998	0.1708	0.1294	0.0174	0.0029	-
0.0038	1	.							
4101	N	N	. PHE PHE PHE B B 105 105 .	0.1054	0.1221	0.1342	0.0390	0.0122	
0.0220	1	.							

4102	CA	CA	. PHE PHE PHE B B 105 105 .	0.1117	0.1335	0.1419	0.0295	0.0015	
0.0159	1	.							
4103	CB	CB	. PHE PHE PHE B B 105 105 .	0.0724	0.1652	0.1574	0.0285	0.0021	
0.0127	1	.							
4104	CG	CG	. PHE PHE PHE B B 105 105 .	0.1277	0.2111	0.1498	0.0415	-0.0006	-
0.0074	1	.							
4105	CD1	CD1	. PHE PHE PHE B B 105 105 .	0.1280	0.1718	0.2000	0.0381	0.0086	
0.0450	1	.							
4106	CE1	CE1	. PHE PHE PHE B B 105 105 .	0.1422	0.2295	0.1651	0.0517	0.0268	
0.0570	1	.							
4107	CZ	CZ	. PHE PHE PHE B B 105 105 .	0.1783	0.2367	0.2704	0.0150	-0.0188	
0.0137	1	.							
4108	CE2	CE2	. PHE PHE PHE B B 105 105 .	0.1688	0.2895	0.2612	0.0128	-0.0186	
0.0244	1	.							
4109	CD2	CD2	. PHE PHE PHE B B 105 105 .	0.1309	0.1758	0.1943	0.0814	-0.0033	
0.0059	1	.							
4110	C	C	. PHE PHE PHE B B 105 105 .	0.1259	0.1405	0.1389	0.0349	0.0114	
0.0104	1	.							
4111	O	O	. PHE PHE PHE B B 105 105 .	0.1334	0.1493	0.1541	0.0582	-0.0018	-
0.0201	1	.							
4112	N	N	. GLY GLY GLY B B 106 106 .	0.1293	0.1398	0.1380	0.0305	0.0103	
0.0040	1	.							
4113	CA	CA	. GLY GLY GLY B B 106 106 .	0.1292	0.1258	0.1307	0.0218	0.0140	
0.0164	1	.							
4114	C	C	. GLY GLY GLY B B 106 106 .	0.0988	0.1177	0.1260	0.0127	0.0020	
0.0173	1	.							
4115	O	O	. GLY GLY GLY B B 106 106 .	0.1251	0.1169	0.1428	0.0197	0.0244	
0.0342	1	.							
4116	N	N	. ALA ALA ALA B B 107 107 .	0.1143	0.1178	0.1054	0.0192	-0.0061	
0.0012	1	.							
4117	CA	CA	. ALA ALA ALA B B 107 107 .	0.1189	0.1208	0.1229	0.0060	-0.0014	
0.0181	1	.							
4118	CB	CB	. ALA ALA ALA B B 107 107 .	0.1327	0.1418	0.0981	0.0184	0.0153	
0.0180	1	.							
4119	C	C	. ALA ALA ALA B B 107 107 .	0.1247	0.1228	0.1256	0.0057	0.0026	
0.0159	1	.							
4120	O	O	. ALA ALA ALA B B 107 107 .	0.0999	0.1041	0.1256	-0.0055	0.0025	
0.0184	1	.							
4121	N	N	. ASN ASN ASN B B 108 108 .	0.1078	0.1139	0.1206	0.0253	-0.0037	
0.0242	1	.							
4122	CA	CA	. ASN ASN ASN B B 108 108 .	0.1256	0.1117	0.1433	0.0069	-0.0023	
0.0272	1	.							
4123	CB	CB	. ASN ASN ASN B B 108 108 .	0.0914	0.0792	0.1315	0.0017	-0.0086	-
0.0068	1	.							
4124	CG	CG	. ASN ASN ASN B B 108 108 .	0.1539	0.1178	0.1570	0.0147	-0.0131	
0.0106	1	.							
4125	OD1	OD1	. ASN ASN ASN B B 108 108 .	0.1410	0.1179	0.1077	0.0098	-0.0208	-
0.0116	1	.							
4126	ND2	ND2	. ASN ASN ASN B B 108 108 .	0.1171	0.1468	0.1358	0.0003	-0.0001	
0.0129	1	.							
4127	C	C	. ASN ASN ASN B B 108 108 .	0.1296	0.1178	0.1493	0.0191	0.0017	
0.0255	1	.							
4128	O	O	. ASN ASN ASN B B 108 108 .	0.1532	0.1199	0.1973	-0.0072	0.0195	
0.0282	1	.							
4129	N	N	. ALA ALA ALA B B 109 109 .	0.1073	0.1172	0.1355	0.0217	0.0192	
0.0160	1	.							
4130	CA	CA	. ALA ALA ALA B B 109 109 .	0.1159	0.1146	0.1236	0.0176	-0.0041	
0.0238	1	.							
4131	CB	CB	. ALA ALA ALA B B 109 109 .	0.1328	0.1132	0.1180	0.0181	0.0177	-
0.0157	1	.							

4132	C	C	. ALA ALA ALA B B 109 109 .	0.1129	0.1086	0.0924	0.0039	0.0004	
0.0087	1	.							
4133	O	O	. ALA ALA ALA B B 109 109 .	0.1182	0.1116	0.0966	0.0112	-0.0217	
0.0045	1	.							
4134	N	N	. ILE ILE ILE B B 110 110 .	0.1048	0.1087	0.1117	0.0075	-0.0092	
0.0163	1	.							
4135	CA	CA	. ILE ILE ILE B B 110 110 .	0.1003	0.1089	0.0885	0.0109	-0.0061	
0.0144	1	.							
4136	CB	CB	. ILE ILE ILE B B 110 110 .	0.1301	0.1113	0.0983	0.0169	-0.0193	
0.0153	1	.							
4137	CG1	CG1	. ILE ILE ILE B B 110 110 .	0.1622	0.1261	0.1195	0.0236	0.0049	-
0.0012	1	.							
4138	CD1	CD1	. ILE ILE ILE B B 110 110 .	0.2226	0.1419	0.1186	0.0301	-0.0077	
0.0013	1	.							
4139	CG2	CG2	. ILE ILE ILE B B 110 110 .	0.1326	0.0797	0.1116	0.0165	-0.0478	
0.0036	1	.							
4140	C	C	. ILE ILE ILE B B 110 110 .	0.1052	0.1125	0.1018	-0.0041	0.0008	
0.0028	1	.							
4141	O	O	. ILE ILE ILE B B 110 110 .	0.1037	0.1126	0.1206	0.0014	0.0043	
0.0062	1	.							
4142	N	N	. LEU LEU LEU B B 111 111 .	0.0711	0.1015	0.0881	0.0276	-0.0059	-
0.0006	1	.							
4143	CA	CA	. LEU LEU LEU B B 111 111 .	0.0896	0.0985	0.0977	0.0016	0.0051	-
0.0008	1	.							
4144	CB	CB	. LEU LEU LEU B B 111 111 .	0.0666	0.0992	0.1154	0.0355	0.0068	
0.0050	1	.							
4145	CG	CG	. LEU LEU LEU B B 111 111 .	0.0658	0.0827	0.1039	0.0216	0.0030	-
0.0227	1	.							
4146	CD1	CD1	. LEU LEU LEU B B 111 111 .	0.1333	0.0815	0.1129	-0.0170	0.0121	-
0.0444	1	.							
4147	CD2	CD2	. LEU LEU LEU B B 111 111 .	0.1038	0.1382	0.1503	-0.0125	0.0265	
0.0424	1	.							
4148	C	C	. LEU LEU LEU B B 111 111 .	0.0852	0.1274	0.1281	-0.0031	-0.0027	-
0.0031	1	.							
4149	O	O	. LEU LEU LEU B B 111 111 .	0.1188	0.1168	0.1304	0.0194	0.0018	-
0.0048	1	.							
4150	N	N	. GLY GLY GLY B B 112 112 .	0.1242	0.1292	0.0802	-0.0012	0.0137	
0.0059	1	.							
4151	CA	CA	. GLY GLY GLY B B 112 112 .	0.1162	0.1407	0.1078	0.0143	-0.0094	
0.0165	1	.							
4152	C	C	. GLY GLY GLY B B 112 112 .	0.1161	0.1164	0.1271	0.0188	-0.0033	
0.0146	1	.							
4153	O	O	. GLY GLY GLY B B 112 112 .	0.1271	0.1297	0.1351	0.0280	-0.0105	
0.0170	1	.							
4154	N	N	. VAL VAL VAL B B 113 113 .	0.1108	0.1368	0.1321	0.0202	-0.0209	
0.0056	1	.							
4155	CA	CA	. VAL VAL VAL B B 113 113 .	0.0997	0.1213	0.1197	0.0197	-0.0008	
0.0093	1	.							
4156	CB	CB	. VAL VAL VAL B B 113 113 .	0.0902	0.1220	0.1360	0.0067	-0.0208	-
0.0003	1	.							
4157	CG1	CG1	. VAL VAL VAL B B 113 113 .	0.1054	0.1704	0.1437	-0.0267	-0.0224	
0.0343	1	.							
4158	CG2	CG2	. VAL VAL VAL B B 113 113 .	0.1009	0.1321	0.1368	0.0359	0.0124	
0.0091	1	.							
4159	C	C	. VAL VAL VAL B B 113 113 .	0.0889	0.1083	0.1181	0.0188	-0.0153	
0.0194	1	.							
4160	O	O	. VAL VAL VAL B B 113 113 .	0.1159	0.1280	0.1041	0.0109	-0.0136	
0.0142	1	.							
4161	N	N	. SER SER SER B B 114 114 .	0.0962	0.1154	0.1157	0.0116	-0.0092	
0.0110	1	.							

4162	CA	CA	. SER SER SER B B 114 114 .	0.0996	0.0939	0.1099	0.0126	-0.0128	
0.0103	1	.							
4163	CB	CB	. SER SER SER B B 114 114 .	0.1297	0.1512	0.1086	-0.0058	-0.0130	-
0.0013	1	.							
4164	OG	OG	. SER SER SER B B 114 114 .	0.1958	0.1507	0.1411	0.0009	-0.0200	
0.0081	1	.							
4165	C	C	. SER SER SER B B 114 114 .	0.1122	0.1066	0.1125	0.0020	-0.0016	-
0.0045	1	.							
4166	O	O	. SER SER SER B B 114 114 .	0.1104	0.1010	0.1271	0.0097	-0.0088	
0.0113	1	.							
4167	N	N	. LEU LEU LEU B B 115 115 .	0.0982	0.0907	0.1217	0.0116	-0.0065	
0.0071	1	.							
4168	CA	CA	. LEU LEU LEU B B 115 115 .	0.1006	0.0935	0.1443	0.0158	0.0081	
0.0212	1	.							
4169	CB	CB	. LEU LEU LEU B B 115 115 .	0.0816	0.0955	0.1139	-0.0044	0.0101	
0.0085	1	.							
4170	CG	CG	. LEU LEU LEU B B 115 115 .	0.0900	0.0736	0.0846	0.0146	0.0275	
0.0098	1	.							
4171	CD1	CD1	. LEU LEU LEU B B 115 115 .	0.0858	0.1091	0.0829	-0.0130	0.0113	
0.0094	1	.							
4172	CD2	CD2	. LEU LEU LEU B B 115 115 .	0.1398	0.1079	0.1189	-0.0149	0.0292	
0.0237	1	.							
4173	C	C	. LEU LEU LEU B B 115 115 .	0.1161	0.1283	0.1424	0.0151	-0.0048	
0.0132	1	.							
4174	O	O	. LEU LEU LEU B B 115 115 .	0.1528	0.1191	0.1613	0.0106	-0.0161	
0.0176	1	.							
4175	N	N	. ALA ALA ALA B B 116 116 .	0.1142	0.1079	0.1296	0.0228	0.0130	
0.0055	1	.							
4176	CA	CA	. ALA ALA ALA B B 116 116 .	0.1088	0.1344	0.1322	0.0016	-0.0062	
0.0119	1	.							
4177	CB	CB	. ALA ALA ALA B B 116 116 .	0.1080	0.1083	0.1153	-0.0005	0.0079	-
0.0030	1	.							
4178	C	C	. ALA ALA ALA B B 116 116 .	0.1113	0.1253	0.1302	0.0060	0.0001	-
0.0028	1	.							
4179	O	O	. ALA ALA ALA B B 116 116 .	0.1292	0.1597	0.1530	-0.0059	-0.0102	
0.0303	1	.							
4180	N	N	. VAL VAL VAL B B 117 117 .	0.1253	0.1190	0.1149	0.0084	-0.0271	
0.0091	1	.							
4181	CA	CA	. VAL VAL VAL B B 117 117 .	0.1305	0.1247	0.1372	0.0189	-0.0228	
0.0162	1	.							
4182	CB	CB	. VAL VAL VAL B B 117 117 .	0.1227	0.1095	0.1287	0.0280	-0.0330	
0.0139	1	.							
4183	CG1	CG1	. VAL VAL VAL B B 117 117 .	0.1670	0.1348	0.1953	0.0277	-0.0508	
0.0193	1	.							
4184	CG2	CG2	. VAL VAL VAL B B 117 117 .	0.1360	0.1649	0.1314	0.0371	-0.0230	
0.0077	1	.							
4185	C	C	. VAL VAL VAL B B 117 117 .	0.1432	0.1504	0.1504	0.0088	-0.0080	
0.0111	1	.							
4186	O	O	. VAL VAL VAL B B 117 117 .	0.1513	0.1751	0.1586	0.0153	-0.0154	
0.0120	1	.							
4187	N	N	. CYS CYS CYS B B 118 118 .	0.1555	0.1573	0.1321	0.0324	-0.0071	
0.0224	1	.							
4188	CA	CA	. CYS CYS CYS B B 118 118 .	0.1504	0.1492	0.1478	0.0149	0.0024	
0.0180	1	.							
4189	CB	CB	. CYS CYS CYS B B 118 118 .	0.1313	0.1449	0.1362	-0.0091	0.0162	
0.0076	1	.							
4190	SG	SG	. CYS CYS CYS B B 118 118 .	0.1682	0.1643	0.1688	-0.0060	0.0131	
0.0012	1	.							
4191	C	C	. CYS CYS CYS B B 118 118 .	0.1573	0.1549	0.1732	0.0050	-0.0043	
0.0049	1	.							

4192	O	O	. CYS CYS CYS B B 118 118 .	0.1306	0.1513	0.1826	0.0236	0.0038	-
0.0024	1	.							
4193	N	N	. LYS LYS LYS B B 119 119 .	0.1620	0.1543	0.1534	0.0222	-0.0032	
0.0092	1	.							
4194	CA	CA	. LYS LYS LYS B B 119 119 .	0.1527	0.1519	0.1555	-0.0077	0.0006	
0.0203	1	.							
4195	CB	CB	. LYS LYS LYS B B 119 119 .	0.1391	0.1456	0.1503	-0.0143	-0.0045	-
0.0093	1	.							
4196	CG	CG	. LYS LYS LYS B B 119 119 .	0.1156	0.1805	0.1516	0.0140	0.0005	-
0.0123	1	.							
4197	CD	CD	. LYS LYS LYS B B 119 119 .	0.1122	0.2580	0.1752	0.0136	-0.0034	-
0.0424	1	.							
4198	CE	CE	. LYS LYS LYS B B 119 119 .	0.2060	0.2940	0.1952	-0.0137	-0.0027	
0.0029	1	.							
4199	NZ	NZ	. LYS LYS LYS B B 119 119 .	0.1462	0.2707	0.1795	0.0145	0.0158	-
0.0070	1	.							
4200	C	C	. LYS LYS LYS B B 119 119 .	0.1415	0.1619	0.1524	-0.0090	-0.0052	
0.0081	1	.							
4201	O	O	. LYS LYS LYS B B 119 119 .	0.1891	0.1759	0.1653	-0.0137	-0.0081	
0.0175	1	.							
4202	N	N	. ALA ALA ALA B B 120 120 .	0.1428	0.1494	0.1580	-0.0155	-0.0013	
0.0090	1	.							
4203	CA	CA	. ALA ALA ALA B B 120 120 .	0.1456	0.1556	0.1537	-0.0086	0.0051	-
0.0035	1	.							
4204	CB	CB	. ALA ALA ALA B B 120 120 .	0.1439	0.1474	0.1232	-0.0124	0.0182	-
0.0191	1	.							
4205	C	C	. ALA ALA ALA B B 120 120 .	0.1666	0.1453	0.1602	-0.0084	-0.0021	
0.0058	1	.							
4206	O	O	. ALA ALA ALA B B 120 120 .	0.1818	0.1687	0.1822	-0.0051	-0.0087	
0.0280	1	.							
4207	N	N	. GLY GLY GLY B B 121 121 .	0.1692	0.1371	0.1422	0.0097	-0.0015	
0.0030	1	.							
4208	CA	CA	. GLY GLY GLY B B 121 121 .	0.1426	0.1447	0.1737	0.0088	-0.0045	-
0.0045	1	.							
4209	C	C	. GLY GLY GLY B B 121 121 .	0.1622	0.1699	0.1699	-0.0045	-0.0093	
0.0018	1	.							
4210	O	O	. GLY GLY GLY B B 121 121 .	0.1626	0.1521	0.1877	-0.0193	-0.0123	
0.0139	1	.							
4211	N	N	. ALA ALA ALA B B 122 122 .	0.1558	0.1633	0.1501	0.0037	0.0049	
0.0046	1	.							
4212	CA	CA	. ALA ALA ALA B B 122 122 .	0.1560	0.1837	0.1870	0.0021	0.0028	
0.0015	1	.							
4213	CB	CB	. ALA ALA ALA B B 122 122 .	0.1235	0.1959	0.1729	0.0043	0.0095	-
0.0041	1	.							
4214	C	C	. ALA ALA ALA B B 122 122 .	0.1513	0.1866	0.1866	-0.0056	-0.0083	
0.0037	1	.							
4215	O	O	. ALA ALA ALA B B 122 122 .	0.2016	0.1693	0.2018	-0.0003	-0.0083	
0.0090	1	.							
4216	N	N	. ALA ALA ALA B B 123 123 .	0.1602	0.1772	0.1879	-0.0164	-0.0033	
0.0186	1	.							
4217	CA	CA	. ALA ALA ALA B B 123 123 .	0.1460	0.1867	0.1893	-0.0231	-0.0024	
0.0134	1	.							
4218	CB	CB	. ALA ALA ALA B B 123 123 .	0.1703	0.1772	0.1932	-0.0223	-0.0183	
0.0051	1	.							
4219	C	C	. ALA ALA ALA B B 123 123 .	0.1685	0.1938	0.2179	-0.0080	-0.0015	
0.0106	1	.							
4220	O	O	. ALA ALA ALA B B 123 123 .	0.1609	0.1966	0.2474	-0.0045	-0.0091	
0.0038	1	.							
4221	N	N	. GLU GLU GLU B B 124 124 .	0.1683	0.1935	0.2430	-0.0157	-0.0062	
0.0202	1	.							

4222	CA	CA	. GLU GLU GLU B B 124 124 .	0.1804	0.2116	0.2453	-0.0146	0.0015	
0.0185	1	.							
4223	CB	CB	. GLU GLU GLU B B 124 124 .	0.1822	0.2246	0.2656	-0.0237	-0.0024	
0.0116	1	.							
4224	CG	CG	. GLU GLU GLU B B 124 124 .	0.2325	0.2794	0.2872	0.0000	0.0137	
0.0347	1	.							
4225	CD	CD	. GLU GLU GLU B B 124 124 .	0.3272	0.2988	0.3182	-0.0354	-0.0049	
0.0558	1	.							
4226	OE1	OE1	. GLU GLU GLU B B 124 124 .	0.3966	0.3303	0.3976	-0.0757	0.0165	
0.0458	1	.							
4227	OE2	OE2	. GLU GLU GLU B B 124 124 .	0.3712	0.2842	0.3370	0.0099	0.0230	
0.0747	1	.							
4228	C	C	. GLU GLU GLU B B 124 124 .	0.1993	0.2194	0.2658	-0.0215	-0.0087	
0.0118	1	.							
4229	O	O	. GLU GLU GLU B B 124 124 .	0.2016	0.2232	0.2946	-0.0390	0.0041	
0.0098	1	.							
4230	N	N	. ARG ARG ARG B B 125 125 .	0.1986	0.2375	0.2519	-0.0215	-0.0127	-
0.0029	1	.							
4231	CA	CA	. ARG ARG ARG B B 125 125 .	0.2417	0.2501	0.2730	-0.0122	-0.0066	-
0.0057	1	.							
4232	CB	CB	. ARG ARG ARG B B 125 125 .	0.2461	0.2587	0.2693	-0.0026	-0.0222	-
0.0095	1	.							
4233	CG	CG	. ARG ARG ARG B B 125 125 .	0.3024	0.2545	0.2850	0.0102	-0.0268	-
0.0114	1	.							
4234	CD	CD	. ARG ARG ARG B B 125 125 .	0.3341	0.3910	0.4026	-0.0005	-0.0466	-
0.0067	1	.							
4235	NE	NE	. ARG ARG ARG B B 125 125 .	0.4437	0.4400	0.4687	-0.0134	-0.0467	-
0.0129	1	.							
4236	CZ	CZ	. ARG ARG ARG B B 125 125 .	0.5122	0.5079	0.5261	-0.0189	-0.0488	-
0.0150	1	.							
4237	NH1	NH1	. ARG ARG ARG B B 125 125 .	0.5119	0.5278	0.5102	-0.0725	-0.0491	-
0.0163	1	.							
4238	NH2	NH2	. ARG ARG ARG B B 125 125 .	0.5951	0.4972	0.5200	-0.0433	-0.0643	-
0.0303	1	.							
4239	C	C	. ARG ARG ARG B B 125 125 .	0.2493	0.2593	0.2772	-0.0272	0.0067	-
0.0065	1	.							
4240	O	O	. ARG ARG ARG B B 125 125 .	0.2721	0.2603	0.3163	-0.0577	-0.0025	-
0.0116	1	.							
4241	N	N	. GLU GLU GLU B B 126 126 .	0.2216	0.2423	0.2785	-0.0279	0.0085	
0.0041	1	.							
4242	CA	CA	. GLU GLU GLU B B 126 126 .	0.2426	0.2348	0.2986	-0.0428	0.0144	-
0.0068	1	.							
4243	CB	CB	. GLU GLU GLU B B 126 126 .	0.2702	0.2608	0.3318	-0.0475	0.0260	
0.0001	1	.							
4244	CG	CG	. GLU GLU GLU B B 126 126 .	0.2995	0.3134	0.3619	-0.0876	0.0330	
0.0247	1	.							
4245	CD	CD	. GLU GLU GLU B B 126 126 .	0.3919	0.4376	0.4564	-0.1337	0.0004	
0.0688	1	.							
4246	OE1	OE1	. GLU GLU GLU B B 126 126 .	0.2859	0.4604	0.4992	-0.1733	0.0121	
0.1002	1	.							
4247	OE2	OE2	. GLU GLU GLU B B 126 126 .	0.4509	0.5000	0.4950	-0.1400	-0.0020	
0.1150	1	.							
4248	C	C	. GLU GLU GLU B B 126 126 .	0.2549	0.2227	0.2732	-0.0286	0.0083	-
0.0219	1	.							
4249	O	O	. GLU GLU GLU B B 126 126 .	0.2653	0.2269	0.3124	-0.0355	0.0150	-
0.0193	1	.							
4250	N	N	. LEU LEU LEU B B 127 127 .	0.2301	0.1813	0.2317	-0.0250	0.0140	-
0.0063	1	.							
4251	CA	CA	. LEU LEU LEU B B 127 127 .	0.2190	0.2043	0.2151	-0.0176	-0.0055	-
0.0002	1	.							

4252	CB	CB	. LEU LEU LEU B B 127 127 .	0.1893	0.2167	0.2302	-0.0135	-0.0170	
0.0227	1	.							
4253	CG	CG	. LEU LEU LEU B B 127 127 .	0.2224	0.1974	0.2133	-0.0198	-0.0430	
0.0148	1	.							
4254	CD1	CD1	. LEU LEU LEU B B 127 127 .	0.1887	0.2336	0.1660	-0.0934	-0.0288	
0.0477	1	.							
4255	CD2	CD2	. LEU LEU LEU B B 127 127 .	0.2382	0.2004	0.2147	-0.0818	-0.0116	
0.0069	1	.							
4256	C	C	. LEU LEU LEU B B 127 127 .	0.2117	0.1866	0.2059	-0.0133	0.0034	
0.0037	1	.							
4257	O	O	. LEU LEU LEU B B 127 127 .	0.2060	0.2132	0.1794	-0.0317	0.0076	
0.0082	1	.							
4258	N	N	. PRO PRO PRO B B 128 128 .	0.1966	0.1759	0.2134	-0.0190	-0.0039	
0.0076	1	.							
4259	CA	CA	. PRO PRO PRO B B 128 128 .	0.2040	0.1870	0.2198	-0.0139	-0.0030	
0.0114	1	.							
4260	CB	CB	. PRO PRO PRO B B 128 128 .	0.2201	0.1673	0.2383	-0.0152	0.0072	
0.0033	1	.							
4261	CG	CG	. PRO PRO PRO B B 128 128 .	0.2329	0.2185	0.2417	0.0021	-0.0196	-
0.0015	1	.							
4262	CD	CD	. PRO PRO PRO B B 128 128 .	0.1969	0.2043	0.1941	-0.0084	0.0025	
0.0009	1	.							
4263	C	C	. PRO PRO PRO B B 128 128 .	0.1950	0.1649	0.2009	-0.0206	-0.0224	
0.0034	1	.							
4264	O	O	. PRO PRO PRO B B 128 128 .	0.1942	0.1676	0.2106	-0.0327	-0.0368	-
0.0084	1	.							
4265	N	N	. LEU LEU LEU B B 129 129 .	0.1977	0.1783	0.1812	-0.0173	-0.0258	
0.0127	1	.							
4266	CA	CA	. LEU LEU LEU B B 129 129 .	0.1834	0.1693	0.1772	-0.0119	-0.0234	-
0.0124	1	.							
4267	CB	CB	. LEU LEU LEU B B 129 129 .	0.1336	0.1797	0.1648	-0.0089	-0.0327	
0.0024	1	.							
4268	CG	CG	. LEU LEU LEU B B 129 129 .	0.1175	0.1388	0.1995	0.0089	-0.0265	-
0.0166	1	.							
4269	CD1	CD1	. LEU LEU LEU B B 129 129 .	0.1244	0.1507	0.1483	0.0444	0.0396	-
0.0262	1	.							
4270	CD2	CD2	. LEU LEU LEU B B 129 129 .	0.1812	0.1453	0.1276	-0.0025	-0.0297	-
0.0155	1	.							
4271	C	C	. LEU LEU LEU B B 129 129 .	0.1745	0.1712	0.1713	-0.0156	-0.0214	
0.0000	1	.							
4272	O	O	. LEU LEU LEU B B 129 129 .	0.2056	0.1603	0.1786	0.0021	-0.0243	
0.0055	1	.							
4273	N	N	. TYR TYR TYR B B 130 130 .	0.1809	0.1511	0.1759	-0.0141	-0.0176	
0.0021	1	.							
4274	CA	CA	. TYR TYR TYR B B 130 130 .	0.1948	0.1743	0.1741	-0.0094	-0.0179	
0.0026	1	.							
4275	CB	CB	. TYR TYR TYR B B 130 130 .	0.1886	0.1381	0.2107	-0.0097	-0.0037	
0.0043	1	.							
4276	CG	CG	. TYR TYR TYR B B 130 130 .	0.2175	0.1401	0.1684	-0.0033	-0.0233	
0.0377	1	.							
4277	CD1	CD1	. TYR TYR TYR B B 130 130 .	0.2769	0.1491	0.2006	0.0167	-0.0488	
0.0289	1	.							
4278	CE1	CE1	. TYR TYR TYR B B 130 130 .	0.2622	0.2109	0.2477	-0.0073	-0.0413	
0.0212	1	.							
4279	CZ	CZ	. TYR TYR TYR B B 130 130 .	0.2233	0.1948	0.2582	-0.0087	-0.0094	
0.0405	1	.							
4280	OH	OH	. TYR TYR TYR B B 130 130 .	0.2302	0.2122	0.3983	0.0171	0.0196	
0.0369	1	.							
4281	CE2	CE2	. TYR TYR TYR B B 130 130 .	0.1915	0.1746	0.2181	-0.0018	0.0234	
0.0069	1	.							

4282	CD2	CD2	. TYR TYR TYR B B 130 130 .	0.1481	0.1507	0.1575	-0.0011	-0.0284	
0.0148	1	.							
4283	C	C	. TYR TYR TYR B B 130 130 .	0.1743	0.1643	0.1720	-0.0181	-0.0243	
0.0064	1	.							
4284	O	O	. TYR TYR TYR B B 130 130 .	0.2024	0.1804	0.1536	-0.0186	-0.0482	-
0.0022	1	.							
4285	N	N	. ARG ARG ARG B B 131 131 .	0.1778	0.1588	0.1557	-0.0091	-0.0194	-
0.0002	1	.							
4286	CA	CA	. ARG ARG ARG B B 131 131 .	0.1633	0.1666	0.1962	-0.0157	-0.0188	
0.0024	1	.							
4287	CB	CB	. ARG ARG ARG B B 131 131 .	0.1914	0.1799	0.2244	-0.0302	-0.0289	-
0.0056	1	.							
4288	CG	CG	. ARG ARG ARG B B 131 131 .	0.2416	0.2281	0.3392	-0.0144	-0.0223	-
0.0041	1	.							
4289	CD	CD	. ARG ARG ARG B B 131 131 .	0.3702	0.3519	0.4624	-0.0597	-0.0481	-
0.1221	1	.							
4290	NE	NE	. ARG ARG ARG B B 131 131 .	0.4490	0.4190	0.5301	-0.0323	-0.0412	-
0.0872	1	.							
4291	CZ	CZ	. ARG ARG ARG B B 131 131 .	0.5034	0.4949	0.5371	-0.0170	-0.0053	-
0.0537	1	.							
4292	NH1	NH1	. ARG ARG ARG B B 131 131 .	0.5204	0.4842	0.5430	-0.0062	0.0050	-
0.0378	1	.							
4293	NH2	NH2	. ARG ARG ARG B B 131 131 .	0.5222	0.5448	0.5120	-0.0357	-0.0028	-
0.0419	1	.							
4294	C	C	. ARG ARG ARG B B 131 131 .	0.1613	0.1704	0.1647	-0.0130	-0.0071	-
0.0063	1	.							
4295	O	O	. ARG ARG ARG B B 131 131 .	0.1857	0.1743	0.1937	-0.0039	-0.0214	-
0.0253	1	.							
4296	N	N	. HIS HIS HIS B B 132 132 .	0.1541	0.1371	0.1641	-0.0055	-0.0246	-
0.0138	1	.							
4297	CA	CA	. HIS HIS HIS B B 132 132 .	0.1580	0.1621	0.1620	-0.0185	-0.0020	-
0.0077	1	.							
4298	CB	CB	. HIS HIS HIS B B 132 132 .	0.1408	0.1424	0.1527	-0.0177	0.0064	-
0.0306	1	.							
4299	CG	CG	. HIS HIS HIS B B 132 132 .	0.1729	0.1555	0.1771	0.0097	-0.0082	
0.0076	1	.							
4300	ND1	ND1	. HIS HIS HIS B B 132 132 .	0.2024	0.1959	0.1853	0.0139	-0.0059	-
0.0108	1	.							
4301	CE1	CE1	. HIS HIS HIS B B 132 132 .	0.1834	0.1480	0.1856	0.0001	0.0015	
0.0045	1	.							
4302	NE2	NE2	. HIS HIS HIS B B 132 132 .	0.1728	0.1615	0.1811	0.0080	-0.0262	
0.0432	1	.							
4303	CD2	CD2	. HIS HIS HIS B B 132 132 .	0.1775	0.1439	0.1598	0.0025	0.0000	
0.0038	1	.							
4304	C	C	. HIS HIS HIS B B 132 132 .	0.1471	0.1503	0.1628	-0.0063	-0.0062	
0.0061	1	.							
4305	O	O	. HIS HIS HIS B B 132 132 .	0.1637	0.1783	0.1523	-0.0226	0.0042	
0.0119	1	.							
4306	N	N	. ILE ILE ILE B B 133 133 .	0.1502	0.1474	0.1801	-0.0248	0.0116	
0.0147	1	.							
4307	CA	CA	. ILE ILE ILE B B 133 133 .	0.1468	0.1576	0.1499	-0.0215	-0.0078	
0.0153	1	.							
4308	CB	CB	. ILE ILE ILE B B 133 133 .	0.1462	0.1399	0.1306	-0.0272	0.0049	-
0.0074	1	.							
4309	CG1	CG1	. ILE ILE ILE B B 133 133 .	0.1248	0.1648	0.1189	-0.0012	-0.0517	-
0.0247	1	.							
4310	CD1	CD1	. ILE ILE ILE B B 133 133 .	0.1488	0.1520	0.1164	-0.0073	-0.0722	-
0.0083	1	.							
4311	CG2	CG2	. ILE ILE ILE B B 133 133 .	0.1969	0.1234	0.1669	-0.0063	-0.0097	
0.0400	1	.							



4312	C	C	. ILE ILE ILE B B 133 133 .	0.1626	0.1604	0.1721	-0.0262	-0.0147	-
0.0034	1	.							
4313	O	O	. ILE ILE ILE B B 133 133 .	0.1783	0.1472	0.1467	-0.0324	-0.0442	
0.0106	1	.							
4314	N	N	. ALA ALA ALA B B 134 134 .	0.1712	0.1606	0.1691	-0.0177	-0.0043	
0.0026	1	.							
4315	CA	CA	. ALA ALA ALA B B 134 134 .	0.1816	0.1674	0.1696	0.0001	-0.0046	
0.0022	1	.							
4316	CB	CB	. ALA ALA ALA B B 134 134 .	0.1707	0.1537	0.1493	-0.0146	0.0044	-
0.0030	1	.							
4317	C	C	. ALA ALA ALA B B 134 134 .	0.1962	0.1804	0.1865	-0.0128	-0.0112	
0.0021	1	.							
4318	O	O	. ALA ALA ALA B B 134 134 .	0.2049	0.1975	0.2124	0.0000	-0.0285	
0.0027	1	.							
4319	N	N	. GLN GLN GLN B B 135 135 .	0.1950	0.2054	0.2070	-0.0015	-0.0176	-
0.0098	1	.							
4320	CA	CA	. GLN GLN GLN B B 135 135 .	0.2188	0.2172	0.2218	0.0073	-0.0253	
0.0026	1	.							
4321	CB	CB	. GLN GLN GLN B B 135 135 .	0.2097	0.2142	0.2332	-0.0223	-0.0228	-
0.0097	1	.							
4322	CG	CG	. GLN GLN GLN B B 135 135 .	0.2393	0.2408	0.2895	-0.0065	-0.0187	
0.0246	1	.							
4323	CD	CD	. GLN GLN GLN B B 135 135 .	0.3083	0.3130	0.3564	-0.0637	-0.0176	-
0.0029	1	.							
4324	OE1	OE1	. GLN GLN GLN B B 135 135 .	0.2722	0.3108	0.4394	-0.0401	-0.0191	
0.0091	1	.							
4325	NE2	NE2	. GLN GLN GLN B B 135 135 .	0.4246	0.3405	0.4151	-0.0619	-0.0478	
0.0113	1	.							
4326	C	C	. GLN GLN GLN B B 135 135 .	0.2279	0.2177	0.2329	0.0137	-0.0402	-
0.0024	1	.							
4327	O	O	. GLN GLN GLN B B 135 135 .	0.2463	0.2325	0.2232	0.0228	-0.0852	
0.0033	1	.							
4328	N	N	. LEU LEU LEU B B 136 136 .	0.2244	0.2073	0.2056	0.0118	-0.0434	-
0.0109	1	.							
4329	CA	CA	. LEU LEU LEU B B 136 136 .	0.2110	0.2147	0.2152	0.0057	-0.0261	
0.0009	1	.							
4330	CB	CB	. LEU LEU LEU B B 136 136 .	0.2023	0.2027	0.2076	-0.0044	-0.0012	-
0.0161	1	.							
4331	CG	CG	. LEU LEU LEU B B 136 136 .	0.2131	0.1849	0.1886	0.0051	-0.0289	
0.0001	1	.							
4332	CD1	CD1	. LEU LEU LEU B B 136 136 .	0.2819	0.1749	0.1739	-0.0050	-0.0583	-
0.0288	1	.							
4333	CD2	CD2	. LEU LEU LEU B B 136 136 .	0.2296	0.2228	0.1896	0.0201	-0.0366	
0.0062	1	.							
4334	C	C	. LEU LEU LEU B B 136 136 .	0.2305	0.2258	0.2110	0.0152	-0.0255	-
0.0006	1	.							
4335	O	O	. LEU LEU LEU B B 136 136 .	0.2436	0.2494	0.2314	0.0286	-0.0209	
0.0217	1	.							
4336	N	N	. ALA ALA ALA B B 137 137 .	0.2413	0.2316	0.2031	-0.0066	-0.0242	-
0.0095	1	.							
4337	CA	CA	. ALA ALA ALA B B 137 137 .	0.2513	0.2395	0.1775	-0.0128	-0.0260	-
0.0225	1	.							
4338	CB	CB	. ALA ALA ALA B B 137 137 .	0.2631	0.2382	0.1611	-0.0163	-0.0206	-
0.0135	1	.							
4339	C	C	. ALA ALA ALA B B 137 137 .	0.2775	0.2580	0.1976	-0.0199	-0.0176	-
0.0213	1	.							
4340	O	O	. ALA ALA ALA B B 137 137 .	0.2939	0.2649	0.1769	-0.0357	-0.0428	-
0.0069	1	.							
4341	N	N	. GLY GLY GLY B B 138 138 .	0.2910	0.2831	0.2235	-0.0244	-0.0228	-
0.0197	1	.							

4342	CA	CA	. GLY GLY GLY B B 138 138 .	0.3521	0.3363	0.2688	-0.0218	-0.0158	-
0.0122	1	.							
4343	C	C	. GLY GLY GLY B B 138 138 .	0.3898	0.3658	0.3158	-0.0189	-0.0156	-
0.0070	1	.							
4344	O	O	. GLY GLY GLY B B 138 138 .	0.4391	0.3951	0.3119	-0.0269	-0.0400	-
0.0061	1	.							
4345	N	N	. ASN ASN ASN B B 139 139 .	0.3873	0.3739	0.3320	-0.0223	-0.0256	-
0.0050	1	.							
4346	CA	CA	. ASN ASN ASN B B 139 139 .	0.3950	0.3917	0.3539	-0.0293	-0.0153	-
0.0023	1	.							
4347	CB	CB	. ASN ASN ASN B B 139 139 .	0.3908	0.4008	0.3568	-0.0426	-0.0177	-
0.0108	1	.							
4348	CG	CG	. ASN ASN ASN B B 139 139 .	0.4033	0.4435	0.3380	-0.0616	-0.0343	-
0.0253	1	.							
4349	OD1	OD1	. ASN ASN ASN B B 139 139 .	0.3975	0.5528	0.3307	-0.1408	-0.0969	-
0.0123	1	.							
4350	ND2	ND2	. ASN ASN ASN B B 139 139 .	0.4101	0.3982	0.2142	-0.0357	-0.0391	-
0.0693	1	.							
4351	C	C	. ASN ASN ASN B B 139 139 .	0.4138	0.3962	0.3855	-0.0268	-0.0119	-
0.0107	1	.							
4352	O	O	. ASN ASN ASN B B 139 139 .	0.4119	0.3696	0.3513	-0.0353	-0.0138	-
0.0234	1	.							
4353	N	N	. SER SER SER B B 140 140 .	0.4358	0.4385	0.4200	-0.0133	0.0007	-
0.0124	1	.							
4354	CA	CA	. SER SER SER B B 140 140 .	0.4668	0.4628	0.4549	-0.0040	-0.0067	-
0.0115	1	.							
4355	CB	CB	. SER SER SER B B 140 140 .	0.4650	0.4765	0.4880	-0.0055	-0.0111	-
0.0158	1	.							
4356	OG	OG	. SER SER SER B B 140 140 .	0.4558	0.5291	0.5155	-0.0012	-0.0334	-
0.0280	1	.							
4357	C	C	. SER SER SER B B 140 140 .	0.4847	0.4737	0.4640	-0.0006	-0.0037	-
0.0022	1	.							
4358	O	O	. SER SER SER B B 140 140 .	0.5259	0.4904	0.4943	-0.0118	0.0017	-
0.0051	1	.							
4359	N	N	. ASP ASP ASP B B 141 141 .	0.4700	0.4634	0.4642	-0.0030	-0.0033	-
0.0017	1	.							
4360	CA	CA	. ASP ASP ASP B B 141 141 .	0.4607	0.4463	0.4401	0.0006	-0.0101	-
0.0021	1	.							
4361	CB	CB	. ASP ASP ASP B B 141 141 .	0.4733	0.4466	0.4674	0.0068	0.0089	-
0.0026	1	.							
4362	C	C	. ASP ASP ASP B B 141 141 .	0.4422	0.4255	0.4349	0.0061	-0.0094	-
0.0003	1	.							
4363	O	O	. ASP ASP ASP B B 141 141 .	0.4570	0.4429	0.4484	-0.0019	-0.0198	-
0.0144	1	.							
4364	N	N	. LEU LEU LEU B B 142 142 .	0.3904	0.3858	0.3586	0.0053	-0.0174	-
0.0011	1	.							
4365	CA	CA	. LEU LEU LEU B B 142 142 .	0.3354	0.2934	0.3282	-0.0103	-0.0091	-
0.0151	1	.							
4366	CB	CB	. LEU LEU LEU B B 142 142 .	0.3380	0.2831	0.2889	0.0084	-0.0126	-
0.0363	1	.							
4367	CG	CG	. LEU LEU LEU B B 142 142 .	0.2910	0.2467	0.3237	-0.0142	-0.0339	-
0.0192	1	.							
4368	CD1	CD1	. LEU LEU LEU B B 142 142 .	0.3053	0.2133	0.2566	0.0223	-0.0161	-
0.0552	1	.							
4369	CD2	CD2	. LEU LEU LEU B B 142 142 .	0.3127	0.2528	0.3645	0.0061	-0.0677	-
0.0239	1	.							
4370	C	C	. LEU LEU LEU B B 142 142 .	0.3209	0.2887	0.3010	-0.0036	-0.0108	-
0.0090	1	.							
4371	O	O	. LEU LEU LEU B B 142 142 .	0.3229	0.3224	0.2798	-0.0111	-0.0092	-
0.0237	1	.							

4372	N	N	. ILE ILE ILE B B 143 143 .	0.2745	0.2502	0.2507	-0.0021	-0.0104	
0.0078	1	.							
4373	CA	CA	. ILE ILE ILE B B 143 143 .	0.2818	0.2522	0.2361	-0.0011	-0.0173	
0.0113	1	.							
4374	CB	CB	. ILE ILE ILE B B 143 143 .	0.2971	0.2870	0.2614	-0.0050	0.0019	
0.0143	1	.							
4375	CG1	CG1	. ILE ILE ILE B B 143 143 .	0.3120	0.3584	0.2853	0.0104	-0.0270	
0.0045	1	.							
4376	CD1	CD1	. ILE ILE ILE B B 143 143 .	0.3501	0.2599	0.3292	-0.0574	-0.0468	-
0.0396	1	.							
4377	CG2	CG2	. ILE ILE ILE B B 143 143 .	0.3798	0.2972	0.2862	-0.0145	-0.0158	
0.0106	1	.							
4378	C	C	. ILE ILE ILE B B 143 143 .	0.2506	0.2120	0.2090	0.0083	-0.0161	
0.0104	1	.							
4379	O	O	. ILE ILE ILE B B 143 143 .	0.2629	0.1868	0.1951	0.0172	-0.0226	
0.0325	1	.							
4380	N	N	. LEU LEU LEU B B 144 144 .	0.2195	0.2047	0.1898	0.0122	-0.0182	-
0.0061	1	.							
4381	CA	CA	. LEU LEU LEU B B 144 144 .	0.1851	0.1676	0.1677	-0.0080	-0.0030	
0.0018	1	.							
4382	CB	CB	. LEU LEU LEU B B 144 144 .	0.1777	0.1810	0.1573	0.0092	0.0010	
0.0063	1	.							
4383	CG	CG	. LEU LEU LEU B B 144 144 .	0.1856	0.1906	0.1450	-0.0229	0.0111	
0.0004	1	.							
4384	CD1	CD1	. LEU LEU LEU B B 144 144 .	0.2489	0.1946	0.1220	0.0441	0.0319	
0.0106	1	.							
4385	CD2	CD2	. LEU LEU LEU B B 144 144 .	0.2187	0.1900	0.1929	-0.0441	-0.0260	-
0.0044	1	.							
4386	C	C	. LEU LEU LEU B B 144 144 .	0.1715	0.1520	0.1398	-0.0029	0.0000	
0.0026	1	.							
4387	O	O	. LEU LEU LEU B B 144 144 .	0.1999	0.1404	0.1129	0.0000	0.0104	-
0.0018	1	.							
4388	N	N	. PRO PRO PRO B B 145 145 .	0.1604	0.1369	0.1113	0.0002	0.0140	-
0.0050	1	.							
4389	CA	CA	. PRO PRO PRO B B 145 145 .	0.1460	0.1004	0.1210	-0.0001	-0.0012	-
0.0150	1	.							
4390	CB	CB	. PRO PRO PRO B B 145 145 .	0.1658	0.1055	0.0816	0.0094	0.0293	-
0.0160	1	.							
4391	CG	CG	. PRO PRO PRO B B 145 145 .	0.1312	0.1085	0.0831	-0.0058	0.0074	-
0.0198	1	.							
4392	CD	CD	. PRO PRO PRO B B 145 145 .	0.1553	0.1270	0.0975	-0.0047	0.0065	-
0.0217	1	.							
4393	C	C	. PRO PRO PRO B B 145 145 .	0.1573	0.0905	0.1104	0.0015	0.0077	-
0.0203	1	.							
4394	O	O	. PRO PRO PRO B B 145 145 .	0.1534	0.1078	0.1078	0.0250	-0.0052	-
0.0021	1	.							
4395	N	N	. VAL VAL VAL B B 146 146 .	0.1383	0.0803	0.0877	0.0048	0.0074	-
0.0069	1	.							
4396	CA	CA	. VAL VAL VAL B B 146 146 .	0.1365	0.0762	0.0858	0.0062	-0.0002	-
0.0131	1	.							
4397	CB	CB	. VAL VAL VAL B B 146 146 .	0.1276	0.1002	0.1005	0.0107	-0.0011	-
0.0246	1	.							
4398	CG1	CG1	. VAL VAL VAL B B 146 146 .	0.1584	0.1549	0.1231	0.0154	0.0018	-
0.0117	1	.							
4399	CG2	CG2	. VAL VAL VAL B B 146 146 .	0.2020	0.1451	0.1619	0.0068	0.0107	-
0.0310	1	.							
4400	C	C	. VAL VAL VAL B B 146 146 .	0.1558	0.1187	0.1025	0.0153	-0.0165	-
0.0082	1	.							
4401	O	O	. VAL VAL VAL B B 146 146 .	0.1553	0.1040	0.0803	0.0244	-0.0096	-
0.0121	1	.							

4402	N	N	. PRO PRO PRO B B 147 147 .	0.1720	0.1209	0.1049	0.0269	-0.0191	-
0.0095	1	.							
4403	CA	CA	. PRO PRO PRO B B 147 147 .	0.1470	0.1059	0.1217	0.0220	-0.0192	-
0.0026	1	.							
4404	CB	CB	. PRO PRO PRO B B 147 147 .	0.1690	0.0926	0.1238	0.0280	-0.0074	-
0.0132	1	.							
4405	CG	CG	. PRO PRO PRO B B 147 147 .	0.1736	0.0637	0.0930	-0.0039	-0.0228	-
0.0355	1	.							
4406	CD	CD	. PRO PRO PRO B B 147 147 .	0.1643	0.1086	0.1133	0.0345	-0.0389	-
0.0059	1	.							
4407	C	C	. PRO PRO PRO B B 147 147 .	0.1520	0.1207	0.1204	0.0328	-0.0100	
0.0111	1	.							
4408	O	O	. PRO PRO PRO B B 147 147 .	0.1478	0.1195	0.1218	0.0358	0.0221	
0.0064	1	.							
4409	N	N	. ALA ALA ALA B B 148 148 .	0.1557	0.1153	0.1083	0.0264	-0.0047	
0.0070	1	.							
4410	CA	CA	. ALA ALA ALA B B 148 148 .	0.1346	0.1264	0.1112	0.0197	-0.0173	
0.0106	1	.							
4411	CB	CB	. ALA ALA ALA B B 148 148 .	0.1292	0.1081	0.0653	0.0396	-0.0002	
0.0068	1	.							
4412	C	C	. ALA ALA ALA B B 148 148 .	0.1371	0.1257	0.1040	0.0293	-0.0056	
0.0100	1	.							
4413	O	O	. ALA ALA ALA B B 148 148 .	0.1311	0.1440	0.1426	0.0463	-0.0134	
0.0106	1	.							
4414	N	N	. PHE PHE PHE B B 149 149 .	0.1114	0.1529	0.0876	0.0174	-0.0241	
0.0234	1	.							
4415	CA	CA	. PHE PHE PHE B B 149 149 .	0.1222	0.1257	0.1003	0.0428	-0.0088	
0.0028	1	.							
4416	CB	CB	. PHE PHE PHE B B 149 149 .	0.1277	0.1125	0.1181	0.0528	-0.0092	
0.0158	1	.							
4417	CG	CG	. PHE PHE PHE B B 149 149 .	0.1599	0.1421	0.1124	0.0382	0.0026	
0.0059	1	.							
4418	CD1	CD1	. PHE PHE PHE B B 149 149 .	0.1562	0.0934	0.1084	0.0465	0.0152	
0.0542	1	.							
4419	CE1	CE1	. PHE PHE PHE B B 149 149 .	0.1444	0.1613	0.0795	0.0231	-0.0009	
0.0018	1	.							
4420	CZ	CZ	. PHE PHE PHE B B 149 149 .	0.1761	0.1530	0.1369	0.0602	0.0173	
0.0099	1	.							
4421	CE2	CE2	. PHE PHE PHE B B 149 149 .	0.1337	0.1315	0.1091	0.0230	-0.0077	
0.0108	1	.							
4422	CD2	CD2	. PHE PHE PHE B B 149 149 .	0.1913	0.1140	0.1269	0.0454	-0.0034	-
0.0178	1	.							
4423	C	C	. PHE PHE PHE B B 149 149 .	0.1514	0.1453	0.1311	0.0345	0.0017	
0.0063	1	.							
4424	O	O	. PHE PHE PHE B B 149 149 .	0.1431	0.1344	0.1313	0.0533	0.0152	
0.0053	1	.							
4425	N	N	. ASN ASN ASN B B 150 150 .	0.1520	0.1254	0.1018	0.0256	0.0001	
0.0039	1	.							
4426	CA	CA	. ASN ASN ASN B B 150 150 .	0.1609	0.1775	0.1459	0.0218	0.0057	-
0.0008	1	.							
4427	CB	CB	. ASN ASN ASN B B 150 150 .	0.2022	0.1748	0.1257	0.0114	0.0278	-
0.0041	1	.							
4428	CG	CG	. ASN ASN ASN B B 150 150 .	0.2296	0.1974	0.1685	0.0256	0.0327	
0.0093	1	.							
4429	OD1	OD1	. ASN ASN ASN B B 150 150 .	0.4367	0.2517	0.2201	0.0825	0.0255	
0.0370	1	.							
4430	ND2	ND2	. ASN ASN ASN B B 150 150 .	0.1794	0.1530	0.1350	0.0594	0.0078	
0.0507	1	.							
4431	C	C	. ASN ASN ASN B B 150 150 .	0.1629	0.1954	0.1307	0.0103	-0.0026	-
0.0027	1	.							

4432	O	O	. ASN ASN ASN B B 150 150 .	0.1851	0.2569	0.1588	0.0089	0.0281	
0.0217	1	.							
4433	N	N	. VAL VAL VAL B B 151 151 .	0.1494	0.1685	0.1101	0.0409	-0.0101	-
0.0148	1	.							
4434	CA	CA	. VAL VAL VAL B B 151 151 .	0.1685	0.1728	0.1372	0.0426	-0.0032	-
0.0092	1	.							
4435	CB	CB	. VAL VAL VAL B B 151 151 .	0.1652	0.1813	0.1402	0.0453	-0.0210	
0.0038	1	.							
4436	CG1	CG1	. VAL VAL VAL B B 151 151 .	0.1962	0.1971	0.1740	0.0132	-0.0082	
0.0281	1	.							
4437	CG2	CG2	. VAL VAL VAL B B 151 151 .	0.1598	0.1954	0.1656	0.0630	0.0063	-
0.0046	1	.							
4438	C	C	. VAL VAL VAL B B 151 151 .	0.1796	0.1985	0.1548	0.0562	-0.0012	-
0.0195	1	.							
4439	O	O	. VAL VAL VAL B B 151 151 .	0.1820	0.2052	0.1421	0.0732	-0.0067	-
0.0517	1	.							
4440	N	N	. ILE ILE ILE B B 152 152 .	0.1838	0.1690	0.1434	0.0531	-0.0015	-
0.0108	1	.							
4441	CA	CA	. ILE ILE ILE B B 152 152 .	0.2229	0.2155	0.2069	0.0548	-0.0112	-
0.0204	1	.							
4442	CB	CB	. ILE ILE ILE B B 152 152 .	0.2032	0.2006	0.2339	0.0459	-0.0169	
0.0082	1	.							
4443	CG1	CG1	. ILE ILE ILE B B 152 152 .	0.2469	0.2164	0.2405	0.0442	0.0532	-
0.0092	1	.							
4444	CD1	CD1	. ILE ILE ILE B B 152 152 .	0.1811	0.1412	0.2550	-0.0183	0.0343	
0.0608	1	.							
4445	CG2	CG2	. ILE ILE ILE B B 152 152 .	0.2499	0.2270	0.2484	0.0393	-0.0138	-
0.0489	1	.							
4446	C	C	. ILE ILE ILE B B 152 152 .	0.2475	0.2375	0.2369	0.0679	-0.0291	-
0.0150	1	.							
4447	O	O	. ILE ILE ILE B B 152 152 .	0.2335	0.2037	0.2340	0.0501	-0.0821	-
0.0384	1	.							
4448	N	N	. ASN ASN ASN B B 153 153 .	0.2769	0.2555	0.2499	0.0691	-0.0376	-
0.0409	1	.							
4449	CA	CA	. ASN ASN ASN B B 153 153 .	0.3000	0.2847	0.2783	0.0632	-0.0248	-
0.0156	1	.							
4450	CB	CB	. ASN ASN ASN B B 153 153 .	0.3076	0.2858	0.3044	0.0400	0.0012	-
0.0156	1	.							
4451	CG	CG	. ASN ASN ASN B B 153 153 .	0.3379	0.3247	0.2848	0.0262	0.0034	-
0.0061	1	.							
4452	OD1	OD1	. ASN ASN ASN B B 153 153 .	0.4022	0.3591	0.4124	0.0334	-0.0784	-
0.0213	1	.							
4453	ND2	ND2	. ASN ASN ASN B B 153 153 .	0.0772	0.1432	0.1450	-0.0201	0.0607	
0.0497	1	.							
4454	C	C	. ASN ASN ASN B B 153 153 .	0.2729	0.2590	0.2714	0.0590	-0.0407	-
0.0235	1	.							
4455	O	O	. ASN ASN ASN B B 153 153 .	0.2985	0.2693	0.2901	0.0828	-0.0479	-
0.0453	1	.							
4456	N	N	. GLY GLY GLY B B 154 154 .	0.2546	0.2636	0.1987	0.0567	-0.0539	-
0.0248	1	.							
4457	CA	CA	. GLY GLY GLY B B 154 154 .	0.1947	0.2259	0.1802	0.0696	-0.0502	-
0.0328	1	.							
4458	C	C	. GLY GLY GLY B B 154 154 .	0.1844	0.2088	0.1630	0.0427	-0.0357	-
0.0333	1	.							
4459	O	O	. GLY GLY GLY B B 154 154 .	0.1975	0.1728	0.1363	0.0840	-0.0351	-
0.0610	1	.							
4460	N	N	. GLY GLY GLY B B 155 155 .	0.1815	0.1807	0.1385	0.0329	-0.0683	-
0.0693	1	.							
4461	N	N	. GLY GLY GLY B B 159 159 .	0.2274	0.2860	0.2162	-0.0210	0.0407	-
0.0506	1	.							

4462	CA	CA	. GLY GLY GLY B B 159 159 .	0.2589	0.3237	0.2563	0.0045	0.0112	-
0.0293	1	.							
4463	C	C	. GLY GLY GLY B B 159 159 .	0.2866	0.3255	0.2686	0.0050	0.0034	-
0.0146	1	.							
4464	O	O	. GLY GLY GLY B B 159 159 .	0.2485	0.3047	0.2286	0.0186	-0.0134	-
0.0029	1	.							
4465	N	N	. ASN ASN ASN B B 160 160 .	0.3051	0.3064	0.2898	0.0204	-0.0250	-
0.0091	1	.							
4466	CA	CA	. ASN ASN ASN B B 160 160 .	0.2779	0.3028	0.2746	0.0167	-0.0332	-
0.0246	1	.							
4467	CB	CB	. ASN ASN ASN B B 160 160 .	0.2868	0.3040	0.2845	0.0218	-0.0574	-
0.0383	1	.							
4468	CG	CG	. ASN ASN ASN B B 160 160 .	0.3183	0.3107	0.3462	0.0506	-0.0741	-
0.0413	1	.							
4469	OD1	OD1	. ASN ASN ASN B B 160 160 .	0.3212	0.3976	0.3316	0.1468	-0.1567	-
0.0806	1	.							
4470	ND2	ND2	. ASN ASN ASN B B 160 160 .	0.3057	0.3469	0.3860	0.0679	-0.1480	-
0.1662	1	.							
4471	C	C	. ASN ASN ASN B B 160 160 .	0.2850	0.2992	0.2876	-0.0013	-0.0286	-
0.0496	1	.							
4472	O	O	. ASN ASN ASN B B 160 160 .	0.2904	0.3138	0.2617	0.0208	-0.0298	-
0.0843	1	.							
4473	N	N	. LYS LYS LYS B B 161 161 .	0.2255	0.2929	0.2647	-0.0207	-0.0193	-
0.0599	1	.							
4474	CA	CA	. LYS LYS LYS B B 161 161 .	0.2427	0.2965	0.2613	-0.0216	-0.0548	-
0.0554	1	.							
4475	CB	CB	. LYS LYS LYS B B 161 161 .	0.2457	0.3181	0.2911	-0.0169	-0.0331	-
0.0662	1	.							
4476	CG	CG	. LYS LYS LYS B B 161 161 .	0.3441	0.3570	0.3358	-0.0267	-0.0633	-
0.0687	1	.							
4477	CD	CD	. LYS LYS LYS B B 161 161 .	0.4843	0.4134	0.4193	-0.0196	-0.0719	-
0.0221	1	.							
4478	CE	CE	. LYS LYS LYS B B 161 161 .	0.5175	0.4844	0.4645	-0.0165	-0.0784	-
0.0400	1	.							
4479	NZ	NZ	. LYS LYS LYS B B 161 161 .	0.5243	0.4742	0.4512	0.0243	-0.0736	-
0.0369	1	.							
4480	C	C	. LYS LYS LYS B B 161 161 .	0.2530	0.2958	0.2619	-0.0102	-0.0428	-
0.0446	1	.							
4481	O	O	. LYS LYS LYS B B 161 161 .	0.2602	0.3085	0.2941	-0.0111	-0.0760	-
0.0641	1	.							
4482	N	N	. LEU LEU LEU B B 162 162 .	0.2440	0.2788	0.2320	0.0170	-0.0502	-
0.0462	1	.							
4483	CA	CA	. LEU LEU LEU B B 162 162 .	0.2137	0.2508	0.2489	0.0252	-0.0624	-
0.0516	1	.							
4484	CB	CB	. LEU LEU LEU B B 162 162 .	0.2231	0.2590	0.1896	0.0396	-0.0559	-
0.0512	1	.							
4485	CG	CG	. LEU LEU LEU B B 162 162 .	0.1978	0.2447	0.2611	0.0082	-0.0825	-
0.0452	1	.							
4486	CD1	CD1	. LEU LEU LEU B B 162 162 .	0.1807	0.2547	0.2693	0.0767	-0.0974	-
0.0906	1	.							
4487	CD2	CD2	. LEU LEU LEU B B 162 162 .	0.2515	0.2504	0.2315	0.0600	-0.0653	-
0.0570	1	.							
4488	C	C	. LEU LEU LEU B B 162 162 .	0.2015	0.2346	0.2339	0.0265	-0.0462	-
0.0412	1	.							
4489	O	O	. LEU LEU LEU B B 162 162 .	0.2309	0.2292	0.2545	0.0305	-0.0832	-
0.0322	1	.							
4490	N	N	. ALA ALA ALA B B 163 163 .	0.1814	0.1825	0.2617	0.0331	-0.0469	-
0.0574	1	.							
4491	CA	CA	. ALA ALA ALA B B 163 163 .	0.1768	0.2070	0.2375	0.0178	-0.0454	-
0.0360	1	.							

4492	CB	CB	. ALA ALA ALA B B 163 163 .	0.1557	0.2185	0.2407	-0.0050	-0.0455	-
0.0224	1	.							
4493	C	C	. ALA ALA ALA B B 163 163 .	0.1752	0.1900	0.2032	0.0122	-0.0271	-
0.0431	1	.							
4494	O	O	. ALA ALA ALA B B 163 163 .	0.1928	0.2058	0.1926	0.0400	-0.0471	-
0.0303	1	.							
4495	N	N	. MET MET MET B B 164 164 .	0.1753	0.1801	0.1670	0.0342	-0.0230	-
0.0541	1	.							
4496	CA	CA	. MET MET MET B B 164 164 .	0.1625	0.1393	0.1402	0.0150	0.0024	-
0.0544	1	.							
4497	CB	CB	. MET MET MET B B 164 164 .	0.2187	0.1789	0.1280	0.0222	0.0220	-
0.0370	1	.							
4498	CG	CG	. MET MET MET B B 164 164 .	0.2145	0.1586	0.1380	0.0234	-0.0094	-
0.0523	1	.							
4499	SD	SD	. MET MET MET B B 164 164 .	0.1828	0.1491	0.1763	0.0234	-0.0415	-
0.0388	1	.							
4500	CE	CE	. MET MET MET B B 164 164 .	0.2063	0.1388	0.2004	0.0205	-0.0187	-
0.0118	1	.							
4501	C	C	. MET MET MET B B 164 164 .	0.1662	0.1457	0.1373	0.0272	-0.0058	-
0.0437	1	.							
4502	O	O	. MET MET MET B B 164 164 .	0.1796	0.1569	0.1702	0.0246	-0.0285	-
0.0334	1	.							
4503	N	N	. GLN GLN GLN B B 165 165 .	0.1544	0.1058	0.1055	0.0123	-0.0053	-
0.0313	1	.							
4504	CA	CA	. GLN GLN GLN B B 165 165 .	0.1404	0.1330	0.1491	0.0309	-0.0024	-
0.0161	1	.							
4505	CB	CB	. GLN GLN GLN B B 165 165 .	0.1292	0.1378	0.1438	0.0445	0.0199	-
0.0132	1	.							
4506	CG	CG	. GLN GLN GLN B B 165 165 .	0.1157	0.1631	0.1276	0.0457	0.0061	-
0.0165	1	.							
4507	CD	CD	. GLN GLN GLN B B 165 165 .	0.1515	0.1632	0.1721	0.0284	-0.0080	-
0.0085	1	.							
4508	OE1	OE1	. GLN GLN GLN B B 165 165 .	0.1680	0.1633	0.1340	0.0571	-0.0129	-
0.0063	1	.							
4509	NE2	NE2	. GLN GLN GLN B B 165 165 .	0.2144	0.1341	0.1647	0.0189	0.0293	-
0.0590	1	.							
4510	C	C	. GLN GLN GLN B B 165 165 .	0.1584	0.1295	0.1329	0.0340	-0.0065	-
0.0058	1	.							
4511	O	O	. GLN GLN GLN B B 165 165 .	0.2041	0.1746	0.1249	0.0604	-0.0296	-
0.0237	1	.							
4512	N	N	. GLU GLU GLU B B 166 166 .	0.1591	0.1363	0.1316	0.0317	-0.0151	-
0.0095	1	.							
4513	CA	CA	. GLU GLU GLU B B 166 166 .	0.1555	0.1203	0.1021	0.0261	-0.0027	-
0.0056	1	.							
4514	CB	CB	. GLU GLU GLU B B 166 166 .	0.1453	0.1133	0.0808	0.0353	0.0139	-
0.0004	1	.							
4515	CG	CG	. GLU GLU GLU B B 166 166 .	0.1908	0.1365	0.1174	0.0195	0.0260	-
0.0164	1	.							
4516	CD	CD	. GLU GLU GLU B B 166 166 .	0.2064	0.1541	0.1628	0.0110	-0.0044	-
0.0020	1	.							
4517	OE1	OE1	. GLU GLU GLU B B 166 166 .	0.2513	0.1589	0.1387	-0.0042	0.0086	-
0.0190	1	.							
4518	OE2	OE2	. GLU GLU GLU B B 166 166 .	0.2151	0.2016	0.1822	0.0556	0.0053	-
0.0188	1	.							
4519	C	C	. GLU GLU GLU B B 166 166 .	0.1640	0.1370	0.1059	0.0384	-0.0094	-
0.0120	1	.							
4520	O	O	. GLU GLU GLU B B 166 166 .	0.1509	0.1479	0.1030	0.0483	-0.0235	-
0.0039	1	.							
4521	N	N	. PHE PHE PHE B B 167 167 .	0.1644	0.1404	0.0953	0.0387	-0.0187	-
0.0208	1	.							





4552	CD1	CD1	. LEU LEU LEU B B 170 170 .	0.1275	0.1251	0.1768	-0.0043	0.0480	
0.0247	1	.							
4553	CD2	CD2	. LEU LEU LEU B B 170 170 .	0.1722	0.1893	0.1511	0.0429	-0.0343	-
0.0134	1	.							
4554	C	C	. LEU LEU LEU B B 170 170 .	0.1765	0.0953	0.1180	0.0315	0.0238	-
0.0052	1	.							
4555	O	O	. LEU LEU LEU B B 170 170 .	0.1585	0.1171	0.1090	0.0137	0.0255	
0.0096	1	.							
4556	N	N	. PRO PRO PRO B B 171 171 .	0.1554	0.1161	0.1005	0.0204	0.0287	-
0.0022	1	.							
4557	CA	CA	. PRO PRO PRO B B 171 171 .	0.1929	0.1225	0.1165	0.0213	0.0072	
0.0129	1	.							
4558	CB	CB	. PRO PRO PRO B B 171 171 .	0.2342	0.1417	0.1134	0.0105	0.0206	
0.0163	1	.							
4559	CG	CG	. PRO PRO PRO B B 171 171 .	0.2207	0.1317	0.1474	0.0219	0.0029	-
0.0064	1	.							
4560	CD	CD	. PRO PRO PRO B B 171 171 .	0.1821	0.1187	0.0750	0.0364	0.0186	
0.0090	1	.							
4561	C	C	. PRO PRO PRO B B 171 171 .	0.1922	0.1401	0.1351	0.0132	0.0235	-
0.0063	1	.							
4562	O	O	. PRO PRO PRO B B 171 171 .	0.2313	0.1436	0.1387	0.0089	0.0311	-
0.0153	1	.							
4563	N	N	. VAL VAL VAL B B 172 172 .	0.1804	0.1407	0.1226	0.0295	0.0250	
0.0015	1	.							
4564	CA	CA	. VAL VAL VAL B B 172 172 .	0.2198	0.1499	0.1472	0.0105	0.0094	
0.0064	1	.							
4565	CB	CB	. VAL VAL VAL B B 172 172 .	0.2456	0.1511	0.1465	0.0181	0.0096	
0.0101	1	.							
4566	CG1	CG1	. VAL VAL VAL B B 172 172 .	0.2351	0.0894	0.1411	0.0243	0.0115	
0.0234	1	.							
4567	CG2	CG2	. VAL VAL VAL B B 172 172 .	0.2141	0.1967	0.1544	0.0324	-0.0231	
0.0227	1	.							
4568	C	C	. VAL VAL VAL B B 172 172 .	0.2004	0.1508	0.1278	0.0009	0.0212	
0.0102	1	.							
4569	O	O	. VAL VAL VAL B B 172 172 .	0.2412	0.1870	0.1317	0.0137	0.0266	-
0.0066	1	.							
4570	N	N	. GLY GLY GLY B B 173 173 .	0.2301	0.1450	0.1674	0.0096	0.0255	
0.0057	1	.							
4571	CA	CA	. GLY GLY GLY B B 173 173 .	0.2484	0.1482	0.1430	0.0107	0.0270	
0.0029	1	.							
4572	C	C	. GLY GLY GLY B B 173 173 .	0.2559	0.1415	0.1568	0.0173	0.0497	
0.0033	1	.							
4573	O	O	. GLY GLY GLY B B 173 173 .	0.2979	0.1615	0.1530	0.0233	0.0579	
0.0029	1	.							
4574	N	N	. ALA ALA ALA B B 174 174 .	0.2139	0.1553	0.1341	0.0071	0.0200	
0.0205	1	.							
4575	CA	CA	. ALA ALA ALA B B 174 174 .	0.2409	0.1727	0.1524	0.0178	0.0370	
0.0009	1	.							
4576	CB	CB	. ALA ALA ALA B B 174 174 .	0.2319	0.1525	0.1139	0.0204	0.0128	
0.0009	1	.							
4577	C	C	. ALA ALA ALA B B 174 174 .	0.2358	0.1732	0.1597	0.0207	0.0245	-
0.0129	1	.							
4578	O	O	. ALA ALA ALA B B 174 174 .	0.2485	0.1819	0.1738	0.0053	0.0412	-
0.0201	1	.							
4579	N	N	. GLU GLU GLU B B 175 175 .	0.2643	0.1848	0.1779	0.0160	0.0185	
0.0165	1	.							
4580	CA	CA	. GLU GLU GLU B B 175 175 .	0.2627	0.2134	0.2171	0.0098	0.0035	
0.0035	1	.							
4581	CB	CB	. GLU GLU GLU B B 175 175 .	0.2860	0.2193	0.2720	0.0118	0.0119	
0.0114	1	.							

4582	CG	CG	. GLU GLU GLU B B 175 175 .	0.3482	0.3514	0.3494	0.0076	0.0511	
0.0245	1	.							
4583	CD	CD	. GLU GLU GLU B B 175 175 .	0.5348	0.4353	0.4917	0.0057	0.0817	
0.0055	1	.							
4584	OE1	OE1	. GLU GLU GLU B B 175 175 .	0.6244	0.4974	0.4788	-0.0231	0.0728	
0.0293	1	.							
4585	OE2	OE2	. GLU GLU GLU B B 175 175 .	0.5634	0.5748	0.5027	-0.0230	0.1075	
0.0186	1	.							
4586	C	C	. GLU GLU GLU B B 175 175 .	0.2458	0.1964	0.1758	0.0033	-0.0061	-
0.0052	1	.							
4587	O	O	. GLU GLU GLU B B 175 175 .	0.2902	0.2198	0.1507	-0.0167	0.0022	-
0.0192	1	.							
4588	N	N	. SER SER SER B B 176 176 .	0.2263	0.1515	0.1560	0.0052	-0.0039	-
0.0098	1	.							
4589	CA	CA	. SER SER SER B B 176 176 .	0.2011	0.1163	0.1357	0.0030	-0.0193	-
0.0216	1	.							
4590	CB	CB	. SER SER SER B B 176 176 .	0.1900	0.1420	0.1661	-0.0042	-0.0296	-
0.0203	1	.							
4591	OG	OG	. SER SER SER B B 176 176 .	0.1892	0.1385	0.1691	0.0196	-0.0124	-
0.0416	1	.							
4592	C	C	. SER SER SER B B 176 176 .	0.1769	0.1069	0.1326	0.0004	-0.0128	-
0.0187	1	.							
4593	O	O	. SER SER SER B B 176 176 .	0.2125	0.1089	0.1011	0.0145	-0.0135	
0.0046	1	.							
4594	N	N	. PHE PHE PHE B B 177 177 .	0.2042	0.1196	0.0978	0.0162	-0.0065	-
0.0305	1	.							
4595	CA	CA	. PHE PHE PHE B B 177 177 .	0.1598	0.1068	0.1330	-0.0014	-0.0012	-
0.0223	1	.							
4596	CB	CB	. PHE PHE PHE B B 177 177 .	0.1610	0.0898	0.1074	0.0187	0.0079	-
0.0167	1	.							
4597	CG	CG	. PHE PHE PHE B B 177 177 .	0.1502	0.1037	0.0950	-0.0040	-0.0086	-
0.0266	1	.							
4598	CD1	CD1	. PHE PHE PHE B B 177 177 .	0.1547	0.0819	0.0841	-0.0028	-0.0132	-
0.0156	1	.							
4599	CE1	CE1	. PHE PHE PHE B B 177 177 .	0.1676	0.1101	0.1194	0.0181	-0.0319	-
0.0292	1	.							
4600	CZ	CZ	. PHE PHE PHE B B 177 177 .	0.1802	0.1301	0.1115	0.0241	-0.0137	-
0.0309	1	.							
4601	CE2	CE2	. PHE PHE PHE B B 177 177 .	0.1417	0.1358	0.1359	0.0029	0.0259	-
0.0188	1	.							
4602	CD2	CD2	. PHE PHE PHE B B 177 177 .	0.1540	0.1692	0.1396	0.0216	-0.0299	-
0.0340	1	.							
4603	C	C	. PHE PHE PHE B B 177 177 .	0.1669	0.0982	0.1200	0.0010	-0.0004	-
0.0011	1	.							
4604	O	O	. PHE PHE PHE B B 177 177 .	0.1410	0.1005	0.1166	0.0197	0.0176	
0.0084	1	.							
4605	N	N	. ARG ARG ARG B B 178 178 .	0.1726	0.1162	0.1375	-0.0063	0.0047	
0.0069	1	.							
4606	CA	CA	. ARG ARG ARG B B 178 178 .	0.1643	0.1071	0.1246	0.0023	-0.0006	
0.0161	1	.							
4607	CB	CB	. ARG ARG ARG B B 178 178 .	0.1994	0.1263	0.1385	-0.0053	-0.0123	
0.0212	1	.							
4608	CG	CG	. ARG ARG ARG B B 178 178 .	0.1792	0.2189	0.2221	0.0181	-0.0364	-
0.0012	1	.							
4609	C	C	. ARG ARG ARG B B 178 178 .	0.1661	0.1096	0.1240	-0.0096	-0.0015	
0.0193	1	.							
4610	O	O	. ARG ARG ARG B B 178 178 .	0.1674	0.1098	0.1119	-0.0044	0.0124	-
0.0041	1	.							
4611	N	N	. ASP ASP ASP B B 179 179 .	0.1443	0.0911	0.1167	-0.0021	0.0072	-
0.0047	1	.							



4642	O	O	. ARG ARG ARG B B 182 182 .	0.1420	0.1196	0.1187	0.0171	0.0023	-
0.0076	1	.							
4643	N	N	. LEU LEU LEU B B 183 183 .	0.1716	0.1527	0.1403	0.0251	0.0143	
0.0029	1	.							
4644	CA	CA	. LEU LEU LEU B B 183 183 .	0.1868	0.1475	0.1447	0.0161	0.0175	-
0.0045	1	.							
4645	CB	CB	. LEU LEU LEU B B 183 183 .	0.1779	0.1503	0.1268	0.0170	0.0079	-
0.0114	1	.							
4646	CG	CG	. LEU LEU LEU B B 183 183 .	0.3309	0.2099	0.1590	0.0256	0.0187	-
0.0189	1	.							
4647	CD1	CD1	. LEU LEU LEU B B 183 183 .	0.2615	0.2040	0.1607	0.0077	0.0827	-
0.0500	1	.							
4648	CD2	CD2	. LEU LEU LEU B B 183 183 .	0.2430	0.2014	0.1627	0.0779	0.0779	-
0.0492	1	.							
4649	C	C	. LEU LEU LEU B B 183 183 .	0.1574	0.1491	0.1475	0.0188	0.0102	-
0.0096	1	.							
4650	O	O	. LEU LEU LEU B B 183 183 .	0.1340	0.0941	0.1232	0.0250	0.0206	-
0.0107	1	.							
4651	N	N	. GLY GLY GLY B B 184 184 .	0.1674	0.1398	0.1322	0.0334	0.0293	-
0.0232	1	.							
4652	CA	CA	. GLY GLY GLY B B 184 184 .	0.1492	0.1300	0.1202	0.0024	0.0149	
0.0034	1	.							
4653	C	C	. GLY GLY GLY B B 184 184 .	0.1241	0.1027	0.1166	0.0197	0.0164	-
0.0175	1	.							
4654	O	O	. GLY GLY GLY B B 184 184 .	0.1271	0.1164	0.1031	0.0311	0.0084	-
0.0098	1	.							
4655	N	N	. ALA ALA ALA B B 185 185 .	0.1223	0.1071	0.0965	0.0244	0.0321	-
0.0022	1	.							
4656	CA	CA	. ALA ALA ALA B B 185 185 .	0.1027	0.0914	0.0881	0.0225	0.0256	
0.0060	1	.							
4657	CB	CB	. ALA ALA ALA B B 185 185 .	0.0960	0.0948	0.1186	-0.0069	0.0272	-
0.0020	1	.							
4658	C	C	. ALA ALA ALA B B 185 185 .	0.1189	0.1072	0.0945	0.0142	0.0190	
0.0057	1	.							
4659	O	O	. ALA ALA ALA B B 185 185 .	0.1469	0.1048	0.1148	0.0353	0.0320	-
0.0007	1	.							
4660	N	N	. GLU GLU GLU B B 186 186 .	0.1566	0.1056	0.1083	0.0244	0.0244	
0.0043	1	.							
4661	CA	CA	. GLU GLU GLU B B 186 186 .	0.1356	0.1076	0.1167	0.0099	0.0167	-
0.0163	1	.							
4662	CB	CB	. GLU GLU GLU B B 186 186 .	0.1793	0.1022	0.1532	0.0209	0.0301	-
0.0064	1	.							
4663	CG	CG	. GLU GLU GLU B B 186 186 .	0.2008	0.1150	0.1170	0.0042	0.0628	
0.0124	1	.							
4664	CD	CD	. GLU GLU GLU B B 186 186 .	0.2493	0.1462	0.2036	0.0097	0.0916	-
0.0166	1	.							
4665	OE1	OE1	. GLU GLU GLU B B 186 186 .	0.2829	0.1446	0.1607	0.0666	0.0609	
0.0136	1	.							
4666	OE2	OE2	. GLU GLU GLU B B 186 186 .	0.2676	0.1208	0.1892	0.0129	0.0524	
0.0272	1	.							
4667	C	C	. GLU GLU GLU B B 186 186 .	0.1321	0.1251	0.1219	0.0205	0.0133	-
0.0001	1	.							
4668	O	O	. GLU GLU GLU B B 186 186 .	0.1384	0.1117	0.1156	0.0167	0.0045	-
0.0033	1	.							
4669	N	N	. VAL VAL VAL B B 187 187 .	0.1256	0.1129	0.1293	0.0252	0.0218	-
0.0059	1	.							
4670	CA	CA	. VAL VAL VAL B B 187 187 .	0.1406	0.1192	0.1310	0.0281	0.0187	-
0.0024	1	.							
4671	CB	CB	. VAL VAL VAL B B 187 187 .	0.1164	0.1003	0.1011	0.0080	-0.0004	-
0.0020	1	.							





4732	O	O	. VAL VAL VAL B B 194 194 .	0.1903	0.2230	0.2534	0.0165	0.0559	
0.0130	1	.							
4733	N	N	. ILE ILE ILE B B 195 195 .	0.1529	0.1807	0.1918	0.0338	0.0481	
0.0037	1	.							
4734	CA	CA	. ILE ILE ILE B B 195 195 .	0.1623	0.1833	0.1885	0.0264	0.0284	
0.0016	1	.							
4735	CB	CB	. ILE ILE ILE B B 195 195 .	0.1735	0.1507	0.1618	0.0413	0.0230	-
0.0169	1	.							
4736	CG1	CG1	. ILE ILE ILE B B 195 195 .	0.1283	0.1656	0.2122	0.0458	0.0270	
0.0035	1	.							
4737	CD1	CD1	. ILE ILE ILE B B 195 195 .	0.1508	0.1934	0.2408	0.0699	0.0614	-
0.0499	1	.							
4738	CG2	CG2	. ILE ILE ILE B B 195 195 .	0.1830	0.1636	0.1575	0.0026	-0.0235	-
0.0353	1	.							
4739	C	C	. ILE ILE ILE B B 195 195 .	0.1819	0.1870	0.2259	0.0235	0.0233	
0.0011	1	.							
4740	O	O	. ILE ILE ILE B B 195 195 .	0.1815	0.2001	0.2372	0.0193	0.0406	
0.0265	1	.							
4741	N	N	. LYS LYS LYS B B 196 196 .	0.1775	0.2104	0.2103	0.0169	0.0399	
0.0249	1	.							
4742	CA	CA	. LYS LYS LYS B B 196 196 .	0.1925	0.2214	0.2249	0.0319	0.0320	
0.0221	1	.							
4743	CB	CB	. LYS LYS LYS B B 196 196 .	0.1997	0.2339	0.2111	0.0285	0.0392	
0.0181	1	.							
4744	CG	CG	. LYS LYS LYS B B 196 196 .	0.2519	0.2465	0.2311	0.0005	-0.0044	
0.0470	1	.							
4745	CD	CD	. LYS LYS LYS B B 196 196 .	0.3573	0.2456	0.2253	0.0000	-0.0106	
0.0673	1	.							
4746	C	C	. LYS LYS LYS B B 196 196 .	0.2041	0.2397	0.2365	0.0195	0.0283	
0.0236	1	.							
4747	O	O	. LYS LYS LYS B B 196 196 .	0.1878	0.2565	0.2505	0.0478	0.0339	
0.0179	1	.							
4748	N	N	. ASP ASP ASP B B 197 197 .	0.2079	0.2522	0.2300	0.0437	0.0293	
0.0297	1	.							
4749	CA	CA	. ASP ASP ASP B B 197 197 .	0.2229	0.2841	0.2781	0.0185	0.0160	
0.0197	1	.							
4750	CB	CB	. ASP ASP ASP B B 197 197 .	0.2384	0.2873	0.2963	0.0216	0.0222	
0.0129	1	.							
4751	CG	CG	. ASP ASP ASP B B 197 197 .	0.3190	0.3242	0.3369	0.0336	-0.0073	
0.0050	1	.							
4752	OD1	OD1	. ASP ASP ASP B B 197 197 .	0.3784	0.3118	0.3876	0.0410	0.0467	-
0.0368	1	.							
4753	OD2	OD2	. ASP ASP ASP B B 197 197 .	0.3892	0.4067	0.3694	0.0313	0.0045	
0.0247	1	.							
4754	C	C	. ASP ASP ASP B B 197 197 .	0.2244	0.2802	0.2806	0.0145	0.0089	
0.0332	1	.							
4755	O	O	. ASP ASP ASP B B 197 197 .	0.1992	0.3012	0.3099	0.0034	0.0049	
0.0358	1	.							
4756	N	N	. LYS LYS LYS B B 198 198 .	0.1962	0.2596	0.2497	0.0193	0.0144	
0.0166	1	.							
4757	CA	CA	. LYS LYS LYS B B 198 198 .	0.2096	0.2251	0.2326	0.0173	0.0264	-
0.0032	1	.							
4758	CB	CB	. LYS LYS LYS B B 198 198 .	0.2327	0.2278	0.2347	0.0111	0.0255	
0.0115	1	.							
4759	CG	CG	. LYS LYS LYS B B 198 198 .	0.2855	0.2368	0.2269	0.0112	0.0254	
0.0050	1	.							
4760	CD	CD	. LYS LYS LYS B B 198 198 .	0.2961	0.2887	0.2977	0.0422	0.0000	
0.0519	1	.							
4761	CE	CE	. LYS LYS LYS B B 198 198 .	0.3425	0.3604	0.3783	0.0041	-0.0075	
0.0680	1	.							









4852	C	C	. GLY GLY GLY B B 211 211 .	0.1602	0.1860	0.1400	0.0370	-0.0025	-
0.0031	1	.							
4853	O	O	. GLY GLY GLY B B 211 211 .	0.1687	0.1565	0.1454	0.0354	0.0409	
0.0143	1	.							
4854	N	N	. PHE PHE PHE B B 212 212 .	0.1725	0.2338	0.1618	0.0437	0.0142	-
0.0170	1	.							
4855	CA	CA	. PHE PHE PHE B B 212 212 .	0.1837	0.2479	0.1900	0.0587	0.0237	-
0.0377	1	.							
4856	CB	CB	. PHE PHE PHE B B 212 212 .	0.1611	0.2153	0.1673	0.0855	0.0338	-
0.0366	1	.							
4857	CG	CG	. PHE PHE PHE B B 212 212 .	0.1338	0.2563	0.1874	0.0355	0.0576	
0.0088	1	.							
4858	CD1	CD1	. PHE PHE PHE B B 212 212 .	0.1695	0.2100	0.2024	0.0411	0.0391	
0.0315	1	.							
4859	CE1	CE1	. PHE PHE PHE B B 212 212 .	0.1199	0.2539	0.2494	0.0472	0.0011	
0.0392	1	.							
4860	CZ	CZ	. PHE PHE PHE B B 212 212 .	0.1812	0.2740	0.2193	0.0909	-0.0205	
0.0083	1	.							
4861	CE2	CE2	. PHE PHE PHE B B 212 212 .	0.1469	0.2219	0.2294	0.0502	0.0293	
0.0055	1	.							
4862	CD2	CD2	. PHE PHE PHE B B 212 212 .	0.1174	0.2222	0.2043	0.0978	0.0007	
0.0182	1	.							
4863	C	C	. PHE PHE PHE B B 212 212 .	0.2088	0.2477	0.2072	0.0558	0.0246	-
0.0520	1	.							
4864	O	O	. PHE PHE PHE B B 212 212 .	0.2431	0.2380	0.2282	0.0838	-0.0218	-
0.0759	1	.							
4865	N	N	. ALA ALA ALA B B 213 213 .	0.1954	0.2949	0.2354	0.0627	0.0080	-
0.0632	1	.							
4866	CA	CA	. ALA ALA ALA B B 213 213 .	0.2317	0.3001	0.2671	0.0448	0.0007	-
0.0638	1	.							
4867	CB	CB	. ALA ALA ALA B B 213 213 .	0.2342	0.3297	0.2540	0.0541	0.0012	-
0.0804	1	.							
4868	C	C	. ALA ALA ALA B B 213 213 .	0.2610	0.3252	0.2749	0.0348	-0.0044	-
0.0643	1	.							
4869	O	O	. ALA ALA ALA B B 213 213 .	0.2426	0.3559	0.2687	0.0258	-0.0115	-
0.0796	1	.							
4870	N	N	. PRO PRO PRO B B 214 214 .	0.2717	0.3083	0.2587	0.0340	-0.0138	-
0.0585	1	.							
4871	CA	CA	. PRO PRO PRO B B 214 214 .	0.2954	0.3028	0.2677	0.0311	-0.0144	-
0.0493	1	.							
4872	CB	CB	. PRO PRO PRO B B 214 214 .	0.2928	0.3111	0.2578	0.0486	-0.0009	-
0.0453	1	.							
4873	CG	CG	. PRO PRO PRO B B 214 214 .	0.2839	0.2739	0.2176	0.0030	-0.0182	-
0.0568	1	.							
4874	CD	CD	. PRO PRO PRO B B 214 214 .	0.2826	0.2594	0.2682	0.0486	-0.0187	-
0.0723	1	.							
4875	C	C	. PRO PRO PRO B B 214 214 .	0.2900	0.3197	0.2701	0.0200	-0.0204	-
0.0352	1	.							
4876	O	O	. PRO PRO PRO B B 214 214 .	0.2580	0.3025	0.2876	0.0218	-0.0801	-
0.0643	1	.							
4877	N	N	. ASN ASN ASN B B 215 215 .	0.2796	0.3481	0.2926	0.0249	-0.0226	-
0.0279	1	.							
4878	CA	CA	. ASN ASN ASN B B 215 215 .	0.2935	0.3502	0.3329	0.0305	-0.0376	-
0.0201	1	.							
4879	CB	CB	. ASN ASN ASN B B 215 215 .	0.2967	0.3709	0.3332	0.0174	-0.0454	-
0.0282	1	.							
4880	CG	CG	. ASN ASN ASN B B 215 215 .	0.3049	0.3681	0.3889	-0.0015	-0.0549	
0.0058	1	.							
4881	OD1	OD1	. ASN ASN ASN B B 215 215 .	0.3465	0.4950	0.5003	-0.0829	-0.0861	-
0.0049	1	.							





4942	CD1	CD1	. LEU LEU LEU B B 223 223 .	0.2302	0.1760	0.1861	0.0340	0.0085	
0.0516	1	.							
4943	CD2	CD2	. LEU LEU LEU B B 223 223 .	0.1895	0.1862	0.1727	-0.0105	-0.0484	
0.0162	1	.							
4944	C	C	. LEU LEU LEU B B 223 223 .	0.1678	0.1405	0.1332	0.0212	-0.0077	
0.0189	1	.							
4945	O	O	. LEU LEU LEU B B 223 223 .	0.2008	0.1513	0.1491	0.0108	-0.0079	
0.0122	1	.							
4946	N	N	. GLU GLU GLU B B 224 224 .	0.1940	0.1618	0.1434	0.0287	-0.0047	
0.0026	1	.							
4947	CA	CA	. GLU GLU GLU B B 224 224 .	0.1918	0.1885	0.1684	0.0252	0.0053	
0.0109	1	.							
4948	CB	CB	. GLU GLU GLU B B 224 224 .	0.2061	0.1981	0.1757	0.0087	0.0178	
0.0008	1	.							
4949	CG	CG	. GLU GLU GLU B B 224 224 .	0.3100	0.2957	0.3218	0.0257	0.0319	
0.0108	1	.							
4950	CD	CD	. GLU GLU GLU B B 224 224 .	0.4048	0.4007	0.3439	-0.0330	0.0862	-
0.0227	1	.							
4951	OE1	OE1	. GLU GLU GLU B B 224 224 .	0.5268	0.3908	0.4917	-0.0200	0.1656	-
0.0034	1	.							
4952	OE2	OE2	. GLU GLU GLU B B 224 224 .	0.4929	0.4102	0.4783	-0.0347	0.0513	-
0.0068	1	.							
4953	C	C	. GLU GLU GLU B B 224 224 .	0.1977	0.1812	0.1768	0.0203	0.0065	
0.0006	1	.							
4954	O	O	. GLU GLU GLU B B 224 224 .	0.2255	0.1747	0.1985	0.0447	0.0328	
0.0115	1	.							
4955	N	N	. LEU LEU LEU B B 225 225 .	0.1579	0.1833	0.1377	0.0467	0.0054	
0.0030	1	.							
4956	CA	CA	. LEU LEU LEU B B 225 225 .	0.1611	0.1668	0.1213	0.0493	0.0100	
0.0014	1	.							
4957	CB	CB	. LEU LEU LEU B B 225 225 .	0.1732	0.1723	0.1611	0.0558	0.0010	-
0.0118	1	.							
4958	CG	CG	. LEU LEU LEU B B 225 225 .	0.2091	0.1822	0.1988	0.0552	0.0011	
0.0029	1	.							
4959	CD1	CD1	. LEU LEU LEU B B 225 225 .	0.2452	0.1822	0.1930	0.0650	0.0225	-
0.0465	1	.							
4960	CD2	CD2	. LEU LEU LEU B B 225 225 .	0.1934	0.2856	0.3209	0.1042	-0.0427	
0.0204	1	.							
4961	C	C	. LEU LEU LEU B B 225 225 .	0.1593	0.1623	0.1213	0.0537	0.0143	-
0.0042	1	.							
4962	O	O	. LEU LEU LEU B B 225 225 .	0.1638	0.1807	0.1509	0.0522	0.0117	-
0.0057	1	.							
4963	N	N	. VAL VAL VAL B B 226 226 .	0.1423	0.1764	0.1061	0.0557	0.0088	-
0.0100	1	.							
4964	CA	CA	. VAL VAL VAL B B 226 226 .	0.1628	0.1492	0.1098	0.0355	0.0201	-
0.0029	1	.							
4965	CB	CB	. VAL VAL VAL B B 226 226 .	0.1389	0.1379	0.1226	0.0434	0.0026	-
0.0103	1	.							
4966	CG1	CG1	. VAL VAL VAL B B 226 226 .	0.1377	0.1698	0.1310	0.0176	0.0066	-
0.0172	1	.							
4967	CG2	CG2	. VAL VAL VAL B B 226 226 .	0.1529	0.1209	0.1006	0.0233	0.0363	-
0.0184	1	.							
4968	C	C	. VAL VAL VAL B B 226 226 .	0.1908	0.1568	0.1311	0.0269	0.0187	
0.0043	1	.							
4969	O	O	. VAL VAL VAL B B 226 226 .	0.2254	0.1710	0.1132	0.0228	0.0162	
0.0323	1	.							
4970	N	N	. LYS LYS LYS B B 227 227 .	0.1963	0.1742	0.1326	0.0257	0.0221	
0.0205	1	.							
4971	CA	CA	. LYS LYS LYS B B 227 227 .	0.2282	0.1968	0.1636	0.0278	0.0328	
0.0074	1	.							











5092	SD	SD	. MET MET MET B B 243 243 .	0.1911	0.1584	0.1610	0.0060	0.0206	-
0.0368	1	.							
5093	CE	CE	. MET MET MET B B 243 243 .	0.1626	0.1665	0.2513	-0.0515	-0.0329	-
0.0561	1	.							
5094	C	C	. MET MET MET B B 243 243 .	0.1285	0.1245	0.1330	0.0252	0.0011	-
0.0153	1	.							
5095	O	O	. MET MET MET B B 243 243 .	0.1732	0.1280	0.0897	0.0076	-0.0020	-
0.0104	1	.							
5096	N	N	. ASP ASP ASP B B 244 244 .	0.1450	0.1035	0.0717	0.0463	0.0056	-
0.0141	1	.							
5097	CA	CA	. ASP ASP ASP B B 244 244 .	0.1181	0.1186	0.0885	0.0298	-0.0033	-
0.0065	1	.							
5098	CB	CB	. ASP ASP ASP B B 244 244 .	0.1113	0.1057	0.0911	0.0420	0.0001	-
0.0164	1	.							
5099	CG	CG	. ASP ASP ASP B B 244 244 .	0.1374	0.1052	0.1137	0.0377	0.0167	-
0.0071	1	.							
5100	OD1	OD1	. ASP ASP ASP B B 244 244 .	0.1228	0.1338	0.0773	0.0355	0.0100	-
0.0300	1	.							
5101	OD2	OD2	. ASP ASP ASP B B 244 244 .	0.1076	0.1312	0.0951	0.0048	-0.0142	-
0.0288	1	.							
5102	C	C	. ASP ASP ASP B B 244 244 .	0.1336	0.1161	0.1152	0.0144	-0.0072	-
0.0032	1	.							
5103	O	O	. ASP ASP ASP B B 244 244 .	0.1500	0.1332	0.1360	0.0199	-0.0171	-
0.0034	1	.							
5104	N	N	. VAL VAL VAL B B 245 245 .	0.0978	0.1098	0.0911	0.0084	0.0079	-
0.0059	1	.							
5105	CA	CA	. VAL VAL VAL B B 245 245 .	0.1500	0.1169	0.0914	0.0007	-0.0080	-
0.0078	1	.							
5106	CB	CB	. VAL VAL VAL B B 245 245 .	0.1504	0.1101	0.1133	0.0009	0.0069	-
0.0034	1	.							
5107	CG1	CG1	. VAL VAL VAL B B 245 245 .	0.1670	0.0798	0.0654	-0.0103	-0.0139	-
0.0037	1	.							
5108	CG2	CG2	. VAL VAL VAL B B 245 245 .	0.1537	0.1302	0.0698	-0.0068	-0.0065	-
0.0090	1	.							
5109	C	C	. VAL VAL VAL B B 245 245 .	0.1311	0.1121	0.1188	0.0113	-0.0006	-
0.0060	1	.							
5110	O	O	. VAL VAL VAL B B 245 245 .	0.1176	0.1230	0.1106	0.0143	-0.0154	-
0.0009	1	.							
5111	N	N	. ALA ALA ALA B B 246 246 .	0.1215	0.1091	0.0965	0.0067	0.0064	-
0.0068	1	.							
5112	CA	CA	. ALA ALA ALA B B 246 246 .	0.1444	0.1048	0.0908	0.0084	-0.0044	-
0.0162	1	.							
5113	CB	CB	. ALA ALA ALA B B 246 246 .	0.1366	0.0916	0.0631	-0.0044	-0.0012	-
0.0180	1	.							
5114	C	C	. ALA ALA ALA B B 246 246 .	0.1467	0.1331	0.0978	-0.0015	-0.0062	-
0.0212	1	.							
5115	O	O	. ALA ALA ALA B B 246 246 .	0.1594	0.1176	0.1052	0.0274	-0.0323	-
0.0351	1	.							
5116	N	N	. ALA ALA ALA B B 247 247 .	0.1194	0.0912	0.0931	0.0092	-0.0210	-
0.0092	1	.							
5117	CA	CA	. ALA ALA ALA B B 247 247 .	0.1125	0.1202	0.1010	0.0111	-0.0058	-
0.0073	1	.							
5118	CB	CB	. ALA ALA ALA B B 247 247 .	0.0972	0.1002	0.0887	0.0091	0.0082	-
0.0212	1	.							
5119	C	C	. ALA ALA ALA B B 247 247 .	0.1409	0.1264	0.1194	0.0059	-0.0028	-
0.0099	1	.							
5120	O	O	. ALA ALA ALA B B 247 247 .	0.1389	0.1348	0.1303	0.0158	-0.0020	-
0.0072	1	.							
5121	N	N	. SER SER SER B B 248 248 .	0.1335	0.1384	0.1323	0.0225	-0.0249	-
0.0353	1	.							



5152	CE1	CE1	. TYR TYR TYR B B 251 251 .	0.1817	0.1681	0.1830	-0.0098	-0.0355	
0.0051	1	.							
5153	CZ	CZ	. TYR TYR TYR B B 251 251 .	0.1801	0.1322	0.1826	0.0097	-0.0069	
0.0312	1	.							
5154	OH	OH	. TYR TYR TYR B B 251 251 .	0.1423	0.1898	0.2335	0.0452	-0.0438	
0.0478	1	.							
5155	CE2	CE2	. TYR TYR TYR B B 251 251 .	0.2055	0.1767	0.1759	0.0096	-0.0157	
0.0355	1	.							
5156	CD2	CD2	. TYR TYR TYR B B 251 251 .	0.1996	0.1639	0.1600	0.0303	-0.0416	-
0.0033	1	.							
5157	C	C	. TYR TYR TYR B B 251 251 .	0.1345	0.1563	0.1339	-0.0044	-0.0126	-
0.0116	1	.							
5158	O	O	. TYR TYR TYR B B 251 251 .	0.1796	0.1633	0.1785	0.0020	-0.0360	-
0.0220	1	.							
5159	N	N	. ARG ARG ARG B B 252 252 .	0.1607	0.1449	0.1632	-0.0131	-0.0445	-
0.0204	1	.							
5160	CA	CA	. ARG ARG ARG B B 252 252 .	0.1672	0.1562	0.2019	-0.0005	-0.0384	-
0.0177	1	.							
5161	CB	CB	. ARG ARG ARG B B 252 252 .	0.1718	0.1874	0.2154	-0.0079	-0.0380	-
0.0206	1	.							
5162	CG	CG	. ARG ARG ARG B B 252 252 .	0.2029	0.2066	0.2281	-0.0271	-0.0029	-
0.0099	1	.							
5163	CD	CD	. ARG ARG ARG B B 252 252 .	0.2981	0.2907	0.2711	-0.0062	0.0005	
0.0064	1	.							
5164	NE	NE	. ARG ARG ARG B B 252 252 .	0.2546	0.2541	0.3058	0.0223	-0.0456	
0.0079	1	.							
5165	CZ	CZ	. ARG ARG ARG B B 252 252 .	0.2901	0.2515	0.2624	0.0279	-0.0421	
0.0066	1	.							
5166	NH1	NH1	. ARG ARG ARG B B 252 252 .	0.2431	0.2857	0.2884	0.0534	-0.0414	
0.0095	1	.							
5167	NH2	NH2	. ARG ARG ARG B B 252 252 .	0.3274	0.2892	0.2558	0.0538	-0.0661	
0.0034	1	.							
5168	C	C	. ARG ARG ARG B B 252 252 .	0.1821	0.1858	0.1929	-0.0052	-0.0243	-
0.0213	1	.							
5169	O	O	. ARG ARG ARG B B 252 252 .	0.1804	0.1776	0.2040	-0.0145	-0.0196	-
0.0249	1	.							
5170	N	N	. ASP ASP ASP B B 253 253 .	0.2093	0.2043	0.2069	0.0054	-0.0265	-
0.0080	1	.							
5171	CA	CA	. ASP ASP ASP B B 253 253 .	0.2105	0.1837	0.2461	-0.0038	-0.0233	
0.0021	1	.							
5172	CB	CB	. ASP ASP ASP B B 253 253 .	0.2194	0.2018	0.2535	-0.0036	-0.0265	
0.0042	1	.							
5173	CG	CG	. ASP ASP ASP B B 253 253 .	0.3077	0.3068	0.3185	-0.0090	-0.0192	-
0.0350	1	.							
5174	OD1	OD1	. ASP ASP ASP B B 253 253 .	0.4174	0.4048	0.3975	-0.0618	-0.0714	-
0.1211	1	.							
5175	OD2	OD2	. ASP ASP ASP B B 253 253 .	0.3378	0.3079	0.3543	0.0222	-0.0149	-
0.0281	1	.							
5176	C	C	. ASP ASP ASP B B 253 253 .	0.1898	0.1756	0.2115	-0.0015	-0.0117	
0.0163	1	.							
5177	O	O	. ASP ASP ASP B B 253 253 .	0.1750	0.1520	0.3050	-0.0214	-0.0197	
0.0185	1	.							
5178	N	N	. GLY GLY GLY B B 254 254 .	0.1990	0.1696	0.1942	-0.0056	-0.0192	-
0.0050	1	.							
5179	CA	CA	. GLY GLY GLY B B 254 254 .	0.1735	0.1473	0.1677	0.0111	0.0031	
0.0088	1	.							
5180	C	C	. GLY GLY GLY B B 254 254 .	0.1673	0.1468	0.1646	0.0032	-0.0004	
0.0007	1	.							
5181	O	O	. GLY GLY GLY B B 254 254 .	0.1707	0.1413	0.1877	0.0016	-0.0069	-
0.0029	1	.							

5182	N	N	. LYS LYS LYS B B 255 255 .	0.1490	0.1704	0.2030	0.0067	0.0020	-
0.0054	1	.							
5183	CA	CA	. LYS LYS LYS B B 255 255 .	0.1337	0.1529	0.2159	0.0014	0.0072	-
0.0192	1	.							
5184	CB	CB	. LYS LYS LYS B B 255 255 .	0.1521	0.1567	0.2449	-0.0167	0.0054	-
0.0083	1	.							
5185	CG	CG	. LYS LYS LYS B B 255 255 .	0.1518	0.1953	0.2604	-0.0258	0.0057	
0.0015	1	.							
5186	CD	CD	. LYS LYS LYS B B 255 255 .	0.1929	0.2069	0.3304	-0.0663	0.0071	
0.0279	1	.							
5187	CE	CE	. LYS LYS LYS B B 255 255 .	0.1579	0.2211	0.3494	-0.0288	0.0438	
0.0278	1	.							
5188	NZ	NZ	. LYS LYS LYS B B 255 255 .	0.1761	0.3038	0.3815	-0.0436	0.0546	
0.0281	1	.							
5189	C	C	. LYS LYS LYS B B 255 255 .	0.1564	0.1609	0.1991	-0.0010	0.0014	-
0.0260	1	.							
5190	O	O	. LYS LYS LYS B B 255 255 .	0.1502	0.1394	0.1892	0.0101	0.0147	-
0.0181	1	.							
5191	N	N	. TYR TYR TYR B B 256 256 .	0.1263	0.1677	0.1987	0.0069	-0.0139	-
0.0192	1	.							
5192	CA	CA	. TYR TYR TYR B B 256 256 .	0.1274	0.1509	0.1820	0.0037	-0.0313	-
0.0301	1	.							
5193	CB	CB	. TYR TYR TYR B B 256 256 .	0.1130	0.1348	0.1886	-0.0030	-0.0280	-
0.0088	1	.							
5194	CG	CG	. TYR TYR TYR B B 256 256 .	0.0902	0.1111	0.1271	-0.0083	-0.0193	
0.0001	1	.							
5195	CD1	CD1	. TYR TYR TYR B B 256 256 .	0.1118	0.1306	0.1861	0.0057	-0.0086	-
0.0441	1	.							
5196	CE1	CE1	. TYR TYR TYR B B 256 256 .	0.0874	0.0732	0.1018	0.0136	-0.0286	
0.0207	1	.							
5197	CZ	CZ	. TYR TYR TYR B B 256 256 .	0.1075	0.0787	0.1020	0.0138	-0.0072	
0.0024	1	.							
5198	OH	OH	. TYR TYR TYR B B 256 256 .	0.1153	0.1115	0.1532	-0.0028	-0.0098	
0.0021	1	.							
5199	CE2	CE2	. TYR TYR TYR B B 256 256 .	0.0991	0.0794	0.1871	0.0248	-0.0174	-
0.0144	1	.							
5200	CD2	CD2	. TYR TYR TYR B B 256 256 .	0.0972	0.1044	0.1570	0.0033	-0.0310	-
0.0371	1	.							
5201	C	C	. TYR TYR TYR B B 256 256 .	0.1555	0.1667	0.2091	0.0096	-0.0265	-
0.0292	1	.							
5202	O	O	. TYR TYR TYR B B 256 256 .	0.1825	0.1610	0.2274	0.0033	-0.0281	-
0.0409	1	.							
5203	N	N	. ASP ASP ASP B B 257 257 .	0.1605	0.1628	0.2029	0.0164	-0.0544	-
0.0381	1	.							
5204	CA	CA	. ASP ASP ASP B B 257 257 .	0.2038	0.2189	0.2360	0.0110	-0.0524	-
0.0423	1	.							
5205	CB	CB	. ASP ASP ASP B B 257 257 .	0.2066	0.2225	0.2398	-0.0007	-0.0501	-
0.0562	1	.							
5206	CG	CG	. ASP ASP ASP B B 257 257 .	0.2544	0.3328	0.2796	0.0323	-0.0633	-
0.0820	1	.							
5207	OD1	OD1	. ASP ASP ASP B B 257 257 .	0.2062	0.3025	0.4175	0.0532	-0.0999	-
0.1182	1	.							
5208	OD2	OD2	. ASP ASP ASP B B 257 257 .	0.2733	0.3051	0.3112	0.0469	-0.1120	-
0.1401	1	.							
5209	C	C	. ASP ASP ASP B B 257 257 .	0.1845	0.2118	0.2148	0.0091	-0.0581	-
0.0307	1	.							
5210	O	O	. ASP ASP ASP B B 257 257 .	0.1893	0.2050	0.2524	0.0213	-0.0465	-
0.0423	1	.							
5211	N	N	. LEU LEU LEU B B 258 258 .	0.1974	0.2451	0.2477	-0.0011	-0.0625	-
0.0348	1	.							











5332	CB	CB	. ASP ASP ASP B B 273 273 .	0.2476	0.2156	0.2287	-0.0084	0.0160	
0.0319	1	.							
5333	CG	CG	. ASP ASP ASP B B 273 273 .	0.3227	0.2750	0.2838	-0.0098	0.0167	
0.0357	1	.							
5334	OD1	OD1	. ASP ASP ASP B B 273 273 .	0.3542	0.2838	0.3599	0.0125	0.0259	
0.0529	1	.							
5335	OD2	OD2	. ASP ASP ASP B B 273 273 .	0.3615	0.4539	0.2261	-0.0457	0.0657	-
0.0689	1	.							
5336	C	C	. ASP ASP ASP B B 273 273 .	0.2150	0.2066	0.2174	0.0065	0.0109	
0.0137	1	.							
5337	O	O	. ASP ASP ASP B B 273 273 .	0.1866	0.1939	0.2081	0.0065	0.0132	-
0.0196	1	.							
5338	N	N	. GLN GLN GLN B B 274 274 .	0.2066	0.2013	0.2123	0.0099	0.0129	
0.0184	1	.							
5339	CA	CA	. GLN GLN GLN B B 274 274 .	0.2033	0.2055	0.2412	0.0025	0.0153	
0.0069	1	.							
5340	CB	CB	. GLN GLN GLN B B 274 274 .	0.2119	0.2049	0.2199	0.0004	0.0316	-
0.0177	1	.							
5341	CG	CG	. GLN GLN GLN B B 274 274 .	0.2340	0.2463	0.2440	-0.0031	0.0192	
0.0079	1	.							
5342	CD	CD	. GLN GLN GLN B B 274 274 .	0.2603	0.2322	0.3124	-0.0281	0.0528	-
0.0194	1	.							
5343	OE1	OE1	. GLN GLN GLN B B 274 274 .	0.2384	0.2174	0.2643	-0.0232	0.0572	-
0.0284	1	.							
5344	NE2	NE2	. GLN GLN GLN B B 274 274 .	0.2797	0.3122	0.3926	-0.0436	-0.0007	-
0.0203	1	.							
5345	C	C	. GLN GLN GLN B B 274 274 .	0.1975	0.1910	0.2159	0.0042	0.0181	
0.0121	1	.							
5346	O	O	. GLN GLN GLN B B 274 274 .	0.1788	0.1657	0.2235	0.0093	0.0202	-
0.0106	1	.							
5347	N	N	. LEU LEU LEU B B 275 275 .	0.1638	0.1716	0.2118	0.0095	0.0044	
0.0148	1	.							
5348	CA	CA	. LEU LEU LEU B B 275 275 .	0.1717	0.1781	0.1738	0.0049	0.0116	
0.0114	1	.							
5349	CB	CB	. LEU LEU LEU B B 275 275 .	0.1868	0.1718	0.2071	0.0178	0.0269	
0.0018	1	.							
5350	CG	CG	. LEU LEU LEU B B 275 275 .	0.1836	0.1870	0.1735	0.0475	0.0121	
0.0169	1	.							
5351	CD1	CD1	. LEU LEU LEU B B 275 275 .	0.2211	0.1409	0.2070	0.0399	-0.0329	
0.0228	1	.							
5352	CD2	CD2	. LEU LEU LEU B B 275 275 .	0.1989	0.1288	0.1239	0.0053	0.0207	-
0.0571	1	.							
5353	C	C	. LEU LEU LEU B B 275 275 .	0.1685	0.1676	0.1851	0.0121	0.0121	
0.0146	1	.							
5354	O	O	. LEU LEU LEU B B 275 275 .	0.1595	0.1912	0.1836	0.0346	0.0290	
0.0350	1	.							
5355	N	N	. GLY GLY GLY B B 276 276 .	0.1758	0.1179	0.1451	0.0164	-0.0021	
0.0327	1	.							
5356	CA	CA	. GLY GLY GLY B B 276 276 .	0.1502	0.1458	0.1675	0.0129	0.0040	
0.0185	1	.							
5357	C	C	. GLY GLY GLY B B 276 276 .	0.1730	0.1644	0.1856	0.0027	0.0099	
0.0095	1	.							
5358	O	O	. GLY GLY GLY B B 276 276 .	0.1740	0.1645	0.1535	-0.0094	0.0042	
0.0322	1	.							
5359	N	N	. ALA ALA ALA B B 277 277 .	0.1804	0.1565	0.1980	0.0009	0.0364	
0.0196	1	.							
5360	CA	CA	. ALA ALA ALA B B 277 277 .	0.1459	0.1603	0.1958	0.0038	0.0331	
0.0148	1	.							
5361	CB	CB	. ALA ALA ALA B B 277 277 .	0.1587	0.1505	0.2242	-0.0059	0.0284	
0.0232	1	.							

5362	C	C	. ALA ALA ALA B B 277 277 .	0.1593	0.1694	0.1651	-0.0070	0.0309	
0.0059	1	.							
5363	O	O	. ALA ALA ALA B B 277 277 .	0.1908	0.1736	0.1644	-0.0086	0.0163	-
0.0023	1	.							
5364	N	N	. LEU LEU LEU B B 278 278 .	0.1550	0.1772	0.1901	0.0003	-0.0018	-
0.0062	1	.							
5365	CA	CA	. LEU LEU LEU B B 278 278 .	0.1500	0.1618	0.1705	-0.0023	0.0048	
0.0105	1	.							
5366	CB	CB	. LEU LEU LEU B B 278 278 .	0.1605	0.1880	0.1809	0.0278	-0.0006	
0.0076	1	.							
5367	CG	CG	. LEU LEU LEU B B 278 278 .	0.1881	0.2273	0.2049	0.0377	0.0059	
0.0181	1	.							
5368	CD1	CD1	. LEU LEU LEU B B 278 278 .	0.2121	0.2460	0.2901	0.0369	0.0284	
0.0120	1	.							
5369	CD2	CD2	. LEU LEU LEU B B 278 278 .	0.2398	0.2210	0.2400	0.0220	0.0019	-
0.0267	1	.							
5370	C	C	. LEU LEU LEU B B 278 278 .	0.1617	0.1640	0.1797	0.0101	0.0030	
0.0010	1	.							
5371	O	O	. LEU LEU LEU B B 278 278 .	0.1537	0.1542	0.1628	0.0127	0.0005	-
0.0077	1	.							
5372	N	N	. TYR TYR TYR B B 279 279 .	0.1152	0.1297	0.1314	-0.0028	0.0120	-
0.0022	1	.							
5373	CA	CA	. TYR TYR TYR B B 279 279 .	0.1269	0.1240	0.1317	0.0001	0.0096	-
0.0037	1	.							
5374	CB	CB	. TYR TYR TYR B B 279 279 .	0.1103	0.1080	0.1029	0.0234	0.0083	-
0.0064	1	.							
5375	CG	CG	. TYR TYR TYR B B 279 279 .	0.1154	0.0516	0.0743	0.0389	-0.0115	
0.0010	1	.							
5376	CD1	CD1	. TYR TYR TYR B B 279 279 .	0.0839	0.1066	0.1089	0.0208	-0.0158	-
0.0289	1	.							
5377	CE1	CE1	. TYR TYR TYR B B 279 279 .	0.1230	0.0969	0.1085	0.0382	0.0200	
0.0011	1	.							
5378	CZ	CZ	. TYR TYR TYR B B 279 279 .	0.1216	0.1233	0.1099	0.0363	-0.0277	-
0.0059	1	.							
5379	OH	OH	. TYR TYR TYR B B 279 279 .	0.1848	0.1141	0.1385	0.0129	0.0210	-
0.0007	1	.							
5380	CE2	CE2	. TYR TYR TYR B B 279 279 .	0.1848	0.0997	0.1011	0.0425	0.0023	
0.0194	1	.							
5381	CD2	CD2	. TYR TYR TYR B B 279 279 .	0.0877	0.0948	0.1326	0.0245	0.0238	-
0.0062	1	.							
5382	C	C	. TYR TYR TYR B B 279 279 .	0.1354	0.1350	0.1320	0.0047	0.0069	
0.0001	1	.							
5383	O	O	. TYR TYR TYR B B 279 279 .	0.1801	0.1369	0.1389	0.0112	0.0001	-
0.0121	1	.							
5384	N	N	. GLN GLN GLN B B 280 280 .	0.1445	0.1464	0.1263	0.0094	0.0179	
0.0019	1	.							
5385	CA	CA	. GLN GLN GLN B B 280 280 .	0.1471	0.1634	0.1565	0.0216	0.0076	
0.0007	1	.							
5386	CB	CB	. GLN GLN GLN B B 280 280 .	0.1868	0.1789	0.1530	0.0240	0.0055	
0.0099	1	.							
5387	CG	CG	. GLN GLN GLN B B 280 280 .	0.2182	0.2084	0.2323	0.0452	-0.0071	
0.0061	1	.							
5388	CD	CD	. GLN GLN GLN B B 280 280 .	0.3044	0.3159	0.3887	0.0443	-0.0470	-
0.0145	1	.							
5389	OE1	OE1	. GLN GLN GLN B B 280 280 .	0.3488	0.3900	0.4530	0.0368	-0.0302	-
0.0395	1	.							
5390	NE2	NE2	. GLN GLN GLN B B 280 280 .	0.3738	0.2982	0.4184	0.0511	-0.0806	
0.0688	1	.							
5391	C	C	. GLN GLN GLN B B 280 280 .	0.1508	0.1470	0.1588	0.0196	0.0182	
0.0012	1	.							

5392	O	O	. GLN GLN GLN B B 280 280 .	0.1624	0.1480	0.1526	0.0085	0.0298	-
0.0013	1	.							
5393	N	N	. ASP ASP ASP B B 281 281 .	0.1506	0.1642	0.1631	0.0408	0.0068	-
0.0136	1	.							
5394	CA	CA	. ASP ASP ASP B B 281 281 .	0.1722	0.1821	0.1844	0.0253	-0.0021	
0.0105	1	.							
5395	CB	CB	. ASP ASP ASP B B 281 281 .	0.2000	0.1820	0.1982	0.0131	0.0070	
0.0086	1	.							
5396	CG	CG	. ASP ASP ASP B B 281 281 .	0.2792	0.2705	0.2930	-0.0223	0.0095	
0.0166	1	.							
5397	OD1	OD1	. ASP ASP ASP B B 281 281 .	0.2811	0.3528	0.3407	-0.0197	0.0414	
0.0150	1	.							
5398	OD2	OD2	. ASP ASP ASP B B 281 281 .	0.3285	0.3195	0.4717	-0.0761	0.0186	
0.0139	1	.							
5399	C	C	. ASP ASP ASP B B 281 281 .	0.1608	0.1786	0.1717	0.0109	-0.0107	
0.0051	1	.							
5400	O	O	. ASP ASP ASP B B 281 281 .	0.1791	0.1759	0.1681	0.0188	0.0065	
0.0036	1	.							
5401	N	N	. PHE PHE PHE B B 282 282 .	0.1420	0.1698	0.1324	0.0023	-0.0187	
0.0055	1	.							
5402	CA	CA	. PHE PHE PHE B B 282 282 .	0.1567	0.1623	0.1546	0.0097	-0.0088	-
0.0027	1	.							
5403	CB	CB	. PHE PHE PHE B B 282 282 .	0.1969	0.1857	0.1738	0.0111	-0.0070	-
0.0259	1	.							
5404	CG	CG	. PHE PHE PHE B B 282 282 .	0.2005	0.2018	0.1811	0.0099	-0.0075	-
0.0291	1	.							
5405	CD1	CD1	. PHE PHE PHE B B 282 282 .	0.2675	0.1660	0.1632	0.0408	-0.0153	
0.0087	1	.							
5406	CE1	CE1	. PHE PHE PHE B B 282 282 .	0.2433	0.1834	0.1820	-0.0159	-0.0089	-
0.0125	1	.							
5407	CZ	CZ	. PHE PHE PHE B B 282 282 .	0.2583	0.1785	0.2397	0.0257	-0.0023	-
0.0149	1	.							
5408	CE2	CE2	. PHE PHE PHE B B 282 282 .	0.2466	0.1305	0.1980	0.0306	-0.0152	
0.0063	1	.							
5409	CD2	CD2	. PHE PHE PHE B B 282 282 .	0.1792	0.1773	0.1847	0.0241	-0.0494	-
0.0283	1	.							
5410	C	C	. PHE PHE PHE B B 282 282 .	0.1793	0.1543	0.1451	0.0136	-0.0089	-
0.0008	1	.							
5411	O	O	. PHE PHE PHE B B 282 282 .	0.1722	0.1523	0.1258	0.0261	-0.0342	-
0.0025	1	.							
5412	N	N	. VAL VAL VAL B B 283 283 .	0.1421	0.1435	0.1400	0.0176	-0.0040	-
0.0108	1	.							
5413	CA	CA	. VAL VAL VAL B B 283 283 .	0.1444	0.1510	0.1392	0.0083	0.0217	-
0.0094	1	.							
5414	CB	CB	. VAL VAL VAL B B 283 283 .	0.1536	0.1544	0.1319	0.0055	0.0053	-
0.0276	1	.							
5415	CG1	CG1	. VAL VAL VAL B B 283 283 .	0.1579	0.1907	0.1399	-0.0116	-0.0095	-
0.0315	1	.							
5416	CG2	CG2	. VAL VAL VAL B B 283 283 .	0.1496	0.1735	0.0943	-0.0096	0.0537	
0.0079	1	.							
5417	C	C	. VAL VAL VAL B B 283 283 .	0.1668	0.1567	0.1349	0.0014	0.0128	-
0.0129	1	.							
5418	O	O	. VAL VAL VAL B B 283 283 .	0.1672	0.1255	0.1508	-0.0006	0.0215	
0.0040	1	.							
5419	N	N	. ARG ARG ARG B B 284 284 .	0.1654	0.1604	0.1335	0.0020	0.0198	-
0.0097	1	.							
5420	CA	CA	. ARG ARG ARG B B 284 284 .	0.1462	0.1610	0.1599	0.0167	0.0185	-
0.0030	1	.							
5421	CB	CB	. ARG ARG ARG B B 284 284 .	0.2009	0.1759	0.1726	0.0310	0.0309	
0.0127	1	.							

5422	CG	CG	. ARG ARG ARG B B 284 284 .	0.1483	0.2056	0.1771	0.0550	-0.0047	-
0.0034	1	.							
5423	CD	CD	. ARG ARG ARG B B 284 284 .	0.2191	0.2456	0.1941	0.0636	-0.0336	-
0.0031	1	.							
5424	NE	NE	. ARG ARG ARG B B 284 284 .	0.2072	0.2168	0.1927	0.0441	-0.0316	-
0.0182	1	.							
5425	CZ	CZ	. ARG ARG ARG B B 284 284 .	0.2221	0.2185	0.2440	0.0374	-0.0243	-
0.0080	1	.							
5426	NH1	NH1	. ARG ARG ARG B B 284 284 .	0.2432	0.2217	0.2345	0.0414	0.0341	-
0.0449	1	.							
5427	NH2	NH2	. ARG ARG ARG B B 284 284 .	0.3676	0.2769	0.2364	0.0649	-0.0190	
0.0267	1	.							
5428	C	C	. ARG ARG ARG B B 284 284 .	0.1668	0.1523	0.1669	0.0116	0.0129	
0.0024	1	.							
5429	O	O	. ARG ARG ARG B B 284 284 .	0.1736	0.1741	0.1816	0.0060	0.0233	-
0.0282	1	.							
5430	N	N	. ASP ASP ASP B B 285 285 .	0.1725	0.1560	0.1450	0.0147	0.0057	-
0.0021	1	.							
5431	CA	CA	. ASP ASP ASP B B 285 285 .	0.1638	0.1605	0.1623	0.0019	0.0110	
0.0148	1	.							
5432	CB	CB	. ASP ASP ASP B B 285 285 .	0.2071	0.1794	0.1708	0.0108	0.0049	
0.0075	1	.							
5433	CG	CG	. ASP ASP ASP B B 285 285 .	0.2783	0.1947	0.2130	-0.0183	0.0102	
0.0221	1	.							
5434	OD1	OD1	. ASP ASP ASP B B 285 285 .	0.2904	0.1966	0.2355	0.0127	0.0628	
0.0335	1	.							
5435	OD2	OD2	. ASP ASP ASP B B 285 285 .	0.2934	0.2472	0.2274	-0.0737	0.0117	
0.0109	1	.							
5436	C	C	. ASP ASP ASP B B 285 285 .	0.1735	0.1617	0.1303	0.0172	-0.0077	
0.0007	1	.							
5437	O	O	. ASP ASP ASP B B 285 285 .	0.1871	0.1689	0.1559	0.0461	0.0324	
0.0207	1	.							
5438	N	N	. TYR TYR TYR B B 286 286 .	0.1597	0.1244	0.1183	-0.0055	0.0154	
0.0027	1	.							
5439	CA	CA	. TYR TYR TYR B B 286 286 .	0.1691	0.1441	0.1389	0.0237	0.0072	
0.0147	1	.							
5440	CB	CB	. TYR TYR TYR B B 286 286 .	0.1665	0.1121	0.1364	0.0191	-0.0083	
0.0086	1	.							
5441	CG	CG	. TYR TYR TYR B B 286 286 .	0.1655	0.1773	0.1618	0.0358	-0.0208	
0.0160	1	.							
5442	CD1	CD1	. TYR TYR TYR B B 286 286 .	0.2047	0.2315	0.2376	0.0834	0.0058	-
0.0017	1	.							
5443	CE1	CE1	. TYR TYR TYR B B 286 286 .	0.2961	0.2668	0.3009	-0.0048	-0.0279	
0.0199	1	.							
5444	CZ	CZ	. TYR TYR TYR B B 286 286 .	0.2979	0.2990	0.3092	-0.0059	-0.0341	-
0.0064	1	.							
5445	OH	OH	. TYR TYR TYR B B 286 286 .	0.2409	0.3960	0.3477	0.0024	-0.0028	-
0.0202	1	.							
5446	CE2	CE2	. TYR TYR TYR B B 286 286 .	0.2584	0.2638	0.2263	0.0014	-0.0251	
0.0047	1	.							
5447	CD2	CD2	. TYR TYR TYR B B 286 286 .	0.1736	0.1925	0.1476	0.0154	-0.0024	
0.0046	1	.							
5448	C	C	. TYR TYR TYR B B 286 286 .	0.1539	0.1437	0.1399	0.0200	0.0028	
0.0181	1	.							
5449	O	O	. TYR TYR TYR B B 286 286 .	0.1898	0.1492	0.1178	0.0350	0.0193	
0.0257	1	.							
5450	N	N	. PRO PRO PRO B B 287 287 .	0.1621	0.1383	0.1512	0.0392	-0.0125	
0.0255	1	.							
5451	CA	CA	. PRO PRO PRO B B 287 287 .	0.1575	0.1104	0.1445	0.0202	0.0114	
0.0257	1	.							

5452	CB	CB	. PRO PRO PRO B B 287 287 .	0.1915	0.1335	0.1416	0.0262	-0.0088	
0.0325	1	.							
5453	CG	CG	. PRO PRO PRO B B 287 287 .	0.2029	0.1384	0.1737	0.0053	0.0032	-
0.0049	1	.							
5454	CD	CD	. PRO PRO PRO B B 287 287 .	0.1725	0.1451	0.1487	0.0419	-0.0058	
0.0383	1	.							
5455	C	C	. PRO PRO PRO B B 287 287 .	0.1541	0.1394	0.1444	0.0101	0.0012	
0.0102	1	.							
5456	O	O	. PRO PRO PRO B B 287 287 .	0.1579	0.1297	0.1471	0.0093	0.0143	-
0.0052	1	.							
5457	N	N	. VAL VAL VAL B B 288 288 .	0.1298	0.1169	0.1297	0.0190	0.0119	-
0.0104	1	.							
5458	CA	CA	. VAL VAL VAL B B 288 288 .	0.1232	0.1165	0.1324	0.0271	0.0002	-
0.0029	1	.							
5459	CB	CB	. VAL VAL VAL B B 288 288 .	0.1265	0.1095	0.1179	0.0227	-0.0034	-
0.0045	1	.							
5460	CG1	CG1	. VAL VAL VAL B B 288 288 .	0.1436	0.1235	0.0553	0.0412	0.0209	-
0.0106	1	.							
5461	CG2	CG2	. VAL VAL VAL B B 288 288 .	0.1395	0.1210	0.1592	0.0282	0.0278	-
0.0134	1	.							
5462	C	C	. VAL VAL VAL B B 288 288 .	0.1420	0.1343	0.1127	0.0216	0.0134	
0.0049	1	.							
5463	O	O	. VAL VAL VAL B B 288 288 .	0.1573	0.1513	0.1098	0.0396	-0.0150	
0.0182	1	.							
5464	N	N	. VAL VAL VAL B B 289 289 .	0.1129	0.0815	0.1169	0.0080	-0.0060	
0.0140	1	.							
5465	CA	CA	. VAL VAL VAL B B 289 289 .	0.1575	0.1141	0.1195	0.0125	0.0025	-
0.0019	1	.							
5466	CB	CB	. VAL VAL VAL B B 289 289 .	0.1542	0.1326	0.1330	-0.0023	0.0280	
0.0173	1	.							
5467	CG1	CG1	. VAL VAL VAL B B 289 289 .	0.1909	0.1176	0.1402	0.0555	-0.0080	
0.0112	1	.							
5468	CG2	CG2	. VAL VAL VAL B B 289 289 .	0.1747	0.1220	0.1216	0.0316	0.0255	-
0.0061	1	.							
5469	C	C	. VAL VAL VAL B B 289 289 .	0.1314	0.1100	0.1062	0.0080	0.0055	
0.0004	1	.							
5470	O	O	. VAL VAL VAL B B 289 289 .	0.1392	0.1110	0.1051	0.0184	0.0087	
0.0081	1	.							
5471	N	N	. SER SER SER B B 290 290 .	0.1349	0.1088	0.1025	0.0135	0.0071	-
0.0057	1	.							
5472	CA	CA	. SER SER SER B B 290 290 .	0.1185	0.0965	0.1218	0.0109	-0.0001	-
0.0164	1	.							
5473	CB	CB	. SER SER SER B B 290 290 .	0.1255	0.1352	0.1177	0.0072	0.0270	-
0.0055	1	.							
5474	OG	OG	. SER SER SER B B 290 290 .	0.1616	0.1089	0.1227	0.0148	0.0178	
0.0083	1	.							
5475	C	C	. SER SER SER B B 290 290 .	0.1094	0.0919	0.1259	0.0032	-0.0147	-
0.0206	1	.							
5476	O	O	. SER SER SER B B 290 290 .	0.1471	0.1231	0.1147	0.0214	0.0102	-
0.0120	1	.							
5477	N	N	. ILE ILE ILE B B 291 291 .	0.0968	0.0659	0.0904	0.0041	-0.0096	-
0.0161	1	.							
5478	CA	CA	. ILE ILE ILE B B 291 291 .	0.0896	0.0674	0.0994	0.0018	-0.0014	-
0.0144	1	.							
5479	CB	CB	. ILE ILE ILE B B 291 291 .	0.0797	0.0677	0.1038	0.0080	0.0128	-
0.0129	1	.							
5480	CG1	CG1	. ILE ILE ILE B B 291 291 .	0.1178	0.0757	0.0826	-0.0086	0.0091	-
0.0180	1	.							
5481	CD1	CD1	. ILE ILE ILE B B 291 291 .	0.1013	0.1146	0.1145	-0.0048	0.0143	-
0.0054	1	.							









5572	N	N	. ALA ALA ALA B B 302 302 .	0.1279	0.0936	0.1139	0.0088	-0.0053	
0.0029	1	.							
5573	CA	CA	. ALA ALA ALA B B 302 302 .	0.0930	0.0891	0.1168	0.0010	-0.0247	
0.0051	1	.							
5574	CB	CB	. ALA ALA ALA B B 302 302 .	0.1031	0.0902	0.0729	0.0198	-0.0413	-
0.0009	1	.							
5575	C	C	. ALA ALA ALA B B 302 302 .	0.1125	0.0961	0.1355	0.0018	-0.0060	
0.0079	1	.							
5576	O	O	. ALA ALA ALA B B 302 302 .	0.1527	0.1026	0.1308	0.0043	0.0063	-
0.0054	1	.							
5577	N	N	. TRP TRP TRP B B 303 303 .	0.1213	0.0723	0.1101	0.0086	0.0000	
0.0027	1	.							
5578	CA	CA	. TRP TRP TRP B B 303 303 .	0.1221	0.1080	0.0973	-0.0053	-0.0077	
0.0051	1	.							
5579	CB	CB	. TRP TRP TRP B B 303 303 .	0.1251	0.1054	0.0955	0.0110	0.0018	
0.0064	1	.							
5580	CG	CG	. TRP TRP TRP B B 303 303 .	0.0824	0.0491	0.0702	0.0140	0.0036	-
0.0021	1	.							
5581	CD1	CD1	. TRP TRP TRP B B 303 303 .	0.0658	0.0735	0.0895	0.0165	-0.0063	
0.0078	1	.							
5582	NE1	NE1	. TRP TRP TRP B B 303 303 .	0.1227	0.0818	0.0881	0.0138	0.0169	
0.0257	1	.							
5583	CE2	CE2	. TRP TRP TRP B B 303 303 .	0.0828	0.0757	0.0985	-0.0040	-0.0127	-
0.0053	1	.							
5584	CD2	CD2	. TRP TRP TRP B B 303 303 .	0.0989	0.0514	0.0554	0.0093	-0.0045	
0.0136	1	.							
5585	CE3	CE3	. TRP TRP TRP B B 303 303 .	0.0907	0.0654	0.1233	-0.0050	-0.0117	
0.0488	1	.							
5586	CZ3	CZ3	. TRP TRP TRP B B 303 303 .	0.0971	0.0875	0.0483	0.0021	-0.0351	
0.0179	1	.							
5587	CH2	CH2	. TRP TRP TRP B B 303 303 .	0.0454	0.0682	0.0677	0.0020	-0.0165	-
0.0322	1	.							
5588	CZ2	CZ2	. TRP TRP TRP B B 303 303 .	0.0885	0.0657	0.1053	0.0046	0.0117	-
0.0058	1	.							
5589	C	C	. TRP TRP TRP B B 303 303 .	0.1189	0.1032	0.0876	0.0094	-0.0112	-
0.0121	1	.							
5590	O	O	. TRP TRP TRP B B 303 303 .	0.1481	0.0993	0.1017	-0.0144	-0.0027	-
0.0005	1	.							
5591	N	N	. SER SER SER B B 304 304 .	0.1440	0.1095	0.0762	-0.0008	-0.0140	-
0.0027	1	.							
5592	CA	CA	. SER SER SER B B 304 304 .	0.1297	0.1317	0.0820	0.0198	0.0007	-
0.0045	1	.							
5593	CB	CB	. SER SER SER B B 304 304 .	0.0969	0.1255	0.0912	0.0284	0.0022	-
0.0070	1	.							
5594	OG	OG	. SER SER SER B B 304 304 .	0.1228	0.1003	0.1204	0.0240	0.0035	
0.0081	1	.							
5595	C	C	. SER SER SER B B 304 304 .	0.1410	0.1324	0.1220	0.0084	0.0091	-
0.0071	1	.							
5596	O	O	. SER SER SER B B 304 304 .	0.1808	0.1211	0.0977	0.0101	0.0158	-
0.0119	1	.							
5597	N	N	. LYS LYS LYS B B 305 305 .	0.1424	0.1120	0.1243	0.0116	0.0168	
0.0076	1	.							
5598	CA	CA	. LYS LYS LYS B B 305 305 .	0.1384	0.1334	0.1601	0.0021	0.0248	
0.0135	1	.							
5599	CB	CB	. LYS LYS LYS B B 305 305 .	0.1714	0.1528	0.1535	-0.0043	0.0568	
0.0012	1	.							
5600	CG	CG	. LYS LYS LYS B B 305 305 .	0.1577	0.2066	0.2077	-0.0317	0.0490	
0.0300	1	.							
5601	CD	CD	. LYS LYS LYS B B 305 305 .	0.2336	0.2529	0.2778	-0.0800	0.0642	-
0.0323	1	.							



5632	CG	CG	. ASN ASN ASN B B 309 309 .	0.3003	0.2077	0.2250	-0.0269	0.0013	
0.0011	1	.							
5633	OD1	OD1	. ASN ASN ASN B B 309 309 .	0.3536	0.3165	0.2924	-0.0429	-0.0331	
0.0177	1	.							
5634	ND2	ND2	. ASN ASN ASN B B 309 309 .	0.3863	0.2537	0.2743	-0.0594	0.0528	-
0.0159	1	.							
5635	C	C	. ASN ASN ASN B B 309 309 .	0.1346	0.1386	0.1354	-0.0045	-0.0016	-
0.0017	1	.							
5636	O	O	. ASN ASN ASN B B 309 309 .	0.1585	0.1365	0.1695	0.0077	0.0223	
0.0108	1	.							
5637	N	N	. VAL VAL VAL B B 310 310 .	0.1536	0.1257	0.1071	-0.0047	0.0016	
0.0093	1	.							
5638	CA	CA	. VAL VAL VAL B B 310 310 .	0.1458	0.1308	0.1189	-0.0061	-0.0107	-
0.0043	1	.							
5639	CB	CB	. VAL VAL VAL B B 310 310 .	0.1561	0.1446	0.1117	-0.0198	-0.0005	-
0.0020	1	.							
5640	CG1	CG1	. VAL VAL VAL B B 310 310 .	0.2180	0.2397	0.1786	-0.0339	-0.0052	-
0.0336	1	.							
5641	CG2	CG2	. VAL VAL VAL B B 310 310 .	0.1739	0.0908	0.1128	0.0180	-0.0048	-
0.0032	1	.							
5642	C	C	. VAL VAL VAL B B 310 310 .	0.1393	0.1296	0.1026	-0.0062	-0.0055	
0.0084	1	.							
5643	O	O	. VAL VAL VAL B B 310 310 .	0.1243	0.1239	0.1169	0.0068	0.0144	-
0.0021	1	.							
5644	N	N	. GLY GLY GLY B B 311 311 .	0.1458	0.1075	0.1047	-0.0078	-0.0102	-
0.0037	1	.							
5645	CA	CA	. GLY GLY GLY B B 311 311 .	0.1365	0.1075	0.0692	-0.0230	0.0026	
0.0138	1	.							
5646	C	C	. GLY GLY GLY B B 311 311 .	0.1445	0.1188	0.0998	-0.0147	-0.0042	
0.0027	1	.							
5647	O	O	. GLY GLY GLY B B 311 311 .	0.1557	0.1367	0.0777	-0.0053	0.0013	
0.0042	1	.							
5648	N	N	. ILE ILE ILE B B 312 312 .	0.1343	0.1105	0.0806	0.0088	0.0040	-
0.0069	1	.							
5649	CA	CA	. ILE ILE ILE B B 312 312 .	0.1233	0.1123	0.0940	0.0071	-0.0015	-
0.0025	1	.							
5650	CB	CB	. ILE ILE ILE B B 312 312 .	0.1120	0.1154	0.1031	0.0132	-0.0097	-
0.0020	1	.							
5651	CG1	CG1	. ILE ILE ILE B B 312 312 .	0.1524	0.1089	0.0775	0.0020	-0.0129	-
0.0086	1	.							
5652	CD1	CD1	. ILE ILE ILE B B 312 312 .	0.1316	0.1538	0.1162	-0.0200	-0.0212	-
0.0298	1	.							
5653	CG2	CG2	. ILE ILE ILE B B 312 312 .	0.1078	0.1062	0.0994	0.0271	0.0167	-
0.0024	1	.							
5654	C	C	. ILE ILE ILE B B 312 312 .	0.1240	0.1167	0.1022	0.0073	0.0005	
0.0039	1	.							
5655	O	O	. ILE ILE ILE B B 312 312 .	0.1409	0.1340	0.1011	0.0272	-0.0091	
0.0067	1	.							
5656	N	N	. GLN GLN GLN B B 313 313 .	0.1058	0.0869	0.0966	0.0066	0.0161	
0.0301	1	.							
5657	CA	CA	. GLN GLN GLN B B 313 313 .	0.1091	0.0486	0.0693	0.0052	0.0132	
0.0266	1	.							
5658	CB	CB	. GLN GLN GLN B B 313 313 .	0.1026	0.0627	0.0382	-0.0047	0.0247	
0.0120	1	.							
5659	CG	CG	. GLN GLN GLN B B 313 313 .	0.1258	0.1079	0.0866	-0.0257	0.0421	
0.0222	1	.							
5660	CD	CD	. GLN GLN GLN B B 313 313 .	0.1337	0.0879	0.1218	-0.0160	0.0009	
0.0270	1	.							
5661	OE1	OE1	. GLN GLN GLN B B 313 313 .	0.1729	0.1567	0.1559	-0.0124	0.0234	
0.0095	1	.							



5692	N	N	. ASP ASP ASP B B 318 318 .	0.1126	0.0648	0.0534	0.0123	0.0143	
0.0000	1	.							
5693	CA	CA	. ASP ASP ASP B B 318 318 .	0.0930	0.0672	0.0786	0.0170	-0.0063	
0.0027	1	.							
5694	CB	CB	. ASP ASP ASP B B 318 318 .	0.0983	0.0566	0.0846	0.0082	-0.0195	
0.0282	1	.							
5695	CG	CG	. ASP ASP ASP B B 318 318 .	0.0630	0.0552	0.0377	0.0019	-0.0062	-
0.0187	1	.							
5696	OD1	OD1	. ASP ASP ASP B B 318 318 .	0.1179	0.1206	0.1013	0.0051	-0.0072	-
0.0103	1	.							
5697	OD2	OD2	. ASP ASP ASP B B 318 318 .	0.1298	0.1292	0.1327	0.0101	-0.0207	-
0.0031	1	.							
5698	C	C	. ASP ASP ASP B B 318 318 .	0.1148	0.1032	0.0805	0.0115	0.0002	
0.0005	1	.							
5699	O	O	. ASP ASP ASP B B 318 318 .	0.1149	0.0797	0.0665	0.0067	-0.0193	
0.0030	1	.							
5700	N	N	. LEU LEU LEU B B 319 319 .	0.0989	0.1072	0.0766	0.0062	-0.0149	-
0.0057	1	.							
5701	CA	CA	. LEU LEU LEU B B 319 319 .	0.1158	0.1132	0.0768	0.0005	-0.0162	-
0.0138	1	.							
5702	CB	CB	. LEU LEU LEU B B 319 319 .	0.1235	0.1372	0.0697	0.0174	-0.0146	
0.0033	1	.							
5703	CG	CG	. LEU LEU LEU B B 319 319 .	0.1160	0.0702	0.0597	0.0022	-0.0445	
0.0041	1	.							
5704	CD1	CD1	. LEU LEU LEU B B 319 319 .	0.1348	0.0796	0.1077	-0.0308	-0.0072	-
0.0001	1	.							
5705	CD2	CD2	. LEU LEU LEU B B 319 319 .	0.1401	0.0711	0.0522	0.0384	0.0062	
0.0083	1	.							
5706	C	C	. LEU LEU LEU B B 319 319 .	0.1124	0.1077	0.0894	0.0152	-0.0080	-
0.0073	1	.							
5707	O	O	. LEU LEU LEU B B 319 319 .	0.1396	0.1092	0.0832	0.0190	-0.0199	-
0.0028	1	.							
5708	N	N	. THR THR THR B B 320 320 .	0.1039	0.1013	0.0926	-0.0091	-0.0056	
0.0096	1	.							
5709	CA	CA	. THR THR THR B B 320 320 .	0.0992	0.0893	0.0986	-0.0027	0.0025	-
0.0008	1	.							
5710	CB	CB	. THR THR THR B B 320 320 .	0.0987	0.0908	0.0836	0.0172	-0.0174	-
0.0095	1	.							
5711	OG1	OG1	. THR THR THR B B 320 320 .	0.1203	0.0879	0.1350	0.0072	-0.0093	-
0.0198	1	.							
5712	CG2	CG2	. THR THR THR B B 320 320 .	0.1527	0.1291	0.0673	-0.0073	-0.0286	
0.0052	1	.							
5713	C	C	. THR THR THR B B 320 320 .	0.1027	0.0920	0.1006	0.0093	-0.0026	
0.0030	1	.							
5714	O	O	. THR THR THR B B 320 320 .	0.0797	0.0903	0.1128	0.0200	0.0112	
0.0092	1	.							
5715	N	N	. VAL VAL VAL B B 321 321 .	0.1207	0.0603	0.0898	0.0076	0.0007	-
0.0062	1	.							
5716	CA	CA	. VAL VAL VAL B B 321 321 .	0.1117	0.0695	0.0964	0.0059	0.0121	
0.0000	1	.							
5717	CB	CB	. VAL VAL VAL B B 321 321 .	0.1036	0.0660	0.1096	0.0117	-0.0131	-
0.0039	1	.							
5718	CG1	CG1	. VAL VAL VAL B B 321 321 .	0.0996	0.0461	0.1104	-0.0201	0.0099	-
0.0084	1	.							
5719	CG2	CG2	. VAL VAL VAL B B 321 321 .	0.1691	0.0945	0.1400	0.0276	-0.0147	
0.0053	1	.							
5720	C	C	. VAL VAL VAL B B 321 321 .	0.1149	0.0868	0.0948	0.0090	-0.0014	
0.0037	1	.							
5721	O	O	. VAL VAL VAL B B 321 321 .	0.0992	0.0984	0.1116	0.0060	0.0037	
0.0171	1	.							





5752	CB	CB	. ARG ARG ARG B B 326 326 .	0.1264	0.1026	0.1116	0.0129	-0.0157	-
0.0297	1	.							
5753	CG	CG	. ARG ARG ARG B B 326 326 .	0.2032	0.1825	0.1592	0.0043	0.0314	-
0.0504	1	.							
5754	CD	CD	. ARG ARG ARG B B 326 326 .	0.1796	0.1659	0.2117	-0.0045	0.1162	-
0.0306	1	.							
5755	NE	NE	. ARG ARG ARG B B 326 326 .	0.1227	0.1333	0.1822	0.0105	0.0168	-
0.0229	1	.							
5756	CZ	CZ	. ARG ARG ARG B B 326 326 .	0.1213	0.0998	0.1611	0.0165	0.0081	-
0.0043	1	.							
5757	NH1	NH1	. ARG ARG ARG B B 326 326 .	0.1610	0.1549	0.2120	0.0354	-0.0586	
0.0240	1	.							
5758	NH2	NH2	. ARG ARG ARG B B 326 326 .	0.1059	0.0966	0.1196	-0.0201	0.0310	
0.0253	1	.							
5759	C	C	. ARG ARG ARG B B 326 326 .	0.1186	0.1267	0.1158	0.0038	-0.0201	
0.0078	1	.							
5760	O	O	. ARG ARG ARG B B 326 326 .	0.1560	0.1449	0.1164	-0.0021	-0.0060	
0.0138	1	.							
5761	N	N	. ILE ILE ILE B B 327 327 .	0.1216	0.1163	0.0877	0.0092	-0.0282	
0.0217	1	.							
5762	CA	CA	. ILE ILE ILE B B 327 327 .	0.1276	0.1225	0.0949	-0.0058	-0.0154	
0.0145	1	.							
5763	CB	CB	. ILE ILE ILE B B 327 327 .	0.1436	0.0940	0.0893	-0.0037	-0.0308	
0.0071	1	.							
5764	CG1	CG1	. ILE ILE ILE B B 327 327 .	0.1245	0.1508	0.1144	-0.0180	-0.0122	
0.0540	1	.							
5765	CD1	CD1	. ILE ILE ILE B B 327 327 .	0.1615	0.1474	0.0951	-0.0326	0.0019	
0.0421	1	.							
5766	CG2	CG2	. ILE ILE ILE B B 327 327 .	0.1509	0.1077	0.0953	0.0056	-0.0172	-
0.0230	1	.							
5767	C	C	. ILE ILE ILE B B 327 327 .	0.1351	0.1348	0.1179	0.0006	-0.0098	
0.0108	1	.							
5768	O	O	. ILE ILE ILE B B 327 327 .	0.1353	0.1465	0.1033	-0.0021	-0.0024	-
0.0010	1	.							
5769	N	N	. GLU GLU GLU B B 328 328 .	0.1293	0.1490	0.1421	0.0082	-0.0117	
0.0149	1	.							
5770	CA	CA	. GLU GLU GLU B B 328 328 .	0.1651	0.1676	0.1543	0.0070	-0.0061	
0.0241	1	.							
5771	CB	CB	. GLU GLU GLU B B 328 328 .	0.1682	0.1984	0.2046	0.0101	-0.0049	
0.0186	1	.							
5772	CG	CG	. GLU GLU GLU B B 328 328 .	0.2904	0.2776	0.2635	-0.0301	0.0070	
0.0590	1	.							
5773	CD	CD	. GLU GLU GLU B B 328 328 .	0.4047	0.4458	0.4149	-0.0510	-0.0318	
0.0048	1	.							
5774	OE1	OE1	. GLU GLU GLU B B 328 328 .	0.4390	0.5535	0.3985	-0.0646	-0.0586	
0.0273	1	.							
5775	OE2	OE2	. GLU GLU GLU B B 328 328 .	0.3880	0.4972	0.5244	-0.0568	-0.0520	
0.0157	1	.							
5776	C	C	. GLU GLU GLU B B 328 328 .	0.1642	0.1632	0.1649	0.0135	-0.0087	
0.0124	1	.							
5777	O	O	. GLU GLU GLU B B 328 328 .	0.1942	0.1695	0.1146	0.0172	-0.0092	
0.0063	1	.							
5778	N	N	. ARG ARG ARG B B 329 329 .	0.1630	0.1519	0.1502	0.0135	-0.0178	
0.0199	1	.							
5779	CA	CA	. ARG ARG ARG B B 329 329 .	0.1646	0.1364	0.1445	0.0091	-0.0059	
0.0198	1	.							
5780	CB	CB	. ARG ARG ARG B B 329 329 .	0.1791	0.1148	0.1464	-0.0093	-0.0043	
0.0276	1	.							
5781	CG	CG	. ARG ARG ARG B B 329 329 .	0.1587	0.1596	0.1616	-0.0151	0.0164	
0.0141	1	.							

5782	CD	CD	. ARG ARG ARG B B 329 329 .	0.2362	0.1884	0.2048	-0.0154	0.0242	
0.0085	1	.							
5783	NE	NE	. ARG ARG ARG B B 329 329 .	0.1619	0.1589	0.2310	0.0307	0.0321	
0.0036	1	.							
5784	CZ	CZ	. ARG ARG ARG B B 329 329 .	0.2138	0.2138	0.2159	0.0209	0.0101	
0.0277	1	.							
5785	NH1	NH1	. ARG ARG ARG B B 329 329 .	0.2264	0.2081	0.2225	0.1107	0.0139	
0.0210	1	.							
5786	NH2	NH2	. ARG ARG ARG B B 329 329 .	0.1947	0.1974	0.2216	0.0137	-0.0098	
0.0624	1	.							
5787	C	C	. ARG ARG ARG B B 329 329 .	0.1661	0.1517	0.1551	0.0067	-0.0030	
0.0315	1	.							
5788	O	O	. ARG ARG ARG B B 329 329 .	0.1760	0.1340	0.1241	0.0160	-0.0128	
0.0204	1	.							
5789	N	N	. ALA ALA ALA B B 330 330 .	0.1339	0.1167	0.1400	0.0167	-0.0282	
0.0172	1	.							
5790	CA	CA	. ALA ALA ALA B B 330 330 .	0.1166	0.1181	0.1031	0.0092	-0.0217	
0.0074	1	.							
5791	CB	CB	. ALA ALA ALA B B 330 330 .	0.1234	0.1211	0.1060	0.0235	-0.0143	
0.0050	1	.							
5792	C	C	. ALA ALA ALA B B 330 330 .	0.1301	0.1214	0.1229	0.0002	-0.0030	-
0.0031	1	.							
5793	O	O	. ALA ALA ALA B B 330 330 .	0.1463	0.1515	0.1174	0.0093	-0.0239	-
0.0164	1	.							
5794	N	N	. VAL VAL VAL B B 331 331 .	0.1283	0.1418	0.1079	-0.0147	-0.0237	-
0.0170	1	.							
5795	CA	CA	. VAL VAL VAL B B 331 331 .	0.1592	0.1658	0.1417	-0.0244	-0.0270	-
0.0108	1	.							
5796	CB	CB	. VAL VAL VAL B B 331 331 .	0.1698	0.1726	0.1303	-0.0332	-0.0252	-
0.0077	1	.							
5797	CG1	CG1	. VAL VAL VAL B B 331 331 .	0.2048	0.2502	0.1580	-0.0232	-0.0560	-
0.0425	1	.							
5798	CG2	CG2	. VAL VAL VAL B B 331 331 .	0.1837	0.1701	0.1518	-0.0258	-0.0055	-
0.0294	1	.							
5799	C	C	. VAL VAL VAL B B 331 331 .	0.1502	0.1795	0.1434	-0.0174	-0.0135	-
0.0087	1	.							
5800	O	O	. VAL VAL VAL B B 331 331 .	0.2043	0.2310	0.1669	-0.0113	-0.0379	-
0.0157	1	.							
5801	N	N	. GLU GLU GLU B B 332 332 .	0.1975	0.1915	0.1616	-0.0015	-0.0089	
0.0154	1	.							
5802	CA	CA	. GLU GLU GLU B B 332 332 .	0.2240	0.2245	0.1767	0.0099	0.0038	
0.0293	1	.							
5803	CB	CB	. GLU GLU GLU B B 332 332 .	0.2422	0.2425	0.2110	0.0102	-0.0028	
0.0276	1	.							
5804	CG	CG	. GLU GLU GLU B B 332 332 .	0.3738	0.3363	0.3084	0.0448	-0.0015	
0.0474	1	.							
5805	CD	CD	. GLU GLU GLU B B 332 332 .	0.5459	0.5058	0.4630	-0.0276	-0.0203	
0.0502	1	.							
5806	OE1	OE1	. GLU GLU GLU B B 332 332 .	0.6299	0.5400	0.3992	0.0175	-0.0154	
0.1295	1	.							
5807	OE2	OE2	. GLU GLU GLU B B 332 332 .	0.5987	0.6595	0.4572	-0.0023	0.0053	
0.0766	1	.							
5808	C	C	. GLU GLU GLU B B 332 332 .	0.2159	0.2173	0.1699	0.0140	0.0035	
0.0169	1	.							
5809	O	O	. GLU GLU GLU B B 332 332 .	0.2220	0.2556	0.1733	0.0201	0.0255	
0.0321	1	.							
5810	N	N	. GLU GLU GLU B B 333 333 .	0.1733	0.1829	0.1554	0.0136	0.0086	
0.0253	1	.							
5811	CA	CA	. GLU GLU GLU B B 333 333 .	0.1844	0.1720	0.1693	0.0029	0.0013	
0.0067	1	.							



5842	CG	CG	. ASN ASN ASN B B 337 337 .	0.1046	0.0947	0.1182	-0.0135	-0.0016	-
0.0144	1	.							
5843	OD1	OD1	. ASN ASN ASN B B 337 337 .	0.1465	0.1239	0.1019	0.0033	0.0077	-
0.0140	1	.							
5844	ND2	ND2	. ASN ASN ASN B B 337 337 .	0.1678	0.1061	0.1317	0.0066	0.0584	-
0.0476	1	.							
5845	C	C	. ASN ASN ASN B B 337 337 .	0.1391	0.1069	0.1046	-0.0003	-0.0029	-
0.0051	1	.							
5846	O	O	. ASN ASN ASN B B 337 337 .	0.1702	0.0960	0.1122	-0.0241	-0.0130	-
0.0121	1	.							
5847	N	N	. CYS CYS CYS B B 338 338 .	0.1109	0.0813	0.0782	-0.0146	-0.0005	-
0.0044	1	.							
5848	CA	CA	. CYS CYS CYS B B 338 338 .	0.1194	0.1072	0.0731	0.0129	0.0009	-
0.0012	1	.							
5849	CB	CB	. CYS CYS CYS B B 338 338 .	0.0857	0.0783	0.0630	0.0110	0.0005	-
0.0312	1	.							
5850	SG	SG	. CYS CYS CYS B B 338 338 .	0.1360	0.1297	0.1094	0.0020	-0.0139	-
0.0253	1	.							
5851	C	C	. CYS CYS CYS B B 338 338 .	0.1230	0.1089	0.0833	-0.0031	0.0095	-
0.0025	1	.							
5852	O	O	. CYS CYS CYS B B 338 338 .	0.1277	0.1108	0.1000	-0.0064	0.0006	-
0.0051	1	.							
5853	N	N	. LEU LEU LEU B B 339 339 .	0.1072	0.1064	0.0995	-0.0004	0.0014	-
0.0094	1	.							
5854	CA	CA	. LEU LEU LEU B B 339 339 .	0.1006	0.0889	0.0665	0.0057	0.0049	-
0.0090	1	.							
5855	CB	CB	. LEU LEU LEU B B 339 339 .	0.1130	0.0897	0.1046	0.0162	0.0064	-
0.0175	1	.							
5856	CG	CG	. LEU LEU LEU B B 339 339 .	0.0890	0.0907	0.0425	0.0098	0.0255	-
0.0250	1	.							
5857	CD1	CD1	. LEU LEU LEU B B 339 339 .	0.1236	0.0572	0.1191	0.0052	-0.0168	-
0.0491	1	.							
5858	CD2	CD2	. LEU LEU LEU B B 339 339 .	0.1047	0.1096	0.0851	0.0306	0.0074	-
0.0308	1	.							
5859	C	C	. LEU LEU LEU B B 339 339 .	0.1119	0.1025	0.0831	-0.0032	-0.0093	-
0.0032	1	.							
5860	O	O	. LEU LEU LEU B B 339 339 .	0.1383	0.1150	0.0939	-0.0006	-0.0130	-
0.0041	1	.							
5861	N	N	. LEU LEU LEU B B 340 340 .	0.1154	0.0914	0.0728	0.0018	-0.0178	-
0.0173	1	.							
5862	CA	CA	. LEU LEU LEU B B 340 340 .	0.1197	0.0896	0.0860	0.0071	-0.0142	-
0.0230	1	.							
5863	CB	CB	. LEU LEU LEU B B 340 340 .	0.1193	0.0926	0.0653	0.0040	-0.0362	-
0.0249	1	.							
5864	CG	CG	. LEU LEU LEU B B 340 340 .	0.1223	0.0840	0.0836	0.0535	-0.0363	-
0.0085	1	.							
5865	CD1	CD1	. LEU LEU LEU B B 340 340 .	0.1475	0.0915	0.1059	0.0432	0.0220	-
0.0057	1	.							
5866	CD2	CD2	. LEU LEU LEU B B 340 340 .	0.0915	0.1022	0.0971	-0.0139	-0.0079	-
0.0053	1	.							
5867	C	C	. LEU LEU LEU B B 340 340 .	0.1321	0.1085	0.1286	0.0021	-0.0079	-
0.0201	1	.							
5868	O	O	. LEU LEU LEU B B 340 340 .	0.1566	0.1110	0.1497	0.0205	-0.0063	-
0.0162	1	.							
5869	N	N	. LEU LEU LEU B B 341 341 .	0.1274	0.0961	0.1069	0.0000	-0.0208	-
0.0263	1	.							
5870	CA	CA	. LEU LEU LEU B B 341 341 .	0.1326	0.0952	0.0952	0.0021	-0.0164	-
0.0167	1	.							
5871	CB	CB	. LEU LEU LEU B B 341 341 .	0.1245	0.1011	0.0911	-0.0065	-0.0196	-
0.0011	1	.							

5872	CG	CG	. LEU LEU LEU B B 341 341 .	0.1258	0.0890	0.1461	0.0146	-0.0168	
0.0469	1	.							
5873	CD1	CD1	. LEU LEU LEU B B 341 341 .	0.2226	0.2142	0.1887	-0.0021	-0.1121	
0.0056	1	.							
5874	CD2	CD2	. LEU LEU LEU B B 341 341 .	0.1315	0.1711	0.2318	-0.0337	-0.0313	
0.0083	1	.							
5875	C	C	. LEU LEU LEU B B 341 341 .	0.1507	0.1019	0.1049	0.0107	-0.0191	-
0.0082	1	.							
5876	O	O	. LEU LEU LEU B B 341 341 .	0.1798	0.1084	0.0778	0.0227	-0.0335	
0.0148	1	.							
5877	N	N	. LYS LYS LYS B B 342 342 .	0.1463	0.0999	0.1086	0.0015	-0.0062	-
0.0154	1	.							
5878	CA	CA	. LYS LYS LYS B B 342 342 .	0.1383	0.1227	0.0968	0.0073	-0.0066	
0.0118	1	.							
5879	CB	CB	. LYS LYS LYS B B 342 342 .	0.1095	0.1107	0.0606	-0.0095	-0.0135	
0.0136	1	.							
5880	CG	CG	. LYS LYS LYS B B 342 342 .	0.1788	0.1292	0.0968	-0.0002	0.0174	
0.0552	1	.							
5881	CD	CD	. LYS LYS LYS B B 342 342 .	0.1288	0.1461	0.0803	-0.0141	-0.0175	-
0.0097	1	.							
5882	CE	CE	. LYS LYS LYS B B 342 342 .	0.1579	0.1607	0.0772	0.0033	0.0280	-
0.0332	1	.							
5883	NZ	NZ	. LYS LYS LYS B B 342 342 .	0.2229	0.1495	0.1290	0.0015	0.0183	-
0.0216	1	.							
5884	C	C	. LYS LYS LYS B B 342 342 .	0.1376	0.1128	0.1046	0.0080	0.0061	-
0.0069	1	.							
5885	O	O	. LYS LYS LYS B B 342 342 .	0.1805	0.1292	0.0995	0.0165	0.0005	
0.0006	1	.							
5886	N	N	. VAL VAL VAL B B 343 343 .	0.1373	0.1132	0.0920	0.0132	0.0063	-
0.0028	1	.							
5887	CA	CA	. VAL VAL VAL B B 343 343 .	0.1099	0.1166	0.1140	0.0018	-0.0105	-
0.0063	1	.							
5888	CB	CB	. VAL VAL VAL B B 343 343 .	0.0984	0.1250	0.1347	-0.0008	-0.0395	-
0.0087	1	.							
5889	CG1	CG1	. VAL VAL VAL B B 343 343 .	0.1700	0.1265	0.1778	-0.0196	-0.0213	-
0.0005	1	.							
5890	CG2	CG2	. VAL VAL VAL B B 343 343 .	0.1858	0.1533	0.1270	0.0499	-0.0499	
0.0205	1	.							
5891	C	C	. VAL VAL VAL B B 343 343 .	0.1071	0.1140	0.1226	-0.0039	-0.0043	
0.0017	1	.							
5892	O	O	. VAL VAL VAL B B 343 343 .	0.1349	0.1167	0.1296	0.0144	-0.0260	
0.0055	1	.							
5893	N	N	. ASN ASN ASN B B 344 344 .	0.1118	0.1021	0.0970	0.0091	-0.0257	
0.0112	1	.							
5894	CA	CA	. ASN ASN ASN B B 344 344 .	0.1148	0.0832	0.0910	0.0047	-0.0190	
0.0155	1	.							
5895	CB	CB	. ASN ASN ASN B B 344 344 .	0.0995	0.1071	0.0841	0.0006	0.0012	
0.0175	1	.							
5896	CG	CG	. ASN ASN ASN B B 344 344 .	0.1136	0.0987	0.0931	0.0010	-0.0287	
0.0274	1	.							
5897	OD1	OD1	. ASN ASN ASN B B 344 344 .	0.1347	0.1476	0.1727	0.0435	-0.0181	-
0.0023	1	.							
5898	ND2	ND2	. ASN ASN ASN B B 344 344 .	0.1199	0.1286	0.0932	0.0121	0.0354	-
0.0227	1	.							
5899	C	C	. ASN ASN ASN B B 344 344 .	0.1480	0.1097	0.1124	0.0074	-0.0131	
0.0133	1	.							
5900	O	O	. ASN ASN ASN B B 344 344 .	0.1589	0.1274	0.1257	0.0147	-0.0148	
0.0092	1	.							
5901	N	N	. GLN GLN GLN B B 345 345 .	0.1115	0.0948	0.0869	0.0172	0.0042	
0.0307	1	.							





5962	C	C	. ILE ILE ILE B B 353 353 .	0.1242	0.1506	0.1243	-0.0135	-0.0033	
0.0102	1	.							
5963	O	O	. ILE ILE ILE B B 353 353 .	0.1522	0.1376	0.1216	-0.0174	-0.0021	-
0.0208	1	.							
5964	N	N	. GLN GLN GLN B B 354 354 .	0.1707	0.1184	0.1199	-0.0066	-0.0136	
0.0143	1	.							
5965	CA	CA	. GLN GLN GLN B B 354 354 .	0.1836	0.1663	0.1417	0.0177	-0.0159	
0.0154	1	.							
5966	CB	CB	. GLN GLN GLN B B 354 354 .	0.2337	0.1929	0.1470	0.0572	-0.0290	
0.0168	1	.							
5967	CG	CG	. GLN GLN GLN B B 354 354 .	0.3142	0.2833	0.2825	0.0752	-0.0272	
0.0284	1	.							
5968	CD	CD	. GLN GLN GLN B B 354 354 .	0.4119	0.3625	0.3770	0.1026	0.0091	
0.0153	1	.							
5969	OE1	OE1	. GLN GLN GLN B B 354 354 .	0.3736	0.5108	0.4078	0.1413	0.0383	-
0.0415	1	.							
5970	NE2	NE2	. GLN GLN GLN B B 354 354 .	0.4060	0.4478	0.3173	0.0919	-0.0070	
0.0959	1	.							
5971	C	C	. GLN GLN GLN B B 354 354 .	0.1786	0.1561	0.1454	0.0243	-0.0080	
0.0087	1	.							
5972	O	O	. GLN GLN GLN B B 354 354 .	0.1860	0.1661	0.1371	-0.0036	0.0185	
0.0034	1	.							
5973	N	N	. ALA ALA ALA B B 355 355 .	0.1151	0.1015	0.1233	0.0124	-0.0112	-
0.0072	1	.							
5974	CA	CA	. ALA ALA ALA B B 355 355 .	0.1297	0.1042	0.1124	0.0072	-0.0106	-
0.0025	1	.							
5975	CB	CB	. ALA ALA ALA B B 355 355 .	0.1404	0.1134	0.1160	0.0102	-0.0163	
0.0145	1	.							
5976	C	C	. ALA ALA ALA B B 355 355 .	0.1375	0.1205	0.1287	-0.0071	-0.0046	
0.0064	1	.							
5977	O	O	. ALA ALA ALA B B 355 355 .	0.1554	0.1331	0.1221	0.0049	-0.0382	
0.0258	1	.							
5978	N	N	. CYS CYS CYS B B 356 356 .	0.1666	0.1271	0.1302	0.0017	-0.0192	
0.0213	1	.							
5979	CA	CA	. CYS CYS CYS B B 356 356 .	0.1740	0.1361	0.1178	-0.0005	-0.0087	
0.0034	1	.							
5980	CB	CB	. CYS CYS CYS B B 356 356 .	0.1850	0.1438	0.1480	0.0038	-0.0079	-
0.0009	1	.							
5981	SG	SG	. CYS CYS CYS B B 356 356 .	0.2125	0.1340	0.1243	-0.0095	-0.0100	
0.0012	1	.							
5982	C	C	. CYS CYS CYS B B 356 356 .	0.1652	0.1457	0.1401	-0.0098	-0.0096	-
0.0007	1	.							
5983	O	O	. CYS CYS CYS B B 356 356 .	0.1894	0.1403	0.1284	0.0206	-0.0108	
0.0178	1	.							
5984	N	N	. LYS LYS LYS B B 357 357 .	0.1802	0.1376	0.1595	-0.0046	-0.0265	
0.0067	1	.							
5985	CA	CA	. LYS LYS LYS B B 357 357 .	0.1811	0.1751	0.1576	-0.0127	-0.0258	
0.0211	1	.							
5986	CB	CB	. LYS LYS LYS B B 357 357 .	0.1811	0.2041	0.1820	-0.0201	-0.0119	
0.0382	1	.							
5987	CG	CG	. LYS LYS LYS B B 357 357 .	0.2388	0.2736	0.2422	-0.0372	-0.0575	
0.0411	1	.							
5988	CD	CD	. LYS LYS LYS B B 357 357 .	0.2953	0.4231	0.3414	-0.0953	-0.0327	
0.0284	1	.							
5989	CE	CE	. LYS LYS LYS B B 357 357 .	0.3848	0.5517	0.3250	-0.1114	-0.0501	
0.0387	1	.							
5990	NZ	NZ	. LYS LYS LYS B B 357 357 .	0.4097	0.5750	0.3991	-0.0898	0.0293	
0.1017	1	.							
5991	C	C	. LYS LYS LYS B B 357 357 .	0.1844	0.1701	0.1705	-0.0111	-0.0181	
0.0051	1	.							



5992	O	O	. LYS LYS LYS B B 357 357 .	0.1867	0.1751	0.1385	-0.0243	-0.0256	
0.0011	1	.							
5993	N	N	. LEU LEU LEU B B 358 358 .	0.1810	0.1586	0.1654	0.0134	-0.0239	
0.0065	1	.							
5994	CA	CA	. LEU LEU LEU B B 358 358 .	0.1714	0.1376	0.1730	-0.0029	-0.0112	
0.0052	1	.							
5995	CB	CB	. LEU LEU LEU B B 358 358 .	0.1854	0.1532	0.1567	-0.0007	-0.0195	-
0.0079	1	.							
5996	CG	CG	. LEU LEU LEU B B 358 358 .	0.2144	0.1666	0.1901	-0.0026	-0.0440	
0.0018	1	.							
5997	CD1	CD1	. LEU LEU LEU B B 358 358 .	0.2983	0.1987	0.2181	0.0101	-0.0640	
0.0209	1	.							
5998	CD2	CD2	. LEU LEU LEU B B 358 358 .	0.2100	0.2056	0.1859	0.0186	-0.0531	-
0.0035	1	.							
5999	C	C	. LEU LEU LEU B B 358 358 .	0.1835	0.1487	0.1636	-0.0012	-0.0144	
0.0037	1	.							
6000	O	O	. LEU LEU LEU B B 358 358 .	0.1965	0.1290	0.1635	0.0108	-0.0429	
0.0010	1	.							
6001	N	N	. ALA ALA ALA B B 359 359 .	0.1547	0.1263	0.1344	-0.0038	-0.0323	
0.0145	1	.							
6002	CA	CA	. ALA ALA ALA B B 359 359 .	0.1644	0.1436	0.1454	-0.0014	-0.0294	-
0.0001	1	.							
6003	CB	CB	. ALA ALA ALA B B 359 359 .	0.1909	0.1477	0.1651	0.0028	-0.0458	
0.0142	1	.							
6004	C	C	. ALA ALA ALA B B 359 359 .	0.1819	0.1428	0.1590	0.0038	-0.0108	
0.0057	1	.							
6005	O	O	. ALA ALA ALA B B 359 359 .	0.1892	0.1424	0.1380	0.0130	-0.0240	-
0.0112	1	.							
6006	N	N	. GLN GLN GLN B B 360 360 .	0.1910	0.1519	0.1498	-0.0157	-0.0221	-
0.0042	1	.							
6007	CA	CA	. GLN GLN GLN B B 360 360 .	0.1865	0.1420	0.1431	-0.0045	-0.0341	-
0.0057	1	.							
6008	CB	CB	. GLN GLN GLN B B 360 360 .	0.2094	0.1329	0.1276	0.0060	-0.0311	-
0.0243	1	.							
6009	CG	CG	. GLN GLN GLN B B 360 360 .	0.1708	0.1697	0.1138	-0.0220	-0.0435	
0.0301	1	.							
6010	CD	CD	. GLN GLN GLN B B 360 360 .	0.2092	0.1930	0.1696	-0.0186	-0.0362	
0.0093	1	.							
6011	OE1	OE1	. GLN GLN GLN B B 360 360 .	0.2232	0.2399	0.1671	-0.0296	-0.0673	
0.0306	1	.							
6012	NE2	NE2	. GLN GLN GLN B B 360 360 .	0.2625	0.1820	0.1719	0.0246	-0.0451	-
0.0036	1	.							
6013	C	C	. GLN GLN GLN B B 360 360 .	0.1974	0.1796	0.1627	-0.0072	-0.0308	-
0.0022	1	.							
6014	O	O	. GLN GLN GLN B B 360 360 .	0.2066	0.1794	0.1621	-0.0137	-0.0334	
0.0204	1	.							
6015	N	N	. GLU GLU GLU B B 361 361 .	0.2035	0.1838	0.1900	-0.0150	-0.0382	
0.0050	1	.							
6016	CA	CA	. GLU GLU GLU B B 361 361 .	0.2359	0.2265	0.1881	-0.0171	-0.0321	
0.0078	1	.							
6017	CB	CB	. GLU GLU GLU B B 361 361 .	0.2083	0.2730	0.2039	-0.0168	-0.0201	
0.0248	1	.							
6018	CG	CG	. GLU GLU GLU B B 361 361 .	0.3325	0.4285	0.3606	-0.0281	-0.0119	
0.0074	1	.							
6019	CD	CD	. GLU GLU GLU B B 361 361 .	0.4282	0.5072	0.5480	0.0275	0.0054	
0.0228	1	.							
6020	OE1	OE1	. GLU GLU GLU B B 361 361 .	0.4611	0.6463	0.6400	0.0006	0.0174	
0.0159	1	.							
6021	OE2	OE2	. GLU GLU GLU B B 361 361 .	0.4014	0.5285	0.5769	-0.0053	-0.0173	
0.0549	1	.							

6022	C	C	. GLU GLU GLU B B 361 361 .	0.2110	0.2121	0.1759	-0.0194	-0.0349	
0.0053	1	.							
6023	O	O	. GLU GLU GLU B B 361 361 .	0.2395	0.2228	0.1785	-0.0429	-0.0571	
0.0046	1	.							
6024	N	N	. ASN ASN ASN B B 362 362 .	0.2141	0.1736	0.1519	-0.0334	-0.0258	
0.0090	1	.							
6025	CA	CA	. ASN ASN ASN B B 362 362 .	0.2077	0.1846	0.1542	-0.0216	-0.0324	-
0.0115	1	.							
6026	CB	CB	. ASN ASN ASN B B 362 362 .	0.2249	0.1624	0.1666	-0.0157	-0.0397	
0.0006	1	.							
6027	CG	CG	. ASN ASN ASN B B 362 362 .	0.2347	0.2255	0.1626	-0.0090	-0.0352	
0.0030	1	.							
6028	OD1	OD1	. ASN ASN ASN B B 362 362 .	0.3014	0.1971	0.1692	-0.0206	-0.0673	
0.0597	1	.							
6029	ND2	ND2	. ASN ASN ASN B B 362 362 .	0.2168	0.2378	0.1755	0.0131	-0.0566	
0.0593	1	.							
6030	C	C	. ASN ASN ASN B B 362 362 .	0.2073	0.1874	0.1574	-0.0256	-0.0228	-
0.0071	1	.							
6031	O	O	. ASN ASN ASN B B 362 362 .	0.2001	0.2078	0.1357	-0.0228	-0.0109	-
0.0023	1	.							
6032	N	N	. GLY GLY GLY B B 363 363 .	0.1934	0.1956	0.1171	-0.0006	-0.0470	
0.0106	1	.							
6033	CA	CA	. GLY GLY GLY B B 363 363 .	0.2016	0.2061	0.1240	0.0053	-0.0169	-
0.0297	1	.							
6034	C	C	. GLY GLY GLY B B 363 363 .	0.1923	0.2003	0.1651	0.0204	-0.0098	-
0.0291	1	.							
6035	O	O	. GLY GLY GLY B B 363 363 .	0.2339	0.2316	0.1910	0.0120	-0.0105	-
0.0442	1	.							
6036	N	N	. TRP TRP TRP B B 364 364 .	0.1941	0.1395	0.1377	0.0079	-0.0335	-
0.0215	1	.							
6037	CA	CA	. TRP TRP TRP B B 364 364 .	0.1835	0.1302	0.1384	0.0097	-0.0264	-
0.0043	1	.							
6038	CB	CB	. TRP TRP TRP B B 364 364 .	0.1835	0.1001	0.1340	0.0048	-0.0204	-
0.0042	1	.							
6039	CG	CG	. TRP TRP TRP B B 364 364 .	0.1808	0.1274	0.1113	0.0024	-0.0313	
0.0147	1	.							
6040	CD1	CD1	. TRP TRP TRP B B 364 364 .	0.1945	0.1668	0.1734	-0.0109	-0.0218	
0.0092	1	.							
6041	NE1	NE1	. TRP TRP TRP B B 364 364 .	0.1700	0.1477	0.1169	-0.0264	-0.0204	-
0.0016	1	.							
6042	CE2	CE2	. TRP TRP TRP B B 364 364 .	0.1671	0.1517	0.1220	-0.0098	-0.0191	-
0.0057	1	.							
6043	CD2	CD2	. TRP TRP TRP B B 364 364 .	0.1399	0.0877	0.0961	0.0306	-0.0296	
0.0055	1	.							
6044	CE3	CE3	. TRP TRP TRP B B 364 364 .	0.1293	0.1182	0.1021	-0.0159	-0.0306	-
0.0353	1	.							
6045	CZ3	CZ3	. TRP TRP TRP B B 364 364 .	0.0980	0.1118	0.1573	0.0529	0.0185	-
0.0151	1	.							
6046	CH2	CH2	. TRP TRP TRP B B 364 364 .	0.1571	0.0864	0.0904	0.0151	-0.0049	-
0.0206	1	.							
6047	CZ2	CZ2	. TRP TRP TRP B B 364 364 .	0.1808	0.1578	0.1402	0.0206	-0.0224	-
0.0271	1	.							
6048	C	C	. TRP TRP TRP B B 364 364 .	0.1765	0.1262	0.1293	-0.0084	-0.0172	-
0.0127	1	.							
6049	O	O	. TRP TRP TRP B B 364 364 .	0.1909	0.1397	0.1141	-0.0201	-0.0197	-
0.0113	1	.							
6050	N	N	. GLY GLY GLY B B 365 365 .	0.1857	0.1258	0.1489	0.0230	-0.0112	
0.0051	1	.							
6051	CA	CA	. GLY GLY GLY B B 365 365 .	0.1776	0.1332	0.1050	0.0184	-0.0205	-
0.0071	1	.							

6052	C	C	. GLY GLY GLY B B 365 365 .	0.1409	0.1150	0.0902	0.0078	-0.0106	-
0.0061	1	.							
6053	O	O	. GLY GLY GLY B B 365 365 .	0.1578	0.1222	0.0764	-0.0119	-0.0359	
0.0012	1	.							
6054	N	N	. VAL VAL VAL B B 366 366 .	0.1401	0.1133	0.0910	0.0005	-0.0342	-
0.0115	1	.							
6055	CA	CA	. VAL VAL VAL B B 366 366 .	0.1285	0.0991	0.0983	0.0222	-0.0213	-
0.0005	1	.							
6056	CB	CB	. VAL VAL VAL B B 366 366 .	0.1416	0.1123	0.1024	0.0136	-0.0241	
0.0026	1	.							
6057	CG1	CG1	. VAL VAL VAL B B 366 366 .	0.1899	0.1415	0.0839	0.0111	0.0046	
0.0033	1	.							
6058	CG2	CG2	. VAL VAL VAL B B 366 366 .	0.1389	0.1431	0.1683	0.0230	-0.0358	
0.0049	1	.							
6059	C	C	. VAL VAL VAL B B 366 366 .	0.1332	0.1239	0.1105	0.0067	-0.0265	
0.0015	1	.							
6060	O	O	. VAL VAL VAL B B 366 366 .	0.1365	0.1095	0.1155	0.0076	-0.0343	-
0.0090	1	.							
6061	N	N	. MET MET MET B B 367 367 .	0.1101	0.1159	0.0843	0.0115	-0.0184	-
0.0099	1	.							
6062	CA	CA	. MET MET MET B B 367 367 .	0.1120	0.0948	0.0855	0.0082	-0.0132	-
0.0091	1	.							
6063	CB	CB	. MET MET MET B B 367 367 .	0.0885	0.1127	0.0922	0.0215	-0.0132	-
0.0069	1	.							
6064	CG	CG	. MET MET MET B B 367 367 .	0.1244	0.1061	0.0481	0.0338	-0.0167	
0.0002	1	.							
6065	SD	SD	. MET MET MET B B 367 367 .	0.1628	0.1183	0.1256	0.0179	-0.0003	-
0.0081	1	.							
6066	CE	CE	. MET MET MET B B 367 367 .	0.1633	0.1811	0.1433	0.0205	0.0084	-
0.0577	1	.							
6067	C	C	. MET MET MET B B 367 367 .	0.1097	0.1058	0.0987	0.0066	-0.0024	
0.0072	1	.							
6068	O	O	. MET MET MET B B 367 367 .	0.1146	0.0792	0.1092	-0.0034	-0.0032	-
0.0013	1	.							
6069	N	N	. VAL VAL VAL B B 368 368 .	0.1052	0.1048	0.0653	-0.0008	0.0084	-
0.0040	1	.							
6070	CA	CA	. VAL VAL VAL B B 368 368 .	0.1178	0.1039	0.0799	0.0018	0.0060	-
0.0004	1	.							
6071	CB	CB	. VAL VAL VAL B B 368 368 .	0.1305	0.1224	0.0904	-0.0029	0.0105	
0.0004	1	.							
6072	CG1	CG1	. VAL VAL VAL B B 368 368 .	0.0943	0.1443	0.0409	-0.0070	0.0326	
0.0005	1	.							
6073	CG2	CG2	. VAL VAL VAL B B 368 368 .	0.1318	0.1304	0.1233	-0.0020	-0.0087	-
0.0162	1	.							
6074	C	C	. VAL VAL VAL B B 368 368 .	0.1109	0.1075	0.0593	0.0088	0.0008	-
0.0047	1	.							
6075	O	O	. VAL VAL VAL B B 368 368 .	0.1159	0.1001	0.0808	0.0099	-0.0188	-
0.0011	1	.							
6076	N	N	. SER SER SER B B 369 369 .	0.1146	0.0611	0.0866	0.0015	-0.0238	
0.0106	1	.							
6077	CA	CA	. SER SER SER B B 369 369 .	0.1094	0.1102	0.0891	-0.0101	-0.0118	-
0.0003	1	.							
6078	CB	CB	. SER SER SER B B 369 369 .	0.1005	0.1034	0.0822	-0.0123	-0.0152	
0.0095	1	.							
6079	OG	OG	. SER SER SER B B 369 369 .	0.1046	0.0990	0.0863	-0.0133	-0.0225	
0.0183	1	.							
6080	C	C	. SER SER SER B B 369 369 .	0.0931	0.0940	0.0741	0.0110	-0.0029	
0.0099	1	.							
6081	O	O	. SER SER SER B B 369 369 .	0.1074	0.1158	0.0823	0.0207	-0.0009	
0.0128	1	.							

6082	N	N	. HIS HIS HIS B B 370 370 .	0.1148	0.0966	0.0694	0.0242	-0.0003	-
0.0089	1	.							
6083	CA	CA	. HIS HIS HIS B B 370 370 .	0.1110	0.0767	0.0779	0.0205	-0.0087	-
0.0092	1	.							
6084	CB	CB	. HIS HIS HIS B B 370 370 .	0.1184	0.0743	0.0632	0.0085	-0.0075	-
0.0004	1	.							
6085	CG	CG	. HIS HIS HIS B B 370 370 .	0.1005	0.0493	0.0743	0.0293	-0.0109	-
0.0164	1	.							
6086	ND1	ND1	. HIS HIS HIS B B 370 370 .	0.1213	0.1039	0.0497	0.0024	-0.0171	-
0.0196	1	.							
6087	CE1	CE1	. HIS HIS HIS B B 370 370 .	0.1658	0.1572	0.1299	0.0463	0.0204	-
0.0153	1	.							
6088	NE2	NE2	. HIS HIS HIS B B 370 370 .	0.1352	0.1110	0.1015	0.0480	0.0034	
0.0166	1	.							
6089	CD2	CD2	. HIS HIS HIS B B 370 370 .	0.1296	0.1326	0.1088	0.0074	0.0223	-
0.0068	1	.							
6090	C	C	. HIS HIS HIS B B 370 370 .	0.1292	0.0866	0.0987	0.0136	0.0064	-
0.0011	1	.							
6091	O	O	. HIS HIS HIS B B 370 370 .	0.1276	0.1003	0.0994	0.0286	-0.0046	
0.0096	1	.							
6092	N	N	. ARG ARG ARG B B 371 371 .	0.1224	0.0835	0.0743	0.0177	-0.0081	
0.0024	1	.							
6093	CA	CA	. ARG ARG ARG B B 371 371 .	0.0828	0.0912	0.0945	0.0145	-0.0031	
0.0087	1	.							
6094	CB	CB	. ARG ARG ARG B B 371 371 .	0.0743	0.0759	0.0540	0.0351	0.0002	
0.0133	1	.							
6095	CG	CG	. ARG ARG ARG B B 371 371 .	0.0914	0.1018	0.0489	0.0063	-0.0266	
0.0286	1	.							
6096	CD	CD	. ARG ARG ARG B B 371 371 .	0.0860	0.0677	0.0629	-0.0061	-0.0111	
0.0289	1	.							
6097	NE	NE	. ARG ARG ARG B B 371 371 .	0.1750	0.1002	0.0898	-0.0066	-0.0142	
0.0348	1	.							
6098	CZ	CZ	. ARG ARG ARG B B 371 371 .	0.0722	0.0758	0.1185	0.0264	-0.0057	
0.0141	1	.							
6099	NH1	NH1	. ARG ARG ARG B B 371 371 .	0.0928	0.0649	0.0817	0.0167	-0.0064	-
0.0030	1	.							
6100	NH2	NH2	. ARG ARG ARG B B 371 371 .	0.1424	0.0591	0.0795	0.0190	-0.0098	
0.0284	1	.							
6101	C	C	. ARG ARG ARG B B 371 371 .	0.0919	0.1017	0.0834	0.0105	-0.0080	
0.0075	1	.							
6102	O	O	. ARG ARG ARG B B 371 371 .	0.1164	0.0936	0.0943	0.0104	-0.0086	
0.0110	1	.							
6103	N	N	. SER SER SER B B 372 372 .	0.0872	0.0809	0.0737	0.0065	-0.0170	-
0.0145	1	.							
6104	CA	CA	. SER SER SER B B 372 372 .	0.1040	0.1009	0.1012	0.0259	-0.0146	-
0.0030	1	.							
6105	CB	CB	. SER SER SER B B 372 372 .	0.1016	0.1056	0.0778	0.0271	-0.0209	
0.0102	1	.							
6106	OG	OG	. SER SER SER B B 372 372 .	0.1053	0.0989	0.1292	0.0071	-0.0245	-
0.0172	1	.							
6107	C	C	. SER SER SER B B 372 372 .	0.1123	0.0939	0.0871	0.0229	-0.0053	-
0.0062	1	.							
6108	O	O	. SER SER SER B B 372 372 .	0.1323	0.0998	0.1072	0.0183	-0.0124	-
0.0103	1	.							
6109	N	N	. GLY GLY GLY B B 373 373 .	0.1220	0.1289	0.1014	0.0099	0.0053	
0.0061	1	.							
6110	CA	CA	. GLY GLY GLY B B 373 373 .	0.1459	0.0995	0.0968	-0.0030	0.0072	-
0.0133	1	.							
6111	C	C	. GLY GLY GLY B B 373 373 .	0.1160	0.1035	0.1186	0.0103	-0.0099	-
0.0084	1	.							

6112	O	O	. GLY GLY GLY B B 373 373 .	0.1174	0.0985	0.1300	0.0130	-0.0170	-
0.0140	1	.							
6113	N	N	. GLU GLU GLU B B 374 374 .	0.1189	0.0877	0.1054	0.0040	-0.0045	-
0.0117	1	.							
6114	CA	CA	. GLU GLU GLU B B 374 374 .	0.0832	0.0839	0.0790	0.0003	0.0033	-
0.0087	1	.							
6115	CB	CB	. GLU GLU GLU B B 374 374 .	0.0979	0.1004	0.0635	0.0157	-0.0004	-
0.0108	1	.							
6116	CG	CG	. GLU GLU GLU B B 374 374 .	0.1094	0.0860	0.0510	0.0185	-0.0166	-
0.0002	1	.							
6117	CD	CD	. GLU GLU GLU B B 374 374 .	0.1380	0.1189	0.0989	0.0121	-0.0090	-
0.0078	1	.							
6118	OE1	OE1	. GLU GLU GLU B B 374 374 .	0.0956	0.1143	0.0941	-0.0064	-0.0033	-
0.0068	1	.							
6119	OE2	OE2	. GLU GLU GLU B B 374 374 .	0.1635	0.1303	0.0980	0.0439	-0.0133	-
0.0115	1	.							
6120	C	C	. GLU GLU GLU B B 374 374 .	0.0966	0.0856	0.0775	-0.0083	-0.0037	-
0.0055	1	.							
6121	O	O	. GLU GLU GLU B B 374 374 .	0.1065	0.0820	0.0834	-0.0101	0.0074	-
0.0080	1	.							
6122	N	N	. THR THR THR B B 375 375 .	0.0896	0.0931	0.0896	-0.0008	0.0137	-
0.0029	1	.							
6123	CA	CA	. THR THR THR B B 375 375 .	0.1041	0.0744	0.1012	0.0032	0.0014	-
0.0032	1	.							
6124	CB	CB	. THR THR THR B B 375 375 .	0.0918	0.0652	0.0880	0.0137	-0.0168	-
0.0042	1	.							
6125	OG1	OG1	. THR THR THR B B 375 375 .	0.0946	0.0818	0.1119	-0.0001	-0.0145	-
0.0105	1	.							
6126	CG2	CG2	. THR THR THR B B 375 375 .	0.1214	0.0769	0.1053	0.0007	0.0159	-
0.0058	1	.							
6127	C	C	. THR THR THR B B 375 375 .	0.1124	0.0907	0.1031	0.0084	-0.0088	-
0.0049	1	.							
6128	O	O	. THR THR THR B B 375 375 .	0.1286	0.1050	0.1226	0.0232	0.0069	-
0.0097	1	.							
6129	N	N	. GLU GLU GLU B B 376 376 .	0.1019	0.0940	0.1063	0.0028	-0.0224	-
0.0174	1	.							
6130	CA	CA	. GLU GLU GLU B B 376 376 .	0.1243	0.1034	0.1029	-0.0098	-0.0250	-
0.0243	1	.							
6131	CB	CB	. GLU GLU GLU B B 376 376 .	0.1274	0.1254	0.1016	-0.0017	-0.0026	-
0.0483	1	.							
6132	CG	CG	. GLU GLU GLU B B 376 376 .	0.1336	0.1530	0.1141	-0.0312	0.0136	-
0.0009	1	.							
6133	CD	CD	. GLU GLU GLU B B 376 376 .	0.1801	0.1245	0.1292	-0.0125	0.0163	-
0.0096	1	.							
6134	OE1	OE1	. GLU GLU GLU B B 376 376 .	0.1884	0.1483	0.1182	-0.0320	0.0208	-
0.0407	1	.							
6135	OE2	OE2	. GLU GLU GLU B B 376 376 .	0.1426	0.1339	0.1389	0.0020	0.0274	-
0.0008	1	.							
6136	C	C	. GLU GLU GLU B B 376 376 .	0.1472	0.1164	0.1112	-0.0065	-0.0289	-
0.0062	1	.							
6137	O	O	. GLU GLU GLU B B 376 376 .	0.1919	0.1407	0.1337	-0.0182	-0.0442	-
0.0166	1	.							
6138	N	N	. ASP ASP ASP B B 377 377 .	0.1108	0.1306	0.0989	0.0008	-0.0241	-
0.0123	1	.							
6139	CA	CA	. ASP ASP ASP B B 377 377 .	0.1267	0.1372	0.1239	0.0085	-0.0160	-
0.0067	1	.							
6140	CB	CB	. ASP ASP ASP B B 377 377 .	0.1095	0.1392	0.1540	0.0259	-0.0121	-
0.0097	1	.							
6141	CG	CG	. ASP ASP ASP B B 377 377 .	0.1678	0.1643	0.1543	0.0068	-0.0172	-
0.0062	1	.							



6172	N	N	. ALA ALA ALA B B	381 381	. 0.1027 0.0639 0.0901 0.0143 -0.0206 -
0.0019	1	.			
6173	CA	CA	. ALA ALA ALA B B	381 381	. 0.1232 0.0775 0.0963 0.0129 -0.0197
0.0001	1	.			
6174	CB	CB	. ALA ALA ALA B B	381 381	. 0.1434 0.0678 0.0998 0.0499 -0.0175
0.0028	1	.			
6175	C	C	. ALA ALA ALA B B	381 381	. 0.1227 0.0785 0.0947 -0.0011 -0.0043 -
0.0094	1	.			
6176	O	O	. ALA ALA ALA B B	381 381	. 0.1484 0.0982 0.1062 0.0065 -0.0115 -
0.0082	1	.			
6177	N	N	. ASP ASP ASP B B	382 382	. 0.1185 0.0762 0.1098 0.0202 -0.0154 -
0.0103	1	.			
6178	CA	CA	. ASP ASP ASP B B	382 382	. 0.1235 0.0814 0.1206 0.0011 -0.0172
0.0224	1	.			
6179	CB	CB	. ASP ASP ASP B B	382 382	. 0.1399 0.1202 0.1111 0.0106 -0.0059
0.0286	1	.			
6180	CG	CG	. ASP ASP ASP B B	382 382	. 0.1391 0.1173 0.1535 -0.0075 0.0038
0.0218	1	.			
6181	OD1	OD1	. ASP ASP ASP B B	382 382	. 0.1835 0.1668 0.1354 0.0130 -0.0392
0.0501	1	.			
6182	OD2	OD2	. ASP ASP ASP B B	382 382	. 0.1914 0.1876 0.2054 -0.0395 -0.0192 -
0.0102	1	.			
6183	C	C	. ASP ASP ASP B B	382 382	. 0.1445 0.0986 0.1087 -0.0046 -0.0234
0.0141	1	.			
6184	O	O	. ASP ASP ASP B B	382 382	. 0.1568 0.1035 0.0975 0.0011 -0.0226
0.0114	1	.			
6185	N	N	. LEU LEU LEU B B	383 383	. 0.1233 0.0803 0.1083 0.0111 -0.0039
0.0166	1	.			
6186	CA	CA	. LEU LEU LEU B B	383 383	. 0.1150 0.0557 0.0801 0.0095 0.0014
0.0166	1	.			
6187	CB	CB	. LEU LEU LEU B B	383 383	. 0.1096 0.0503 0.0627 0.0000 -0.0314
0.0087	1	.			
6188	CG	CG	. LEU LEU LEU B B	383 383	. 0.0816 0.0617 0.0930 0.0201 -0.0183 -
0.0032	1	.			
6189	CD1	CD1	. LEU LEU LEU B B	383 383	. 0.0972 0.1209 0.1029 0.0266 -0.0211
0.0524	1	.			
6190	CD2	CD2	. LEU LEU LEU B B	383 383	. 0.1486 0.0844 0.1669 -0.0393 -0.0524
0.0215	1	.			
6191	C	C	. LEU LEU LEU B B	383 383	. 0.1280 0.0749 0.1033 0.0008 -0.0150
0.0038	1	.			
6192	O	O	. LEU LEU LEU B B	383 383	. 0.1574 0.1106 0.1032 0.0103 -0.0315 -
0.0030	1	.			
6193	N	N	. VAL VAL VAL B B	384 384	. 0.1418 0.0913 0.1026 0.0104 -0.0036 -
0.0016	1	.			
6194	CA	CA	. VAL VAL VAL B B	384 384	. 0.1313 0.0914 0.1188 0.0047 0.0127 -
0.0018	1	.			
6195	CB	CB	. VAL VAL VAL B B	384 384	. 0.1178 0.1050 0.0894 0.0225 -0.0060
0.0177	1	.			
6196	CG1	CG1	. VAL VAL VAL B B	384 384	. 0.0855 0.0791 0.1195 0.0333 0.0371 -
0.0154	1	.			
6197	CG2	CG2	. VAL VAL VAL B B	384 384	. 0.1336 0.1285 0.1071 -0.0086 0.0094 -
0.0069	1	.			
6198	C	C	. VAL VAL VAL B B	384 384	. 0.1480 0.1264 0.1239 -0.0134 -0.0086
0.0056	1	.			
6199	O	O	. VAL VAL VAL B B	384 384	. 0.1734 0.1206 0.1252 -0.0010 -0.0165 -
0.0103	1	.			
6200	N	N	. VAL VAL VAL B B	385 385	. 0.1440 0.0971 0.1571 0.0054 -0.0283
0.0012	1	.			
6201	CA	CA	. VAL VAL VAL B B	385 385	. 0.1467 0.1211 0.1430 -0.0188 -0.0364
0.0040	1	.			

6202	CB	CB	. VAL VAL VAL B B 385 385 .	0.1384	0.1167	0.1505	-0.0128	-0.0381	-
0.0053	1	.							
6203	CG1	CG1	. VAL VAL VAL B B 385 385 .	0.1531	0.1266	0.1707	-0.0588	-0.0589	-
0.0207	1	.							
6204	CG2	CG2	. VAL VAL VAL B B 385 385 .	0.0860	0.1798	0.1398	0.0127	-0.0042	
0.0040	1	.							
6205	C	C	. VAL VAL VAL B B 385 385 .	0.1640	0.1142	0.1447	-0.0063	-0.0181	
0.0129	1	.							
6206	O	O	. VAL VAL VAL B B 385 385 .	0.1794	0.1077	0.1644	-0.0170	-0.0384	-
0.0026	1	.							
6207	N	N	. GLY GLY GLY B B 386 386 .	0.1312	0.1049	0.1458	-0.0158	-0.0023	
0.0328	1	.							
6208	CA	CA	. GLY GLY GLY B B 386 386 .	0.1588	0.1245	0.1434	-0.0007	-0.0145	
0.0225	1	.							
6209	C	C	. GLY GLY GLY B B 386 386 .	0.1861	0.1411	0.1510	-0.0148	-0.0144	
0.0244	1	.							
6210	O	O	. GLY GLY GLY B B 386 386 .	0.1540	0.1482	0.1674	-0.0210	-0.0264	
0.0258	1	.							
6211	N	N	. LEU LEU LEU B B 387 387 .	0.1537	0.1614	0.1400	-0.0230	-0.0048	
0.0249	1	.							
6212	CA	CA	. LEU LEU LEU B B 387 387 .	0.1785	0.1459	0.1515	-0.0176	-0.0067	
0.0071	1	.							
6213	CB	CB	. LEU LEU LEU B B 387 387 .	0.1803	0.1267	0.1316	-0.0113	-0.0021	
0.0217	1	.							
6214	CG	CG	. LEU LEU LEU B B 387 387 .	0.1433	0.1613	0.1537	-0.0137	-0.0247	-
0.0139	1	.							
6215	CD1	CD1	. LEU LEU LEU B B 387 387 .	0.2577	0.1584	0.1392	-0.0326	-0.0391	-
0.0071	1	.							
6216	CD2	CD2	. LEU LEU LEU B B 387 387 .	0.1817	0.1755	0.0916	0.0458	-0.0284	
0.0057	1	.							
6217	C	C	. LEU LEU LEU B B 387 387 .	0.2144	0.1876	0.1773	-0.0162	-0.0036	
0.0120	1	.							
6218	O	O	. LEU LEU LEU B B 387 387 .	0.2517	0.1804	0.1788	-0.0062	-0.0129	
0.0111	1	.							
6219	N	N	. CYS CYS CYS B B 388 388 .	0.1984	0.1869	0.1727	-0.0072	-0.0007	-
0.0027	1	.							
6220	CA	CA	. CYS CYS CYS B B 388 388 .	0.2456	0.2286	0.1992	-0.0177	-0.0092	
0.0014	1	.							
6221	CB	CB	. CYS CYS CYS B B 388 388 .	0.2808	0.2812	0.2088	-0.0080	-0.0156	
0.0246	1	.							
6222	SG	SG	. CYS CYS CYS B B 388 388 .	0.4877	0.4640	0.4228	-0.0596	-0.0712	
0.0362	1	.							
6223	C	C	. CYS CYS CYS B B 388 388 .	0.2411	0.2161	0.1841	-0.0166	-0.0093	-
0.0040	1	.							
6224	O	O	. CYS CYS CYS B B 388 388 .	0.2755	0.2053	0.1634	-0.0228	-0.0075	-
0.0010	1	.							
6225	N	N	. THR THR THR B B 389 389 .	0.2092	0.1705	0.1472	-0.0288	-0.0173	-
0.0150	1	.							
6226	CA	CA	. THR THR THR B B 389 389 .	0.1930	0.1661	0.1542	-0.0183	-0.0126	-
0.0200	1	.							
6227	CB	CB	. THR THR THR B B 389 389 .	0.1850	0.1390	0.1678	-0.0140	-0.0051	-
0.0083	1	.							
6228	OG1	OG1	. THR THR THR B B 389 389 .	0.2351	0.1314	0.1822	0.0172	-0.0100	-
0.0005	1	.							
6229	CG2	CG2	. THR THR THR B B 389 389 .	0.1600	0.1225	0.1820	-0.0152	0.0318	-
0.0234	1	.							
6230	C	C	. THR THR THR B B 389 389 .	0.1820	0.1612	0.1489	-0.0205	-0.0110	-
0.0177	1	.							
6231	O	O	. THR THR THR B B 389 389 .	0.2195	0.1787	0.1507	-0.0138	0.0043	
0.0116	1	.							



6232	N	N	. GLY GLY GLY B B 390 390 .	0.1419	0.1327	0.1044	0.0050	-0.0125	-
0.0078	1	.							
6233	CA	CA	. GLY GLY GLY B B 390 390 .	0.1670	0.1362	0.1132	0.0149	-0.0082	-
0.0039	1	.							
6234	C	C	. GLY GLY GLY B B 390 390 .	0.1429	0.0993	0.0895	0.0147	0.0016	-
0.0038	1	.							
6235	O	O	. GLY GLY GLY B B 390 390 .	0.1724	0.1153	0.1188	0.0098	-0.0083	-
0.0075	1	.							
6236	N	N	. GLN GLN GLN B B 391 391 .	0.1740	0.1156	0.0910	0.0166	-0.0126	-
0.0047	1	.							
6237	CA	CA	. GLN GLN GLN B B 391 391 .	0.1591	0.1337	0.0937	0.0134	0.0046	-
0.0224	1	.							
6238	CB	CB	. GLN GLN GLN B B 391 391 .	0.1821	0.1478	0.1369	0.0115	-0.0164	-
0.0025	1	.							
6239	CG	CG	. GLN GLN GLN B B 391 391 .	0.1770	0.1717	0.1674	0.0025	-0.0150	-
0.0073	1	.							
6240	CD	CD	. GLN GLN GLN B B 391 391 .	0.1624	0.1536	0.1604	-0.0166	-0.0131	-
0.0239	1	.							
6241	OE1	OE1	. GLN GLN GLN B B 391 391 .	0.1493	0.1621	0.1055	0.0073	0.0150	-
0.0075	1	.							
6242	NE2	NE2	. GLN GLN GLN B B 391 391 .	0.2082	0.1529	0.1370	-0.0030	0.0200	-
0.0244	1	.							
6243	C	C	. GLN GLN GLN B B 391 391 .	0.1607	0.1290	0.1199	0.0228	-0.0036	-
0.0312	1	.							
6244	O	O	. GLN GLN GLN B B 391 391 .	0.1225	0.1210	0.0922	0.0157	0.0029	-
0.0249	1	.							
6245	N	N	. ILE ILE ILE B B 392 392 .	0.1472	0.1057	0.0701	0.0016	0.0005	-
0.0267	1	.							
6246	CA	CA	. ILE ILE ILE B B 392 392 .	0.1347	0.0988	0.0786	-0.0005	0.0025	-
0.0035	1	.							
6247	CB	CB	. ILE ILE ILE B B 392 392 .	0.1426	0.0958	0.1005	0.0199	0.0077	-
0.0137	1	.							
6248	CG1	CG1	. ILE ILE ILE B B 392 392 .	0.1240	0.0613	0.0623	-0.0052	0.0056	-
0.0060	1	.							
6249	CD1	CD1	. ILE ILE ILE B B 392 392 .	0.1387	0.1407	0.0790	-0.0014	0.0584	-
0.0181	1	.							
6250	CG2	CG2	. ILE ILE ILE B B 392 392 .	0.1509	0.0357	0.1244	0.0362	-0.0232	-
0.0074	1	.							
6251	C	C	. ILE ILE ILE B B 392 392 .	0.1347	0.1208	0.0974	0.0052	0.0020	-
0.0011	1	.							
6252	O	O	. ILE ILE ILE B B 392 392 .	0.1432	0.1037	0.0734	0.0161	0.0070	-
0.0079	1	.							
6253	N	N	. LYS LYS LYS B B 393 393 .	0.1256	0.0844	0.0920	0.0015	0.0035	-
0.0147	1	.							
6254	CA	CA	. LYS LYS LYS B B 393 393 .	0.0923	0.0847	0.0636	-0.0010	0.0178	-
0.0103	1	.							
6255	CB	CB	. LYS LYS LYS B B 393 393 .	0.1263	0.0654	0.0385	0.0152	0.0219	-
0.0148	1	.							
6256	CG	CG	. LYS LYS LYS B B 393 393 .	0.1460	0.0695	0.0451	0.0182	0.0191	-
0.0271	1	.							
6257	CD	CD	. LYS LYS LYS B B 393 393 .	0.1550	0.0927	0.1405	0.0149	0.0127	-
0.0188	1	.							
6258	CE	CE	. LYS LYS LYS B B 393 393 .	0.1490	0.0800	0.1157	-0.0017	0.0138	-
0.0317	1	.							
6259	NZ	NZ	. LYS LYS LYS B B 393 393 .	0.1606	0.1072	0.1048	-0.0179	0.0012	-
0.0092	1	.							
6260	C	C	. LYS LYS LYS B B 393 393 .	0.1307	0.1121	0.0918	0.0136	0.0068	-
0.0117	1	.							
6261	O	O	. LYS LYS LYS B B 393 393 .	0.1201	0.1225	0.0744	0.0349	0.0101	-
0.0239	1	.							

6262	N	N	. THR THR THR B B 394 394 .	0.1244	0.1078	0.0902	0.0117	-0.0013	
0.0150	1	.							
6263	CA	CA	. THR THR THR B B 394 394 .	0.1120	0.0932	0.0898	0.0113	0.0080	-
0.0012	1	.							
6264	CB	CB	. THR THR THR B B 394 394 .	0.1393	0.0935	0.1061	0.0213	0.0288	-
0.0047	1	.							
6265	OG1	OG1	. THR THR THR B B 394 394 .	0.1601	0.1298	0.0760	0.0172	0.0267	-
0.0208	1	.							
6266	CG2	CG2	. THR THR THR B B 394 394 .	0.0971	0.0858	0.1241	-0.0021	0.0005	-
0.0161	1	.							
6267	C	C	. THR THR THR B B 394 394 .	0.1305	0.1032	0.0909	-0.0012	0.0006	-
0.0084	1	.							
6268	O	O	. THR THR THR B B 394 394 .	0.1412	0.1005	0.1069	0.0002	0.0000	
0.0065	1	.							
6269	N	N	. GLY GLY GLY B B 395 395 .	0.1039	0.1081	0.0836	0.0160	-0.0049	-
0.0036	1	.							
6270	CA	CA	. GLY GLY GLY B B 395 395 .	0.1053	0.1118	0.0871	0.0172	-0.0021	-
0.0137	1	.							
6271	C	C	. GLY GLY GLY B B 395 395 .	0.1046	0.0994	0.0812	0.0147	-0.0067	
0.0000	1	.							
6272	O	O	. GLY GLY GLY B B 395 395 .	0.1455	0.0612	0.0995	0.0230	0.0039	
0.0164	1	.							
6273	N	N	. ALA ALA ALA B B 396 396 .	0.1166	0.1133	0.1125	0.0269	0.0009	-
0.0029	1	.							
6274	CA	CA	. ALA ALA ALA B B 396 396 .	0.1068	0.0931	0.1110	0.0380	-0.0026	-
0.0117	1	.							
6275	CB	CB	. ALA ALA ALA B B 396 396 .	0.1048	0.1259	0.1377	0.0292	-0.0050	-
0.0031	1	.							
6276	C	C	. ALA ALA ALA B B 396 396 .	0.1022	0.1021	0.1258	0.0219	0.0142	-
0.0096	1	.							
6277	O	O	. ALA ALA ALA B B 396 396 .	0.1080	0.1058	0.1210	0.0133	0.0206	-
0.0126	1	.							
6278	N	N	. PRO PRO PRO B B 397 397 .	0.1097	0.0919	0.1157	0.0058	0.0094	-
0.0084	1	.							
6279	CA	CA	. PRO PRO PRO B B 397 397 .	0.1292	0.0748	0.0972	0.0162	0.0062	-
0.0020	1	.							
6280	CB	CB	. PRO PRO PRO B B 397 397 .	0.1377	0.0950	0.1166	0.0200	0.0267	-
0.0225	1	.							
6281	CG	CG	. PRO PRO PRO B B 397 397 .	0.1474	0.0843	0.1586	0.0223	0.0446	
0.0153	1	.							
6282	CD	CD	. PRO PRO PRO B B 397 397 .	0.1032	0.0896	0.1209	0.0200	0.0184	
0.0009	1	.							
6283	C	C	. PRO PRO PRO B B 397 397 .	0.1357	0.0935	0.0948	0.0190	0.0018	-
0.0021	1	.							
6284	O	O	. PRO PRO PRO B B 397 397 .	0.1478	0.1051	0.1054	0.0361	0.0054	-
0.0185	1	.							
6285	N	N	. CYS CYS CYS B B 398 398 .	0.1320	0.0801	0.0676	0.0055	-0.0071	-
0.0027	1	.							
6286	CA	CA	. CYS CYS CYS B B 398 398 .	0.1058	0.0931	0.0796	0.0147	-0.0048	-
0.0007	1	.							
6287	CB	CB	. CYS CYS CYS B B 398 398 .	0.1352	0.0959	0.0787	-0.0091	-0.0010	
0.0117	1	.							
6288	SG	SG	. CYS CYS CYS B B 398 398 .	0.1088	0.1429	0.1328	0.0018	0.0093	-
0.0043	1	.							
6289	C	C	. CYS CYS CYS B B 398 398 .	0.1221	0.0978	0.0872	0.0125	0.0009	
0.0066	1	.							
6290	O	O	. CYS CYS CYS B B 398 398 .	0.1071	0.0907	0.0908	0.0150	-0.0005	-
0.0049	1	.							
6291	N	N	. ARG ARG ARG B B 399 399 .	0.1172	0.0861	0.0888	0.0024	0.0070	-
0.0009	1	.							

6292	CA	CA	. ARG ARG ARG B B 399 399 .	0.0923	0.0753	0.1138	-0.0044	0.0166	
0.0011	1	.							
6293	CB	CB	. ARG ARG ARG B B 399 399 .	0.0695	0.0468	0.0995	-0.0224	-0.0045	
0.0008	1	.							
6294	CG	CG	. ARG ARG ARG B B 399 399 .	0.0483	0.0852	0.1069	-0.0062	-0.0094	
0.0137	1	.							
6295	CD	CD	. ARG ARG ARG B B 399 399 .	0.0993	0.0689	0.1304	0.0295	0.0280	
0.0163	1	.							
6296	NE	NE	. ARG ARG ARG B B 399 399 .	0.1299	0.0733	0.0868	0.0077	0.0051	-
0.0036	1	.							
6297	CZ	CZ	. ARG ARG ARG B B 399 399 .	0.0947	0.0905	0.0862	0.0176	0.0103	
0.0046	1	.							
6298	NH1	NH1	. ARG ARG ARG B B 399 399 .	0.1072	0.1208	0.0837	0.0190	-0.0135	
0.0140	1	.							
6299	NH2	NH2	. ARG ARG ARG B B 399 399 .	0.1014	0.0713	0.0883	0.0438	-0.0145	-
0.0201	1	.							
6300	C	C	. ARG ARG ARG B B 399 399 .	0.0898	0.0910	0.0984	-0.0009	-0.0005	
0.0100	1	.							
6301	O	O	. ARG ARG ARG B B 399 399 .	0.1011	0.0620	0.0757	-0.0042	0.0032	
0.0145	1	.							
6302	N	N	. SER SER SER B B 400 400 .	0.0757	0.0803	0.0777	0.0074	0.0196	
0.0110	1	.							
6303	CA	CA	. SER SER SER B B 400 400 .	0.0724	0.0482	0.0705	0.0142	0.0170	
0.0146	1	.							
6304	CB	CB	. SER SER SER B B 400 400 .	0.1053	0.0898	0.0423	0.0359	0.0118	
0.0248	1	.							
6305	OG	OG	. SER SER SER B B 400 400 .	0.0981	0.0801	0.0849	0.0357	-0.0116	-
0.0072	1	.							
6306	C	C	. SER SER SER B B 400 400 .	0.0707	0.0700	0.0478	-0.0019	0.0164	
0.0033	1	.							
6307	O	O	. SER SER SER B B 400 400 .	0.0755	0.0859	0.0871	0.0107	0.0170	-
0.0007	1	.							
6308	N	N	. GLU GLU GLU B B 401 401 .	0.0916	0.0608	0.0629	0.0227	0.0053	
0.0022	1	.							
6309	CA	CA	. GLU GLU GLU B B 401 401 .	0.0974	0.0811	0.0828	0.0196	-0.0071	-
0.0155	1	.							
6310	CB	CB	. GLU GLU GLU B B 401 401 .	0.0708	0.0552	0.0996	0.0175	0.0255	-
0.0066	1	.							
6311	CG	CG	. GLU GLU GLU B B 401 401 .	0.0766	0.0895	0.0787	0.0043	0.0192	-
0.0058	1	.							
6312	CD	CD	. GLU GLU GLU B B 401 401 .	0.0973	0.0930	0.0630	0.0110	0.0169	-
0.0168	1	.							
6313	OE1	OE1	. GLU GLU GLU B B 401 401 .	0.0998	0.0772	0.1187	0.0120	-0.0100	-
0.0068	1	.							
6314	OE2	OE2	. GLU GLU GLU B B 401 401 .	0.0967	0.0624	0.0891	0.0231	0.0157	
0.0056	1	.							
6315	C	C	. GLU GLU GLU B B 401 401 .	0.0952	0.0781	0.0757	0.0087	0.0067	
0.0021	1	.							
6316	O	O	. GLU GLU GLU B B 401 401 .	0.0868	0.0954	0.0630	-0.0001	-0.0149	
0.0069	1	.							
6317	N	N	. ARG ARG ARG B B 402 402 .	0.0745	0.0782	0.0717	-0.0012	0.0078	-
0.0045	1	.							
6318	CA	CA	. ARG ARG ARG B B 402 402 .	0.0805	0.0658	0.0619	-0.0038	0.0028	-
0.0096	1	.							
6319	CB	CB	. ARG ARG ARG B B 402 402 .	0.0682	0.0517	0.0605	0.0046	-0.0015	-
0.0117	1	.							
6320	CG	CG	. ARG ARG ARG B B 402 402 .	0.0704	0.0503	0.0624	0.0279	-0.0085	
0.0051	1	.							
6321	CD	CD	. ARG ARG ARG B B 402 402 .	0.0582	0.0455	0.0554	0.0198	-0.0218	-
0.0245	1	.							



6352	CB	CB	. TYR TYR TYR B B 406 406 .	0.0919	0.0958	0.0919	-0.0125	0.0211	
0.0147	1	.							
6353	CG	CG	. TYR TYR TYR B B 406 406 .	0.1320	0.0920	0.0961	0.0096	-0.0043	
0.0125	1	.							
6354	CD1	CD1	. TYR TYR TYR B B 406 406 .	0.0945	0.0981	0.0955	-0.0067	-0.0034	-
0.0025	1	.							
6355	CE1	CE1	. TYR TYR TYR B B 406 406 .	0.1353	0.0953	0.1375	-0.0049	0.0046	-
0.0030	1	.							
6356	CZ	CZ	. TYR TYR TYR B B 406 406 .	0.0971	0.0783	0.0837	0.0043	0.0070	
0.0006	1	.							
6357	OH	OH	. TYR TYR TYR B B 406 406 .	0.1181	0.0909	0.0684	0.0198	0.0242	
0.0044	1	.							
6358	CE2	CE2	. TYR TYR TYR B B 406 406 .	0.0877	0.0927	0.0967	-0.0019	0.0133	
0.0029	1	.							
6359	CD2	CD2	. TYR TYR TYR B B 406 406 .	0.1139	0.0943	0.0927	-0.0055	0.0272	-
0.0144	1	.							
6360	C	C	. TYR TYR TYR B B 406 406 .	0.1276	0.0962	0.1077	0.0111	-0.0089	
0.0053	1	.							
6361	O	O	. TYR TYR TYR B B 406 406 .	0.1447	0.0852	0.0504	0.0082	0.0044	-
0.0163	1	.							
6362	N	N	. ASN ASN ASN B B 407 407 .	0.1124	0.0788	0.0752	0.0237	0.0075	-
0.0070	1	.							
6363	CA	CA	. ASN ASN ASN B B 407 407 .	0.0786	0.0913	0.0604	0.0011	0.0079	
0.0031	1	.							
6364	CB	CB	. ASN ASN ASN B B 407 407 .	0.0959	0.0778	0.0694	-0.0025	-0.0152	
0.0095	1	.							
6365	CG	CG	. ASN ASN ASN B B 407 407 .	0.0669	0.0806	0.0625	0.0191	0.0025	
0.0221	1	.							
6366	OD1	OD1	. ASN ASN ASN B B 407 407 .	0.1376	0.0886	0.0995	0.0103	0.0246	
0.0163	1	.							
6367	ND2	ND2	. ASN ASN ASN B B 407 407 .	0.1383	0.0506	0.1019	-0.0010	0.0095	-
0.0057	1	.							
6368	C	C	. ASN ASN ASN B B 407 407 .	0.0976	0.1064	0.0772	0.0015	0.0056	-
0.0093	1	.							
6369	O	O	. ASN ASN ASN B B 407 407 .	0.0972	0.0895	0.1222	0.0079	-0.0048	-
0.0079	1	.							
6370	N	N	. GLN GLN GLN B B 408 408 .	0.0970	0.1050	0.0751	0.0060	-0.0016	
0.0150	1	.							
6371	CA	CA	. GLN GLN GLN B B 408 408 .	0.1105	0.1168	0.1020	0.0100	-0.0043	-
0.0084	1	.							
6372	CB	CB	. GLN GLN GLN B B 408 408 .	0.1202	0.1287	0.1168	0.0274	0.0060	
0.0037	1	.							
6373	CG	CG	. GLN GLN GLN B B 408 408 .	0.1262	0.1660	0.1290	-0.0201	-0.0211	
0.0188	1	.							
6374	CD	CD	. GLN GLN GLN B B 408 408 .	0.1463	0.1319	0.1798	0.0065	-0.0077	
0.0058	1	.							
6375	OE1	OE1	. GLN GLN GLN B B 408 408 .	0.1917	0.1648	0.1927	0.0034	0.0044	
0.0213	1	.							
6376	NE2	NE2	. GLN GLN GLN B B 408 408 .	0.1602	0.1715	0.1708	-0.0351	-0.0139	
0.0147	1	.							
6377	C	C	. GLN GLN GLN B B 408 408 .	0.1026	0.0980	0.0985	0.0084	0.0050	
0.0004	1	.							
6378	O	O	. GLN GLN GLN B B 408 408 .	0.1212	0.1112	0.0880	0.0120	-0.0142	-
0.0206	1	.							
6379	N	N	. LEU LEU LEU B B 409 409 .	0.1411	0.1058	0.1058	0.0140	-0.0002	
0.0045	1	.							
6380	CA	CA	. LEU LEU LEU B B 409 409 .	0.1147	0.0702	0.1057	0.0163	0.0058	-
0.0054	1	.							
6381	CB	CB	. LEU LEU LEU B B 409 409 .	0.1099	0.0877	0.1106	0.0079	-0.0113	-
0.0021	1	.							

6382	CG	CG	. LEU LEU LEU B B 409 409 .	0.1095	0.1136	0.1822	0.0007	0.0041	
0.0086	1	.							
6383	CD1	CD1	. LEU LEU LEU B B 409 409 .	0.1366	0.1683	0.1281	-0.0214	0.0086	
0.0424	1	.							
6384	CD2	CD2	. LEU LEU LEU B B 409 409 .	0.1494	0.0883	0.0919	0.0292	-0.0171	-
0.0002	1	.							
6385	C	C	. LEU LEU LEU B B 409 409 .	0.1309	0.0931	0.1325	0.0087	-0.0128	-
0.0064	1	.							
6386	O	O	. LEU LEU LEU B B 409 409 .	0.1230	0.0834	0.1347	-0.0007	-0.0019	-
0.0077	1	.							
6387	N	N	. MET MET MET B B 410 410 .	0.1070	0.0713	0.0895	0.0171	-0.0216	-
0.0028	1	.							
6388	CA	CA	. MET MET MET B B 410 410 .	0.1184	0.0849	0.1011	0.0128	-0.0220	
0.0044	1	.							
6389	CB	CB	. MET MET MET B B 410 410 .	0.1172	0.0966	0.1319	0.0403	-0.0199	
0.0068	1	.							
6390	CG	CG	. MET MET MET B B 410 410 .	0.1359	0.1590	0.1308	0.0163	-0.0389	
0.0012	1	.							
6391	SD	SD	. MET MET MET B B 410 410 .	0.2066	0.1733	0.1514	0.0115	-0.0187	
0.0132	1	.							
6392	CE	CE	. MET MET MET B B 410 410 .	0.1539	0.1857	0.1131	0.0129	0.0075	-
0.0565	1	.							
6393	C	C	. MET MET MET B B 410 410 .	0.1252	0.1070	0.0967	0.0077	-0.0121	
0.0092	1	.							
6394	O	O	. MET MET MET B B 410 410 .	0.1770	0.1114	0.1099	0.0099	0.0000	-
0.0018	1	.							
6395	N	N	. ARG ARG ARG B B 411 411 .	0.1346	0.1185	0.1144	0.0113	-0.0042	
0.0160	1	.							
6396	CA	CA	. ARG ARG ARG B B 411 411 .	0.1141	0.1232	0.0992	-0.0037	-0.0162	
0.0176	1	.							
6397	CB	CB	. ARG ARG ARG B B 411 411 .	0.1217	0.1202	0.0961	0.0048	-0.0180	
0.0213	1	.							
6398	CG	CG	. ARG ARG ARG B B 411 411 .	0.1205	0.1151	0.0939	0.0025	-0.0049	-
0.0032	1	.							
6399	CD	CD	. ARG ARG ARG B B 411 411 .	0.1136	0.1934	0.0687	0.0162	0.0015	
0.0145	1	.							
6400	NE	NE	. ARG ARG ARG B B 411 411 .	0.1740	0.1505	0.0807	-0.0234	0.0233	-
0.0113	1	.							
6401	CZ	CZ	. ARG ARG ARG B B 411 411 .	0.1868	0.1229	0.1139	0.0105	-0.0038	
0.0069	1	.							
6402	NH1	NH1	. ARG ARG ARG B B 411 411 .	0.1809	0.1064	0.1065	0.0163	-0.0545	
0.0277	1	.							
6403	NH2	NH2	. ARG ARG ARG B B 411 411 .	0.2043	0.1486	0.1763	0.0337	0.0075	
0.0146	1	.							
6404	C	C	. ARG ARG ARG B B 411 411 .	0.1546	0.1255	0.1100	-0.0139	-0.0201	
0.0153	1	.							
6405	O	O	. ARG ARG ARG B B 411 411 .	0.1626	0.1305	0.1235	-0.0105	-0.0043	
0.0452	1	.							
6406	N	N	. ILE ILE ILE B B 412 412 .	0.1252	0.1037	0.1124	0.0003	-0.0357	
0.0186	1	.							
6407	CA	CA	. ILE ILE ILE B B 412 412 .	0.1419	0.1074	0.1180	-0.0058	-0.0233	
0.0197	1	.							
6408	CB	CB	. ILE ILE ILE B B 412 412 .	0.1416	0.1125	0.1208	0.0033	-0.0315	
0.0142	1	.							
6409	CG1	CG1	. ILE ILE ILE B B 412 412 .	0.1214	0.1023	0.0962	-0.0016	-0.0241	
0.0187	1	.							
6410	CD1	CD1	. ILE ILE ILE B B 412 412 .	0.1849	0.0622	0.1537	0.0121	-0.0599	
0.0160	1	.							
6411	CG2	CG2	. ILE ILE ILE B B 412 412 .	0.1535	0.1444	0.1184	-0.0272	-0.0315	
0.0320	1	.							

6412	C	C	. ILE ILE ILE B B 412 412 .	0.1371	0.1164	0.1116	-0.0050	-0.0112	
0.0084	1	.							
6413	O	O	. ILE ILE ILE B B 412 412 .	0.1836	0.1605	0.1503	0.0147	-0.0338	
0.0153	1	.							
6414	N	N	. GLU GLU GLU B B 413 413 .	0.1645	0.1205	0.1039	0.0125	0.0019	
0.0091	1	.							
6415	CA	CA	. GLU GLU GLU B B 413 413 .	0.1630	0.0992	0.1176	-0.0057	0.0013	-
0.0020	1	.							
6416	CB	CB	. GLU GLU GLU B B 413 413 .	0.1625	0.1114	0.1208	0.0042	0.0165	-
0.0236	1	.							
6417	CG	CG	. GLU GLU GLU B B 413 413 .	0.2027	0.1440	0.2041	-0.0053	0.0456	
0.0024	1	.							
6418	CD	CD	. GLU GLU GLU B B 413 413 .	0.1897	0.1451	0.2153	-0.0226	0.0040	
0.0035	1	.							
6419	OE1	OE1	. GLU GLU GLU B B 413 413 .	0.2461	0.1230	0.2414	-0.0484	-0.0117	
0.0425	1	.							
6420	OE2	OE2	. GLU GLU GLU B B 413 413 .	0.2848	0.1727	0.1895	0.0140	0.0005	-
0.0028	1	.							
6421	C	C	. GLU GLU GLU B B 413 413 .	0.1840	0.1041	0.1112	-0.0134	-0.0179	
0.0007	1	.							
6422	O	O	. GLU GLU GLU B B 413 413 .	0.1871	0.1015	0.1739	-0.0148	-0.0006	
0.0044	1	.							
6423	N	N	. GLU GLU GLU B B 414 414 .	0.1938	0.1005	0.1137	-0.0261	-0.0180	
0.0182	1	.							
6424	CA	CA	. GLU GLU GLU B B 414 414 .	0.2083	0.1421	0.1301	-0.0230	-0.0190	
0.0125	1	.							
6425	CB	CB	. GLU GLU GLU B B 414 414 .	0.2494	0.1568	0.1359	-0.0210	-0.0204	
0.0239	1	.							
6426	CG	CG	. GLU GLU GLU B B 414 414 .	0.2974	0.2126	0.1854	0.0012	-0.0248	
0.0350	1	.							
6427	CD	CD	. GLU GLU GLU B B 414 414 .	0.2689	0.2507	0.1708	0.0146	-0.0185	
0.0626	1	.							
6428	OE1	OE1	. GLU GLU GLU B B 414 414 .	0.3263	0.2879	0.1652	0.0131	-0.0339	-
0.0230	1	.							
6429	OE2	OE2	. GLU GLU GLU B B 414 414 .	0.3019	0.2618	0.2236	0.0302	0.0100	
0.0752	1	.							
6430	C	C	. GLU GLU GLU B B 414 414 .	0.2182	0.1672	0.1622	-0.0201	-0.0290	-
0.0053	1	.							
6431	O	O	. GLU GLU GLU B B 414 414 .	0.2626	0.1913	0.2196	-0.0325	-0.0329	-
0.0067	1	.							
6432	N	N	. GLU GLU GLU B B 415 415 .	0.2024	0.1746	0.1548	-0.0205	-0.0334	
0.0013	1	.							
6433	CA	CA	. GLU GLU GLU B B 415 415 .	0.2207	0.2283	0.1631	-0.0293	-0.0172	-
0.0118	1	.							
6434	CB	CB	. GLU GLU GLU B B 415 415 .	0.2329	0.2322	0.1764	-0.0130	-0.0172	
0.0117	1	.							
6435	CG	CG	. GLU GLU GLU B B 415 415 .	0.2342	0.3538	0.1248	-0.0811	0.0282	-
0.0465	1	.							
6436	CD	CD	. GLU GLU GLU B B 415 415 .	0.3337	0.3288	0.3221	-0.0408	0.0165	-
0.0256	1	.							
6437	OE1	OE1	. GLU GLU GLU B B 415 415 .	0.3401	0.4285	0.5391	-0.0849	0.0248	
0.0377	1	.							
6438	OE2	OE2	. GLU GLU GLU B B 415 415 .	0.5379	0.4899	0.3235	-0.0445	-0.0242	
0.0084	1	.							
6439	C	C	. GLU GLU GLU B B 415 415 .	0.2382	0.2372	0.1948	-0.0286	-0.0213	-
0.0065	1	.							
6440	O	O	. GLU GLU GLU B B 415 415 .	0.2495	0.2721	0.1914	-0.0502	-0.0324	-
0.0079	1	.							
6441	N	N	. LEU LEU LEU B B 416 416 .	0.2659	0.2277	0.2106	-0.0222	-0.0112	-
0.0165	1	.							





6472	C	C	. ARG ARG ARG B B 421 421 .	0.2779	0.2334	0.2562	-0.0107	-0.0073	-
0.0075	1	.							
6473	O	O	. ARG ARG ARG B B 421 421 .	0.2888	0.2365	0.2536	-0.0172	-0.0017	-
0.0322	1	.							
6474	N	N	. PHE PHE PHE B B 422 422 .	0.2637	0.1954	0.2153	0.0018	-0.0127	-
0.0122	1	.							
6475	CA	CA	. PHE PHE PHE B B 422 422 .	0.2469	0.1807	0.1894	-0.0006	-0.0073	-
0.0013	1	.							
6476	CB	CB	. PHE PHE PHE B B 422 422 .	0.2358	0.1833	0.1584	0.0099	-0.0122	-
0.0081	1	.							
6477	CG	CG	. PHE PHE PHE B B 422 422 .	0.2265	0.1707	0.1240	0.0182	0.0060	-
0.0149	1	.							
6478	CD1	CD1	. PHE PHE PHE B B 422 422 .	0.2432	0.1441	0.1123	-0.0126	-0.0067	-
0.0169	1	.							
6479	CE1	CE1	. PHE PHE PHE B B 422 422 .	0.1530	0.1298	0.1087	-0.0105	0.0071	-
0.0153	1	.							
6480	CZ	CZ	. PHE PHE PHE B B 422 422 .	0.1889	0.1721	0.1237	0.0458	-0.0181	-
0.0318	1	.							
6481	CE2	CE2	. PHE PHE PHE B B 422 422 .	0.2441	0.1874	0.1403	0.0158	-0.0360	-
0.0057	1	.							
6482	CD2	CD2	. PHE PHE PHE B B 422 422 .	0.1800	0.1717	0.1575	0.0293	0.0208	-
0.0095	1	.							
6483	C	C	. PHE PHE PHE B B 422 422 .	0.2744	0.1639	0.1716	0.0000	-0.0013	-
0.0108	1	.							
6484	O	O	. PHE PHE PHE B B 422 422 .	0.3276	0.1541	0.1735	-0.0137	-0.0077	-
0.0093	1	.							
6485	N	N	. ALA ALA ALA B B 423 423 .	0.2626	0.1374	0.1681	-0.0096	-0.0070	-
0.0033	1	.							
6486	CA	CA	. ALA ALA ALA B B 423 423 .	0.2731	0.1330	0.1597	-0.0099	-0.0001	-
0.0141	1	.							
6487	CB	CB	. ALA ALA ALA B B 423 423 .	0.2578	0.1239	0.1871	-0.0018	-0.0085	-
0.0010	1	.							
6488	C	C	. ALA ALA ALA B B 423 423 .	0.2566	0.1485	0.1736	-0.0036	-0.0068	-
0.0007	1	.							
6489	O	O	. ALA ALA ALA B B 423 423 .	0.2822	0.1484	0.1437	-0.0033	0.0109	-
0.0142	1	.							
6490	N	N	. GLY GLY GLY B B 424 424 .	0.2501	0.1364	0.1688	-0.0051	-0.0011	-
0.0074	1	.							
6491	CA	CA	. GLY GLY GLY B B 424 424 .	0.2779	0.1678	0.1835	0.0008	0.0157	-
0.0082	1	.							
6492	C	C	. GLY GLY GLY B B 424 424 .	0.2923	0.1961	0.1905	-0.0068	0.0203	-
0.0024	1	.							
6493	O	O	. GLY GLY GLY B B 424 424 .	0.2868	0.1812	0.1468	-0.0067	0.0118	-
0.0296	1	.							
6494	N	N	. HIS HIS HIS B B 425 425 .	0.2915	0.2027	0.1630	0.0024	0.0402	-
0.0148	1	.							
6495	CA	CA	. HIS HIS HIS B B 425 425 .	0.3176	0.2159	0.1869	0.0030	0.0350	-
0.0132	1	.							
6496	CB	CB	. HIS HIS HIS B B 425 425 .	0.3062	0.2125	0.1720	0.0203	0.0481	-
0.0056	1	.							
6497	CG	CG	. HIS HIS HIS B B 425 425 .	0.3237	0.2984	0.2008	0.0243	0.0476	-
0.0200	1	.							
6498	ND1	ND1	. HIS HIS HIS B B 425 425 .	0.3637	0.3432	0.2191	0.0275	0.0314	-
0.0033	1	.							
6499	CE1	CE1	. HIS HIS HIS B B 425 425 .	0.3883	0.3621	0.2209	0.0374	0.0516	-
0.0062	1	.							
6500	NE2	NE2	. HIS HIS HIS B B 425 425 .	0.4172	0.3867	0.1999	0.0210	0.0286	-
0.0022	1	.							
6501	CD2	CD2	. HIS HIS HIS B B 425 425 .	0.3219	0.3013	0.2085	0.0387	0.0537	-
0.0367	1	.							

6502	C	C	. HIS HIS HIS B B 425 425 .	0.3193	0.2204	0.1987	-0.0009	0.0359	-
0.0286	1	.							
6503	O	O	. HIS HIS HIS B B 425 425 .	0.3699	0.2252	0.2185	-0.0148	0.0475	-
0.0092	1	.							
6504	N	N	. ASN ASN ASN B B 426 426 .	0.2880	0.2263	0.1844	-0.0024	0.0276	-
0.0304	1	.							
6505	CA	CA	. ASN ASN ASN B B 426 426 .	0.3033	0.2480	0.2082	-0.0028	0.0055	-
0.0246	1	.							
6506	CB	CB	. ASN ASN ASN B B 426 426 .	0.3193	0.2579	0.2242	-0.0183	0.0066	-
0.0381	1	.							
6507	CG	CG	. ASN ASN ASN B B 426 426 .	0.4455	0.3205	0.2874	-0.0186	-0.0068	-
0.0672	1	.							
6508	OD1	OD1	. ASN ASN ASN B B 426 426 .	0.5682	0.4791	0.3124	-0.0681	-0.0027	-
0.0905	1	.							
6509	ND2	ND2	. ASN ASN ASN B B 426 426 .	0.5178	0.3123	0.3405	0.0304	-0.0314	-
0.1125	1	.							
6510	C	C	. ASN ASN ASN B B 426 426 .	0.2535	0.1937	0.1948	-0.0055	0.0047	-
0.0082	1	.							
6511	O	O	. ASN ASN ASN B B 426 426 .	0.2576	0.1936	0.1840	0.0002	-0.0194	-
0.0030	1	.							
6512	N	N	. PHE PHE PHE B B 427 427 .	0.2301	0.1648	0.1596	0.0055	-0.0080	-
0.0167	1	.							
6513	CA	CA	. PHE PHE PHE B B 427 427 .	0.1949	0.1578	0.1722	0.0235	0.0091	-
0.0004	1	.							
6514	CB	CB	. PHE PHE PHE B B 427 427 .	0.1708	0.1285	0.1709	0.0003	0.0023	-
0.0065	1	.							
6515	CG	CG	. PHE PHE PHE B B 427 427 .	0.1958	0.1787	0.1855	0.0023	0.0100	-
0.0108	1	.							
6516	CD1	CD1	. PHE PHE PHE B B 427 427 .	0.2258	0.2130	0.2082	0.0055	0.0158	-
0.0168	1	.							
6517	CE1	CE1	. PHE PHE PHE B B 427 427 .	0.1900	0.2224	0.2305	0.0144	0.0343	-
0.0098	1	.							
6518	CZ	CZ	. PHE PHE PHE B B 427 427 .	0.2138	0.2014	0.1775	0.0332	-0.0050	-
0.0084	1	.							
6519	CE2	CE2	. PHE PHE PHE B B 427 427 .	0.2065	0.1838	0.1577	-0.0104	-0.0018	-
0.0092	1	.							
6520	CD2	CD2	. PHE PHE PHE B B 427 427 .	0.1955	0.1489	0.1549	-0.0318	-0.0374	-
0.0145	1	.							
6521	C	C	. PHE PHE PHE B B 427 427 .	0.1881	0.1396	0.1690	0.0089	-0.0025	-
0.0073	1	.							
6522	O	O	. PHE PHE PHE B B 427 427 .	0.1834	0.1443	0.1702	0.0080	0.0038	-
0.0084	1	.							
6523	N	N	. ARG ARG ARG B B 428 428 .	0.1888	0.1696	0.1541	0.0068	-0.0047	-
0.0035	1	.							
6524	CA	CA	. ARG ARG ARG B B 428 428 .	0.1995	0.1518	0.1646	-0.0049	-0.0109	-
0.0054	1	.							
6525	CB	CB	. ARG ARG ARG B B 428 428 .	0.1675	0.1698	0.1452	-0.0011	0.0025	-
0.0024	1	.							
6526	CG	CG	. ARG ARG ARG B B 428 428 .	0.1931	0.2084	0.1080	-0.0394	-0.0038	-
0.0367	1	.							
6527	CD	CD	. ARG ARG ARG B B 428 428 .	0.2504	0.2025	0.1565	0.0043	0.0326	-
0.0123	1	.							
6528	NE	NE	. ARG ARG ARG B B 428 428 .	0.2498	0.1760	0.1436	-0.0050	-0.0020	-
0.0003	1	.							
6529	CZ	CZ	. ARG ARG ARG B B 428 428 .	0.1749	0.1251	0.1432	-0.0052	-0.0051	-
0.0129	1	.							
6530	NH1	NH1	. ARG ARG ARG B B 428 428 .	0.1602	0.1477	0.0757	-0.0075	-0.0127	-
0.0423	1	.							
6531	NH2	NH2	. ARG ARG ARG B B 428 428 .	0.2391	0.1629	0.1567	0.0253	-0.0524	-
0.0071	1	.							

6532	C	C	. ARG ARG ARG B B 428 428 .	0.2173	0.1829	0.2081	0.0030	0.0045	-
0.0082	1	.							
6533	O	O	. ARG ARG ARG B B 428 428 .	0.2581	0.1846	0.2860	0.0122	-0.0045	-
0.0076	1	.							
6534	N	N	. ASN ASN ASN B B 429 429 .	0.2594	0.2012	0.2040	-0.0202	-0.0087	
0.0164	1	.							
6535	CA	CA	. ASN ASN ASN B B 429 429 .	0.2874	0.2368	0.2194	-0.0301	-0.0008	
0.0117	1	.							
6536	CB	CB	. ASN ASN ASN B B 429 429 .	0.3433	0.2824	0.2548	-0.0207	-0.0027	
0.0145	1	.							
6537	CG	CG	. ASN ASN ASN B B 429 429 .	0.3825	0.3017	0.2896	-0.0210	0.0080	
0.0111	1	.							
6538	OD1	OD1	. ASN ASN ASN B B 429 429 .	0.4920	0.3458	0.3138	-0.0770	-0.0091	
0.0331	1	.							
6539	ND2	ND2	. ASN ASN ASN B B 429 429 .	0.3814	0.3234	0.2128	-0.0642	0.0437	
0.0261	1	.							
6540	C	C	. ASN ASN ASN B B 429 429 .	0.3121	0.2450	0.2346	-0.0293	-0.0052	-
0.0060	1	.							
6541	O	O	. ASN ASN ASN B B 429 429 .	0.3587	0.2638	0.2202	-0.0390	-0.0073	-
0.0037	1	.							
6542	N	N	. PRO PRO PRO B B 430 430 .	0.3169	0.2507	0.2141	-0.0333	-0.0082	-
0.0097	1	.							
6543	CA	CA	. PRO PRO PRO B B 430 430 .	0.3401	0.2801	0.2466	-0.0355	-0.0004	
0.0029	1	.							
6544	CB	CB	. PRO PRO PRO B B 430 430 .	0.3531	0.2756	0.2414	-0.0237	0.0079	
0.0015	1	.							
6545	CG	CG	. PRO PRO PRO B B 430 430 .	0.3408	0.2617	0.1937	-0.0388	0.0005	-
0.0047	1	.							
6546	CD	CD	. PRO PRO PRO B B 430 430 .	0.3202	0.2281	0.1996	-0.0225	0.0031	-
0.0160	1	.							
6547	C	C	. PRO PRO PRO B B 430 430 .	0.3710	0.3273	0.3091	-0.0306	-0.0050	
0.0003	1	.							
6548	O	O	. PRO PRO PRO B B 430 430 .	0.3874	0.3285	0.3147	-0.0555	-0.0269	-
0.0075	1	.							
6549	N	N	. SER SER SER B B 431 431 .	0.3953	0.3677	0.3447	-0.0204	-0.0014	
0.0088	1	.							
6550	CA	CA	. SER SER SER B B 431 431 .	0.4332	0.4266	0.4131	-0.0146	-0.0039	-
0.0067	1	.							
6551	CB	CB	. SER SER SER B B 431 431 .	0.4383	0.4358	0.4126	-0.0146	-0.0060	
0.0021	1	.							
6552	OG	OG	. SER SER SER B B 431 431 .	0.4867	0.4999	0.4397	-0.0137	-0.0090	
0.0090	1	.							
6553	C	C	. SER SER SER B B 431 431 .	0.4605	0.4650	0.4434	-0.0098	-0.0028	-
0.0116	1	.							
6554	O	O	. SER SER SER B B 431 431 .	0.4701	0.4718	0.4526	-0.0163	-0.0069	-
0.0216	1	.							
6555	N	N	. VAL VAL VAL B B 432 432 .	0.4735	0.4939	0.4669	-0.0045	0.0068	-
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6556	CA	CA	. VAL VAL VAL B B 432 432 .	0.5019	0.5170	0.4751	-0.0077	0.0014	-
0.0085	1	.							
6557	CB	CB	. VAL VAL VAL B B 432 432 .	0.5070	0.5290	0.4910	-0.0078	-0.0003	-
0.0062	1	.							
6558	CG1	CG1	. VAL VAL VAL B B 432 432 .	0.5450	0.5284	0.4755	-0.0089	-0.0009	-
0.0086	1	.							
6559	CG2	CG2	. VAL VAL VAL B B 432 432 .	0.5091	0.5397	0.4834	-0.0053	-0.0048	-
0.0032	1	.							
6560	C	C	. VAL VAL VAL B B 432 432 .	0.5082	0.5309	0.4926	-0.0109	0.0007	-
0.0029	1	.							
6561	O	O	. VAL VAL VAL B B 432 432 .	0.5272	0.5540	0.4840	-0.0107	-0.0131	-
0.0166	1	.							













































7162	O	O	.	HOH	HOH	HOH	S	.	589	589	.	0.4440	0.3543	0.3658	0.0113	0.0903	
0.0766	1	.															
7163	O	O	.	HOH	HOH	HOH	S	.	590	590	.	0.5725	0.3275	0.4199	-0.0166	-0.0672	
0.1781	1	.															
7164	O	O	.	HOH	HOH	HOH	S	.	591	591	.	0.5419	0.5149	0.3519	-0.2295	0.0059	
0.0560	1	.															
7165	O	O	.	HOH	HOH	HOH	S	.	592	592	.	0.4797	0.3919	0.3495	-0.0120	-0.1839	-
0.0354	1	.															
7166	O	O	.	HOH	HOH	HOH	S	.	594	594	.	0.1094	0.8048	0.5371	0.0004	-0.0323	-
0.0354	1	.															
7167	O	O	.	HOH	HOH	HOH	S	.	595	595	.	0.4271	0.3830	0.5116	-0.0171	0.0306	
0.0827	1	.															
7168	O	O	.	HOH	HOH	HOH	S	.	596	596	.	0.5284	0.7853	0.3361	0.2677	-0.0713	
0.0426	1	.															
7169	O	O	.	HOH	HOH	HOH	S	.	597	597	.	0.3886	0.3420	0.2653	0.0252	-0.0075	-
0.0757	1	.															
7170	O	O	.	HOH	HOH	HOH	S	.	598	598	.	0.8460	0.4347	0.1856	0.0660	0.0716	
0.0036	1	.															
7171	O	O	.	HOH	HOH	HOH	S	.	599	599	.	0.5687	0.2309	0.3564	-0.0082	0.1311	-
0.0255	1	.															
7172	O	O	.	HOH	HOH	HOH	S	.	600	600	.	0.4578	0.9939	0.3824	0.1378	0.0477	-
0.2263	1	.															
7173	O	O	.	HOH	HOH	HOH	S	.	601	601	.	0.3894	0.4979	0.3222	0.1552	-0.0241	
0.0617	1	.															
7174	O	O	.	HOH	HOH	HOH	S	.	602	602	.	0.2223	0.3340	0.2954	0.0171	-0.0762	
0.0067	1	.															
7175	O	O	.	HOH	HOH	HOH	S	.	603	603	.	0.3709	0.4577	0.6584	0.1155	0.1065	
0.0351	1	.															
7176	O	O	.	HOH	HOH	HOH	S	.	604	604	.	0.3978	0.2873	0.3951	0.0485	0.0924	
0.0958	1	.															
7177	O	O	.	HOH	HOH	HOH	S	.	605	605	.	0.6286	0.4839	0.3850	-0.1870	0.0198	-
0.1434	1	.															
7178	O	O	.	HOH	HOH	HOH	S	.	606	606	.	0.5086	0.4747	0.3336	0.1034	-0.0812	
0.0867	1	.															
7179	O	O	.	HOH	HOH	HOH	S	.	607	607	.	0.3781	0.3348	0.3864	0.0419	-0.0128	-
0.0193	1	.															
7180	O	O	.	HOH	HOH	HOH	S	.	608	608	.	0.4794	0.5486	0.4394	-0.0723	0.0386	-
0.0861	1	.															
7181	O	O	.	HOH	HOH	HOH	S	.	609	609	.	0.3321	0.2872	0.3504	-0.0533	0.0524	
0.0086	1	.															
7182	O	O	.	HOH	HOH	HOH	S	.	610	610	.	0.6104	0.3499	0.3132	-0.0352	-0.0550	
0.0678	1	.															
7183	O	O	.	HOH	HOH	HOH	S	.	612	612	.	0.6409	0.4298	0.3376	-0.0637	0.0963	-
0.1885	1	.															
7184	O	O	.	HOH	HOH	HOH	S	.	614	614	.	0.5465	0.6284	0.2836	0.0703	-0.0056	-
0.1202	1	.															
7185	O	O	.	HOH	HOH	HOH	S	.	615	615	.	0.4008	0.5261	0.5493	-0.0688	0.0212	-
0.1132	1	.															
7186	O	O	.	HOH	HOH	HOH	S	.	616	616	.	0.5369	0.2806	0.4998	0.0323	-0.0386	
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REMARK 3
REMARK 3 REFINEMENT.
REMARK 3 PROGRAM : REFMAC 5.5.0109
REMARK 3 AUTHORS : MURSHUDOV,VAGIN,DODSON
REMARK 3
REMARK 3 REFINEMENT TARGET : MAXIMUM LIKELIHOOD
REMARK 3
REMARK 3 DATA USED IN REFINEMENT.
REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS) : 1.70
REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS) : 80.84
REMARK 3 DATA CUTOFF (SIGMA(F)) : NONE
REMARK 3 COMPLETENESS FOR RANGE (%) : 96.69
REMARK 3 NUMBER OF REFLECTIONS : 90209
REMARK 3
REMARK 3 FIT TO DATA USED IN REFINEMENT.
REMARK 3 CROSS-VALIDATION METHOD : THROUGHOUT
REMARK 3 FREE R VALUE TEST SET SELECTION : RANDOM
REMARK 3 R VALUE (WORKING + TEST SET) : 0.14475
REMARK 3 R VALUE (WORKING SET) : 0.14233
REMARK 3 FREE R VALUE : 0.19127
REMARK 3 FREE R VALUE TEST SET SIZE (%) : 5.0
REMARK 3 FREE R VALUE TEST SET COUNT : 4725
REMARK 3
REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK 3 TOTAL NUMBER OF BINS USED : 20

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REMARK 3 BIN RESOLUTION RANGE HIGH : 1.705  
REMARK 3 BIN RESOLUTION RANGE LOW : 1.749  
REMARK 3 REFLECTION IN BIN (WORKING SET) : 5137  
REMARK 3 BIN COMPLETENESS (WORKING+TEST) (%) : 76.22  
REMARK 3 BIN R VALUE (WORKING SET) : 0.166  
REMARK 3 BIN FREE R VALUE SET COUNT : 278  
REMARK 3 BIN FREE R VALUE : 0.221  
REMARK 3  
REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.  
REMARK 3 ALL ATOMS : 7186  
REMARK 3  
REMARK 3 B VALUES.  
REMARK 3 FROM WILSON PLOT (A\*\*2) : NULL  
REMARK 3 MEAN B VALUE (OVERALL, A\*\*2) : 14.284  
REMARK 3 OVERALL ANISOTROPIC B VALUE.  
REMARK 3 B11 (A\*\*2) : 1.03  
REMARK 3 B22 (A\*\*2) : -0.54  
REMARK 3 B33 (A\*\*2) : -0.49  
REMARK 3 B12 (A\*\*2) : 0.00  
REMARK 3 B13 (A\*\*2) : 0.00  
REMARK 3 B23 (A\*\*2) : 0.00  
REMARK 3  
REMARK 3 ESTIMATED OVERALL COORDINATE ERROR.  
REMARK 3 ESU BASED ON R VALUE (A) : 0.132  
REMARK 3 ESU BASED ON FREE R VALUE (A) : 0.095  
REMARK 3 ESU BASED ON MAXIMUM LIKELIHOOD (A) : 0.054  
REMARK 3 ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A\*\*2) : 3.526  
REMARK 3  
REMARK 3 CORRELATION COEFFICIENTS.  
REMARK 3 CORRELATION COEFFICIENT FO-FC : 0.963  
REMARK 3 CORRELATION COEFFICIENT FO-FC FREE : 0.941  
REMARK 3  
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES COUNT RMS WEIGHT  
REMARK 3 BOND LENGTHS REFINED ATOMS (A) : 6695 ; 0.027 ; 0.022  
REMARK 3 BOND ANGLES REFINED ATOMS (DEGREES) : 9067 ; 2.077 ; 1.970  
REMARK 3 TORSION ANGLES, PERIOD 1 (DEGREES) : 861 ; 6.123 ; 5.000  
REMARK 3 TORSION ANGLES, PERIOD 2 (DEGREES) : 298 ; 38.349 ; 24.966  
REMARK 3 TORSION ANGLES, PERIOD 3 (DEGREES) : 1125 ; 13.672 ; 15.000  
REMARK 3 TORSION ANGLES, PERIOD 4 (DEGREES) : 38 ; 20.551 ; 15.000  
REMARK 3 CHIRAL-CENTER RESTRAINTS (A\*\*3) : 1024 ; 0.196 ; 0.200  
REMARK 3 GENERAL PLANES REFINED ATOMS (A) : 5066 ; 0.012 ; 0.021  
REMARK 3  
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT  
REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A\*\*2) : 4277 ; 2.041 ; 1.500  
REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A\*\*2) : 6829 ; 2.947 ; 2.000  
REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A\*\*2) : 2418 ; 4.849 ; 3.000  
REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A\*\*2) : 2238 ; 6.975 ; 4.500  
REMARK 3  
REMARK 3 ANISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT  
REMARK 3 RIGID-BOND RESTRAINTS (A\*\*2) : 6695 ; 2.754 ; 3.000  
REMARK 3  
REMARK 3 NCS RESTRAINTS STATISTICS  
REMARK 3 NUMBER OF NCS GROUPS : NULL  
REMARK 3  
REMARK 3 TWIN DETAILS  
REMARK 3 NUMBER OF TWIN DOMAINS : NULL  
REMARK 3  
REMARK 3  
REMARK 3 TLS DETAILS  
REMARK 3 NUMBER OF TLS GROUPS : NULL

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REMARK 3
REMARK 3
REMARK 3 BULK SOLVENT MODELLING.
REMARK 3 METHOD USED : MASK
REMARK 3 PARAMETERS FOR MASK CALCULATION
REMARK 3 VDW PROBE RADIUS : 1.40
REMARK 3 ION PROBE RADIUS : 0.80
REMARK 3 SHRINKAGE RADIUS : 0.80
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS:
REMARK 3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
REMARK 3 U VALUES : REFINED INDIVIDUALLY
REMARK 3

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_exptl_crystal.density_percent_sol ?
_exptl_crystal.size_max ?
_exptl_crystal.size_mid ?
_exptl_crystal.size_min ?
_exptl_crystal.size_rad ?
#
_refine.entry_id UNNAMED
_refine.pdbx_refine_id 'X-RAY DIFFRACTION'
_refine.ls_d_res_high 1.7000
_refine.ls_d_res_low 80.8400
_refine.pdbx_ls_sigma_F 0.000
_refine.pdbx_data_cutoff_high_absF ?
_refine.pdbx_data_cutoff_low_absF ?
_refine.ls_percent_reflns_obs 96.6900
_refine.ls_number_reflns_obs 94934
_refine.ls_number_reflns_all ?
_refine.pdbx_ls_cross_valid_method THROUGHOUT

```

```

_refine.ls_matrix_type ?
_refine.pdbx_R_Free_selection_details RANDOM
_refine.details
' HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS U VALUES : REFINED
INDIVIDUALLY '
_refine.ls_R_factor_all ?
_refine.ls_R_factor_obs 0.1447
_refine.ls_R_factor_R_work 0.1423
_refine.ls_wR_factor_R_work 0.1423
_refine.ls_R_factor_R_free 0.1913
_refine.ls_wR_factor_R_free 0.1913
_refine.ls_percent_reflns_R_free 5.0000
_refine.ls_number_reflns_R_free 4725
_refine.ls_number_reflns_R_work 90209
_refine.ls_R_factor_R_free_error ?
_refine.B_iso_mean 14.4092
_refine.solvent_model_param_bsol ?
_refine.solvent_model_param_ksol ?
_refine.pdbx_isotropic_thermal_model ?
_refine.aniso_B[1][1] 1.0300
_refine.aniso_B[2][2] -0.5400
_refine.aniso_B[3][3] -0.4900
_refine.aniso_B[1][2] 0.0000
_refine.aniso_B[1][3] 0.0000
_refine.aniso_B[2][3] 0.0000
_refine.correlation_coeff_Fo_to_Fc 0.9630
_refine.correlation_coeff_Fo_to_Fc_free 0.9410
_refine.overall_SU_R_Cruickshank_DPI 0.1324
_refine.pdbx_overall_SU_R_free_Cruickshank_DPI ?
_refine.pdbx_overall_SU_R_Blow_DPI ?
_refine.pdbx_overall_SU_R_free_Blow_DPI ?
_refine.overall_SU_R_free 0.0947
_refine.pdbx_overall_ESU_R 0.1320
_refine.pdbx_overall_ESU_R_Free 0.0950
_refine.overall_SU_ML 0.0540
_refine.overall_SU_B 3.5260
_refine.solvent_model_details MASK
_refine.pdbx_solvent_vdw_probe_radii 1.4000
_refine.pdbx_solvent_ion_probe_radii 0.8000
_refine.pdbx_solvent_shrinkage_radii 0.8000
_refine.ls_number_parameters ?
_refine.ls_number_restraints ?
_refine.pdbx_starting_model ?
_refine.pdbx_method_to_determine_struct ?
_refine.pdbx_stereochemistry_target_values 'MAXIMUM LIKELIHOOD'
_refine.pdbx_stereochem_target_val_spec_case ?
_refine.overall_FOM_work_R_set 0.9036
_refine.B_iso_max 53.390
_refine.B_iso_min 3.550
_refine.pdbx_overall_phase_error ?
_refine.occupancy_max 1.000
_refine.occupancy_min 0.500
#
loop_
_refine_ls_restr.pdbx_refine_id
_refine_ls_restr.type
_refine_ls_restr.number
_refine_ls_restr.dev_ideal
_refine_ls_restr.dev_ideal_target
_refine_ls_restr.weight

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_refine_ls_restr.pdbx_restraint_function
'X-RAY DIFFRACTION' r_bond_refined_d      6695 0.027 0.022 ? ?
'X-RAY DIFFRACTION' r_angle_refined_deg   9067 2.077 1.970 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_1_deg 861 6.123 5.000 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_2_deg 298 38.349 24.966 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_3_deg 1125 13.672 15.000 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_4_deg 38 20.551 15.000 ? ?
'X-RAY DIFFRACTION' r_chiral_restr       1024 0.196 0.200 ? ?
'X-RAY DIFFRACTION' r_gen_planes_refined  5066 0.012 0.021 ? ?
'X-RAY DIFFRACTION' r_mcbond_it          4277 2.041 1.500 ? ?
'X-RAY DIFFRACTION' r_mcbond_it          6829 2.947 2.000 ? ?
'X-RAY DIFFRACTION' r_scbond_it          2418 4.849 3.000 ? ?
'X-RAY DIFFRACTION' r_scangle_it         2238 6.975 4.500 ? ?
'X-RAY DIFFRACTION' r_rigid_bond_restr   6695 2.754 3.000 ? ?
#
_refine_ls_shell.d_res_high               1.7050
_refine_ls_shell.d_res_low                1.7490
_refine_ls_shell.pdbx_total_number_of_bins_used 20
_refine_ls_shell.percent_reflns_obs      76.2200
_refine_ls_shell.number_reflns_R_work    5137
_refine_ls_shell.R_factor_all            ?
_refine_ls_shell.R_factor_R_work         0.1660
_refine_ls_shell.R_factor_R_free         0.2210
_refine_ls_shell.percent_reflns_R_free   ?
_refine_ls_shell.number_reflns_R_free    278
_refine_ls_shell.R_factor_R_free_error   ?
_refine_ls_shell.number_reflns_all       5415
_refine_ls_shell.number_reflns_obs       ?
_refine_ls_shell.pdbx_refine_id          'X-RAY DIFFRACTION'
#
_reflns.entry_id                          UNNAMED
_reflns.d_resolution_high                  1.700
_reflns.d_resolution_low                   50.000
_reflns.pdbx_number_measured_all          555923
_reflns.number_obs                         94960
_reflns.pdbx_Rmerge_I_obs                  0.051
_reflns.pdbx_netI_over_av_sigmaI          37.571
_reflns.pdbx_netI_over_sigmaI             16.400
_reflns.pdbx_chi_squared                   1.351
_reflns.pdbx_redundancy                   5.900
_reflns.percent_possible_obs              96.800
_reflns.pdbx_Rmeas_mean                    0.051
_reflns.pdbx_average_I_obs                 3787.200
_reflns.pdbx_average_sigmaI_obs           100.800
#
loop_
_reflns_shell.d_res_high
_reflns_shell.d_res_low
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_reflns_shell.number_measured_all
_reflns_shell.number_unique_obs
_reflns_shell.pdbx_rejects
_reflns_shell.Rmerge_I_obs
_reflns_shell.meanI_over_sigI_obs
_reflns_shell.pdbx_Rsym_value
_reflns_shell.pdbx_chi_squared
_reflns_shell.pdbx_redundancy
_reflns_shell.percent_possible_obs
_reflns_shell.pdbx_Rmeas_mean
_reflns_shell.pdbx_netI_over_sigmaI_obs

```

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_reflns_shell.pdbx_number_centric
_reflns_shell.pdbx_number_anomalous
_reflns_shell.pdbx_Rmerge_I_anomalous
_reflns_shell.pdbx_meanI_over_sigI_anomalous
_reflns_shell.pdbx_PCV_mean
_reflns_shell.number_possible
_reflns_shell.number_unique_all
_reflns_shell.Rmerge_F_all
_reflns_shell.Rmerge_F_obs
_reflns_shell.Rmerge_I_all
_reflns_shell.meanI_over_sigI_all
_reflns_shell.percent_possible_all
_reflns_shell.pdbx_Rrim_I_all
_reflns_shell.pdbx_Rpim_I_all
1.700 1.760 ? ? ? ? 0.156 ? ? 0.832 4.000 ? ? ? ? ? ? ? ? ? ? 7763 ? ? ? ? 80.100 ? ?
1.760 1.830 ? ? ? ? 0.135 ? ? 0.897 4.700 ? ? ? ? ? ? ? ? ? ? 9282 ? ? ? ? 95.700 ? ?
1.830 1.910 ? ? ? ? 0.112 ? ? 0.927 5.700 ? ? ? ? ? ? ? ? ? ? 9596 ? ? ? ? 99.100 ? ?
1.910 2.020 ? ? ? ? 0.086 ? ? 0.990 5.900 ? ? ? ? ? ? ? ? ? ? 9661 ? ? ? ? 99.400 ? ?
2.020 2.140 ? ? ? ? 0.069 ? ? 1.100 6.100 ? ? ? ? ? ? ? ? ? ? 9675 ? ? ? ? 99.500 ? ?
2.140 2.310 ? ? ? ? 0.057 ? ? 1.197 6.300 ? ? ? ? ? ? ? ? ? ? 9730 ? ? ? ? 99.700 ? ?
2.310 2.540 ? ? ? ? 0.051 ? ? 1.297 6.400 ? ? ? ? ? ? ? ? ? ? 9767 ? ? ? ? 99.700 ? ?
2.540 2.910 ? ? ? ? 0.045 ? ? 1.453 6.500 ? ? ? ? ? ? ? ? ? ? 9762 ? ? ? ? 99.600 ? ?
2.910 3.660 ? ? ? ? 0.047 ? ? 2.175 6.400 ? ? ? ? ? ? ? ? ? ? 9830 ? ? ? ? 99.000 ? ?
3.660 50.000 ? ? ? ? 0.039 ? ? 2.085 6.300 ? ? ? ? ? ? ? ? ? ? 9894 ? ? ? ? 96.400 ? ?
#
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_software.pdbx_ordinal
_software.name
_software.version
_software.date
_software.type
_software.contact_author
_software.contact_author_email
_software.classification
_software.location
_software.language
1 HKL ? ? package 'Zbyszek Otwinowski' hkl@hkl-xray.com
'data reduction' http://www.hkl-xray.com/ ?
2 REFMAC5 ? ? program 'Garib N. Murshudov' garib@ysbl.york.ac.uk
refinement http://www.ccp4.ac.uk/dist/html/refmac5.html Fortran_77
3 pdb_extract 3.10 'June 10, 2010' package PDB
deposit@deposit.rcsb.org
'data extraction' http://sw-tools.pdb.org/apps/PDB_EXTRACT/ C++
#
_struct_biol.id 1
_struct_biol.details ?
#
_symmetry.space_group_name_H-M 'P 21 21 2'
_symmetry.entry_id UNNAMED
_symmetry.Int_Tables_number 18
#

```

## CIF File(s) (REQUIRED if paper describes X-ray crystal structures)

data\_UNNAMED

#

loop\_

\_atom\_site.group\_PDB

\_atom\_site.id

\_atom\_site.auth\_atom\_id

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\_atom\_site.Cartn\_z

\_atom\_site.occupancy

\_atom\_site.B\_iso\_or\_equiv

\_atom\_site.pdbx\_PDB\_model\_num

\_atom\_site.label\_entity\_id

\_atom\_site.type\_symbol

ATOM 1	N	N	.	SER	SER	SER	A	A	1	1	.	115.859	75.866	21.949	1.00	18.10
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1 . .

ATOM 2	CA	CA	.	SER	SER	SER	A	A	1	1	.	117.061	75.248	21.331	1.00	17.79
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1 . .

ATOM 3	CB	CB	.	SER	SER	SER	A	A	1	1	.	116.827	73.787	20.974	1.00	19.68
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1 . .

ATOM 4	OG	OG	.	SER	SER	SER	A	A	1	1	.	115.762	73.731	20.076	1.00	23.06
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1 . .

ATOM 5	C	C	.	SER	SER	SER	A	A	1	1	.	117.551	76.046	20.085	1.00	17.86
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1 . .

ATOM 6	O	O	.	SER	SER	SER	A	A	1	1	.	116.879	76.964	19.530	1.00	18.38
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1 . .

ATOM 7	N	N	.	ILE	ILE	ILE	A	A	2	2	.	118.806	75.749	19.742	1.00	13.93
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1 . .

ATOM 8	CA	CA	.	ILE	ILE	ILE	A	A	2	2	.	119.407	76.403	18.576	1.00	12.02
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1 . .

ATOM 9	CB	CB	.	ILE	ILE	ILE	A	A	2	2	.	120.917	76.179	18.598	1.00	11.94
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1 . .

ATOM 10	CG1	CG1	.	ILE	ILE	ILE	A	A	2	2	.	121.552	76.811	19.871	1.00	12.62
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1 . .

ATOM 11	CD	CD	.	ILE	ILE	ILE	A	A	2	2	.	122.954	76.298	20.211	1.00	16.39
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1 . .

ATOM 12	CG2	CG2	.	ILE	ILE	ILE	A	A	2	2	.	121.514	76.654	17.335	1.00	12.53
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1 . .

ATOM 13	C	C	.	ILE	ILE	ILE	A	A	2	2	.	118.816	75.762	17.325	1.00	11.88
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1 . .

ATOM 14	O	O	.	ILE	ILE	ILE	A	A	2	2	.	118.714	74.500	17.247	1.00	14.42
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1 . .

ATOM 15	N	N	.	GLN	GLN	GLN	A	A	3	3	.	118.358	76.599	16.378	1.00	11.77
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1 . .

ATOM 16	CA	CA	.	GLN	GLN	GLN	A	A	3	3	.	117.776	76.118	15.117	1.00	13.48
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1 . .

ATOM 17	CB	CB	.	GLN	GLN	GLN	A	A	3	3	.	116.709	77.064	14.592	1.00	15.48
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1 . .

ATOM 18	CG	CG	.	GLN	GLN	GLN	A	A	3	3	.	115.549	77.179	15.522	1.00	18.45
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1 . .









ATOM 109	O	O	. SER SER SER	A A 13 13	. 141.828 97.388 10.102	1.00 6.91
1 . .						
ATOM 110	N	N	. ARG ARG ARG	A A 14 14	. 142.331 95.124 10.289	1.00 6.68
1 . .						
ATOM 111	CA	CA	. ARG ARG ARG	A A 14 14	. 143.617 95.265 9.551	1.00 5.87
1 . .						
ATOM 112	CB	CB	. ARG ARG ARG	A A 14 14	. 144.817 94.554 10.358	1.00 10.14
1 . .						
ATOM 113	CG	CG	. ARG ARG ARG	A A 14 14	. 145.474 95.459 11.369	1.00 12.15
1 . .						
ATOM 114	CD	CD	. ARG ARG ARG	A A 14 14	. 146.678 94.756 12.037	1.00 12.65
1 . .						
ATOM 115	NE	NE	. ARG ARG ARG	A A 14 14	. 146.226 93.660 12.879	1.00 12.17
1 . .						
ATOM 116	CZ	CZ	. ARG ARG ARG	A A 14 14	. 146.408 93.635 14.193	1.00 8.64
1 . .						
ATOM 117	NH1	NH1	. ARG ARG ARG	A A 14 14	. 147.071 94.638 14.779	1.00 10.37
1 . .						
ATOM 118	NH2	NH2	. ARG ARG ARG	A A 14 14	. 145.959 92.592 14.846	1.00 11.11
1 . .						
ATOM 119	C	C	. ARG ARG ARG	A A 14 14	. 143.492 94.600 8.193	1.00 7.95
1 . .						
ATOM 120	O	O	. ARG ARG ARG	A A 14 14	. 144.494 94.526 7.484	1.00 10.11
1 . .						
ATOM 121	N	N	. GLY GLY GLY	A A 15 15	. 142.323 94.099 7.865	1.00 7.18
1 . .						
ATOM 122	CA	CA	. GLY GLY GLY	A A 15 15	. 142.139 93.484 6.553	1.00 7.84
1 . .						
ATOM 123	C	C	. GLY GLY GLY	A A 15 15	. 142.449 91.975 6.575	1.00 6.26
1 . .						
ATOM 124	O	O	. GLY GLY GLY	A A 15 15	. 142.650 91.386 5.495	1.00 8.64
1 . .						
ATOM 125	N	N	. ASN ASN ASN	A A 16 16	. 142.603 91.380 7.770	1.00 7.42
1 . .						
ATOM 126	CA	CA	. ASN ASN ASN	A A 16 16	. 142.879 89.935 7.887	1.00 8.31
1 . .						
ATOM 127	CB	CB	. ASN ASN ASN	A A 16 16	. 143.926 89.685 8.981	1.00 8.77
1 . .						
ATOM 128	CG	CG	. ASN ASN ASN	A A 16 16	. 145.249 90.300 8.656	1.00 9.31
1 . .						
ATOM 129	OD1	OD1	. ASN ASN ASN	A A 16 16	. 145.722 90.189 7.528	1.00 11.69
1 . .						
ATOM 130	ND2	ND2	. ASN ASN ASN	A A 16 16	. 145.807 91.023 9.616	1.00 12.05
1 . .						
ATOM 131	C	C	. ASN ASN ASN	A A 16 16	. 141.631 89.151 8.175	1.00 6.99
1 . .						
ATOM 132	O	O	. ASN ASN ASN	A A 16 16	. 140.734 89.599 8.834	1.00 6.71
1 . .						
ATOM 133	N	N	. PRO PRO PRO	A A 17 17	. 141.543 87.926 7.638	1.00 7.68
1 . .						
ATOM 134	CA	CA	. PRO PRO PRO	A A 17 17	. 140.324 87.104 7.910	1.00 6.45
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ATOM 135	CB	CB	. PRO PRO PRO	A A 17 17	. 140.666 85.771 7.247	1.00 7.63
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ATOM 136	CG	CG	. PRO PRO PRO	A A 17 17	. 141.590 86.176 6.102	1.00 7.80
1 . .						
ATOM 137	CD	CD	. PRO PRO PRO	A A 17 17	. 142.494 87.227 6.769	1.00 7.12
1 . .						
ATOM 138	C	C	. PRO PRO PRO	A A 17 17	. 140.113 86.849 9.405	1.00 6.24
1 . .						







ATOM 229	C	C	. LEU LEU LEU	A A 29 29	. 120.253 86.619 14.882	1.00 12.73
1 . .						
ATOM 230	O	O	. LEU LEU LEU	A A 29 29	. 120.039 87.810 15.104	1.00 15.57
1 . .						
ATOM 231	N	N	. PHE PHE PHE	A A 30 30	. 121.280 86.014 15.410	1.00 10.42
1 . .						
ATOM 232	CA	CA	. PHE PHE PHE	A A 30 30	. 122.206 86.671 16.326	1.00 10.01
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ATOM 233	CB	CB	. PHE PHE PHE	A A 30 30	. 122.055 86.065 17.712	1.00 10.67
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ATOM 234	CG	CG	. PHE PHE PHE	A A 30 30	. 120.680 86.242 18.197	1.00 10.74
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ATOM 235	CD1	CD1	. PHE PHE PHE	A A 30 30	. 120.318 87.493 18.698	1.00 12.26
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ATOM 236	CE1	CE1	. PHE PHE PHE	A A 30 30	. 118.965 87.731 19.025	1.00 13.59
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ATOM 237	CZ	CZ	. PHE PHE PHE	A A 30 30	. 118.003 86.711 18.861	1.00 13.93
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ATOM 238	CE2	CE2	. PHE PHE PHE	A A 30 30	. 118.375 85.503 18.302	1.00 13.10
1 . .						
ATOM 239	CD2	CD2	. PHE PHE PHE	A A 30 30	. 119.729 85.275 18.031	1.00 12.15
1 . .						
ATOM 240	C	C	. PHE PHE PHE	A A 30 30	. 123.628 86.464 15.735	1.00 10.73
1 . .						
ATOM 241	O	O	. PHE PHE PHE	A A 30 30	. 123.961 85.332 15.321	1.00 14.86
1 . .						
ATOM 242	N	N	. ARG ARG ARG	A A 31 31	. 124.456 87.492 15.804	1.00 8.87
1 . .						
ATOM 243	CA	CA	. ARG ARG ARG	A A 31 31	. 125.722 87.451 15.072	1.00 8.22
1 . .						
ATOM 244	CB	CB	. ARG ARG ARG	A A 31 31	. 125.637 88.314 13.773	1.00 9.30
1 . .						
ATOM 245	CG	CG	. ARG ARG ARG	A A 31 31	. 126.895 88.289 12.933	1.00 9.30
1 . .						
ATOM 246	CD	CD	. ARG ARG ARG	A A 31 31	. 126.729 89.149 11.770	1.00 11.81
1 . .						
ATOM 247	NE	NE	. ARG ARG ARG	A A 31 31	. 125.658 88.762 10.899	1.00 11.10
1 . .						
ATOM 248	CZ	CZ	. ARG ARG ARG	A A 31 31	. 124.946 89.703 10.225	1.00 13.86
1 . .						
ATOM 249	NH1	NH1	. ARG ARG ARG	A A 31 31	. 125.242 91.016 10.358	1.00 15.18
1 . .						
ATOM 250	NH2	NH2	. ARG ARG ARG	A A 31 31	. 123.955 89.359 9.450	1.00 17.21
1 . .						
ATOM 251	C	C	. ARG ARG ARG	A A 31 31	. 126.831 87.924 15.950	1.00 7.53
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ATOM 252	O	O	. ARG ARG ARG	A A 31 31	. 126.655 88.935 16.627	1.00 9.75
1 . .						
ATOM 253	N	N	. ALA ALA ALA	A A 32 32	. 127.980 87.236 15.916	1.00 7.36
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ATOM 254	CA	CA	. ALA ALA ALA	A A 32 32	. 129.169 87.683 16.650	1.00 6.45
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ATOM 255	CB	CB	. ALA ALA ALA	A A 32 32	. 129.302 86.947 18.013	1.00 9.00
1 . .						
ATOM 256	C	C	. ALA ALA ALA	A A 32 32	. 130.400 87.447 15.842	1.00 6.89
1 . .						
ATOM 257	O	O	. ALA ALA ALA	A A 32 32	. 130.425 86.567 14.998	1.00 8.30
1 . .						
ATOM 258	N	N	. ALA ALA ALA	A A 33 33	. 131.445 88.187 16.111	1.00 6.97
1 . .						









ATOM 349	C	C	. LEU LEU LEU A A 46 46	. 144.398 79.446 18.952 1.00 10.14
1 . .				
ATOM 350	O	O	. LEU LEU LEU A A 46 46	. 143.191 79.204 18.952 1.00 10.51
1 . .				
ATOM 351	N	N	. GLU GLU GLU A A 47 47	. 144.937 80.360 18.171 1.00 9.44
1 . .				
ATOM 352	CA	CA	. GLU GLU GLU A A 47 47	. 144.158 80.965 17.065 1.00 8.32
1 . .				
ATOM 353	CB	CB	. GLU GLU GLU A A 47 47	. 144.637 82.428 16.856 1.00 9.38
1 . .				
ATOM 354	CG	CG	. GLU GLU GLU A A 47 47	. 143.982 83.104 15.657 1.00 8.97
1 . .				
ATOM 355	CD	CD	. GLU GLU GLU A A 47 47	. 144.505 84.486 15.518 1.00 10.73
1 . .				
ATOM 356	OE1	OE1	. GLU GLU GLU A A 47 47	. 143.918 85.389 16.168 1.00 11.29
1 . .				
ATOM 357	OE2	OE2	. GLU GLU GLU A A 47 47	. 145.581 84.687 14.864 1.00 11.77
1 . .				
ATOM 358	C	C	. GLU GLU GLU A A 47 47	. 144.455 80.142 15.813 1.00 7.91
1 . .				
ATOM 359	O	O	. GLU GLU GLU A A 47 47	. 145.608 80.099 15.328 1.00 10.27
1 . .				
ATOM 360	N	N	. LEU LEU LEU A A 48 48	. 143.457 79.434 15.335 1.00 7.88
1 . .				
ATOM 361	CA	CA	. LEU LEU LEU A A 48 48	. 143.665 78.500 14.216 1.00 8.17
1 . .				
ATOM 362	CB	CB	. LEU LEU LEU A A 48 48	. 142.611 77.374 14.293 1.00 10.13
1 . .				
ATOM 363	CG	CG	. LEU LEU LEU A A 48 48	. 142.719 76.336 13.152 1.00 9.55
1 . .				
ATOM 364	CD1	CD1	. LEU LEU LEU A A 48 48	. 144.095 75.604 13.250 1.00 12.78
1 . .				
ATOM 365	CD2	CD2	. LEU LEU LEU A A 48 48	. 141.517 75.368 13.242 1.00 10.98
1 . .				
ATOM 366	C	C	. LEU LEU LEU A A 48 48	. 143.581 79.281 12.893 1.00 8.71
1 . .				
ATOM 367	O	O	. LEU LEU LEU A A 48 48	. 142.503 79.799 12.563 1.00 9.30
1 . .				
ATOM 368	N	N	. ARG ARG ARG A A 49 49	. 144.670 79.263 12.119 1.00 10.80
1 . .				
ATOM 369	CA	CA	. ARG ARG ARG A A 49 49	. 144.725 79.851 10.793 1.00 10.64
1 . .				
ATOM 370	CB	CB	. ARG ARG ARG A A 49 49	. 145.870 80.854 10.674 1.00 12.65
1 . .				
ATOM 371	CG	CG	. ARG ARG ARG A A 49 49	. 145.836 81.950 11.710 1.00 16.61
1 . .				
ATOM 372	CD	CD	. ARG ARG ARG A A 49 49	. 145.194 83.097 11.073 1.00 15.15
1 . .				
ATOM 373	NE	NE	. ARG ARG ARG A A 49 49	. 145.003 84.283 11.950 1.00 13.42
1 . .				
ATOM 374	CZ	CZ	. ARG ARG ARG A A 49 49	. 144.156 85.278 11.684 1.00 12.41
1 . .				
ATOM 375	NH1	NH1	. ARG ARG ARG A A 49 49	. 143.446 85.322 10.576 1.00 11.26
1 . .				
ATOM 376	NH2	NH2	. ARG ARG ARG A A 49 49	. 143.999 86.224 12.587 1.00 11.21
1 . .				
ATOM 377	C	C	. ARG ARG ARG A A 49 49	. 145.011 78.735 9.835 1.00 10.93
1 . .				
ATOM 378	O	O	. ARG ARG ARG A A 49 49	. 145.575 77.663 10.201 1.00 12.11
1 . .				













ATOM 529	CB	CB	. ASN ASN ASN A A 69 69 . 129.869 75.114 9.215 1.00 8.30
1 . .			
ATOM 530	CG	CG	. ASN ASN ASN A A 69 69 . 129.606 76.589 9.089 1.00 8.38
1 . .			
ATOM 531	OD1	OD1	. ASN ASN ASN A A 69 69 . 128.930 77.160 9.945 1.00 9.45
1 . .			
ATOM 532	ND2	ND2	. ASN ASN ASN A A 69 69 . 130.198 77.224 8.097 1.00 9.46
1 . .			
ATOM 533	C	C	. ASN ASN ASN A A 69 69 . 129.227 73.159 10.672 1.00 9.10
1 . .			
ATOM 534	O	O	. ASN ASN ASN A A 69 69 . 128.044 72.871 10.698 1.00 9.96
1 . .			
ATOM 535	N	N	. SER SER SER A A 70 70 . 130.270 72.345 10.670 1.00 9.11
1 . .			
ATOM 536	CA	CA	. SER SER SER A A 70 70 . 130.102 70.919 10.441 1.00 10.14
1 . .			
ATOM 537	CB	CB	. SER SER SER A A 70 70 . 131.173 70.413 9.419 1.00 9.61
1 . .			
ATOM 538	OG	OG	. SER SER SER A A 70 70 . 130.899 71.070 8.191 1.00 21.78
1 . .			
ATOM 539	C	C	. SER SER SER A A 70 70 . 130.217 70.059 11.715 1.00 8.53
1 . .			
ATOM 540	O	O	. SER SER SER A A 70 70 . 129.709 68.898 11.730 1.00 9.38
1 . .			
ATOM 541	N	N	. THR THR THR A A 71 71 . 130.856 70.591 12.803 1.00 8.56
1 . .			
ATOM 542	CA	CA	. THR THR THR A A 71 71 . 131.043 69.799 14.024 1.00 7.60
1 . .			
ATOM 543	CB	CB	. THR THR THR A A 71 71 . 132.527 69.539 14.240 1.00 6.69
1 . .			
ATOM 544	OG1	OG1	. THR THR THR A A 71 71 . 133.077 68.805 13.113 1.00 8.25
1 . .			
ATOM 545	CG2	CG2	. THR THR THR A A 71 71 . 132.779 68.643 15.480 1.00 9.19
1 . .			
ATOM 546	C	C	. THR THR THR A A 71 71 . 130.433 70.413 15.242 1.00 8.11
1 . .			
ATOM 547	O	O	. THR THR THR A A 71 71 . 129.586 69.801 15.930 1.00 8.55
1 . .			
ATOM 548	N	N	. ILE ILE ILE A A 72 72 . 130.724 71.713 15.472 1.00 7.05
1 . .			
ATOM 549	CA	CA	. ILE ILE ILE A A 72 72 . 130.182 72.327 16.672 1.00 7.19
1 . .			
ATOM 550	CB	CB	. ILE ILE ILE A A 72 72 . 130.898 73.659 16.998 1.00 7.33
1 . .			
ATOM 551	CG1	CG1	. ILE ILE ILE A A 72 72 . 132.383 73.403 17.409 1.00 8.30
1 . .			
ATOM 552	CD	CD	. ILE ILE ILE A A 72 72 . 133.236 74.699 17.498 1.00 9.49
1 . .			
ATOM 553	CG2	CG2	. ILE ILE ILE A A 72 72 . 130.191 74.347 18.060 1.00 10.15
1 . .			
ATOM 554	C	C	. ILE ILE ILE A A 72 72 . 128.670 72.531 16.507 1.00 7.86
1 . .			
ATOM 555	O	O	. ILE ILE ILE A A 72 72 . 127.919 72.238 17.451 1.00 8.84
1 . .			
ATOM 556	N	N	. ALA ALA ALA A A 73 73 . 128.215 73.068 15.370 1.00 7.60
1 . .			
ATOM 557	CA	CA	. ALA ALA ALA A A 73 73 . 126.786 73.337 15.204 1.00 8.79
1 . .			
ATOM 558	CB	CB	. ALA ALA ALA A A 73 73 . 126.537 73.938 13.810 1.00 10.50
1 . .			









































ATOM 1099	CA	CA	. PRO PRO PRO A A	147 147	. 137.317 104.185 29.081	1.00 7.46
1 . .						
ATOM 1100	CB	CB	. PRO PRO PRO A A	147 147	. 136.542 104.976 27.994	1.00 7.01
1 . .						
ATOM 1101	CG	CG	. PRO PRO PRO A A	147 147	. 136.179 106.336 28.739	1.00 7.82
1 . .						
ATOM 1102	CD	CD	. PRO PRO PRO A A	147 147	. 135.917 105.895 30.206	1.00 6.97
1 . .						
ATOM 1103	C	C	. PRO PRO PRO A A	147 147	. 138.777 104.586 29.182	1.00 7.14
1 . .						
ATOM 1104	O	O	. PRO PRO PRO A A	147 147	. 139.135 105.708 29.673	1.00 9.24
1 . .						
ATOM 1105	N	N	. ALA ALA ALA A A	148 148	. 139.634 103.737 28.646	1.00 6.79
1 . .						
ATOM 1106	CA	CA	. ALA ALA ALA A A	148 148	. 141.067 104.005 28.584	1.00 5.77
1 . .						
ATOM 1107	CB	CB	. ALA ALA ALA A A	148 148	. 141.897 102.925 29.328	1.00 7.28
1 . .						
ATOM 1108	C	C	. ALA ALA ALA A A	148 148	. 141.465 104.087 27.090	1.00 6.90
1 . .						
ATOM 1109	O	O	. ALA ALA ALA A A	148 148	. 141.521 103.032 26.411	1.00 6.83
1 . .						
ATOM 1110	N	N	. PHE PHE PHE A A	149 149	. 141.712 105.305 26.576	1.00 6.83
1 . .						
ATOM 1111	CA	CA	. PHE PHE PHE A A	149 149	. 141.816 105.548 25.132	1.00 5.94
1 . .						
ATOM 1112	CB	CB	. PHE PHE PHE A A	149 149	. 141.269 106.898 24.756	1.00 6.09
1 . .						
ATOM 1113	CG	CG	. PHE PHE PHE A A	149 149	. 139.795 107.094 25.052	1.00 5.49
1 . .						
ATOM 1114	CD1	CD1	. PHE PHE PHE A A	149 149	. 138.791 106.578 24.235	1.00 6.71
1 . .						
ATOM 1115	CE1	CE1	. PHE PHE PHE A A	149 149	. 137.426 106.848 24.490	1.00 8.38
1 . .						
ATOM 1116	CZ	CZ	. PHE PHE PHE A A	149 149	. 137.085 107.597 25.589	1.00 7.68
1 . .						
ATOM 1117	CE2	CE2	. PHE PHE PHE A A	149 149	. 138.076 108.144 26.394	1.00 6.86
1 . .						
ATOM 1118	CD2	CD2	. PHE PHE PHE A A	149 149	. 139.424 107.873 26.154	1.00 6.39
1 . .						
ATOM 1119	C	C	. PHE PHE PHE A A	149 149	. 143.304 105.556 24.748	1.00 6.14
1 . .						
ATOM 1120	O	O	. PHE PHE PHE A A	149 149	. 144.073 106.414 25.235	1.00 6.56
1 . .						
ATOM 1121	N	N	. ASN ASN ASN A A	150 150	. 143.738 104.635 23.877	1.00 6.84
1 . .						
ATOM 1122	CA	CA	. ASN ASN ASN A A	150 150	. 145.129 104.567 23.429	1.00 7.41
1 . .						
ATOM 1123	CB	CB	. ASN ASN ASN A A	150 150	. 145.316 103.083 22.946	1.00 8.42
1 . .						
ATOM 1124	CG	CG	. ASN ASN ASN A A	150 150	. 146.704 102.802 22.448	1.00 7.89
1 . .						
ATOM 1125	OD1	OD1	. ASN ASN ASN A A	150 150	. 146.885 101.709 21.751	1.00 12.86
1 . .						
ATOM 1126	ND2	ND2	. ASN ASN ASN A A	150 150	. 147.629 103.689 22.621	1.00 7.02
1 . .						
ATOM 1127	C	C	. ASN ASN ASN A A	150 150	. 145.421 105.540 22.324	1.00 8.55
1 . .						
ATOM 1128	O	O	. ASN ASN ASN A A	150 150	. 145.262 105.244 21.139	1.00 8.55
1 . .						



















































ATOM 1789	C	C	. LYS LYS LYS A A	238 238	. 140.607 113.743 34.593	1.00 9.78
1 . .						
ATOM 1790	O	O	. LYS LYS LYS A A	238 238	. 139.878 112.787 34.465	1.00 10.48
1 . .						
ATOM 1791	N	N	. ILE ILE ILE A A	239 239	. 141.806 113.839 34.029	1.00 9.78
1 . .						
ATOM 1792	CA	CA	. ILE ILE ILE A A	239 239	. 142.261 112.779 33.133	1.00 8.95
1 . .						
ATOM 1793	CB	CB	. ILE ILE ILE A A	239 239	. 142.278 113.292 31.658	1.00 10.15
1 . .						
ATOM 1794	CG1	CG1	. ILE ILE ILE A A	239 239	. 140.857 113.693 31.256	1.00 11.97
1 . .						
ATOM 1795	CD	CD	. ILE ILE ILE A A	239 239	. 140.724 114.277 29.784	1.00 11.69
1 . .						
ATOM 1796	CG2	CG2	. ILE ILE ILE A A	239 239	. 142.794 112.142 30.731	1.00 9.46
1 . .						
ATOM 1797	C	C	. ILE ILE ILE A A	239 239	. 143.614 112.363 33.561	1.00 10.02
1 . .						
ATOM 1798	O	O	. ILE ILE ILE A A	239 239	. 144.495 113.202 33.769	1.00 13.40
1 . .						
ATOM 1799	N	N	. VAL VAL VAL A A	240 240	. 143.816 111.058 33.677	1.00 9.49
1 . .						
ATOM 1800	CA	CA	. VAL VAL VAL A A	240 240	. 145.142 110.452 34.068	1.00 8.88
1 . .						
ATOM 1801	CB	CB	. VAL VAL VAL A A	240 240	. 145.017 109.718 35.419	1.00 8.79
1 . .						
ATOM 1802	CG1	CG1	. VAL VAL VAL A A	240 240	. 144.666 110.752 36.489	1.00 10.90
1 . .						
ATOM 1803	CG2	CG2	. VAL VAL VAL A A	240 240	. 144.013 108.574 35.389	1.00 11.72
1 . .						
ATOM 1804	C	C	. VAL VAL VAL A A	240 240	. 145.616 109.519 32.953	1.00 9.13
1 . .						
ATOM 1805	O	O	. VAL VAL VAL A A	240 240	. 144.921 109.371 31.916	1.00 9.26
1 . .						
ATOM 1806	N	N	. ILE ILE ILE A A	241 241	. 146.753 108.887 33.139	1.00 8.03
1 . .						
ATOM 1807	CA	CA	. ILE ILE ILE A A	241 241	. 147.412 108.189 32.040	1.00 8.36
1 . .						
ATOM 1808	CB	CB	. ILE ILE ILE A A	241 241	. 148.769 108.825 31.686	1.00 8.60
1 . .						
ATOM 1809	CG1	CG1	. ILE ILE ILE A A	241 241	. 148.538 110.243 31.065	1.00 8.76
1 . .						
ATOM 1810	CD	CD	. ILE ILE ILE A A	241 241	. 149.904 111.059 30.877	1.00 10.52
1 . .						
ATOM 1811	CG2	CG2	. ILE ILE ILE A A	241 241	. 149.619 107.919 30.756	1.00 11.26
1 . .						
ATOM 1812	C	C	. ILE ILE ILE A A	241 241	. 147.605 106.739 32.424	1.00 9.09
1 . .						
ATOM 1813	O	O	. ILE ILE ILE A A	241 241	. 147.934 106.376 33.566	1.00 8.33
1 . .						
ATOM 1814	N	N	. GLY GLY GLY A A	242 242	. 147.381 105.871 31.447	1.00 8.29
1 . .						
ATOM 1815	CA	CA	. GLY GLY GLY A A	242 242	. 147.741 104.483 31.569	1.00 8.49
1 . .						
ATOM 1816	C	C	. GLY GLY GLY A A	242 242	. 148.688 104.084 30.477	1.00 7.19
1 . .						
ATOM 1817	O	O	. GLY GLY GLY A A	242 242	. 148.723 104.689 29.439	1.00 9.26
1 . .						
ATOM 1818	N	N	. MET MET MET A A	243 243	. 149.469 103.029 30.666	1.00 7.73
1 . .						













































































































































ATOM 3679	C	C	. LEU LEU LEU B B	46 46	. 124.276 120.490 6.086	1.00 9.22
1 . .						
ATOM 3680	O	O	. LEU LEU LEU B B	46 46	. 123.314 119.886 6.536	1.00 11.15
1 . .						
ATOM 3681	N	N	. GLU GLU GLU B B	47 47	. 125.500 120.304 6.524	1.00 10.37
1 . .						
ATOM 3682	CA	CA	. GLU GLU GLU B B	47 47	. 125.789 119.509 7.746	1.00 9.23
1 . .						
ATOM 3683	CB	CB	. GLU GLU GLU B B	47 47	. 127.202 118.862 7.605	1.00 8.20
1 . .						
ATOM 3684	CG	CG	. GLU GLU GLU B B	47 47	. 127.571 118.140 8.875	1.00 10.29
1 . .						
ATOM 3685	CD	CD	. GLU GLU GLU B B	47 47	. 128.979 117.601 8.710	1.00 12.02
1 . .						
ATOM 3686	OE1	OE1	. GLU GLU GLU B B	47 47	. 129.054 116.469 8.200	1.00 10.06
1 . .						
ATOM 3687	OE2	OE2	. GLU GLU GLU B B	47 47	. 129.946 118.296 9.054	1.00 11.41
1 . .						
ATOM 3688	C	C	. GLU GLU GLU B B	47 47	. 125.756 120.547 8.925	1.00 9.17
1 . .						
ATOM 3689	O	O	. GLU GLU GLU B B	47 47	. 126.665 121.388 9.031	1.00 11.27
1 . .						
ATOM 3690	N	N	. LEU LEU LEU B B	48 48	. 124.757 120.365 9.821	1.00 7.72
1 . .						
ATOM 3691	CA	CA	. LEU LEU LEU B B	48 48	. 124.568 121.289 10.905	1.00 8.10
1 . .						
ATOM 3692	CB	CB	. LEU LEU LEU B B	48 48	. 123.058 121.375 11.304	1.00 8.19
1 . .						
ATOM 3693	CG	CG	. LEU LEU LEU B B	48 48	. 122.815 122.327 12.524	1.00 9.32
1 . .						
ATOM 3694	CD1	CD1	. LEU LEU LEU B B	48 48	. 123.135 123.775 12.136	1.00 14.28
1 . .						
ATOM 3695	CD2	CD2	. LEU LEU LEU B B	48 48	. 121.329 122.160 12.929	1.00 12.15
1 . .						
ATOM 3696	C	C	. LEU LEU LEU B B	48 48	. 125.447 120.903 12.094	1.00 9.12
1 . .						
ATOM 3697	O	O	. LEU LEU LEU B B	48 48	. 125.270 119.815 12.665	1.00 8.99
1 . .						
ATOM 3698	N	N	. ARG ARG ARG B B	49 49	. 126.380 121.771 12.455	1.00 10.18
1 . .						
ATOM 3699	CA	CA	. ARG ARG ARG B B	49 49	. 127.215 121.602 13.671	1.00 10.67
1 . .						
ATOM 3700	CB	CB	. ARG ARG ARG B B	49 49	. 128.708 121.776 13.270	1.00 12.91
1 . .						
ATOM 3701	CG	CG	. ARG ARG ARG B B	49 49	. 129.169 120.800 12.149	1.00 13.47
1 . .						
ATOM 3702	CD	CD	. ARG ARG ARG B B	49 49	. 129.739 119.624 12.877	1.00 13.24
1 . .						
ATOM 3703	NE	NE	. ARG ARG ARG B B	49 49	. 130.194 118.514 12.028	1.00 12.86
1 . .						
ATOM 3704	CZ	CZ	. ARG ARG ARG B B	49 49	. 130.370 117.246 12.405	1.00 10.72
1 . .						
ATOM 3705	NH1	NH1	. ARG ARG ARG B B	49 49	. 130.207 116.907 13.663	1.00 10.40
1 . .						
ATOM 3706	NH2	NH2	. ARG ARG ARG B B	49 49	. 130.737 116.342 11.475	1.00 13.71
1 . .						
ATOM 3707	C	C	. ARG ARG ARG B B	49 49	. 126.910 122.711 14.648	1.00 10.12
1 . .						
ATOM 3708	O	O	. ARG ARG ARG B B	49 49	. 126.370 123.771 14.244	1.00 11.86
1 . .						

ATOM 3709	N	N	. ASP ASP ASP B B 50 50	. 127.196 122.460 15.921	1.00 9.55
1 . .					
ATOM 3710	CA	CA	. ASP ASP ASP B B 50 50	. 126.727 123.390 16.941	1.00 10.45
1 . .					
ATOM 3711	CB	CB	. ASP ASP ASP B B 50 50	. 126.826 122.703 18.311	1.00 11.10
1 . .					
ATOM 3712	CG	CG	. ASP ASP ASP B B 50 50	. 125.869 121.500 18.434	1.00 12.35
1 . .					
ATOM 3713	OD1	OD1	. ASP ASP ASP B B 50 50	. 124.933 121.425 17.623	1.00 10.62
1 . .					
ATOM 3714	OD2	OD2	. ASP ASP ASP B B 50 50	. 126.089 120.632 19.350	1.00 10.94
1 . .					
ATOM 3715	C	C	. ASP ASP ASP B B 50 50	. 127.529 124.682 17.006	1.00 12.42
1 . .					
ATOM 3716	O	O	. ASP ASP ASP B B 50 50	. 127.001 125.755 17.384	1.00 14.04
1 . .					
ATOM 3717	N	N	. GLY GLY GLY B B 51 51	. 128.816 124.585 16.692	1.00 11.43
1 . .					
ATOM 3718	CA	CA	. GLY GLY GLY B B 51 51	. 129.701 125.762 16.701	1.00 13.79
1 . .					
ATOM 3719	C	C	. GLY GLY GLY B B 51 51	. 130.074 126.201 18.104	1.00 15.94
1 . .					
ATOM 3720	O	O	. GLY GLY GLY B B 51 51	. 130.433 127.356 18.268	1.00 18.95
1 . .					
ATOM 3721	N	N	. ASP ASP ASP B B 52 52	. 129.871 125.371 19.125	1.00 14.48
1 . .					
ATOM 3722	CA	CA	. ASP ASP ASP B B 52 52	. 130.230 125.725 20.507	1.00 15.25
1 . .					
ATOM 3723	CB	CB	. ASP ASP ASP B B 52 52	. 129.350 124.999 21.509	1.00 14.91
1 . .					
ATOM 3724	CG	CG	. ASP ASP ASP B B 52 52	. 129.775 125.231 22.946	1.00 17.18
1 . .					
ATOM 3725	OD1	OD1	. ASP ASP ASP B B 52 52	. 130.881 125.849 23.168	1.00 20.19
1 . .					
ATOM 3726	OD2	OD2	. ASP ASP ASP B B 52 52	. 129.025 124.763 23.834	1.00 21.29
1 . .					
ATOM 3727	C	C	. ASP ASP ASP B B 52 52	. 131.728 125.353 20.657	1.00 17.77
1 . .					
ATOM 3728	O	O	. ASP ASP ASP B B 52 52	. 132.072 124.151 20.752	1.00 16.46
1 . .					
ATOM 3729	N	N	. LYS LYS LYS B B 53 53	. 132.621 126.355 20.634	1.00 18.19
1 . .					
ATOM 3730	CA	CA	. LYS LYS LYS B B 53 53	. 134.078 126.136 20.464	1.00 20.77
1 . .					
ATOM 3731	CB	CB	. LYS LYS LYS B B 53 53	. 134.742 127.514 20.204	1.00 22.81
1 . .					
ATOM 3732	CG	CG	. LYS LYS LYS B B 53 53	. 134.803 127.928 18.685	1.00 30.67
1 . .					
ATOM 3733	CD	CD	. LYS LYS LYS B B 53 53	. 134.381 129.444 18.324	1.00 41.35
1 . .					
ATOM 3734	CE	CE	. LYS LYS LYS B B 53 53	. 135.334 130.601 18.756	1.00 45.21
1 . .					
ATOM 3735	NZ	NZ	. LYS LYS LYS B B 53 53	. 136.527 130.821 17.874	1.00 49.00
1 . .					
ATOM 3736	C	C	. LYS LYS LYS B B 53 53	. 134.654 125.422 21.673	1.00 20.55
1 . .					
ATOM 3737	O	O	. LYS LYS LYS B B 53 53	. 135.764 124.867 21.607	1.00 22.73
1 . .					
ATOM 3738	N	N	. GLN GLN GLN B B 54 54	. 133.869 125.372 22.732	1.00 19.31
1 . .					























ATOM 4039	N	N	. LEU LEU LEU B B 94 94	. 111.376 117.236 4.184	1.00 9.68
1 . .					
ATOM 4040	CA	CA	. LEU LEU LEU B B 94 94	. 111.876 118.352 3.391	1.00 11.45
1 . .					
ATOM 4041	CB	CB	. LEU LEU LEU B B 94 94	. 111.871 118.009 1.910	1.00 11.32
1 . .					
ATOM 4042	CG	CG	. LEU LEU LEU B B 94 94	. 112.721 116.835 1.416	1.00 17.73
1 . .					
ATOM 4043	CD1	CD1	. LEU LEU LEU B B 94 94	. 112.850 116.883 -0.103	1.00 18.65
1 . .					
ATOM 4044	CD2	CD2	. LEU LEU LEU B B 94 94	. 113.929 116.416 2.132	1.00 17.76
1 . .					
ATOM 4045	C	C	. LEU LEU LEU B B 94 94	. 111.053 119.641 3.609	1.00 10.10
1 . .					
ATOM 4046	O	O	. LEU LEU LEU B B 94 94	. 111.621 120.708 3.720	1.00 10.98
1 . .					
ATOM 4047	N	N	. GLU GLU GLU B B 95 95	. 109.708 119.457 3.725	1.00 12.29
1 . .					
ATOM 4048	CA	CA	. GLU GLU GLU B B 95 95	. 108.845 120.587 3.886	1.00 12.19
1 . .					
ATOM 4049	CB	CB	. GLU GLU GLU B B 95 95	. 107.416 120.243 3.514	1.00 14.26
1 . .					
ATOM 4050	CG	CG	. GLU GLU GLU B B 95 95	. 107.228 119.935 2.018	1.00 20.98
1 . .					
ATOM 4051	CD	CD	. GLU GLU GLU B B 95 95	. 107.662 121.026 1.172	1.00 32.48
1 . .					
ATOM 4052	OE1	OE1	. GLU GLU GLU B B 95 95	. 106.890 122.011 1.046	1.00 39.57
1 . .					
ATOM 4053	OE2	OE2	. GLU GLU GLU B B 95 95	. 108.805 120.965 0.702	1.00 31.49
1 . .					
ATOM 4054	C	C	. GLU GLU GLU B B 95 95	. 108.932 121.153 5.328	1.00 12.01
1 . .					
ATOM 4055	O	O	. GLU GLU GLU B B 95 95	. 108.764 122.362 5.507	1.00 13.71
1 . .					
ATOM 4056	N	N	. LEU LEU LEU B B 96 96	. 109.238 120.304 6.337	1.00 10.81
1 . .					
ATOM 4057	CA	CA	. LEU LEU LEU B B 96 96	. 109.351 120.742 7.694	1.00 12.07
1 . .					
ATOM 4058	CB	CB	. LEU LEU LEU B B 96 96	. 109.478 119.563 8.618	1.00 13.50
1 . .					
ATOM 4059	CG	CG	. LEU LEU LEU B B 96 96	. 108.258 118.827 9.142	1.00 19.88
1 . .					
ATOM 4060	CD1	CD1	. LEU LEU LEU B B 96 96	. 108.632 117.436 9.755	1.00 23.68
1 . .					
ATOM 4061	CD2	CD2	. LEU LEU LEU B B 96 96	. 107.512 119.858 10.157	1.00 23.08
1 . .					
ATOM 4062	C	C	. LEU LEU LEU B B 96 96	. 110.594 121.616 7.826	1.00 12.04
1 . .					
ATOM 4063	O	O	. LEU LEU LEU B B 96 96	. 110.557 122.641 8.520	1.00 13.00
1 . .					
ATOM 4064	N	N	. ASP ASP ASP B B 97 97	. 111.689 121.263 7.122	1.00 11.26
1 . .					
ATOM 4065	CA	CA	. ASP ASP ASP B B 97 97	. 112.868 122.098 7.180	1.00 10.63
1 . .					
ATOM 4066	CB	CB	. ASP ASP ASP B B 97 97	. 114.033 121.268 6.618	1.00 9.61
1 . .					
ATOM 4067	CG	CG	. ASP ASP ASP B B 97 97	. 115.246 122.163 6.225	1.00 11.47
1 . .					
ATOM 4068	OD1	OD1	. ASP ASP ASP B B 97 97	. 116.271 122.283 6.979	1.00 11.33
1 . .					

































































ATOM 4909	C	C	. GLY GLY GLY	B B	211 211	. 146.314 104.142 3.694	1.00 7.33
1 . .							
ATOM 4910	O	O	. GLY GLY GLY	B B	211 211	. 146.319 104.902 4.685	1.00 7.64
1 . .							
ATOM 4911	N	N	. PHE PHE PHE	B B	212 212	. 147.444 103.625 3.155	1.00 6.93
1 . .							
ATOM 4912	CA	CA	. PHE PHE PHE	B B	212 212	. 148.694 104.058 3.719	1.00 7.37
1 . .							
ATOM 4913	CB	CB	. PHE PHE PHE	B B	212 212	. 149.820 103.148 3.164	1.00 8.33
1 . .							
ATOM 4914	CG	CG	. PHE PHE PHE	B B	212 212	. 149.601 101.741 3.499	1.00 8.77
1 . .							
ATOM 4915	CD1	CD1	. PHE PHE PHE	B B	212 212	. 149.268 100.843 2.499	1.00 9.73
1 . .							
ATOM 4916	CE1	CE1	. PHE PHE PHE	B B	212 212	. 149.022 99.495 2.803	1.00 11.01
1 . .							
ATOM 4917	CZ	CZ	. PHE PHE PHE	B B	212 212	. 149.067 99.085 4.090	1.00 7.77
1 . .							
ATOM 4918	CE2	CE2	. PHE PHE PHE	B B	212 212	. 149.400 99.987 5.132	1.00 9.28
1 . .							
ATOM 4919	CD2	CD2	. PHE PHE PHE	B B	212 212	. 149.675 101.329 4.813	1.00 9.17
1 . .							
ATOM 4920	C	C	. PHE PHE PHE	B B	212 212	. 148.966 105.497 3.412	1.00 8.76
1 . .							
ATOM 4921	O	O	. PHE PHE PHE	B B	212 212	. 148.522 106.065 2.364	1.00 9.87
1 . .							
ATOM 4922	N	N	. ALA ALA ALA	B B	213 213	. 149.746 106.064 4.315	1.00 9.25
1 . .							
ATOM 4923	CA	CA	. ALA ALA ALA	B B	213 213	. 150.070 107.488 4.191	1.00 10.89
1 . .							
ATOM 4924	CB	CB	. ALA ALA ALA	B B	213 213	. 149.457 108.252 5.415	1.00 12.97
1 . .							
ATOM 4925	C	C	. ALA ALA ALA	B B	213 213	. 151.546 107.689 4.165	1.00 11.54
1 . .							
ATOM 4926	O	O	. ALA ALA ALA	B B	213 213	. 152.123 108.250 5.133	1.00 12.72
1 . .							
ATOM 4927	N	N	. PRO PRO PRO	B B	214 214	. 152.200 107.263 3.078	1.00 10.90
1 . .							
ATOM 4928	CA	CA	. PRO PRO PRO	B B	214 214	. 153.650 107.519 2.956	1.00 10.44
1 . .							
ATOM 4929	CB	CB	. PRO PRO PRO	B B	214 214	. 154.067 106.646 1.773	1.00 11.36
1 . .							
ATOM 4930	CG	CG	. PRO PRO PRO	B B	214 214	. 152.811 106.592 0.880	1.00 9.89
1 . .							
ATOM 4931	CD	CD	. PRO PRO PRO	B B	214 214	. 151.698 106.487 1.942	1.00 10.77
1 . .							
ATOM 4932	C	C	. PRO PRO PRO	B B	214 214	. 153.867 108.986 2.666	1.00 10.87
1 . .							
ATOM 4933	O	O	. PRO PRO PRO	B B	214 214	. 153.016 109.634 2.064	1.00 11.81
1 . .							
ATOM 4934	N	N	. ASN ASN ASN	B B	215 215	. 154.978 109.542 3.175	1.00 10.59
1 . .							
ATOM 4935	CA	CA	. ASN ASN ASN	B B	215 215	. 155.234 111.009 2.964	1.00 12.79
1 . .							
ATOM 4936	CB	CB	. ASN ASN ASN	B B	215 215	. 156.127 111.531 4.083	1.00 15.05
1 . .							
ATOM 4937	CG	CG	. ASN ASN ASN	B B	215 215	. 157.530 110.718 4.237	1.00 29.27
1 . .							
ATOM 4938	OD1	OD1	. ASN ASN ASN	B B	215 215	. 158.487 111.202 4.930	1.00 41.17
1 . .							



















ATOM 5179	C	C	. ALA ALA ALA B B	247 247	. 139.877 120.327 -6.671	1.00 7.98
1 . .						
ATOM 5180	O	O	. ALA ALA ALA B B	247 247	. 140.580 121.328 -6.644	1.00 8.02
1 . .						
ATOM 5181	N	N	. SER SER SER B B	248 248	. 138.640 120.327 -6.197	1.00 8.57
1 . .						
ATOM 5182	CA	CA	. SER SER SER B B	248 248	. 138.096 121.550 -5.522	1.00 8.02
1 . .						
ATOM 5183	CB	CB	. SER SER SER B B	248 248	. 136.641 121.400 -5.116	1.00 7.51
1 . .						
ATOM 5184	OG	OG	. SER SER SER B B	248 248	. 135.841 121.024 -6.233	1.00 7.91
1 . .						
ATOM 5185	C	C	. SER SER SER B B	248 248	. 138.943 121.938 -4.312	1.00 8.51
1 . .						
ATOM 5186	O	O	. SER SER SER B B	248 248	. 138.953 123.119 -3.924	1.00 10.48
1 . .						
ATOM 5187	N	N	. GLU GLU GLU B B	249 249	. 139.593 120.955 -3.694	1.00 8.13
1 . .						
ATOM 5188	CA	CA	. GLU GLU GLU B B	249 249	. 140.423 121.233 -2.525	1.00 9.30
1 . .						
ATOM 5189	CB	CB	. GLU GLU GLU B B	249 249	. 140.830 119.898 -1.863	1.00 8.29
1 . .						
ATOM 5190	CG	CG	. GLU GLU GLU B B	249 249	. 139.575 119.158 -1.349	1.00 10.93
1 . .						
ATOM 5191	CD	CD	. GLU GLU GLU B B	249 249	. 138.887 119.901 -0.198	1.00 10.86
1 . .						
ATOM 5192	OE1	OE1	. GLU GLU GLU B B	249 249	. 139.595 120.344 0.748	1.00 18.10
1 . .						
ATOM 5193	OE2	OE2	. GLU GLU GLU B B	249 249	. 137.661 120.038 -0.177	1.00 10.84
1 . .						
ATOM 5194	C	C	. GLU GLU GLU B B	249 249	. 141.679 121.995 -2.824	1.00 10.33
1 . .						
ATOM 5195	O	O	. GLU GLU GLU B B	249 249	. 142.221 122.642 -1.912	1.00 12.73
1 . .						
ATOM 5196	N	N	. PHE PHE PHE B B	250 250	. 142.076 122.060 -4.111	1.00 8.76
1 . .						
ATOM 5197	CA	CA	. PHE PHE PHE B B	250 250	. 143.322 122.748 -4.453	1.00 9.27
1 . .						
ATOM 5198	CB	CB	. PHE PHE PHE B B	250 250	. 144.476 121.769 -4.564	1.00 9.36
1 . .						
ATOM 5199	CG	CG	. PHE PHE PHE B B	250 250	. 144.349 120.726 -5.672	1.00 8.00
1 . .						
ATOM 5200	CD1	CD1	. PHE PHE PHE B B	250 250	. 144.070 119.415 -5.347	1.00 8.74
1 . .						
ATOM 5201	CE1	CE1	. PHE PHE PHE B B	250 250	. 143.994 118.403 -6.331	1.00 8.13
1 . .						
ATOM 5202	CZ	CZ	. PHE PHE PHE B B	250 250	. 144.199 118.696 -7.678	1.00 9.75
1 . .						
ATOM 5203	CE2	CE2	. PHE PHE PHE B B	250 250	. 144.514 120.031 -8.035	1.00 10.87
1 . .						
ATOM 5204	CD2	CD2	. PHE PHE PHE B B	250 250	. 144.578 121.027 -7.031	1.00 8.36
1 . .						
ATOM 5205	C	C	. PHE PHE PHE B B	250 250	. 143.174 123.743 -5.628	1.00 9.15
1 . .						
ATOM 5206	O	O	. PHE PHE PHE B B	250 250	. 144.147 124.259 -6.135	1.00 10.84
1 . .						
ATOM 5207	N	N	. TYR TYR TYR B B	251 251	. 141.925 124.077 -5.926	1.00 9.03
1 . .						
ATOM 5208	CA	CA	. TYR TYR TYR B B	251 251	. 141.662 125.165 -6.836	1.00 9.21
1 . .						



























































ATOM 5989	C	C	. SER SER SER B B	348 348	. 117.503 110.682 1.144	1.00 8.21
1 . .						
ATOM 5990	O	O	. SER SER SER B B	348 348	. 118.066 110.795 0.083	1.00 8.89
1 . .						
ATOM 5991	N	N	. VAL VAL VAL B B	349 349	. 116.937 109.565 1.557	1.00 9.11
1 . .						
ATOM 5992	CA	CA	. VAL VAL VAL B B	349 349	. 116.978 108.381 0.696	1.00 9.38
1 . .						
ATOM 5993	CB	CB	. VAL VAL VAL B B	349 349	. 116.404 107.157 1.464	1.00 9.42
1 . .						
ATOM 5994	CG1	CG1	. VAL VAL VAL B B	349 349	. 116.215 105.910 0.545	1.00 13.07
1 . .						
ATOM 5995	CG2	CG2	. VAL VAL VAL B B	349 349	. 117.318 106.793 2.640	1.00 10.63
1 . .						
ATOM 5996	C	C	. VAL VAL VAL B B	349 349	. 116.231 108.639 -0.622	1.00 9.26
1 . .						
ATOM 5997	O	O	. VAL VAL VAL B B	349 349	. 116.678 108.285 -1.701	1.00 10.14
1 . .						
ATOM 5998	N	N	. THR THR THR B B	350 350	. 115.016 109.208 -0.526	1.00 9.82
1 . .						
ATOM 5999	CA	CA	. THR THR THR B B	350 350	. 114.254 109.451 -1.761	1.00 10.38
1 . .						
ATOM 6000	CB	CB	. THR THR THR B B	350 350	. 112.946 110.172 -1.394	1.00 10.31
1 . .						
ATOM 6001	OG1	OG1	. THR THR THR B B	350 350	. 112.144 109.226 -0.631	1.00 11.39
1 . .						
ATOM 6002	CG2	CG2	. THR THR THR B B	350 350	. 112.182 110.574 -2.658	1.00 13.91
1 . .						
ATOM 6003	C	C	. THR THR THR B B	350 350	. 115.030 110.275 -2.790	1.00 9.63
1 . .						
ATOM 6004	O	O	. THR THR THR B B	350 350	. 115.054 109.912 -3.951	1.00 10.31
1 . .						
ATOM 6005	N	N	. GLU GLU GLU B B	351 351	. 115.667 111.351 -2.360	1.00 9.10
1 . .						
ATOM 6006	CA	CA	. GLU GLU GLU B B	351 351	. 116.395 112.157 -3.345	1.00 9.22
1 . .						
ATOM 6007	CB	CB	. GLU GLU GLU B B	351 351	. 116.775 113.477 -2.680	1.00 9.40
1 . .						
ATOM 6008	CG	CG	. GLU GLU GLU B B	351 351	. 115.611 114.393 -2.373	1.00 10.49
1 . .						
ATOM 6009	CD	CD	. GLU GLU GLU B B	351 351	. 116.026 115.532 -1.462	1.00 10.62
1 . .						
ATOM 6010	OE1	OE1	. GLU GLU GLU B B	351 351	. 116.385 115.315 -0.304	1.00 11.45
1 . .						
ATOM 6011	OE2	OE2	. GLU GLU GLU B B	351 351	. 115.968 116.717 -1.902	1.00 14.63
1 . .						
ATOM 6012	C	C	. GLU GLU GLU B B	351 351	. 117.648 111.455 -3.872	1.00 10.40
1 . .						
ATOM 6013	O	O	. GLU GLU GLU B B	351 351	. 117.983 111.635 -5.054	1.00 9.78
1 . .						
ATOM 6014	N	N	. ALA ALA ALA B B	352 352	. 118.340 110.647 -3.031	1.00 9.71
1 . .						
ATOM 6015	CA	CA	. ALA ALA ALA B B	352 352	. 119.544 109.890 -3.519	1.00 8.82
1 . .						
ATOM 6016	CB	CB	. ALA ALA ALA B B	352 352	. 120.191 109.182 -2.370	1.00 9.27
1 . .						
ATOM 6017	C	C	. ALA ALA ALA B B	352 352	. 119.089 108.911 -4.556	1.00 9.08
1 . .						
ATOM 6018	O	O	. ALA ALA ALA B B	352 352	. 119.760 108.713 -5.560	1.00 9.61
1 . .						





ATOM 6049	CB	CB	. LYS LYS LYS B B	357 357	. 116.431 106.871 -11.081	1.00 11.67
1 . .						
ATOM 6050	CG	CG	. LYS LYS LYS B B	357 357	. 116.169 105.711 -10.083	1.00 15.54
1 . .						
ATOM 6051	CD	CD	. LYS LYS LYS B B	357 357	. 114.656 105.570 -9.784	1.00 20.83
1 . .						
ATOM 6052	CE	CE	. LYS LYS LYS B B	357 357	. 113.966 104.970 -11.073	1.00 27.15
1 . .						
ATOM 6053	NZ	NZ	. LYS LYS LYS B B	357 357	. 112.594 104.451 -10.807	1.00 29.22
1 . .						
ATOM 6054	C	C	. LYS LYS LYS B B	357 357	. 118.144 107.907 -12.629	1.00 10.18
1 . .						
ATOM 6055	O	O	. LYS LYS LYS B B	357 357	. 118.225 107.515 -13.807	1.00 12.69
1 . .						
ATOM 6056	N	N	. LEU LEU LEU B B	358 358	. 118.325 109.182 -12.292	1.00 10.44
1 . .						
ATOM 6057	CA	CA	. LEU LEU LEU B B	358 358	. 118.545 110.178 -13.328	1.00 11.46
1 . .						
ATOM 6058	CB	CB	. LEU LEU LEU B B	358 358	. 118.547 111.581 -12.640	1.00 12.21
1 . .						
ATOM 6059	CG	CG	. LEU LEU LEU B B	358 358	. 118.837 112.769 -13.587	1.00 12.47
1 . .						
ATOM 6060	CD1	CD1	. LEU LEU LEU B B	358 358	. 117.703 112.900 -14.676	1.00 17.29
1 . .						
ATOM 6061	CD2	CD2	. LEU LEU LEU B B	358 358	. 118.891 114.048 -12.795	1.00 15.24
1 . .						
ATOM 6062	C	C	. LEU LEU LEU B B	358 358	. 119.844 109.905 -14.040	1.00 11.97
1 . .						
ATOM 6063	O	O	. LEU LEU LEU B B	358 358	. 119.952 109.999 -15.301	1.00 12.16
1 . .						
ATOM 6064	N	N	. ALA ALA ALA B B	359 359	. 120.896 109.629 -13.282	1.00 9.79
1 . .						
ATOM 6065	CA	CA	. ALA ALA ALA B B	359 359	. 122.162 109.318 -13.904	1.00 10.39
1 . .						
ATOM 6066	CB	CB	. ALA ALA ALA B B	359 359	. 123.216 109.111 -12.825	1.00 9.95
1 . .						
ATOM 6067	C	C	. ALA ALA ALA B B	359 359	. 122.060 108.055 -14.775	1.00 10.09
1 . .						
ATOM 6068	O	O	. ALA ALA ALA B B	359 359	. 122.512 108.031 -15.934	1.00 11.35
1 . .						
ATOM 6069	N	N	. GLN GLN GLN B B	360 360	. 121.452 106.990 -14.248	1.00 10.44
1 . .						
ATOM 6070	CA	CA	. GLN GLN GLN B B	360 360	. 121.367 105.739 -15.013	1.00 11.20
1 . .						
ATOM 6071	CB	CB	. GLN GLN GLN B B	360 360	. 120.738 104.637 -14.131	1.00 11.07
1 . .						
ATOM 6072	CG	CG	. GLN GLN GLN B B	360 360	. 121.710 104.179 -13.045	1.00 13.61
1 . .						
ATOM 6073	CD	CD	. GLN GLN GLN B B	360 360	. 121.082 103.237 -12.028	1.00 12.89
1 . .						
ATOM 6074	OE1	OE1	. GLN GLN GLN B B	360 360	. 119.890 103.319 -11.715	1.00 14.36
1 . .						
ATOM 6075	NE2	NE2	. GLN GLN GLN B B	360 360	. 121.915 102.373 -11.453	1.00 14.21
1 . .						
ATOM 6076	C	C	. GLN GLN GLN B B	360 360	. 120.538 105.904 -16.282	1.00 11.70
1 . .						
ATOM 6077	O	O	. GLN GLN GLN B B	360 360	. 120.904 105.327 -17.327	1.00 12.62
1 . .						
ATOM 6078	N	N	. GLU GLU GLU B B	361 361	. 119.434 106.678 -16.191	1.00 11.05
1 . .						





ATOM 6139	N	N	. SER SER SER B B	369 369	. 129.142 105.678 -2.533	1.00 5.25
1 . .						
ATOM 6140	CA	CA	. SER SER SER B B	369 369	. 130.354 105.994 -1.799	1.00 6.01
1 . .						
ATOM 6141	CB	CB	. SER SER SER B B	369 369	. 130.886 107.362 -2.370	1.00 7.42
1 . .						
ATOM 6142	OG	OG	. SER SER SER B B	369 369	. 132.094 107.780 -1.698	1.00 7.74
1 . .						
ATOM 6143	C	C	. SER SER SER B B	369 369	. 130.080 106.275 -0.321	1.00 6.67
1 . .						
ATOM 6144	O	O	. SER SER SER B B	369 369	. 129.067 106.864 0.069	1.00 8.19
1 . .						
ATOM 6145	N	N	. HIS HIS HIS B B	370 370	. 131.050 105.893 0.496	1.00 6.00
1 . .						
ATOM 6146	CA	CA	. HIS HIS HIS B B	370 370	. 131.140 106.367 1.898	1.00 6.79
1 . .						
ATOM 6147	CB	CB	. HIS HIS HIS B B	370 370	. 132.296 105.545 2.592	1.00 7.86
1 . .						
ATOM 6148	CG	CG	. HIS HIS HIS B B	370 370	. 133.645 105.746 1.972	1.00 6.08
1 . .						
ATOM 6149	ND1	ND1	. HIS HIS HIS B B	370 370	. 134.799 105.324 2.588	1.00 6.63
1 . .						
ATOM 6150	CE1	CE1	. HIS HIS HIS B B	370 370	. 135.854 105.585 1.839	1.00 8.87
1 . .						
ATOM 6151	NE2	NE2	. HIS HIS HIS B B	370 370	. 135.430 106.166 0.707	1.00 7.59
1 . .						
ATOM 6152	CD2	CD2	. HIS HIS HIS B B	370 370	. 134.055 106.303 0.779	1.00 6.43
1 . .						
ATOM 6153	C	C	. HIS HIS HIS B B	370 370	. 131.515 107.847 1.970	1.00 5.96
1 . .						
ATOM 6154	O	O	. HIS HIS HIS B B	370 370	. 131.760 108.489 0.959	1.00 7.79
1 . .						
ATOM 6155	N	N	. ARG ARG ARG B B	371 371	. 131.566 108.395 3.169	1.00 6.14
1 . .						
ATOM 6156	CA	CA	. ARG ARG ARG B B	371 371	. 132.331 109.639 3.432	1.00 5.80
1 . .						
ATOM 6157	CB	CB	. ARG ARG ARG B B	371 371	. 131.548 110.642 4.306	1.00 6.20
1 . .						
ATOM 6158	CG	CG	. ARG ARG ARG B B	371 371	. 130.160 110.996 3.736	1.00 5.19
1 . .						
ATOM 6159	CD	CD	. ARG ARG ARG B B	371 371	. 130.263 111.476 2.280	1.00 5.24
1 . .						
ATOM 6160	NE	NE	. ARG ARG ARG B B	371 371	. 131.187 112.640 2.053	1.00 6.54
1 . .						
ATOM 6161	CZ	CZ	. ARG ARG ARG B B	371 371	. 130.782 113.900 1.797	1.00 6.48
1 . .						
ATOM 6162	NH1	NH1	. ARG ARG ARG B B	371 371	. 129.486 114.244 1.913	1.00 7.11
1 . .						
ATOM 6163	NH2	NH2	. ARG ARG ARG B B	371 371	. 131.673 114.811 1.445	1.00 7.42
1 . .						
ATOM 6164	C	C	. ARG ARG ARG B B	371 371	. 133.633 109.288 4.171	1.00 6.41
1 . .						
ATOM 6165	O	O	. ARG ARG ARG B B	371 371	. 133.775 108.189 4.748	1.00 6.60
1 . .						
ATOM 6166	N	N	. SER SER SER B B	372 372	. 134.570 110.229 4.208	1.00 6.75
1 . .						
ATOM 6167	CA	CA	. SER SER SER B B	372 372	. 135.774 109.912 4.928	1.00 6.70
1 . .						
ATOM 6168	CB	CB	. SER SER SER B B	372 372	. 136.822 110.950 4.590	1.00 7.23
1 . .						

















ATOM 6379	O	O	. GLU GLU GLU B B	401 401	. 132.927 101.718 7.259	1.00 7.35
1 . .						
ATOM 6380	N	N	. ARG ARG ARG B B	402 402	. 135.068 100.809 7.386	1.00 6.03
1 . .						
ATOM 6381	CA	CA	. ARG ARG ARG B B	402 402	. 135.170 100.386 5.974	1.00 5.96
1 . .						
ATOM 6382	CB	CB	. ARG ARG ARG B B	402 402	. 136.580 100.640 5.435	1.00 5.39
1 . .						
ATOM 6383	CG	CG	. ARG ARG ARG B B	402 402	. 137.194 101.993 5.803	1.00 6.63
1 . .						
ATOM 6384	CD	CD	. ARG ARG ARG B B	402 402	. 136.383 103.167 5.412	1.00 6.44
1 . .						
ATOM 6385	NE	NE	. ARG ARG ARG B B	402 402	. 136.873 104.274 6.248	1.00 6.22
1 . .						
ATOM 6386	CZ	CZ	. ARG ARG ARG B B	402 402	. 136.310 105.534 6.259	1.00 5.30
1 . .						
ATOM 6387	NH1	NH1	. ARG ARG ARG B B	402 402	. 135.457 105.954 5.279	1.00 7.07
1 . .						
ATOM 6388	NH2	NH2	. ARG ARG ARG B B	402 402	. 136.596 106.382 7.240	1.00 5.85
1 . .						
ATOM 6389	C	C	. ARG ARG ARG B B	402 402	. 134.747 98.920 5.871	1.00 6.20
1 . .						
ATOM 6390	O	O	. ARG ARG ARG B B	402 402	. 133.815 98.560 5.098	1.00 5.80
1 . .						
ATOM 6391	N	N	. LEU LEU LEU B B	403 403	. 135.440 98.073 6.660	1.00 6.74
1 . .						
ATOM 6392	CA	CA	. LEU LEU LEU B B	403 403	. 135.157 96.648 6.573	1.00 7.23
1 . .						
ATOM 6393	CB	CB	. LEU LEU LEU B B	403 403	. 136.035 95.710 7.422	1.00 7.20
1 . .						
ATOM 6394	CG	CG	. LEU LEU LEU B B	403 403	. 137.501 95.547 7.005	1.00 7.83
1 . .						
ATOM 6395	CD1	CD1	. LEU LEU LEU B B	403 403	. 137.521 95.281 5.484	1.00 7.76
1 . .						
ATOM 6396	CD2	CD2	. LEU LEU LEU B B	403 403	. 138.448 96.642 7.494	1.00 7.53
1 . .						
ATOM 6397	C	C	. LEU LEU LEU B B	403 403	. 133.661 96.342 6.904	1.00 5.57
1 . .						
ATOM 6398	O	O	. LEU LEU LEU B B	403 403	. 133.150 95.360 6.381	1.00 6.80
1 . .						
ATOM 6399	N	N	. ALA ALA ALA B B	404 404	. 132.993 97.110 7.771	1.00 6.65
1 . .						
ATOM 6400	CA	CA	. ALA ALA ALA B B	404 404	. 131.594 96.767 8.056	1.00 6.14
1 . .						
ATOM 6401	CB	CB	. ALA ALA ALA B B	404 404	. 130.991 97.771 9.050	1.00 7.95
1 . .						
ATOM 6402	C	C	. ALA ALA ALA B B	404 404	. 130.751 96.729 6.782	1.00 5.75
1 . .						
ATOM 6403	O	O	. ALA ALA ALA B B	404 404	. 129.919 95.821 6.615	1.00 7.19
1 . .						
ATOM 6404	N	N	. LYS LYS LYS B B	405 405	. 131.054 97.607 5.835	1.00 6.15
1 . .						
ATOM 6405	CA	CA	. LYS LYS LYS B B	405 405	. 130.293 97.595 4.591	1.00 5.81
1 . .						
ATOM 6406	CB	CB	. LYS LYS LYS B B	405 405	. 130.542 98.844 3.721	1.00 6.52
1 . .						
ATOM 6407	CG	CG	. LYS LYS LYS B B	405 405	. 129.848 100.125 4.236	1.00 7.09
1 . .						
ATOM 6408	CD	CD	. LYS LYS LYS B B	405 405	. 130.312 100.664 5.609	1.00 7.92
1 . .						









































ATOM	6949	O	O	.	HOH	HOH	HOH	S	.	300	300	.	117.696	116.117	22.084	1.00	21.21	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6950	O	O	.	HOH	HOH	HOH	S	.	301	301	.	107.006	108.002	20.964	1.00	26.01	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6951	O	O	.	HOH	HOH	HOH	S	.	302	302	.	157.559	86.117	41.589	1.00	24.66	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6952	O	O	.	HOH	HOH	HOH	S	.	303	303	.	123.989	124.773	-11.558	1.00	25.00	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6953	O	O	.	HOH	HOH	HOH	S	.	304	304	.	134.384	113.096	-27.688	1.00	22.02	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6954	O	O	.	HOH	HOH	HOH	S	.	305	305	.	157.169	113.862	-5.016	1.00	66.59	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6955	O	O	.	HOH	HOH	HOH	S	.	306	306	.	156.687	93.813	15.851	1.00	27.37	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6956	O	O	.	HOH	HOH	HOH	S	.	307	307	.	118.924	102.883	25.615	1.00	27.25	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6957	O	O	.	HOH	HOH	HOH	S	.	308	308	.	116.438	104.258	21.816	1.00	25.10	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6958	O	O	.	HOH	HOH	HOH	S	.	309	309	.	131.868	129.128	20.805	1.00	28.99	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6959	O	O	.	HOH	HOH	HOH	S	.	310	310	.	153.003	121.410	19.952	1.00	24.45	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6960	O	O	.	HOH	HOH	HOH	S	.	311	311	.	115.631	128.124	0.593	1.00	28.64	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6961	O	O	.	HOH	HOH	HOH	S	.	312	312	.	136.213	85.413	2.897	1.00	18.58	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6962	O	O	.	HOH	HOH	HOH	S	.	313	313	.	134.012	70.009	10.752	1.00	23.13	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6963	O	O	.	HOH	HOH	HOH	S	.	314	314	.	121.480	111.811	-22.065	1.00	24.99	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6964	O	O	.	HOH	HOH	HOH	S	.	315	315	.	126.009	92.704	-10.545	1.00	27.42	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6965	O	O	.	HOH	HOH	HOH	S	.	316	316	.	154.576	90.342	17.579	1.00	23.29	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6966	O	O	.	HOH	HOH	HOH	S	.	317	317	.	135.189	76.956	5.608	1.00	22.87	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6967	O	O	.	HOH	HOH	HOH	S	.	318	318	.	128.556	126.036	0.998	1.00	25.39	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6968	O	O	.	HOH	HOH	HOH	S	.	319	319	.	154.987	97.836	14.091	1.00	25.73	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6969	O	O	.	HOH	HOH	HOH	S	.	320	320	.	139.718	78.065	31.852	1.00	22.43	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6970	O	O	.	HOH	HOH	HOH	S	.	321	321	.	166.248	93.141	19.113	1.00	20.84	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6971	O	O	.	HOH	HOH	HOH	S	.	322	322	.	153.432	87.938	17.816	1.00	22.27	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6972	O	O	.	HOH	HOH	HOH	S	.	323	323	.	148.522	84.980	11.816	1.00	34.29	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6973	O	O	.	HOH	HOH	HOH	S	.	324	324	.	137.833	75.485	31.432	1.00	24.96	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6974	O	O	.	HOH	HOH	HOH	S	.	325	325	.	125.008	95.614	9.531	1.00	23.77	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ATOM	6975	O	O	.	HOH	HOH	HOH	S	.	326	326	.	153.920	123.763	-11.159	1.00	24.52	
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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1  N  N  . SER SER SER A A 1 1  . 0.1823 0.2377 0.2676 0.0498 0.0662
0.0045 1 .
2  CA  CA  . SER SER SER A A 1 1  . 0.1940 0.2388 0.2431 0.0158 0.0454
0.0245 1 .
3  CB  CB  . SER SER SER A A 1 1  . 0.2157 0.2634 0.2686 0.0112 0.0089
0.0149 1 .
4  OG  OG  . SER SER SER A A 1 1  . 0.2515 0.3414 0.2832 0.0007 0.0017
0.0315 1 .
5  C  C  . SER SER SER A A 1 1  . 0.1853 0.2461 0.2471 0.0130 0.0454
0.0400 1 .
6  O  O  . SER SER SER A A 1 1  . 0.1927 0.2405 0.2649 0.0159 0.0811
0.0569 1 .
7  N  N  . ILE ILE ILE A A 2 2  . 0.1620 0.1809 0.1861 0.0065 0.0360
0.0312 1 .
8  CA  CA  . ILE ILE ILE A A 2 2  . 0.1451 0.1570 0.1543 -0.0164 0.0318
0.0272 1 .
9  CB  CB  . ILE ILE ILE A A 2 2  . 0.1622 0.1364 0.1550 0.0018 0.0008 -
0.0042 1 .
10 CG1  CG1  . ILE ILE ILE A A 2 2  . 0.1730 0.1571 0.1494 -0.0126 0.0015 -
0.0210 1 .
11 CD  CD  . ILE ILE ILE A A 2 2  . 0.1939 0.2056 0.2232 0.0066 -0.0046 -
0.0330 1 .
12 CG2  CG2  . ILE ILE ILE A A 2 2  . 0.1763 0.1436 0.1560 0.0077 0.0155
0.0254 1 .
13 C  C  . ILE ILE ILE A A 2 2  . 0.1242 0.1569 0.1700 -0.0151 0.0203
0.0121 1 .
14 O  O  . ILE ILE ILE A A 2 2  . 0.1793 0.1834 0.1852 -0.0176 0.0288
0.0032 1 .
15 N  N  . GLN GLN GLN A A 3 3  . 0.1262 0.1518 0.1691 -0.0319 0.0144 -
0.0043 1 .
16 CA  CA  . GLN GLN GLN A A 3 3  . 0.1678 0.1680 0.1763 -0.0127 0.0091 -
0.0158 1 .
17 CB  CB  . GLN GLN GLN A A 3 3  . 0.1640 0.1996 0.2244 0.0043 0.0120 -
0.0200 1 .
18 CG  CG  . GLN GLN GLN A A 3 3  . 0.2203 0.2220 0.2586 0.0031 0.0600
0.0020 1 .
19 CD  CD  . GLN GLN GLN A A 3 3  . 0.3047 0.3985 0.3820 -0.0067 0.0125
0.0315 1 .
20 OE1  OE1  . GLN GLN GLN A A 3 3  . 0.4256 0.4193 0.4853 0.0525 0.0161
0.0689 1 .
21 NE2  NE2  . GLN GLN GLN A A 3 3  . 0.2927 0.5140 0.4445 -0.0267 0.0510 -
0.0338 1 .
22 C  C  . GLN GLN GLN A A 3 3  . 0.1685 0.1753 0.1809 -0.0388 0.0206 -
0.0237 1 .

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53	C	C	. TRP TRP TRP A A 6 6	. 0.1116 0.1026 0.1063 0.0011 -0.0120
0.0000	1	.		
54	O	O	. TRP TRP TRP A A 6 6	. 0.0995 0.1081 0.1303 0.0099 0.0110 -
0.0222	1	.		
55	N	N	. ALA ALA ALA A A 7 7	. 0.0910 0.0946 0.0923 -0.0136 0.0092
0.0066	1	.		
56	CA	CA	. ALA ALA ALA A A 7 7	. 0.0854 0.0943 0.0806 -0.0073 -0.0036 -
0.0035	1	.		
57	CB	CB	. ALA ALA ALA A A 7 7	. 0.1188 0.1229 0.0931 -0.0013 -0.0290
0.0249	1	.		
58	C	C	. ALA ALA ALA A A 7 7	. 0.1011 0.0805 0.0766 -0.0105 -0.0119
0.0009	1	.		
59	O	O	. ALA ALA ALA A A 7 7	. 0.1128 0.0873 0.0879 -0.0147 -0.0038 -
0.0050	1	.		
60	N	N	. ARG ARG ARG A A 8 8	. 0.1063 0.0954 0.0941 -0.0160 0.0061 -
0.0095	1	.		
61	CA	CA	. ARG ARG ARG A A 8 8	. 0.1146 0.0986 0.0808 -0.0140 0.0017
0.0085	1	.		
62	CB	CB	. ARG ARG ARG A A 8 8	. 0.1150 0.0742 0.1022 -0.0062 0.0056
0.0176	1	.		
63	CG	CG	. ARG ARG ARG A A 8 8	. 0.1383 0.0916 0.1234 0.0160 -0.0048
0.0160	1	.		
64	CD	CD	. ARG ARG ARG A A 8 8	. 0.0902 0.1047 0.1164 -0.0109 -0.0121
0.0453	1	.		
65	NE	NE	. ARG ARG ARG A A 8 8	. 0.0951 0.1192 0.1267 0.0058 0.0097
0.0137	1	.		
66	CZ	CZ	. ARG ARG ARG A A 8 8	. 0.0846 0.1091 0.1278 0.0077 0.0055
0.0082	1	.		
67	NH1	NH1	. ARG ARG ARG A A 8 8	. 0.1163 0.1320 0.1588 -0.0137 0.0187
0.0099	1	.		
68	NH2	NH2	. ARG ARG ARG A A 8 8	. 0.1663 0.1565 0.2354 -0.0159 -0.0289 -
0.0312	1	.		
69	C	C	. ARG ARG ARG A A 8 8	. 0.1089 0.0763 0.0859 -0.0127 0.0123
0.0046	1	.		
70	O	O	. ARG ARG ARG A A 8 8	. 0.0958 0.0854 0.0876 -0.0143 0.0002
0.0003	1	.		
71	N	N	. GLU GLU GLU A A 9 9	. 0.1008 0.0996 0.1027 -0.0090 0.0097
0.0106	1	.		
72	CA	CA	. GLU GLU GLU A A 9 9	. 0.0980 0.0904 0.1198 -0.0057 0.0006
0.0056	1	.		
73	CB	CB	. GLU GLU GLU A A 9 9	. 0.1522 0.1810 0.0966 -0.0248 0.0182 -
0.0136	1	.		
74	CG	CG	. GLU GLU GLU A A 9 9	. 0.2100 0.2707 0.1381 0.0168 0.0143 -
0.0152	1	.		
75	CD	CD	. GLU GLU GLU A A 9 9	. 0.1860 0.2151 0.1884 0.0439 0.0069 -
0.0061	1	.		
76	OE1	OE1	. GLU GLU GLU A A 9 9	. 0.1728 0.1564 0.1174 0.0449 0.0293
0.0060	1	.		
77	OE2	OE2	. GLU GLU GLU A A 9 9	. 0.1979 0.2183 0.1739 0.0650 0.0071 -
0.0130	1	.		
78	C	C	. GLU GLU GLU A A 9 9	. 0.1303 0.1121 0.1148 -0.0176 -0.0197
0.0161	1	.		
79	O	O	. GLU GLU GLU A A 9 9	. 0.2552 0.1123 0.1790 -0.0282 -0.0797
0.0360	1	.		
80	N	N	. ILE ILE ILE A A 10 10	. 0.1007 0.0770 0.0773 -0.0082 0.0004
0.0160	1	.		
81	CA	CA	. ILE ILE ILE A A 10 10	. 0.0832 0.0871 0.0952 0.0060 -0.0069
0.0137	1	.		
82	CB	CB	. ILE ILE ILE A A 10 10	. 0.0900 0.0859 0.0930 0.0223 -0.0143
0.0133	1	.		

83	CG1	CG1	. ILE ILE ILE A A 10 10	. 0.1141 0.1061 0.0919 0.0389 -0.0078
0.0151	1	.		
84	CD	CD	. ILE ILE ILE A A 10 10	. 0.1816 0.0904 0.1204 -0.0057 0.0149 -
0.0086	1	.		
85	CG2	CG2	. ILE ILE ILE A A 10 10	. 0.1166 0.1120 0.1423 -0.0025 0.0026
0.0153	1	.		
86	C	C	. ILE ILE ILE A A 10 10	. 0.0855 0.0622 0.0968 -0.0008 -0.0003
0.0161	1	.		
87	O	O	. ILE ILE ILE A A 10 10	. 0.1020 0.1038 0.1063 0.0011 0.0105
0.0148	1	.		
88	N	N	. LEU LEU LEU A A 11 11	. 0.0936 0.0640 0.0828 -0.0198 0.0012
0.0270	1	.		
89	CA	CA	. LEU LEU LEU A A 11 11	. 0.0715 0.0831 0.0727 -0.0206 0.0144
0.0104	1	.		
90	CB	CB	. LEU LEU LEU A A 11 11	. 0.0880 0.0832 0.0786 -0.0054 0.0085
0.0021	1	.		
91	CG	CG	. LEU LEU LEU A A 11 11	. 0.1154 0.0703 0.0756 -0.0006 0.0138
0.0026	1	.		
92	CD1	CD1	. LEU LEU LEU A A 11 11	. 0.0952 0.0993 0.1011 -0.0156 0.0325 -
0.0041	1	.		
93	CD2	CD2	. LEU LEU LEU A A 11 11	. 0.1674 0.1125 0.1284 0.0262 0.0367
0.0072	1	.		
94	C	C	. LEU LEU LEU A A 11 11	. 0.0767 0.0783 0.0728 -0.0057 0.0137
0.0116	1	.		
95	O	O	. LEU LEU LEU A A 11 11	. 0.0752 0.0923 0.0893 -0.0006 -0.0002
0.0045	1	.		
96	N	N	. ASP ASP ASP A A 12 12	. 0.0845 0.0779 0.0673 -0.0060 -0.0142 -
0.0033	1	.		
97	CA	CA	. ASP ASP ASP A A 12 12	. 0.0989 0.0715 0.0686 -0.0016 -0.0076 -
0.0084	1	.		
98	CB	CB	. ASP ASP ASP A A 12 12	. 0.0838 0.0571 0.1063 0.0141 -0.0037
0.0225	1	.		
99	CG	CG	. ASP ASP ASP A A 12 12	. 0.1407 0.1076 0.1070 -0.0047 0.0070 -
0.0061	1	.		
100	OD1	OD1	. ASP ASP ASP A A 12 12	. 0.1010 0.1047 0.1031 0.0002 0.0140
0.0033	1	.		
101	OD2	OD2	. ASP ASP ASP A A 12 12	. 0.1092 0.1113 0.1266 0.0052 -0.0102
0.0065	1	.		
102	C	C	. ASP ASP ASP A A 12 12	. 0.0813 0.0711 0.0754 0.0132 0.0092
0.0008	1	.		
103	O	O	. ASP ASP ASP A A 12 12	. 0.0794 0.0752 0.0844 0.0059 -0.0024 -
0.0058	1	.		
104	N	N	. SER SER SER A A 13 13	. 0.0832 0.0650 0.0844 0.0113 0.0047 -
0.0032	1	.		
105	CA	CA	. SER SER SER A A 13 13	. 0.0923 0.0737 0.0889 -0.0104 0.0245 -
0.0203	1	.		
106	CB	CB	. SER SER SER A A 13 13	. 0.1219 0.0821 0.0674 0.0206 -0.0179 -
0.0216	1	.		
107	OG	OG	. SER SER SER A A 13 13	. 0.0834 0.0903 0.0824 0.0119 -0.0051
0.0029	1	.		
108	C	C	. SER SER SER A A 13 13	. 0.0855 0.0773 0.0898 0.0061 0.0007
0.0024	1	.		
109	O	O	. SER SER SER A A 13 13	. 0.0947 0.0797 0.0880 -0.0050 -0.0030
0.0116	1	.		
110	N	N	. ARG ARG ARG A A 14 14	. 0.0791 0.0841 0.0905 0.0061 0.0106 -
0.0029	1	.		
111	CA	CA	. ARG ARG ARG A A 14 14	. 0.0598 0.0936 0.0695 0.0184 0.0065 -
0.0061	1	.		
112	CB	CB	. ARG ARG ARG A A 14 14	. 0.1002 0.1541 0.1310 0.0073 -0.0140 -
0.0027	1	.		





173	CG	CG	. ASP ASP ASP A A 22 22	. 0.1140 0.1458 0.1271 0.0047 0.0367 -
0.0190	1	.		
174	OD1	OD1	. ASP ASP ASP A A 22 22	. 0.1792 0.1907 0.1441 -0.0170 -0.0124
0.0055	1	.		
175	OD2	OD2	. ASP ASP ASP A A 22 22	. 0.1601 0.1436 0.1367 -0.0091 0.0065
0.0095	1	.		
176	C	C	. ASP ASP ASP A A 22 22	. 0.1043 0.0934 0.1084 0.0044 0.0186 -
0.0020	1	.		
177	O	O	. ASP ASP ASP A A 22 22	. 0.1199 0.0816 0.1358 0.0074 0.0248 -
0.0224	1	.		
178	N	N	. LEU LEU LEU A A 23 23	. 0.1002 0.1004 0.0938 0.0026 0.0169
0.0224	1	.		
179	CA	CA	. LEU LEU LEU A A 23 23	. 0.0943 0.0724 0.1052 0.0044 0.0064
0.0163	1	.		
180	CB	CB	. LEU LEU LEU A A 23 23	. 0.1259 0.1071 0.1047 -0.0129 -0.0133
0.0087	1	.		
181	CG	CG	. LEU LEU LEU A A 23 23	. 0.1207 0.1314 0.1101 -0.0029 0.0190
0.0220	1	.		
182	CD1	CD1	. LEU LEU LEU A A 23 23	. 0.1541 0.2015 0.1336 -0.0065 0.0153 -
0.0065	1	.		
183	CD2	CD2	. LEU LEU LEU A A 23 23	. 0.1204 0.1129 0.1577 -0.0074 0.0393
0.0183	1	.		
184	C	C	. LEU LEU LEU A A 23 23	. 0.1112 0.1185 0.1029 -0.0107 0.0099
0.0024	1	.		
185	O	O	. LEU LEU LEU A A 23 23	. 0.1191 0.0954 0.1475 -0.0037 0.0045 -
0.0153	1	.		
186	N	N	. TYR TYR TYR A A 24 24	. 0.1292 0.1239 0.1380 -0.0245 0.0075 -
0.0003	1	.		
187	CA	CA	. TYR TYR TYR A A 24 24	. 0.1126 0.1390 0.1335 -0.0143 0.0104
0.0086	1	.		
188	CB	CB	. TYR TYR TYR A A 24 24	. 0.1098 0.1399 0.1164 -0.0020 0.0134
0.0093	1	.		
189	CG	CG	. TYR TYR TYR A A 24 24	. 0.1492 0.1284 0.1672 0.0002 -0.0047
0.0370	1	.		
190	CD1	CD1	. TYR TYR TYR A A 24 24	. 0.1605 0.1936 0.1827 -0.0488 -0.0062
0.0169	1	.		
191	CE1	CE1	. TYR TYR TYR A A 24 24	. 0.1896 0.1837 0.1928 -0.0019 -0.0059
0.0292	1	.		
192	CZ	CZ	. TYR TYR TYR A A 24 24	. 0.1900 0.2333 0.2211 0.0068 0.0077
0.1068	1	.		
193	OH	OH	. TYR TYR TYR A A 24 24	. 0.2540 0.2530 0.2441 -0.0164 -0.0093
0.1194	1	.		
194	CE2	CE2	. TYR TYR TYR A A 24 24	. 0.2184 0.2744 0.2388 0.0192 0.0249
0.1099	1	.		
195	CD2	CD2	. TYR TYR TYR A A 24 24	. 0.2101 0.2352 0.1761 0.0052 -0.0099
0.0711	1	.		
196	C	C	. TYR TYR TYR A A 24 24	. 0.1098 0.1375 0.1386 -0.0048 0.0018
0.0100	1	.		
197	O	O	. TYR TYR TYR A A 24 24	. 0.1288 0.1343 0.1604 -0.0185 -0.0034
0.0056	1	.		
198	N	N	. THR THR THR A A 25 25	. 0.1290 0.1550 0.1609 -0.0371 0.0241 -
0.0129	1	.		
199	CA	CA	. THR THR THR A A 25 25	. 0.1394 0.1769 0.1704 -0.0254 0.0169
0.0038	1	.		
200	CB	CB	. THR THR THR A A 25 25	. 0.1364 0.1553 0.1815 -0.0221 0.0153 -
0.0031	1	.		
201	OG1	OG1	. THR THR THR A A 25 25	. 0.1501 0.1743 0.1977 -0.0021 -0.0016 -
0.0025	1	.		
202	CG2	CG2	. THR THR THR A A 25 25	. 0.1506 0.1598 0.1802 0.0043 -0.0032 -
0.0116	1	.		

203	C	C	. THR THR THR A A 25 25 .	0.1921	0.2229	0.2076	-0.0235	0.0214	
0.0240	1	.							
204	O	O	. THR THR THR A A 25 25 .	0.2016	0.2195	0.2118	-0.0459	0.0127	
0.0159	1	.							
205	N	N	. ALA ALA ALA A A 26 26 .	0.1375	0.2444	0.2254	-0.0347	0.0333	
0.0102	1	.							
206	CA	CA	. ALA ALA ALA A A 26 26 .	0.1788	0.2691	0.2756	-0.0105	0.0440	
0.0209	1	.							
207	CB	CB	. ALA ALA ALA A A 26 26 .	0.1925	0.2705	0.2694	-0.0193	0.0528	
0.0494	1	.							
208	C	C	. ALA ALA ALA A A 26 26 .	0.1939	0.2629	0.2896	0.0027	0.0265	
0.0312	1	.							
209	O	O	. ALA ALA ALA A A 26 26 .	0.2040	0.2848	0.3596	-0.0112	-0.0193	
0.0277	1	.							
210	N	N	. LYS LYS LYS A A 27 27 .	0.2152	0.2609	0.2772	0.0005	0.0547	
0.0260	1	.							
211	CA	CA	. LYS LYS LYS A A 27 27 .	0.2392	0.2671	0.2889	0.0113	0.0522	
0.0291	1	.							
212	CB	CB	. LYS LYS LYS A A 27 27 .	0.2559	0.2875	0.2977	-0.0072	0.0566	
0.0168	1	.							
213	CG	CG	. LYS LYS LYS A A 27 27 .	0.3126	0.3012	0.3188	-0.0014	0.0957	
0.0244	1	.							
214	CD	CD	. LYS LYS LYS A A 27 27 .	0.4146	0.4105	0.4669	0.0473	0.0481	-
0.0069	1	.							
215	CE	CE	. LYS LYS LYS A A 27 27 .	0.5149	0.3988	0.4429	-0.0453	0.0379	
0.0247	1	.							
216	NZ	NZ	. LYS LYS LYS A A 27 27 .	0.4678	0.3914	0.5564	0.0346	0.0085	
0.0090	1	.							
217	C	C	. LYS LYS LYS A A 27 27 .	0.2378	0.2568	0.3139	0.0103	0.0474	
0.0277	1	.							
218	O	O	. LYS LYS LYS A A 27 27 .	0.2874	0.2867	0.3746	0.0304	0.0398	
0.0441	1	.							
219	N	N	. GLY GLY GLY A A 28 28 .	0.1964	0.2235	0.2761	-0.0026	0.0250	
0.0402	1	.							
220	CA	CA	. GLY GLY GLY A A 28 28 .	0.1616	0.2363	0.2708	0.0224	0.0371	
0.0286	1	.							
221	C	C	. GLY GLY GLY A A 28 28 .	0.1132	0.1821	0.2018	0.0174	0.0278	
0.0413	1	.							
222	O	O	. GLY GLY GLY A A 28 28 .	0.1451	0.1610	0.1770	-0.0062	0.0045	
0.0088	1	.							
223	N	N	. LEU LEU LEU A A 29 29 .	0.1557	0.1817	0.2121	-0.0005	0.0139	
0.0361	1	.							
224	CA	CA	. LEU LEU LEU A A 29 29 .	0.1498	0.1794	0.1785	-0.0115	0.0100	
0.0258	1	.							
225	CB	CB	. LEU LEU LEU A A 29 29 .	0.1920	0.1991	0.1589	0.0015	0.0155	
0.0393	1	.							
226	CG	CG	. LEU LEU LEU A A 29 29 .	0.2107	0.3145	0.1497	-0.0547	0.0258	
0.0089	1	.							
227	CD1	CD1	. LEU LEU LEU A A 29 29 .	0.3108	0.4212	0.2052	-0.0048	0.0325	
0.0682	1	.							
228	CD2	CD2	. LEU LEU LEU A A 29 29 .	0.3037	0.3384	0.2019	-0.0494	0.0032	
0.0152	1	.							
229	C	C	. LEU LEU LEU A A 29 29 .	0.1487	0.1538	0.1811	-0.0091	0.0136	
0.0068	1	.							
230	O	O	. LEU LEU LEU A A 29 29 .	0.1590	0.1958	0.2365	0.0182	-0.0003	
0.0054	1	.							
231	N	N	. PHE PHE PHE A A 30 30 .	0.1255	0.1346	0.1356	-0.0113	0.0110	-
0.0041	1	.							
232	CA	CA	. PHE PHE PHE A A 30 30 .	0.1001	0.1163	0.1638	-0.0186	0.0342	-
0.0115	1	.							

233	CB	CB	. PHE PHE PHE A A 30 30	. 0.0900 0.1780 0.1371 -0.0087 0.0330 -
0.0157	1	.		
234	CG	CG	. PHE PHE PHE A A 30 30	. 0.1284 0.1480 0.1315 0.0153 0.0465 -
0.0139	1	.		
235	CD1	CD1	. PHE PHE PHE A A 30 30	. 0.1272 0.1532 0.1852 0.0372 0.0804 -
0.0498	1	.		
236	CE1	CE1	. PHE PHE PHE A A 30 30	. 0.1079 0.2058 0.2027 0.0020 0.0752 -
0.0241	1	.		
237	CZ	CZ	. PHE PHE PHE A A 30 30	. 0.1714 0.2042 0.1535 -0.0200 0.0537 -
0.0467	1	.		
238	CE2	CE2	. PHE PHE PHE A A 30 30	. 0.1637 0.1930 0.1410 0.0217 0.0813 -
0.0202	1	.		
239	CD2	CD2	. PHE PHE PHE A A 30 30	. 0.1503 0.2060 0.1053 -0.0092 0.0429 -
0.0229	1	.		
240	C	C	. PHE PHE PHE A A 30 30	. 0.1130 0.1278 0.1669 0.0025 0.0350 -
0.0227	1	.		
241	O	O	. PHE PHE PHE A A 30 30	. 0.1748 0.1292 0.2606 -0.0294 0.0635 -
0.0360	1	.		
242	N	N	. ARG ARG ARG A A 31 31	. 0.0888 0.1211 0.1272 -0.0127 0.0230 -
0.0119	1	.		
243	CA	CA	. ARG ARG ARG A A 31 31	. 0.0842 0.1105 0.1175 -0.0043 0.0205
0.0054	1	.		
244	CB	CB	. ARG ARG ARG A A 31 31	. 0.1131 0.1057 0.1342 -0.0030 0.0243
0.0137	1	.		
245	CG	CG	. ARG ARG ARG A A 31 31	. 0.1212 0.1539 0.0779 -0.0137 0.0111
0.0250	1	.		
246	CD	CD	. ARG ARG ARG A A 31 31	. 0.1523 0.1228 0.1735 -0.0159 -0.0085
0.0253	1	.		
247	NE	NE	. ARG ARG ARG A A 31 31	. 0.1303 0.1661 0.1253 0.0142 0.0093
0.0260	1	.		
248	CZ	CZ	. ARG ARG ARG A A 31 31	. 0.1964 0.1815 0.1486 0.0120 0.0423
0.0121	1	.		
249	NH1	NH1	. ARG ARG ARG A A 31 31	. 0.2334 0.1763 0.1669 0.0145 0.0377 -
0.0030	1	.		
250	NH2	NH2	. ARG ARG ARG A A 31 31	. 0.2231 0.2799 0.1507 -0.0198 0.0063 -
0.0263	1	.		
251	C	C	. ARG ARG ARG A A 31 31	. 0.0915 0.0899 0.1047 -0.0021 0.0146
0.0046	1	.		
252	O	O	. ARG ARG ARG A A 31 31	. 0.1025 0.1387 0.1291 0.0056 0.0049 -
0.0036	1	.		
253	N	N	. ALA ALA ALA A A 32 32	. 0.0870 0.0916 0.1010 -0.0217 0.0177
0.0093	1	.		
254	CA	CA	. ALA ALA ALA A A 32 32	. 0.0702 0.0950 0.0795 0.0038 -0.0022
0.0228	1	.		
255	CB	CB	. ALA ALA ALA A A 32 32	. 0.1150 0.1252 0.1015 -0.0028 0.0114
0.0370	1	.		
256	C	C	. ALA ALA ALA A A 32 32	. 0.0947 0.0908 0.0763 0.0103 -0.0112
0.0061	1	.		
257	O	O	. ALA ALA ALA A A 32 32	. 0.1099 0.0927 0.1127 -0.0115 0.0081 -
0.0328	1	.		
258	N	N	. ALA ALA ALA A A 33 33	. 0.0908 0.0730 0.1007 0.0100 0.0032
0.0046	1	.		
259	CA	CA	. ALA ALA ALA A A 33 33	. 0.0979 0.0980 0.0952 -0.0064 -0.0008
0.0140	1	.		
260	CB	CB	. ALA ALA ALA A A 33 33	. 0.1307 0.0865 0.0983 -0.0023 0.0014
0.0155	1	.		
261	C	C	. ALA ALA ALA A A 33 33	. 0.0935 0.0934 0.0925 -0.0061 -0.0015 -
0.0018	1	.		
262	O	O	. ALA ALA ALA A A 33 33	. 0.0877 0.1150 0.1027 0.0060 -0.0051 -
0.0115	1	.		











383	OD1	OD1	. ASP ASP ASP A A 50 50	. 0.1452 0.1119 0.1494 0.0303 0.0145	
0.0076	1	.			
384	OD2	OD2	. ASP ASP ASP A A 50 50	. 0.1452 0.1338 0.1296 0.0082 0.0019	-
0.0136	1	.			
385	C	C	. ASP ASP ASP A A 50 50	. 0.1569 0.1436 0.1187 0.0198 0.0282	-
0.0102	1	.			
386	O	O	. ASP ASP ASP A A 50 50	. 0.2117 0.1529 0.1777 0.0280 0.0174	
0.0114	1	.			
387	N	N	. GLY GLY GLY A A 51 51	. 0.1488 0.1476 0.1534 0.0185 0.0257	
0.0077	1	.			
388	CA	CA	. GLY GLY GLY A A 51 51	. 0.1768 0.1704 0.1896 0.0495 0.0277	
0.0083	1	.			
389	C	C	. GLY GLY GLY A A 51 51	. 0.2114 0.2329 0.2230 0.0415 0.0374	
0.0183	1	.			
390	O	O	. GLY GLY GLY A A 51 51	. 0.2273 0.2728 0.2336 0.0888 0.0579	
0.0284	1	.			
391	N	N	. ASP ASP ASP A A 52 52	. 0.1954 0.2071 0.1600 0.0340 0.0396	
0.0020	1	.			
392	CA	CA	. ASP ASP ASP A A 52 52	. 0.2545 0.2155 0.1917 0.0294 0.0478	
0.0002	1	.			
393	CB	CB	. ASP ASP ASP A A 52 52	. 0.2811 0.1885 0.1810 0.0226 0.0412	-
0.0138	1	.			
394	CG	CG	. ASP ASP ASP A A 52 52	. 0.2905 0.1876 0.2110 0.0095 0.0293	
0.0003	1	.			
395	OD1	OD1	. ASP ASP ASP A A 52 52	. 0.3131 0.2691 0.2291 0.0606 0.0380	-
0.0413	1	.			
396	OD2	OD2	. ASP ASP ASP A A 52 52	. 0.2957 0.2417 0.2554 0.1015 0.0722	
0.0269	1	.			
397	C	C	. ASP ASP ASP A A 52 52	. 0.2525 0.2300 0.2097 0.0429 0.0658	
0.0076	1	.			
398	O	O	. ASP ASP ASP A A 52 52	. 0.2446 0.2262 0.1664 0.0664 0.0725	
0.0289	1	.			
399	N	N	. LYS LYS LYS A A 53 53	. 0.2703 0.2795 0.2881 0.0477 0.0731	
0.0157	1	.			
400	CA	CA	. LYS LYS LYS A A 53 53	. 0.3125 0.3422 0.3344 0.0422 0.0674	
0.0058	1	.			
401	CB	CB	. LYS LYS LYS A A 53 53	. 0.3130 0.3591 0.3541 0.0565 0.0527	
0.0215	1	.			
402	CG	CG	. LYS LYS LYS A A 53 53	. 0.3870 0.4647 0.3647 0.0380 0.0295	
0.0220	1	.			
403	CD	CD	. LYS LYS LYS A A 53 53	. 0.5047 0.4742 0.4519 0.0001 0.0154	-
0.0165	1	.			
404	CE	CE	. LYS LYS LYS A A 53 53	. 0.5361 0.5389 0.4943 0.0137 0.0086	-
0.0532	1	.			
405	NZ	NZ	. LYS LYS LYS A A 53 53	. 0.5815 0.5957 0.5792 -0.0369 -0.0327	-
0.0314	1	.			
406	C	C	. LYS LYS LYS A A 53 53	. 0.3039 0.3184 0.3280 0.0497 0.0646	
0.0013	1	.			
407	O	O	. LYS LYS LYS A A 53 53	. 0.3192 0.3731 0.3832 0.0391 0.1117	
0.0275	1	.			
408	N	N	. GLN GLN GLN A A 54 54	. 0.3353 0.3547 0.3440 0.0452 0.0544	
0.0144	1	.			
409	CA	CA	. GLN GLN GLN A A 54 54	. 0.3895 0.3649 0.3446 0.0346 0.0279	
0.0126	1	.			
410	CB	CB	. GLN GLN GLN A A 54 54	. 0.4126 0.3917 0.3793 0.0161 0.0141	
0.0062	1	.			
411	CG	CG	. GLN GLN GLN A A 54 54	. 0.4477 0.4609 0.4537 0.0251 0.0303	
0.0096	1	.			
412	CD	CD	. GLN GLN GLN A A 54 54	. 0.4850 0.5016 0.5323 0.0214 0.0359	
0.0416	1	.			



443	CG	CG	. LEU LEU LEU A A 57 57	. 0.4210 0.4362 0.3677 -0.0337 0.0291
0.0342	1	.		
444	CD1	CD1	. LEU LEU LEU A A 57 57	. 0.4938 0.4439 0.4235 -0.0325 -0.0019
0.0132	1	.		
445	CD2	CD2	. LEU LEU LEU A A 57 57	. 0.4554 0.5686 0.4296 0.0016 0.0297 -
0.0036	1	.		
446	C	C	. LEU LEU LEU A A 57 57	. 0.2168 0.2526 0.2255 0.0089 0.0217
0.0104	1	.		
447	O	O	. LEU LEU LEU A A 57 57	. 0.1834 0.2945 0.2578 -0.0087 0.0353
0.0120	1	.		
448	N	N	. GLY GLY GLY A A 58 58	. 0.1892 0.2110 0.2011 0.0174 0.0447
0.0165	1	.		
449	CA	CA	. GLY GLY GLY A A 58 58	. 0.1671 0.1750 0.1678 0.0375 0.0420
0.0248	1	.		
450	C	C	. GLY GLY GLY A A 58 58	. 0.1707 0.1605 0.1626 0.0266 0.0418
0.0161	1	.		
451	O	O	. GLY GLY GLY A A 58 58	. 0.1553 0.1724 0.1490 0.0360 0.0285
0.0175	1	.		
452	N	N	. LYS LYS LYS A A 59 59	. 0.1212 0.1490 0.1439 0.0144 0.0335
0.0008	1	.		
453	CA	CA	. LYS LYS LYS A A 59 59	. 0.1388 0.1216 0.1410 0.0004 0.0229 -
0.0118	1	.		
454	CB	CB	. LYS LYS LYS A A 59 59	. 0.1399 0.1380 0.2113 0.0046 0.0165 -
0.0180	1	.		
455	CG	CG	. LYS LYS LYS A A 59 59	. 0.1428 0.2390 0.2718 -0.0133 0.0171 -
0.0295	1	.		
456	CD	CD	. LYS LYS LYS A A 59 59	. 0.3996 0.4415 0.4071 0.0122 -0.0069 -
0.0577	1	.		
457	CE	CE	. LYS LYS LYS A A 59 59	. 0.4860 0.4095 0.5660 0.0533 0.0213 -
0.0616	1	.		
458	NZ	NZ	. LYS LYS LYS A A 59 59	. 0.4160 0.3673 0.5453 0.0925 -0.0008 -
0.0383	1	.		
459	C	C	. LYS LYS LYS A A 59 59	. 0.1138 0.0987 0.1234 -0.0017 0.0049 -
0.0131	1	.		
460	O	O	. LYS LYS LYS A A 59 59	. 0.1336 0.1171 0.1231 0.0057 0.0049 -
0.0063	1	.		
461	N	N	. GLY GLY GLY A A 60 60	. 0.1128 0.1053 0.1153 0.0047 -0.0011
0.0017	1	.		
462	CA	CA	. GLY GLY GLY A A 60 60	. 0.1110 0.1168 0.1291 -0.0030 0.0171
0.0182	1	.		
463	C	C	. GLY GLY GLY A A 60 60	. 0.1115 0.1132 0.0980 0.0226 -0.0007 -
0.0036	1	.		
464	O	O	. GLY GLY GLY A A 60 60	. 0.1343 0.1303 0.0915 0.0148 0.0055 -
0.0136	1	.		
465	N	N	. VAL VAL VAL A A 61 61	. 0.0856 0.0718 0.0893 0.0088 0.0162
0.0026	1	.		
466	CA	CA	. VAL VAL VAL A A 61 61	. 0.0968 0.0920 0.1114 0.0021 0.0216
0.0035	1	.		
467	CB	CB	. VAL VAL VAL A A 61 61	. 0.1075 0.0623 0.0784 -0.0003 -0.0185 -
0.0058	1	.		
468	CG1	CG1	. VAL VAL VAL A A 61 61	. 0.1027 0.0896 0.0706 -0.0003 0.0000
0.0008	1	.		
469	CG2	CG2	. VAL VAL VAL A A 61 61	. 0.0887 0.1027 0.1188 -0.0026 -0.0080 -
0.0071	1	.		
470	C	C	. VAL VAL VAL A A 61 61	. 0.1134 0.0807 0.1061 0.0121 0.0118 -
0.0078	1	.		
471	O	O	. VAL VAL VAL A A 61 61	. 0.1318 0.0982 0.1128 -0.0017 0.0145
0.0000	1	.		
472	N	N	. LEU LEU LEU A A 62 62	. 0.1461 0.0933 0.0930 -0.0021 0.0069 -
0.0070	1	.		





503	CB	CB	. ASP ASP ASP A A 66 66	. 0.1488 0.1276 0.1145 -0.0019 0.0321
0.0065	1	.		
504	CG	CG	. ASP ASP ASP A A 66 66	. 0.3594 0.2524 0.2993 0.0047 0.0351
0.0161	1	.		
505	OD1	OD1	. ASP ASP ASP A A 66 66	. 0.4339 0.4256 0.4734 -0.0029 0.0265
0.0154	1	.		
506	OD2	OD2	. ASP ASP ASP A A 66 66	. 0.4646 0.4373 0.4919 0.1241 0.0363
0.0672	1	.		
507	C	C	. ASP ASP ASP A A 66 66	. 0.1456 0.1049 0.1189 0.0045 0.0035
0.0068	1	.		
508	O	O	. ASP ASP ASP A A 66 66	. 0.1278 0.1010 0.1305 0.0136 0.0041
0.0042	1	.		
509	N	N	. HIS HIS HIS A A 67 67	. 0.1026 0.1020 0.1034 -0.0005 0.0143
0.0057	1	.		
510	CA	CA	. HIS HIS HIS A A 67 67	. 0.1040 0.0850 0.1022 -0.0002 0.0133
0.0143	1	.		
511	CB	CB	. HIS HIS HIS A A 67 67	. 0.1129 0.1234 0.1044 0.0189 0.0184 -
0.0052	1	.		
512	CG	CG	. HIS HIS HIS A A 67 67	. 0.0956 0.0934 0.1403 -0.0093 -0.0014 -
0.0267	1	.		
513	ND1	ND1	. HIS HIS HIS A A 67 67	. 0.1629 0.1201 0.1675 0.0029 0.0098 -
0.0026	1	.		
514	CE1	CE1	. HIS HIS HIS A A 67 67	. 0.1195 0.1392 0.1589 0.0227 0.0045
0.0006	1	.		
515	NE2	NE2	. HIS HIS HIS A A 67 67	. 0.1869 0.1132 0.1975 0.0098 0.0276
0.0233	1	.		
516	CD2	CD2	. HIS HIS HIS A A 67 67	. 0.0962 0.1104 0.1168 0.0117 0.0030
0.0418	1	.		
517	C	C	. HIS HIS HIS A A 67 67	. 0.1336 0.0977 0.0965 0.0081 0.0230 -
0.0048	1	.		
518	O	O	. HIS HIS HIS A A 67 67	. 0.1253 0.0865 0.1146 -0.0032 0.0011
0.0001	1	.		
519	N	N	. ILE ILE ILE A A 68 68	. 0.1055 0.0804 0.1007 0.0175 0.0096
0.0040	1	.		
520	CA	CA	. ILE ILE ILE A A 68 68	. 0.1022 0.0870 0.1137 -0.0040 0.0049
0.0014	1	.		
521	CB	CB	. ILE ILE ILE A A 68 68	. 0.0915 0.0611 0.0778 -0.0024 0.0022
0.0106	1	.		
522	CG1	CG1	. ILE ILE ILE A A 68 68	. 0.1287 0.0934 0.0890 -0.0183 -0.0009
0.0374	1	.		
523	CD	CD	. ILE ILE ILE A A 68 68	. 0.1268 0.0670 0.0901 0.0071 -0.0059
0.0383	1	.		
524	CG2	CG2	. ILE ILE ILE A A 68 68	. 0.0756 0.0742 0.1013 0.0304 0.0069
0.0085	1	.		
525	C	C	. ILE ILE ILE A A 68 68	. 0.0968 0.0902 0.0895 -0.0005 0.0130 -
0.0083	1	.		
526	O	O	. ILE ILE ILE A A 68 68	. 0.1199 0.1050 0.1216 0.0022 -0.0090
0.0227	1	.		
527	N	N	. ASN ASN ASN A A 69 69	. 0.1044 0.0763 0.1112 0.0054 -0.0058 -
0.0100	1	.		
528	CA	CA	. ASN ASN ASN A A 69 69	. 0.1133 0.0809 0.1023 -0.0065 -0.0069 -
0.0040	1	.		
529	CB	CB	. ASN ASN ASN A A 69 69	. 0.1429 0.0799 0.0925 -0.0007 -0.0052
0.0078	1	.		
530	CG	CG	. ASN ASN ASN A A 69 69	. 0.0962 0.0979 0.1243 -0.0038 0.0126 -
0.0176	1	.		
531	OD1	OD1	. ASN ASN ASN A A 69 69	. 0.1380 0.0972 0.1235 -0.0227 0.0238 -
0.0099	1	.		
532	ND2	ND2	. ASN ASN ASN A A 69 69	. 0.1438 0.1198 0.0958 0.0000 -0.0088 -
0.0026	1	.		

533	C	C	. ASN ASN ASN A A 69 69 .	0.1179	0.0969	0.1309	-0.0051	-0.0066	-
0.0080	1	.							
534	O	O	. ASN ASN ASN A A 69 69 .	0.1404	0.0888	0.1491	-0.0130	-0.0112	
0.0039	1	.							
535	N	N	. SER SER SER A A 70 70 .	0.1421	0.0785	0.1255	0.0019	-0.0027	-
0.0044	1	.							
536	CA	CA	. SER SER SER A A 70 70 .	0.1596	0.0801	0.1455	0.0164	-0.0042	-
0.0029	1	.							
537	CB	CB	. SER SER SER A A 70 70 .	0.1842	0.1014	0.0794	-0.0060	0.0357	
0.0200	1	.							
538	OG	OG	. SER SER SER A A 70 70 .	0.3701	0.2483	0.2088	0.0145	0.0130	-
0.0031	1	.							
539	C	C	. SER SER SER A A 70 70 .	0.1194	0.1072	0.0975	0.0054	-0.0192	-
0.0008	1	.							
540	O	O	. SER SER SER A A 70 70 .	0.1342	0.1012	0.1208	0.0054	-0.0137	-
0.0068	1	.							
541	N	N	. THR THR THR A A 71 71 .	0.1268	0.0865	0.1117	0.0046	-0.0029	-
0.0129	1	.							
542	CA	CA	. THR THR THR A A 71 71 .	0.1034	0.0915	0.0937	0.0197	-0.0002	
0.0044	1	.							
543	CB	CB	. THR THR THR A A 71 71 .	0.0994	0.0857	0.0691	0.0369	-0.0090	-
0.0168	1	.							
544	OG1	OG1	. THR THR THR A A 71 71 .	0.1233	0.0908	0.0992	0.0074	0.0082	-
0.0071	1	.							
545	CG2	CG2	. THR THR THR A A 71 71 .	0.1408	0.0818	0.1265	0.0164	0.0073	
0.0181	1	.							
546	C	C	. THR THR THR A A 71 71 .	0.1176	0.0976	0.0929	-0.0102	-0.0021	-
0.0173	1	.							
547	O	O	. THR THR THR A A 71 71 .	0.1348	0.0812	0.1086	-0.0038	0.0172	
0.0007	1	.							
548	N	N	. ILE ILE ILE A A 72 72 .	0.1088	0.0724	0.0864	-0.0061	0.0104	-
0.0035	1	.							
549	CA	CA	. ILE ILE ILE A A 72 72 .	0.0885	0.0935	0.0913	-0.0122	0.0017	-
0.0079	1	.							
550	CB	CB	. ILE ILE ILE A A 72 72 .	0.1055	0.0736	0.0992	-0.0088	0.0086	-
0.0093	1	.							
551	CG1	CG1	. ILE ILE ILE A A 72 72 .	0.1107	0.0824	0.1222	-0.0302	-0.0030	
0.0081	1	.							
552	CD	CD	. ILE ILE ILE A A 72 72 .	0.0972	0.1165	0.1469	-0.0421	-0.0386	
0.0059	1	.							
553	CG2	CG2	. ILE ILE ILE A A 72 72 .	0.1403	0.1254	0.1198	-0.0246	0.0199	-
0.0330	1	.							
554	C	C	. ILE ILE ILE A A 72 72 .	0.1024	0.0909	0.1053	0.0008	0.0024	
0.0060	1	.							
555	O	O	. ILE ILE ILE A A 72 72 .	0.1357	0.1060	0.0940	-0.0180	0.0222	-
0.0110	1	.							
556	N	N	. ALA ALA ALA A A 73 73 .	0.1076	0.0815	0.0995	-0.0043	-0.0093	
0.0044	1	.							
557	CA	CA	. ALA ALA ALA A A 73 73 .	0.1158	0.0969	0.1211	-0.0089	0.0095	
0.0094	1	.							
558	CB	CB	. ALA ALA ALA A A 73 73 .	0.1437	0.1001	0.1551	-0.0119	-0.0136	-
0.0090	1	.							
559	C	C	. ALA ALA ALA A A 73 73 .	0.1146	0.1015	0.1132	-0.0052	0.0005	-
0.0095	1	.							
560	O	O	. ALA ALA ALA A A 73 73 .	0.1384	0.0879	0.1371	-0.0079	0.0155	-
0.0022	1	.							
561	N	N	. PRO PRO PRO A A 74 74 .	0.1137	0.0923	0.0922	0.0001	0.0043	
0.0008	1	.							
562	CA	CA	. PRO PRO PRO A A 74 74 .	0.1181	0.0895	0.0880	-0.0109	-0.0006	-
0.0090	1	.							



593	C	C	. SER SER SER A A 78 78 .	0.1473	0.1440	0.1400	-0.0185	0.0187	-
0.0163	1	.							
594	O	O	. SER SER SER A A 78 78 .	0.1668	0.1454	0.1627	-0.0352	0.0267	-
0.0199	1	.							
595	N	N	. SER SER SER A A 79 79 .	0.1315	0.0852	0.1018	-0.0059	0.0094	-
0.0113	1	.							
596	CA	CA	. SER SER SER A A 79 79 .	0.1451	0.1291	0.1089	-0.0077	0.0093	-
0.0045	1	.							
597	CB	CB	. SER SER SER A A 79 79 .	0.1382	0.0941	0.1507	-0.0085	-0.0048	-
0.0118	1	.							
598	OG	OG	. SER SER SER A A 79 79 .	0.1366	0.1131	0.1308	-0.0049	0.0191	-
0.0080	1	.							
599	C	C	. SER SER SER A A 79 79 .	0.1507	0.1164	0.1387	-0.0141	0.0103	-
0.0079	1	.							
600	O	O	. SER SER SER A A 79 79 .	0.1640	0.1558	0.1458	-0.0310	0.0244	-
0.0069	1	.							
601	N	N	. GLY GLY GLY A A 80 80 .	0.1228	0.1267	0.1510	-0.0101	0.0090	-
0.0073	1	.							
602	CA	CA	. GLY GLY GLY A A 80 80 .	0.1323	0.1486	0.1618	-0.0043	0.0276	-
0.0245	1	.							
603	C	C	. GLY GLY GLY A A 80 80 .	0.1513	0.1523	0.1818	-0.0070	0.0180	-
0.0078	1	.							
604	O	O	. GLY GLY GLY A A 80 80 .	0.1522	0.1845	0.2242	0.0026	0.0239	-
0.0457	1	.							
605	N	N	. LEU LEU LEU A A 81 81 .	0.1700	0.1571	0.1567	-0.0057	0.0156	-
0.0171	1	.							
606	CA	CA	. LEU LEU LEU A A 81 81 .	0.1689	0.1469	0.1611	-0.0115	0.0158	-
0.0217	1	.							
607	CB	CB	. LEU LEU LEU A A 81 81 .	0.1730	0.1587	0.1542	-0.0065	0.0081	-
0.0259	1	.							
608	CG	CG	. LEU LEU LEU A A 81 81 .	0.2194	0.1232	0.1291	-0.0234	0.0248	-
0.0072	1	.							
609	CD1	CD1	. LEU LEU LEU A A 81 81 .	0.2351	0.1478	0.1631	-0.0049	-0.0193	-
0.0035	1	.							
610	CD2	CD2	. LEU LEU LEU A A 81 81 .	0.3248	0.1870	0.1811	0.0082	0.0605	-
0.0153	1	.							
611	C	C	. LEU LEU LEU A A 81 81 .	0.1706	0.1664	0.1578	-0.0053	0.0355	-
0.0071	1	.							
612	O	O	. LEU LEU LEU A A 81 81 .	0.1859	0.1576	0.1476	-0.0149	0.0074	-
0.0032	1	.							
613	N	N	. SER SER SER A A 82 82 .	0.1581	0.1153	0.1765	-0.0062	0.0225	-
0.0192	1	.							
614	CA	CA	. SER SER SER A A 82 82 .	0.1404	0.1267	0.1892	-0.0084	0.0416	-
0.0142	1	.							
615	CB	CB	. SER SER SER A A 82 82 .	0.1689	0.1334	0.2111	0.0082	0.0841	-
0.0136	1	.							
616	OG	OG	. SER SER SER A A 82 82 .	0.1862	0.1434	0.2353	-0.0126	0.0664	-
0.0182	1	.							
617	C	C	. SER SER SER A A 82 82 .	0.1165	0.1431	0.1437	-0.0003	0.0236	-
0.0075	1	.							
618	O	O	. SER SER SER A A 82 82 .	0.1618	0.1206	0.1442	-0.0041	0.0287	-
0.0178	1	.							
619	N	N	. VAL VAL VAL A A 83 83 .	0.1514	0.1360	0.1439	-0.0023	0.0259	-
0.0052	1	.							
620	CA	CA	. VAL VAL VAL A A 83 83 .	0.1433	0.1595	0.1524	-0.0049	0.0166	-
0.0075	1	.							
621	CB	CB	. VAL VAL VAL A A 83 83 .	0.1127	0.1431	0.1190	0.0175	0.0040	-
0.0060	1	.							
622	CG1	CG1	. VAL VAL VAL A A 83 83 .	0.1643	0.1917	0.1435	-0.0063	0.0468	-
0.0254	1	.							





683	C	C	. ASP ASP ASP A A 90 90	. 0.1490 0.1293 0.1350 -0.0009 0.0185	
0.0105	1	.			
684	O	O	. ASP ASP ASP A A 90 90	. 0.1290 0.1177 0.1458 0.0016 0.0098	-
0.0008	1	.			
685	N	N	. ASN ASN ASN A A 91 91	. 0.1601 0.1185 0.1388 -0.0161 0.0039	
0.0099	1	.			
686	CA	CA	. ASN ASN ASN A A 91 91	. 0.1883 0.1369 0.1305 -0.0040 0.0100	
0.0093	1	.			
687	CB	CB	. ASN ASN ASN A A 91 91	. 0.2020 0.1405 0.1260 -0.0064 0.0026	
0.0334	1	.			
688	CG	CG	. ASN ASN ASN A A 91 91	. 0.2225 0.2572 0.2194 0.0043 -0.0208	
0.0026	1	.			
689	OD1	OD1	. ASN ASN ASN A A 91 91	. 0.3820 0.3401 0.2349 -0.0938 0.0220	-
0.0002	1	.			
690	ND2	ND2	. ASN ASN ASN A A 91 91	. 0.2847 0.4099 0.2906 0.0432 0.0094	
0.0310	1	.			
691	C	C	. ASN ASN ASN A A 91 91	. 0.1604 0.1191 0.1348 -0.0084 -0.0019	
0.0164	1	.			
692	O	O	. ASN ASN ASN A A 91 91	. 0.1698 0.1347 0.1398 -0.0168 0.0168	
0.0138	1	.			
693	N	N	. LEU LEU LEU A A 92 92	. 0.1560 0.1008 0.1359 -0.0375 0.0096	
0.0143	1	.			
694	CA	CA	. LEU LEU LEU A A 92 92	. 0.1576 0.1437 0.1437 -0.0061 -0.0022	
0.0066	1	.			
695	CB	CB	. LEU LEU LEU A A 92 92	. 0.1532 0.1843 0.2021 0.0115 0.0001	
0.0054	1	.			
696	CG	CG	. LEU LEU LEU A A 92 92	. 0.2460 0.2081 0.2439 0.0158 -0.0387	
0.0215	1	.			
697	CD1	CD1	. LEU LEU LEU A A 92 92	. 0.3380 0.2405 0.3773 -0.0034 -0.0234	
0.0913	1	.			
698	CD2	CD2	. LEU LEU LEU A A 92 92	. 0.2124 0.2364 0.3132 -0.0103 -0.0960	
0.0568	1	.			
699	C	C	. LEU LEU LEU A A 92 92	. 0.1510 0.1212 0.1533 -0.0073 -0.0003	
0.0131	1	.			
700	O	O	. LEU LEU LEU A A 92 92	. 0.1423 0.1221 0.1496 -0.0070 -0.0057	-
0.0009	1	.			
701	N	N	. MET MET MET A A 93 93	. 0.1215 0.0986 0.1165 -0.0263 -0.0069	-
0.0029	1	.			
702	CA	CA	. MET MET MET A A 93 93	. 0.1273 0.1004 0.1250 -0.0033 0.0114	
0.0088	1	.			
703	CB	CB	. MET MET MET A A 93 93	. 0.1107 0.0947 0.1427 0.0265 0.0202	
0.0084	1	.			
704	CG	CG	. MET MET MET A A 93 93	. 0.1378 0.0909 0.1265 -0.0143 -0.0106	
0.0323	1	.			
705	SD	SD	. MET MET MET A A 93 93	. 0.1484 0.1093 0.1160 0.0078 0.0027	
0.0059	1	.			
706	CE	CE	. MET MET MET A A 93 93	. 0.1684 0.1493 0.0913 -0.0005 -0.0110	-
0.0095	1	.			
707	C	C	. MET MET MET A A 93 93	. 0.1235 0.1025 0.1350 -0.0072 0.0139	
0.0114	1	.			
708	O	O	. MET MET MET A A 93 93	. 0.1288 0.0856 0.1121 -0.0031 0.0149	-
0.0027	1	.			
709	N	N	. LEU LEU LEU A A 94 94	. 0.1202 0.1189 0.1299 -0.0098 0.0029	
0.0149	1	.			
710	CA	CA	. LEU LEU LEU A A 94 94	. 0.1248 0.0845 0.1322 -0.0111 -0.0150	-
0.0125	1	.			
711	CB	CB	. LEU LEU LEU A A 94 94	. 0.1439 0.1258 0.1311 -0.0265 -0.0134	-
0.0047	1	.			
712	CG	CG	. LEU LEU LEU A A 94 94	. 0.2263 0.1618 0.1664 -0.0346 -0.0033	-
0.0323	1	.			

713	CD1	CD1	. LEU LEU LEU A A 94 94	. 0.3501 0.2383 0.1588 -0.0621 0.0197 -
0.0294	1	.		
714	CD2	CD2	. LEU LEU LEU A A 94 94	. 0.3059 0.1553 0.2674 -0.0633 0.0690 -
0.0350	1	.		
715	C	C	. LEU LEU LEU A A 94 94	. 0.1185 0.1076 0.1460 -0.0002 -0.0119
0.0076	1	.		
716	O	O	. LEU LEU LEU A A 94 94	. 0.1352 0.1091 0.1663 -0.0017 -0.0071
0.0052	1	.		
717	N	N	. GLU GLU GLU A A 95 95	. 0.1585 0.1158 0.1293 -0.0024 -0.0155
0.0001	1	.		
718	CA	CA	. GLU GLU GLU A A 95 95	. 0.1595 0.1380 0.1726 0.0184 -0.0078
0.0170	1	.		
719	CB	CB	. GLU GLU GLU A A 95 95	. 0.2292 0.1750 0.2065 0.0081 -0.0006
0.0008	1	.		
720	CG	CG	. GLU GLU GLU A A 95 95	. 0.3194 0.2038 0.2457 -0.0094 -0.0564 -
0.0157	1	.		
721	CD	CD	. GLU GLU GLU A A 95 95	. 0.4688 0.3791 0.4989 0.0381 -0.0903 -
0.0408	1	.		
722	OE1	OE1	. GLU GLU GLU A A 95 95	. 0.5947 0.4088 0.6278 0.0908 -0.0093 -
0.0839	1	.		
723	OE2	OE2	. GLU GLU GLU A A 95 95	. 0.6066 0.4903 0.5689 0.0328 -0.1103 -
0.0892	1	.		
724	C	C	. GLU GLU GLU A A 95 95	. 0.1380 0.1308 0.1590 0.0064 -0.0050
0.0185	1	.		
725	O	O	. GLU GLU GLU A A 95 95	. 0.1608 0.1460 0.2007 -0.0042 -0.0071
0.0232	1	.		
726	N	N	. LEU LEU LEU A A 96 96	. 0.1285 0.1023 0.1204 -0.0280 -0.0162
0.0017	1	.		
727	CA	CA	. LEU LEU LEU A A 96 96	. 0.1469 0.1364 0.1625 0.0004 -0.0138 -
0.0127	1	.		
728	CB	CB	. LEU LEU LEU A A 96 96	. 0.1225 0.1323 0.1482 0.0194 -0.0319
0.0027	1	.		
729	CG	CG	. LEU LEU LEU A A 96 96	. 0.1680 0.0903 0.1687 0.0151 0.0116
0.0185	1	.		
730	CD1	CD1	. LEU LEU LEU A A 96 96	. 0.1449 0.0779 0.1745 -0.0171 0.0073 -
0.0041	1	.		
731	CD2	CD2	. LEU LEU LEU A A 96 96	. 0.2050 0.1696 0.1346 0.0141 -0.0268
0.0355	1	.		
732	C	C	. LEU LEU LEU A A 96 96	. 0.1672 0.1331 0.1357 -0.0055 0.0074 -
0.0195	1	.		
733	O	O	. LEU LEU LEU A A 96 96	. 0.1628 0.1254 0.1821 -0.0040 0.0116 -
0.0271	1	.		
734	N	N	. ASP ASP ASP A A 97 97	. 0.1393 0.1263 0.1343 -0.0219 -0.0159
0.0140	1	.		
735	CA	CA	. ASP ASP ASP A A 97 97	. 0.1290 0.0882 0.1332 -0.0092 -0.0117 -
0.0035	1	.		
736	CB	CB	. ASP ASP ASP A A 97 97	. 0.1253 0.0898 0.1551 -0.0080 -0.0071
0.0095	1	.		
737	CG	CG	. ASP ASP ASP A A 97 97	. 0.1184 0.0910 0.1233 0.0166 0.0080 -
0.0025	1	.		
738	OD1	OD1	. ASP ASP ASP A A 97 97	. 0.1428 0.1238 0.1365 -0.0170 0.0010
0.0041	1	.		
739	OD2	OD2	. ASP ASP ASP A A 97 97	. 0.1467 0.1367 0.1277 -0.0120 -0.0105
0.0085	1	.		
740	C	C	. ASP ASP ASP A A 97 97	. 0.1424 0.1318 0.1460 -0.0032 -0.0150 -
0.0109	1	.		
741	O	O	. ASP ASP ASP A A 97 97	. 0.1598 0.1568 0.2017 0.0216 -0.0333 -
0.0136	1	.		
742	N	N	. GLY GLY GLY A A 98 98	. 0.1566 0.1015 0.1533 0.0003 -0.0195
0.0272	1	.		



743	CA	CA	. GLY GLY GLY A A 98 98 .	0.1485	0.1156	0.1993	-0.0011	-0.0293	
0.0368	1	.							
744	C	C	. GLY GLY GLY A A 98 98 .	0.1720	0.1576	0.2103	0.0007	-0.0376	
0.0314	1	.							
745	O	O	. GLY GLY GLY A A 98 98 .	0.1993	0.1503	0.2539	-0.0023	-0.0453	
0.0601	1	.							
746	N	N	. THR THR THR A A 99 99 .	0.1675	0.1635	0.1691	0.0033	-0.0211	
0.0293	1	.							
747	CA	CA	. THR THR THR A A 99 99 .	0.1872	0.1582	0.1893	-0.0017	-0.0196	
0.0204	1	.							
748	CB	CB	. THR THR THR A A 99 99 .	0.1529	0.1197	0.1882	0.0279	0.0000	-
0.0022	1	.							
749	OG1	OG1	. THR THR THR A A 99 99 .	0.1773	0.1493	0.1906	0.0205	0.0155	
0.0605	1	.							
750	CG2	CG2	. THR THR THR A A 99 99 .	0.1820	0.2055	0.1700	0.0022	-0.0173	-
0.0356	1	.							
751	C	C	. THR THR THR A A 99 99 .	0.1773	0.1738	0.1821	0.0146	-0.0124	
0.0157	1	.							
752	O	O	. THR THR THR A A 99 99 .	0.2014	0.1866	0.2346	0.0293	-0.0012	-
0.0031	1	.							
753	N	N	. GLU GLU GLU A A 100 100 .	0.2085	0.1535	0.1767	-0.0007	-0.0168	
0.0221	1	.							
754	CA	CA	. GLU GLU GLU A A 100 100 .	0.2215	0.1540	0.2001	-0.0064	-0.0310	-
0.0010	1	.							
755	CB	CB	. GLU GLU GLU A A 100 100 .	0.2730	0.2050	0.2588	0.0038	-0.0361	
0.0106	1	.							
756	CG	CG	. GLU GLU GLU A A 100 100 .	0.3961	0.2900	0.3375	-0.0004	-0.0439	-
0.0163	1	.							
757	CD	CD	. GLU GLU GLU A A 100 100 .	0.5635	0.4758	0.4680	0.0208	0.0227	
0.0135	1	.							
758	OE1	OE1	. GLU GLU GLU A A 100 100 .	0.6460	0.4728	0.5531	0.0010	-0.0254	
0.0624	1	.							
759	OE2	OE2	. GLU GLU GLU A A 100 100 .	0.6960	0.5509	0.5728	0.0764	0.0308	-
0.0107	1	.							
760	C	C	. GLU GLU GLU A A 100 100 .	0.1865	0.1614	0.1870	0.0052	-0.0149	
0.0102	1	.							
761	O	O	. GLU GLU GLU A A 100 100 .	0.2421	0.1598	0.2011	0.0026	0.0051	
0.0096	1	.							
762	N	N	. ASN ASN ASN A A 101 101 .	0.1373	0.1363	0.1609	0.0053	-0.0396	
0.0161	1	.							
763	CA	CA	. ASN ASN ASN A A 101 101 .	0.1376	0.1508	0.1580	0.0138	-0.0246	
0.0199	1	.							
764	CB	CB	. ASN ASN ASN A A 101 101 .	0.1747	0.1932	0.2463	0.0011	-0.0205	
0.0408	1	.							
765	CG	CG	. ASN ASN ASN A A 101 101 .	0.2900	0.3458	0.3109	-0.0222	-0.0086	-
0.0174	1	.							
766	OD1	OD1	. ASN ASN ASN A A 101 101 .	0.4594	0.5087	0.4524	-0.0649	0.0032	
0.0151	1	.							
767	ND2	ND2	. ASN ASN ASN A A 101 101 .	0.2964	0.4470	0.3701	-0.1051	0.0340	-
0.0882	1	.							
768	C	C	. ASN ASN ASN A A 101 101 .	0.1398	0.1233	0.1291	-0.0037	-0.0126	
0.0145	1	.							
769	O	O	. ASN ASN ASN A A 101 101 .	0.1617	0.1193	0.1563	-0.0121	-0.0007	
0.0218	1	.							
770	N	N	. LYS LYS LYS A A 102 102 .	0.1145	0.1326	0.1165	0.0029	-0.0054	
0.0051	1	.							
771	CA	CA	. LYS LYS LYS A A 102 102 .	0.1487	0.1294	0.1373	0.0077	-0.0071	-
0.0034	1	.							
772	CB	CB	. LYS LYS LYS A A 102 102 .	0.1612	0.1135	0.1346	0.0082	0.0184	
0.0197	1	.							

773	CG	CG	. LYS LYS LYS A A 102 102 .	0.1379	0.0879	0.1275	0.0143	-0.0036	-
0.0040	1	.							
774	CD	CD	. LYS LYS LYS A A 102 102 .	0.1829	0.1348	0.1744	0.0234	0.0159	-
0.0118	1	.							
775	CE	CE	. LYS LYS LYS A A 102 102 .	0.1819	0.1449	0.1613	-0.0269	-0.0022	
0.0182	1	.							
776	NZ	NZ	. LYS LYS LYS A A 102 102 .	0.1286	0.1333	0.1220	-0.0346	0.0079	
0.0074	1	.							
777	C	C	. LYS LYS LYS A A 102 102 .	0.1399	0.1315	0.1448	0.0064	0.0078	
0.0106	1	.							
778	O	O	. LYS LYS LYS A A 102 102 .	0.1432	0.1387	0.1363	0.0124	-0.0043	
0.0022	1	.							
779	N	N	. SER SER SER A A 103 103 .	0.1234	0.1053	0.1352	0.0120	-0.0029	-
0.0113	1	.							
780	CA	CA	. SER SER SER A A 103 103 .	0.1447	0.1496	0.1607	-0.0001	0.0085	
0.0013	1	.							
781	CB	CB	. SER SER SER A A 103 103 .	0.1388	0.1772	0.1727	0.0002	-0.0132	-
0.0053	1	.							
782	OG	OG	. SER SER SER A A 103 103 .	0.1606	0.1770	0.2647	0.0446	0.0091	
0.0439	1	.							
783	C	C	. SER SER SER A A 103 103 .	0.1493	0.1620	0.1632	0.0047	0.0140	-
0.0276	1	.							
784	O	O	. SER SER SER A A 103 103 .	0.2188	0.1972	0.1840	-0.0129	0.0221	-
0.0242	1	.							
785	N	N	. LYS LYS LYS A A 104 104 .	0.1613	0.1186	0.1402	0.0049	0.0008	-
0.0279	1	.							
786	CA	CA	. LYS LYS LYS A A 104 104 .	0.1601	0.1494	0.1534	0.0287	-0.0224	-
0.0164	1	.							
787	CB	CB	. LYS LYS LYS A A 104 104 .	0.1832	0.1502	0.1436	0.0194	-0.0108	-
0.0359	1	.							
788	CG	CG	. LYS LYS LYS A A 104 104 .	0.1893	0.1682	0.2096	0.0036	-0.0643	-
0.0301	1	.							
789	CD	CD	. LYS LYS LYS A A 104 104 .	0.2379	0.2148	0.2916	-0.0289	-0.0829	-
0.0220	1	.							
790	CE	CE	. LYS LYS LYS A A 104 104 .	0.2888	0.2731	0.3445	-0.0652	-0.0916	
0.0080	1	.							
791	NZ	NZ	. LYS LYS LYS A A 104 104 .	0.3275	0.3013	0.3704	-0.1053	-0.0117	-
0.0128	1	.							
792	C	C	. LYS LYS LYS A A 104 104 .	0.1663	0.1593	0.1438	0.0367	-0.0038	-
0.0036	1	.							
793	O	O	. LYS LYS LYS A A 104 104 .	0.2114	0.1930	0.1602	0.0501	-0.0015	
0.0022	1	.							
794	N	N	. PHE PHE PHE A A 105 105 .	0.1537	0.1042	0.1118	0.0285	0.0057	-
0.0105	1	.							
795	CA	CA	. PHE PHE PHE A A 105 105 .	0.1172	0.1143	0.1205	0.0018	0.0036	
0.0002	1	.							
796	CB	CB	. PHE PHE PHE A A 105 105 .	0.1271	0.1409	0.1669	-0.0011	0.0139	
0.0011	1	.							
797	CG	CG	. PHE PHE PHE A A 105 105 .	0.1281	0.1126	0.1200	-0.0176	-0.0176	-
0.0022	1	.							
798	CD1	CD1	. PHE PHE PHE A A 105 105 .	0.1458	0.1220	0.1625	-0.0026	-0.0267	
0.0239	1	.							
799	CE1	CE1	. PHE PHE PHE A A 105 105 .	0.1084	0.1263	0.1546	-0.0064	0.0032	
0.0126	1	.							
800	CZ	CZ	. PHE PHE PHE A A 105 105 .	0.1655	0.1532	0.1629	-0.0060	-0.0055	-
0.0185	1	.							
801	CE2	CE2	. PHE PHE PHE A A 105 105 .	0.1909	0.1357	0.1545	-0.0283	-0.0202	-
0.0141	1	.							
802	CD2	CD2	. PHE PHE PHE A A 105 105 .	0.1647	0.1504	0.1469	-0.0114	-0.0376	
0.0158	1	.							

803	C	C	. PHE PHE PHE A A 105 105 .	0.1210	0.1110	0.1208	0.0089	0.0053	-
0.0103	1	.							
804	O	O	. PHE PHE PHE A A 105 105 .	0.1168	0.1311	0.1258	0.0135	-0.0043	-
0.0108	1	.							
805	N	N	. GLY GLY GLY A A 106 106 .	0.1181	0.1007	0.1419	0.0088	-0.0080	-
0.0089	1	.							
806	CA	CA	. GLY GLY GLY A A 106 106 .	0.1226	0.0971	0.1282	0.0116	0.0216	-
0.0146	1	.							
807	C	C	. GLY GLY GLY A A 106 106 .	0.1209	0.1139	0.1235	0.0052	0.0071	
0.0106	1	.							
808	O	O	. GLY GLY GLY A A 106 106 .	0.1086	0.1028	0.1152	0.0078	0.0050	
0.0291	1	.							
809	N	N	. ALA ALA ALA A A 107 107 .	0.1156	0.0869	0.0802	-0.0056	0.0142	
0.0062	1	.							
810	CA	CA	. ALA ALA ALA A A 107 107 .	0.1002	0.0858	0.1114	0.0048	0.0024	
0.0090	1	.							
811	CB	CB	. ALA ALA ALA A A 107 107 .	0.1188	0.1427	0.1184	0.0100	-0.0271	-
0.0149	1	.							
812	C	C	. ALA ALA ALA A A 107 107 .	0.1080	0.1099	0.1256	0.0009	-0.0009	
0.0023	1	.							
813	O	O	. ALA ALA ALA A A 107 107 .	0.1236	0.1140	0.1129	0.0080	0.0139	
0.0075	1	.							
814	N	N	. ASN ASN ASN A A 108 108 .	0.1293	0.0871	0.1106	0.0074	-0.0018	-
0.0060	1	.							
815	CA	CA	. ASN ASN ASN A A 108 108 .	0.0889	0.0858	0.1143	0.0055	0.0117	
0.0024	1	.							
816	CB	CB	. ASN ASN ASN A A 108 108 .	0.1119	0.0940	0.0968	0.0200	0.0387	-
0.0054	1	.							
817	CG	CG	. ASN ASN ASN A A 108 108 .	0.0919	0.0925	0.1023	-0.0022	0.0202	
0.0100	1	.							
818	OD1	OD1	. ASN ASN ASN A A 108 108 .	0.1226	0.1089	0.1124	0.0156	0.0239	
0.0080	1	.							
819	ND2	ND2	. ASN ASN ASN A A 108 108 .	0.1069	0.1338	0.0997	-0.0149	-0.0069	
0.0022	1	.							
820	C	C	. ASN ASN ASN A A 108 108 .	0.1168	0.0967	0.1149	0.0074	0.0101	
0.0055	1	.							
821	O	O	. ASN ASN ASN A A 108 108 .	0.1011	0.1123	0.1438	0.0038	-0.0034	
0.0106	1	.							
822	N	N	. ALA ALA ALA A A 109 109 .	0.1088	0.0963	0.0932	-0.0001	-0.0058	-
0.0157	1	.							
823	CA	CA	. ALA ALA ALA A A 109 109 .	0.0872	0.0865	0.0927	0.0004	-0.0042	-
0.0025	1	.							
824	CB	CB	. ALA ALA ALA A A 109 109 .	0.1132	0.0952	0.1373	0.0203	0.0080	-
0.0036	1	.							
825	C	C	. ALA ALA ALA A A 109 109 .	0.1062	0.0884	0.1159	0.0136	-0.0127	-
0.0027	1	.							
826	O	O	. ALA ALA ALA A A 109 109 .	0.1038	0.1190	0.1112	0.0072	0.0055	
0.0036	1	.							
827	N	N	. ILE ILE ILE A A 110 110 .	0.0979	0.0973	0.0977	0.0133	0.0083	
0.0200	1	.							
828	CA	CA	. ILE ILE ILE A A 110 110 .	0.1090	0.0872	0.0978	0.0024	0.0111	-
0.0029	1	.							
829	CB	CB	. ILE ILE ILE A A 110 110 .	0.1085	0.0748	0.1006	0.0107	0.0115	
0.0040	1	.							
830	CG1	CG1	. ILE ILE ILE A A 110 110 .	0.1386	0.0997	0.0999	0.0030	-0.0387	-
0.0198	1	.							
831	CD	CD	. ILE ILE ILE A A 110 110 .	0.1557	0.1101	0.1682	0.0209	-0.0717	-
0.0066	1	.							
832	CG2	CG2	. ILE ILE ILE A A 110 110 .	0.1156	0.1460	0.1151	-0.0110	0.0054	
0.0063	1	.							

833	C	C	. ILE ILE ILE A A 110 110 .	0.0732	0.0753	0.0870	-0.0066	0.0165	
0.0065	1	.							
834	O	O	. ILE ILE ILE A A 110 110 .	0.0912	0.0989	0.1086	0.0034	0.0058	
0.0075	1	.							
835	N	N	. LEU LEU LEU A A 111 111 .	0.0936	0.0706	0.0994	-0.0032	0.0003	-
0.0067	1	.							
836	CA	CA	. LEU LEU LEU A A 111 111 .	0.0968	0.0805	0.1159	-0.0012	-0.0038	-
0.0097	1	.							
837	CB	CB	. LEU LEU LEU A A 111 111 .	0.1025	0.0725	0.1096	-0.0152	0.0078	-
0.0150	1	.							
838	CG	CG	. LEU LEU LEU A A 111 111 .	0.0965	0.1051	0.1106	0.0094	0.0161	-
0.0034	1	.							
839	CD1	CD1	. LEU LEU LEU A A 111 111 .	0.1087	0.1225	0.1193	0.0203	0.0432	-
0.0294	1	.							
840	CD2	CD2	. LEU LEU LEU A A 111 111 .	0.1232	0.1207	0.1612	-0.0289	-0.0137	-
0.0213	1	.							
841	C	C	. LEU LEU LEU A A 111 111 .	0.0891	0.0879	0.0991	-0.0168	0.0034	
0.0072	1	.							
842	O	O	. LEU LEU LEU A A 111 111 .	0.0985	0.0929	0.1065	-0.0163	0.0021	-
0.0093	1	.							
843	N	N	. GLY GLY GLY A A 112 112 .	0.0920	0.0788	0.0878	-0.0192	-0.0138	
0.0044	1	.							
844	CA	CA	. GLY GLY GLY A A 112 112 .	0.0620	0.0973	0.1229	0.0026	0.0043	
0.0167	1	.							
845	C	C	. GLY GLY GLY A A 112 112 .	0.0789	0.0670	0.1023	-0.0093	-0.0082	-
0.0066	1	.							
846	O	O	. GLY GLY GLY A A 112 112 .	0.1116	0.0930	0.0929	0.0039	0.0091	
0.0159	1	.							
847	N	N	. VAL VAL VAL A A 113 113 .	0.1177	0.0831	0.1087	-0.0220	-0.0096	-
0.0112	1	.							
848	CA	CA	. VAL VAL VAL A A 113 113 .	0.1017	0.0827	0.0954	0.0074	0.0147	-
0.0119	1	.							
849	CB	CB	. VAL VAL VAL A A 113 113 .	0.1247	0.0779	0.1015	-0.0100	0.0254	-
0.0151	1	.							
850	CG1	CG1	. VAL VAL VAL A A 113 113 .	0.1099	0.0847	0.1181	-0.0188	0.0000	
0.0089	1	.							
851	CG2	CG2	. VAL VAL VAL A A 113 113 .	0.1103	0.1133	0.1131	0.0094	0.0018	-
0.0312	1	.							
852	C	C	. VAL VAL VAL A A 113 113 .	0.1073	0.0801	0.0874	-0.0089	-0.0009	
0.0054	1	.							
853	O	O	. VAL VAL VAL A A 113 113 .	0.1243	0.1078	0.1037	-0.0104	0.0075	
0.0004	1	.							
854	N	N	. SER SER SER A A 114 114 .	0.1033	0.0842	0.0869	-0.0244	0.0105	
0.0010	1	.							
855	CA	CA	. SER SER SER A A 114 114 .	0.0830	0.0728	0.0854	0.0040	0.0097	-
0.0052	1	.							
856	CB	CB	. SER SER SER A A 114 114 .	0.1024	0.1206	0.0838	-0.0118	-0.0107	-
0.0103	1	.							
857	OG	OG	. SER SER SER A A 114 114 .	0.1406	0.1254	0.1115	0.0053	0.0169	
0.0036	1	.							
858	C	C	. SER SER SER A A 114 114 .	0.1087	0.0950	0.1102	0.0018	0.0095	
0.0070	1	.							
859	O	O	. SER SER SER A A 114 114 .	0.0956	0.0909	0.1221	-0.0050	0.0208	
0.0062	1	.							
860	N	N	. LEU LEU LEU A A 115 115 .	0.1045	0.1018	0.0892	-0.0004	0.0024	-
0.0064	1	.							
861	CA	CA	. LEU LEU LEU A A 115 115 .	0.1069	0.0867	0.0794	-0.0135	-0.0015	
0.0123	1	.							
862	CB	CB	. LEU LEU LEU A A 115 115 .	0.1005	0.1208	0.1046	-0.0146	-0.0025	
0.0130	1	.							

863	CG	CG	. LEU LEU LEU A A 115 115 .	0.0656	0.1039	0.0765	-0.0123	0.0058	-
0.0101	1	.							
864	CD1	CD1	. LEU LEU LEU A A 115 115 .	0.0997	0.1189	0.1177	-0.0238	0.0123	
0.0498	1	.							
865	CD2	CD2	. LEU LEU LEU A A 115 115 .	0.1185	0.1197	0.1496	0.0046	-0.0068	-
0.0424	1	.							
866	C	C	. LEU LEU LEU A A 115 115 .	0.0749	0.0699	0.0910	-0.0093	0.0097	-
0.0006	1	.							
867	O	O	. LEU LEU LEU A A 115 115 .	0.1122	0.0879	0.1156	-0.0051	0.0013	-
0.0127	1	.							
868	N	N	. ALA ALA ALA A A 116 116 .	0.1046	0.1211	0.0900	-0.0099	0.0016	
0.0152	1	.							
869	CA	CA	. ALA ALA ALA A A 116 116 .	0.0859	0.1088	0.0958	-0.0034	0.0094	-
0.0151	1	.							
870	CB	CB	. ALA ALA ALA A A 116 116 .	0.0986	0.1087	0.1048	0.0072	0.0085	-
0.0242	1	.							
871	C	C	. ALA ALA ALA A A 116 116 .	0.1052	0.0976	0.0759	0.0017	0.0011	
0.0028	1	.							
872	O	O	. ALA ALA ALA A A 116 116 .	0.1069	0.1066	0.1064	-0.0108	0.0028	-
0.0083	1	.							
873	N	N	. VAL VAL VAL A A 117 117 .	0.1032	0.0985	0.1135	-0.0215	0.0117	-
0.0010	1	.							
874	CA	CA	. VAL VAL VAL A A 117 117 .	0.1111	0.1026	0.0917	-0.0164	0.0159	
0.0055	1	.							
875	CB	CB	. VAL VAL VAL A A 117 117 .	0.0965	0.0934	0.1209	-0.0291	0.0093	
0.0044	1	.							
876	CG1	CG1	. VAL VAL VAL A A 117 117 .	0.1523	0.1506	0.1246	-0.0321	0.0227	
0.0106	1	.							
877	CG2	CG2	. VAL VAL VAL A A 117 117 .	0.1311	0.0963	0.1056	0.0126	0.0284	
0.0049	1	.							
878	C	C	. VAL VAL VAL A A 117 117 .	0.1031	0.1043	0.0953	-0.0171	0.0108	
0.0137	1	.							
879	O	O	. VAL VAL VAL A A 117 117 .	0.1176	0.1257	0.1257	-0.0098	0.0065	
0.0048	1	.							
880	N	N	. CYS CYS CYS A A 118 118 .	0.1146	0.0904	0.1051	-0.0233	0.0099	-
0.0021	1	.							
881	CA	CA	. CYS CYS CYS A A 118 118 .	0.1024	0.0935	0.1014	-0.0092	0.0059	
0.0000	1	.							
882	CB	CB	. CYS CYS CYS A A 118 118 .	0.1233	0.1017	0.0919	-0.0349	-0.0019	-
0.0120	1	.							
883	SG	SG	. CYS CYS CYS A A 118 118 .	0.1341	0.1305	0.1239	0.0032	0.0152	-
0.0020	1	.							
884	C	C	. CYS CYS CYS A A 118 118 .	0.1084	0.1048	0.1012	-0.0087	0.0010	-
0.0135	1	.							
885	O	O	. CYS CYS CYS A A 118 118 .	0.1146	0.1038	0.1240	0.0028	0.0251	
0.0027	1	.							
886	N	N	. LYS LYS LYS A A 119 119 .	0.1017	0.0989	0.1045	-0.0214	-0.0035	
0.0058	1	.							
887	CA	CA	. LYS LYS LYS A A 119 119 .	0.0891	0.1267	0.1176	-0.0066	-0.0029	
0.0189	1	.							
888	CB	CB	. LYS LYS LYS A A 119 119 .	0.1021	0.1367	0.1240	-0.0132	0.0035	
0.0033	1	.							
889	CG	CG	. LYS LYS LYS A A 119 119 .	0.1075	0.1697	0.1361	-0.0120	-0.0014	-
0.0019	1	.							
890	CD	CD	. LYS LYS LYS A A 119 119 .	0.1097	0.1352	0.1078	-0.0067	0.0302	
0.0062	1	.							
891	CE	CE	. LYS LYS LYS A A 119 119 .	0.1637	0.2089	0.1441	-0.0427	0.0583	
0.0131	1	.							
892	NZ	NZ	. LYS LYS LYS A A 119 119 .	0.1926	0.1514	0.1614	-0.0453	0.0611	-
0.0061	1	.							

893	C	C	. LYS LYS LYS A A	119 119	. 0.1178 0.1022 0.1187 -0.0185 0.0030	-
0.0201	1	.				
894	O	O	. LYS LYS LYS A A	119 119	. 0.1276 0.1285 0.1293 -0.0095 0.0067	-
0.0167	1	.				
895	N	N	. ALA ALA ALA A A	120 120	. 0.1024 0.0964 0.1030 -0.0322 0.0007	-
0.0241	1	.				
896	CA	CA	. ALA ALA ALA A A	120 120	. 0.1170 0.1281 0.1222 -0.0093 0.0137	-
0.0205	1	.				
897	CB	CB	. ALA ALA ALA A A	120 120	. 0.1254 0.0981 0.1281 -0.0150 0.0126	-
0.0386	1	.				
898	C	C	. ALA ALA ALA A A	120 120	. 0.1120 0.1191 0.1433 -0.0166 0.0128	-
0.0063	1	.				
899	O	O	. ALA ALA ALA A A	120 120	. 0.1004 0.1387 0.1578 -0.0209 0.0257	-
0.0165	1	.				
900	N	N	. GLY GLY GLY A A	121 121	. 0.1220 0.1192 0.1105 -0.0118 0.0301	-
0.0147	1	.				
901	CA	CA	. GLY GLY GLY A A	121 121	. 0.1458 0.1216 0.1113 -0.0006 0.0306	-
0.0035	1	.				
902	C	C	. GLY GLY GLY A A	121 121	. 0.1528 0.1178 0.1312 -0.0127 0.0430	-
0.0008	1	.				
903	O	O	. GLY GLY GLY A A	121 121	. 0.1498 0.1459 0.1484 -0.0286 0.0267	-
0.0093	1	.				
904	N	N	. ALA ALA ALA A A	122 122	. 0.1114 0.1063 0.1253 -0.0122 0.0246	-
0.0096	1	.				
905	CA	CA	. ALA ALA ALA A A	122 122	. 0.1119 0.1009 0.1420 -0.0108 0.0281	-
0.0118	1	.				
906	CB	CB	. ALA ALA ALA A A	122 122	. 0.1273 0.0987 0.1431 -0.0316 0.0073	-
0.0280	1	.				
907	C	C	. ALA ALA ALA A A	122 122	. 0.1193 0.1365 0.1271 0.0115 0.0235	-
0.0132	1	.				
908	O	O	. ALA ALA ALA A A	122 122	. 0.1058 0.1357 0.1742 -0.0008 0.0458	-
0.0322	1	.				
909	N	N	. ALA ALA ALA A A	123 123	. 0.1052 0.1323 0.1228 -0.0108 -0.0124	-
0.0027	1	.				
910	CA	CA	. ALA ALA ALA A A	123 123	. 0.0964 0.1497 0.1322 -0.0097 -0.0033	-
0.0093	1	.				
911	CB	CB	. ALA ALA ALA A A	123 123	. 0.1140 0.1722 0.1270 -0.0007 0.0051	-
0.0203	1	.				
912	C	C	. ALA ALA ALA A A	123 123	. 0.1210 0.1411 0.1688 -0.0063 0.0035	-
0.0108	1	.				
913	O	O	. ALA ALA ALA A A	123 123	. 0.1408 0.1647 0.2150 0.0282 -0.0033	-
0.0505	1	.				
914	N	N	. GLU GLU GLU A A	124 124	. 0.1223 0.1246 0.1781 -0.0034 0.0213	-
0.0104	1	.				
915	CA	CA	. GLU GLU GLU A A	124 124	. 0.1301 0.1447 0.1634 -0.0226 0.0281	-
0.0160	1	.				
916	CB	CB	. GLU GLU GLU A A	124 124	. 0.1488 0.1336 0.1894 -0.0284 0.0428	-
0.0037	1	.				
917	CG	CG	. GLU GLU GLU A A	124 124	. 0.1672 0.1825 0.2085 -0.0406 0.0588	-
0.0236	1	.				
918	CD	CD	. GLU GLU GLU A A	124 124	. 0.2636 0.2804 0.2245 -0.0958 0.0171	-
0.0107	1	.				
919	OE1	OE1	. GLU GLU GLU A A	124 124	. 0.2572 0.2499 0.3056 -0.1001 0.0301	-
0.0143	1	.				
920	OE2	OE2	. GLU GLU GLU A A	124 124	. 0.2732 0.4171 0.4026 -0.0867 0.0464	-
0.0015	1	.				
921	C	C	. GLU GLU GLU A A	124 124	. 0.1560 0.1711 0.1855 -0.0489 0.0391	-
0.0204	1	.				
922	O	O	. GLU GLU GLU A A	124 124	. 0.1327 0.2062 0.2331 -0.0460 0.0345	-
0.0479	1	.				

923	N	N	. ARG ARG ARG A A 125 125 .	0.1407	0.1924	0.1733	-0.0513	0.0261	-
0.0342	1	.							
924	CA	CA	. ARG ARG ARG A A 125 125 .	0.1746	0.1980	0.1885	-0.0392	0.0173	-
0.0165	1	.							
925	CB	CB	. ARG ARG ARG A A 125 125 .	0.1920	0.2147	0.2267	-0.0412	0.0172	-
0.0158	1	.							
926	CG	CG	. ARG ARG ARG A A 125 125 .	0.2220	0.2465	0.2503	-0.0026	0.0079	-
0.0149	1	.							
927	CD	CD	. ARG ARG ARG A A 125 125 .	0.3876	0.2894	0.3755	0.0130	-0.2037	-
0.0582	1	.							
928	NE	NE	. ARG ARG ARG A A 125 125 .	0.5488	0.6179	0.6686	0.0947	-0.0910	-
0.0366	1	.							
929	CZ	CZ	. ARG ARG ARG A A 125 125 .	0.6666	0.6554	0.7848	0.0605	-0.0680	-
0.0011	1	.							
930	NH1	NH1	. ARG ARG ARG A A 125 125 .	0.6551	0.7483	0.8494	0.0664	-0.0655	-
0.0024	1	.							
931	NH2	NH2	. ARG ARG ARG A A 125 125 .	0.6818	0.7261	0.8470	0.0261	-0.0515	-
0.0456	1	.							
932	C	C	. ARG ARG ARG A A 125 125 .	0.1532	0.2247	0.2187	-0.0264	0.0301	-
0.0318	1	.							
933	O	O	. ARG ARG ARG A A 125 125 .	0.1869	0.2463	0.2035	-0.0145	0.0435	-
0.0608	1	.							
934	N	N	. GLU GLU GLU A A 126 126 .	0.1488	0.2147	0.2338	-0.0197	0.0048	-
0.0518	1	.							
935	CA	CA	. GLU GLU GLU A A 126 126 .	0.1553	0.2490	0.2721	-0.0118	0.0208	-
0.0463	1	.							
936	CB	CB	. GLU GLU GLU A A 126 126 .	0.1611	0.2691	0.3348	-0.0232	0.0012	-
0.0720	1	.							
937	CG	CG	. GLU GLU GLU A A 126 126 .	0.2825	0.3218	0.3936	-0.0216	0.0007	-
0.0834	1	.							
938	CD	CD	. GLU GLU GLU A A 126 126 .	0.3779	0.4119	0.3930	-0.0297	-0.0031	-
0.0783	1	.							
939	OE1	OE1	. GLU GLU GLU A A 126 126 .	0.3990	0.4310	0.5012	-0.0764	0.0270	-
0.1242	1	.							
940	OE2	OE2	. GLU GLU GLU A A 126 126 .	0.4085	0.3842	0.4046	-0.0660	0.0041	-
0.1074	1	.							
941	C	C	. GLU GLU GLU A A 126 126 .	0.1578	0.2105	0.2516	0.0012	0.0190	-
0.0450	1	.							
942	O	O	. GLU GLU GLU A A 126 126 .	0.1488	0.2098	0.2599	0.0105	0.0237	-
0.0548	1	.							
943	N	N	. LEU LEU LEU A A 127 127 .	0.1221	0.2200	0.2092	-0.0215	0.0217	-
0.0217	1	.							
944	CA	CA	. LEU LEU LEU A A 127 127 .	0.1421	0.1581	0.1660	-0.0203	0.0123	-
0.0066	1	.							
945	CB	CB	. LEU LEU LEU A A 127 127 .	0.1396	0.1713	0.1868	-0.0169	0.0329	-
0.0159	1	.							
946	CG	CG	. LEU LEU LEU A A 127 127 .	0.1830	0.1897	0.1723	-0.0130	0.0588	-
0.0206	1	.							
947	CD1	CD1	. LEU LEU LEU A A 127 127 .	0.2539	0.1809	0.2125	-0.0439	0.0589	-
0.0555	1	.							
948	CD2	CD2	. LEU LEU LEU A A 127 127 .	0.2538	0.1838	0.2000	-0.0170	0.0646	-
0.0092	1	.							
949	C	C	. LEU LEU LEU A A 127 127 .	0.1475	0.1571	0.1522	-0.0031	0.0114	-
0.0093	1	.							
950	O	O	. LEU LEU LEU A A 127 127 .	0.1228	0.1680	0.1662	0.0014	0.0219	-
0.0240	1	.							
951	N	N	. PRO PRO PRO A A 128 128 .	0.1223	0.1524	0.1417	-0.0092	0.0245	-
0.0194	1	.							
952	CA	CA	. PRO PRO PRO A A 128 128 .	0.1152	0.1437	0.1790	-0.0132	0.0146	-
0.0109	1	.							









1043	ND2	ND2	. ASN ASN ASN A A 139 139 .	0.2651	0.3597	0.2032	-0.0696	-0.0017	
0.0117	1	.							
1044	C	C	. ASN ASN ASN A A 139 139 .	0.3746	0.4297	0.3507	0.0047	0.0161	
0.0023	1	.							
1045	O	O	. ASN ASN ASN A A 139 139 .	0.3568	0.4385	0.3180	0.0294	0.0384	-
0.0202	1	.							
1046	N	N	. SER SER SER A A 140 140 .	0.4329	0.4551	0.3954	0.0053	0.0157	-
0.0057	1	.							
1047	CA	CA	. SER SER SER A A 140 140 .	0.4712	0.4869	0.4464	0.0047	0.0126	
0.0080	1	.							
1048	CB	CB	. SER SER SER A A 140 140 .	0.4725	0.4922	0.4642	-0.0047	0.0256	
0.0089	1	.							
1049	OG	OG	. SER SER SER A A 140 140 .	0.5100	0.5323	0.5116	-0.0168	0.0364	
0.0423	1	.							
1050	C	C	. SER SER SER A A 140 140 .	0.4957	0.4964	0.4629	0.0031	0.0047	
0.0105	1	.							
1051	O	O	. SER SER SER A A 140 140 .	0.5229	0.5253	0.4949	0.0131	0.0022	
0.0293	1	.							
1052	N	N	. ASP ASP ASP A A 141 141 .	0.4854	0.4956	0.4877	-0.0008	0.0069	
0.0153	1	.							
1053	CA	CA	. ASP ASP ASP A A 141 141 .	0.4694	0.4886	0.4898	-0.0044	0.0136	
0.0071	1	.							
1054	CB	CB	. ASP ASP ASP A A 141 141 .	0.4933	0.5128	0.5120	-0.0005	0.0139	-
0.0055	1	.							
1055	CG	CG	. ASP ASP ASP A A 141 141 .	0.5606	0.5595	0.6061	0.0346	0.0151	
0.0031	1	.							
1056	OD1	OD1	. ASP ASP ASP A A 141 141 .	0.6090	0.6828	0.7084	0.0565	0.0478	-
0.0124	1	.							
1057	OD2	OD2	. ASP ASP ASP A A 141 141 .	0.5989	0.5961	0.6470	0.0244	0.0239	-
0.0070	1	.							
1058	C	C	. ASP ASP ASP A A 141 141 .	0.4264	0.4598	0.4626	-0.0034	0.0082	
0.0095	1	.							
1059	O	O	. ASP ASP ASP A A 141 141 .	0.4507	0.4853	0.4962	-0.0082	-0.0022	
0.0016	1	.							
1060	N	N	. LEU LEU LEU A A 142 142 .	0.3517	0.3958	0.3880	-0.0211	0.0247	
0.0127	1	.							
1061	CA	CA	. LEU LEU LEU A A 142 142 .	0.2873	0.3093	0.3476	-0.0125	0.0232	
0.0110	1	.							
1062	CB	CB	. LEU LEU LEU A A 142 142 .	0.3027	0.2769	0.3120	-0.0234	0.0606	-
0.0095	1	.							
1063	CG	CG	. LEU LEU LEU A A 142 142 .	0.2918	0.3077	0.3612	-0.0708	0.0205	-
0.0132	1	.							
1064	CD1	CD1	. LEU LEU LEU A A 142 142 .	0.2600	0.2818	0.3020	-0.0436	0.0115	-
0.0955	1	.							
1065	CD2	CD2	. LEU LEU LEU A A 142 142 .	0.3084	0.2600	0.4542	0.0005	0.0515	-
0.0250	1	.							
1066	C	C	. LEU LEU LEU A A 142 142 .	0.2391	0.3001	0.2994	-0.0116	0.0162	
0.0005	1	.							
1067	O	O	. LEU LEU LEU A A 142 142 .	0.2272	0.3060	0.2903	-0.0108	0.0460	
0.0103	1	.							
1068	N	N	. ILE ILE ILE A A 143 143 .	0.2214	0.2600	0.2640	0.0046	0.0177	
0.0269	1	.							
1069	CA	CA	. ILE ILE ILE A A 143 143 .	0.2004	0.2401	0.1963	-0.0085	0.0055	
0.0238	1	.							
1070	CB	CB	. ILE ILE ILE A A 143 143 .	0.2612	0.3161	0.2135	0.0201	0.0154	
0.0355	1	.							
1071	CG1	CG1	. ILE ILE ILE A A 143 143 .	0.3358	0.2840	0.2508	0.0453	-0.0032	
0.0173	1	.							
1072	CD	CD	. ILE ILE ILE A A 143 143 .	0.3589	0.3373	0.2861	-0.0040	-0.0341	
0.0538	1	.							



1103	C	C	. PRO PRO PRO A A 147 147 .	0.1086	0.0871	0.0753	-0.0049	-0.0011	
0.0064	1	.							
1104	O	O	. PRO PRO PRO A A 147 147 .	0.1261	0.1123	0.1124	-0.0034	0.0038	-
0.0091	1	.							
1105	N	N	. ALA ALA ALA A A 148 148 .	0.0832	0.1043	0.0703	-0.0036	0.0132	-
0.0050	1	.							
1106	CA	CA	. ALA ALA ALA A A 148 148 .	0.0657	0.0861	0.0675	0.0000	-0.0109	
0.0009	1	.							
1107	CB	CB	. ALA ALA ALA A A 148 148 .	0.1111	0.0957	0.0698	-0.0008	-0.0048	
0.0374	1	.							
1108	C	C	. ALA ALA ALA A A 148 148 .	0.0936	0.0782	0.0900	-0.0062	0.0076	
0.0059	1	.							
1109	O	O	. ALA ALA ALA A A 148 148 .	0.0966	0.0796	0.0830	0.0023	0.0103	
0.0077	1	.							
1110	N	N	. PHE PHE PHE A A 149 149 .	0.0737	0.1001	0.0855	-0.0115	-0.0058	
0.0068	1	.							
1111	CA	CA	. PHE PHE PHE A A 149 149 .	0.0738	0.0838	0.0680	0.0007	-0.0022	
0.0134	1	.							
1112	CB	CB	. PHE PHE PHE A A 149 149 .	0.0665	0.0859	0.0787	0.0007	-0.0003	
0.0057	1	.							
1113	CG	CG	. PHE PHE PHE A A 149 149 .	0.0571	0.0744	0.0770	-0.0042	-0.0020	-
0.0011	1	.							
1114	CD1	CD1	. PHE PHE PHE A A 149 149 .	0.0864	0.0716	0.0966	-0.0071	-0.0066	
0.0074	1	.							
1115	CE1	CE1	. PHE PHE PHE A A 149 149 .	0.1133	0.0800	0.1250	0.0133	0.0183	-
0.0060	1	.							
1116	CZ	CZ	. PHE PHE PHE A A 149 149 .	0.1098	0.0846	0.0974	-0.0144	-0.0026	
0.0075	1	.							
1117	CE2	CE2	. PHE PHE PHE A A 149 149 .	0.0828	0.0948	0.0830	-0.0038	-0.0135	
0.0093	1	.							
1118	CD2	CD2	. PHE PHE PHE A A 149 149 .	0.0777	0.0851	0.0799	0.0071	0.0148	
0.0182	1	.							
1119	C	C	. PHE PHE PHE A A 149 149 .	0.0738	0.0852	0.0742	-0.0083	-0.0027	
0.0033	1	.							
1120	O	O	. PHE PHE PHE A A 149 149 .	0.0834	0.0779	0.0877	-0.0144	-0.0072	-
0.0037	1	.							
1121	N	N	. ASN ASN ASN A A 150 150 .	0.0836	0.0889	0.0871	0.0044	-0.0058	
0.0016	1	.							
1122	CA	CA	. ASN ASN ASN A A 150 150 .	0.0964	0.0977	0.0875	0.0025	-0.0162	-
0.0011	1	.							
1123	CB	CB	. ASN ASN ASN A A 150 150 .	0.0966	0.0984	0.1249	0.0051	0.0185	-
0.0046	1	.							
1124	CG	CG	. ASN ASN ASN A A 150 150 .	0.0908	0.1068	0.1021	0.0189	-0.0125	-
0.0107	1	.							
1125	OD1	OD1	. ASN ASN ASN A A 150 150 .	0.1623	0.1412	0.1850	0.0288	-0.0029	-
0.0368	1	.							
1126	ND2	ND2	. ASN ASN ASN A A 150 150 .	0.0945	0.0969	0.0754	0.0017	-0.0040	
0.0093	1	.							
1127	C	C	. ASN ASN ASN A A 150 150 .	0.1135	0.1114	0.0997	-0.0072	-0.0122	-
0.0021	1	.							
1128	O	O	. ASN ASN ASN A A 150 150 .	0.1005	0.1145	0.1098	0.0014	-0.0132	-
0.0116	1	.							
1129	N	N	. VAL VAL VAL A A 151 151 .	0.0997	0.0710	0.0897	0.0028	-0.0112	
0.0232	1	.							
1130	CA	CA	. VAL VAL VAL A A 151 151 .	0.0996	0.0774	0.0871	-0.0005	0.0079	
0.0239	1	.							
1131	CB	CB	. VAL VAL VAL A A 151 151 .	0.0662	0.0974	0.0904	-0.0059	-0.0151	
0.0021	1	.							
1132	CG1	CG1	. VAL VAL VAL A A 151 151 .	0.0818	0.1275	0.1397	-0.0016	0.0113	-
0.0034	1	.							



1163	OG	OG	. SER SER SER A A 156 156 .	0.2155	0.1537	0.2008	0.0225	-0.0497	
0.0051	1	.							
1164	C	C	. SER SER SER A A 156 156 .	0.1446	0.1280	0.1381	0.0228	-0.0291	-
0.0056	1	.							
1165	O	O	. SER SER SER A A 156 156 .	0.1589	0.1713	0.1987	0.0287	-0.0433	-
0.0259	1	.							
1166	N	N	. HIS HIS HIS A A 157 157 .	0.1284	0.1332	0.1486	0.0269	-0.0196	
0.0155	1	.							
1167	CA	CA	. HIS HIS HIS A A 157 157 .	0.1050	0.1363	0.1292	0.0039	-0.0019	
0.0129	1	.							
1168	CB	CB	. HIS HIS HIS A A 157 157 .	0.1202	0.1236	0.0994	0.0143	0.0045	
0.0169	1	.							
1169	CG	CG	. HIS HIS HIS A A 157 157 .	0.1406	0.1275	0.1217	-0.0034	0.0316	
0.0077	1	.							
1170	ND1	ND1	. HIS HIS HIS A A 157 157 .	0.1082	0.1564	0.1196	-0.0065	0.0181	-
0.0058	1	.							
1171	CE1	CE1	. HIS HIS HIS A A 157 157 .	0.1297	0.1153	0.1823	0.0054	-0.0043	
0.0008	1	.							
1172	NE2	NE2	. HIS HIS HIS A A 157 157 .	0.1002	0.1293	0.1019	-0.0068	-0.0069	-
0.0125	1	.							
1173	CD2	CD2	. HIS HIS HIS A A 157 157 .	0.1132	0.1615	0.1458	0.0098	-0.0007	
0.0282	1	.							
1174	C	C	. HIS HIS HIS A A 157 157 .	0.1265	0.1239	0.1689	-0.0032	-0.0048	
0.0190	1	.							
1175	O	O	. HIS HIS HIS A A 157 157 .	0.1107	0.1395	0.1468	0.0110	-0.0018	
0.0294	1	.							
1176	N	N	. ALA ALA ALA A A 158 158 .	0.1302	0.1353	0.1430	-0.0039	-0.0012	
0.0114	1	.							
1177	CA	CA	. ALA ALA ALA A A 158 158 .	0.1496	0.1575	0.1549	-0.0255	-0.0076	
0.0025	1	.							
1178	CB	CB	. ALA ALA ALA A A 158 158 .	0.1429	0.1477	0.1611	-0.0201	0.0334	-
0.0017	1	.							
1179	C	C	. ALA ALA ALA A A 158 158 .	0.1546	0.1698	0.1543	-0.0187	-0.0079	
0.0083	1	.							
1180	O	O	. ALA ALA ALA A A 158 158 .	0.1823	0.1610	0.1598	-0.0017	-0.0168	
0.0268	1	.							
1181	N	N	. GLY GLY GLY A A 159 159 .	0.1402	0.1578	0.1296	-0.0108	0.0058	
0.0341	1	.							
1182	CA	CA	. GLY GLY GLY A A 159 159 .	0.1624	0.1647	0.1528	-0.0380	0.0137	
0.0066	1	.							
1183	C	C	. GLY GLY GLY A A 159 159 .	0.1769	0.1753	0.1631	-0.0227	0.0184	
0.0098	1	.							
1184	O	O	. GLY GLY GLY A A 159 159 .	0.1667	0.1941	0.1647	-0.0022	0.0061	
0.0103	1	.							
1185	N	N	. ASN ASN ASN A A 160 160 .	0.1530	0.1711	0.1504	-0.0055	0.0069	
0.0185	1	.							
1186	CA	CA	. ASN ASN ASN A A 160 160 .	0.1307	0.1376	0.1402	0.0016	-0.0064	
0.0188	1	.							
1187	CB	CB	. ASN ASN ASN A A 160 160 .	0.1006	0.1483	0.1115	-0.0138	0.0138	
0.0112	1	.							
1188	CG	CG	. ASN ASN ASN A A 160 160 .	0.1192	0.1063	0.1155	-0.0049	0.0082	-
0.0012	1	.							
1189	OD1	OD1	. ASN ASN ASN A A 160 160 .	0.1401	0.1510	0.1307	-0.0054	0.0149	
0.0238	1	.							
1190	ND2	ND2	. ASN ASN ASN A A 160 160 .	0.0997	0.1318	0.1330	0.0031	0.0066	-
0.0094	1	.							
1191	C	C	. ASN ASN ASN A A 160 160 .	0.1303	0.1369	0.1434	0.0066	0.0018	
0.0113	1	.							
1192	O	O	. ASN ASN ASN A A 160 160 .	0.1270	0.1464	0.1365	-0.0125	0.0030	
0.0186	1	.							

1193	N	N	. LYS LYS LYS A A 161 161 .	0.1540	0.1820	0.1445	-0.0089	0.0260	
0.0148	1	.							
1194	CA	CA	. LYS LYS LYS A A 161 161 .	0.1181	0.1799	0.1267	-0.0056	0.0035	
0.0051	1	.							
1195	CB	CB	. LYS LYS LYS A A 161 161 .	0.1475	0.1917	0.1471	-0.0323	0.0317	
0.0051	1	.							
1196	CG	CG	. LYS LYS LYS A A 161 161 .	0.1421	0.2160	0.1804	-0.0390	0.0287	
0.0332	1	.							
1197	CD	CD	. LYS LYS LYS A A 161 161 .	0.2190	0.3416	0.1842	-0.0718	0.0008	-
0.0080	1	.							
1198	CE	CE	. LYS LYS LYS A A 161 161 .	0.3190	0.4100	0.2050	-0.1172	0.0231	
0.0558	1	.							
1199	NZ	NZ	. LYS LYS LYS A A 161 161 .	0.3028	0.4015	0.4016	-0.0960	-0.0162	
0.0175	1	.							
1200	C	C	. LYS LYS LYS A A 161 161 .	0.1475	0.1554	0.1581	-0.0011	0.0053	
0.0071	1	.							
1201	O	O	. LYS LYS LYS A A 161 161 .	0.1566	0.1870	0.1803	0.0199	0.0251	
0.0511	1	.							
1202	N	N	. LEU LEU LEU A A 162 162 .	0.1086	0.1389	0.1156	0.0028	-0.0045	
0.0083	1	.							
1203	CA	CA	. LEU LEU LEU A A 162 162 .	0.0931	0.1326	0.1251	0.0113	-0.0079	
0.0233	1	.							
1204	CB	CB	. LEU LEU LEU A A 162 162 .	0.1093	0.1475	0.1396	0.0185	-0.0078	
0.0231	1	.							
1205	CG	CG	. LEU LEU LEU A A 162 162 .	0.1206	0.1341	0.1106	0.0185	0.0034	
0.0089	1	.							
1206	CD1	CD1	. LEU LEU LEU A A 162 162 .	0.1276	0.1578	0.1714	0.0023	0.0105	-
0.0156	1	.							
1207	CD2	CD2	. LEU LEU LEU A A 162 162 .	0.0561	0.1352	0.1563	-0.0034	0.0121	
0.0101	1	.							
1208	C	C	. LEU LEU LEU A A 162 162 .	0.0987	0.1309	0.1229	0.0016	-0.0045	
0.0136	1	.							
1209	O	O	. LEU LEU LEU A A 162 162 .	0.1254	0.1203	0.1124	-0.0003	-0.0046	
0.0094	1	.							
1210	N	N	. ALA ALA ALA A A 163 163 .	0.1180	0.1391	0.1372	0.0122	0.0099	
0.0316	1	.							
1211	CA	CA	. ALA ALA ALA A A 163 163 .	0.1160	0.1498	0.1482	0.0203	0.0180	
0.0220	1	.							
1212	CB	CB	. ALA ALA ALA A A 163 163 .	0.1045	0.1305	0.1572	-0.0094	-0.0188	
0.0205	1	.							
1213	C	C	. ALA ALA ALA A A 163 163 .	0.0805	0.1170	0.1259	-0.0051	0.0016	
0.0105	1	.							
1214	O	O	. ALA ALA ALA A A 163 163 .	0.1197	0.1201	0.1253	0.0145	0.0030	-
0.0009	1	.							
1215	N	N	. MET MET MET A A 164 164 .	0.1009	0.1081	0.1085	-0.0076	0.0035	
0.0209	1	.							
1216	CA	CA	. MET MET MET A A 164 164 .	0.0849	0.1291	0.0967	-0.0002	0.0141	
0.0060	1	.							
1217	CB	CB	. MET MET MET A A 164 164 .	0.0952	0.1337	0.1241	-0.0119	0.0024	
0.0079	1	.							
1218	CG	CG	. MET MET MET A A 164 164 .	0.0868	0.1267	0.1237	-0.0138	-0.0079	-
0.0056	1	.							
1219	SD	SD	. MET MET MET A A 164 164 .	0.1129	0.1500	0.1360	0.0019	-0.0036	
0.0107	1	.							
1220	CE	CE	. MET MET MET A A 164 164 .	0.0961	0.1712	0.1367	0.0421	-0.0377	-
0.0201	1	.							
1221	C	C	. MET MET MET A A 164 164 .	0.0876	0.1095	0.1210	-0.0079	0.0169	
0.0068	1	.							
1222	O	O	. MET MET MET A A 164 164 .	0.1212	0.1203	0.1173	-0.0002	0.0046	
0.0270	1	.							



1223	N	N	. GLN GLN GLN A A 165 165 .	0.0818	0.1087	0.1017	-0.0192	-0.0062	-
0.0134	1	.							
1224	CA	CA	. GLN GLN GLN A A 165 165 .	0.0995	0.0772	0.0812	-0.0047	-0.0128	
0.0016	1	.							
1225	CB	CB	. GLN GLN GLN A A 165 165 .	0.1049	0.0894	0.0839	-0.0175	-0.0015	-
0.0175	1	.							
1226	CG	CG	. GLN GLN GLN A A 165 165 .	0.0874	0.0972	0.0777	-0.0090	-0.0169	
0.0135	1	.							
1227	CD	CD	. GLN GLN GLN A A 165 165 .	0.1173	0.1068	0.0997	-0.0024	-0.0145	
0.0004	1	.							
1228	OE1	OE1	. GLN GLN GLN A A 165 165 .	0.1117	0.0970	0.0986	0.0157	0.0070	
0.0004	1	.							
1229	NE2	NE2	. GLN GLN GLN A A 165 165 .	0.1063	0.1460	0.1225	-0.0127	-0.0008	-
0.0123	1	.							
1230	C	C	. GLN GLN GLN A A 165 165 .	0.0908	0.1173	0.0888	-0.0056	0.0045	-
0.0037	1	.							
1231	O	O	. GLN GLN GLN A A 165 165 .	0.0878	0.0984	0.0890	0.0192	0.0132	
0.0091	1	.							
1232	N	N	. GLU GLU GLU A A 166 166 .	0.0920	0.1080	0.1001	0.0041	0.0269	
0.0015	1	.							
1233	CA	CA	. GLU GLU GLU A A 166 166 .	0.0829	0.0941	0.0931	0.0052	-0.0101	-
0.0003	1	.							
1234	CB	CB	. GLU GLU GLU A A 166 166 .	0.1055	0.1079	0.0942	-0.0095	-0.0029	-
0.0046	1	.							
1235	CG	CG	. GLU GLU GLU A A 166 166 .	0.1014	0.1134	0.1332	-0.0253	-0.0181	-
0.0199	1	.							
1236	CD	CD	. GLU GLU GLU A A 166 166 .	0.0894	0.1392	0.1314	0.0014	0.0071	-
0.0019	1	.							
1237	OE1	OE1	. GLU GLU GLU A A 166 166 .	0.0982	0.1277	0.1239	0.0065	0.0108	
0.0057	1	.							
1238	OE2	OE2	. GLU GLU GLU A A 166 166 .	0.1093	0.1395	0.1591	-0.0025	0.0030	-
0.0129	1	.							
1239	C	C	. GLU GLU GLU A A 166 166 .	0.0887	0.0849	0.0871	0.0023	-0.0025	-
0.0010	1	.							
1240	O	O	. GLU GLU GLU A A 166 166 .	0.1042	0.1233	0.1111	0.0026	-0.0160	
0.0054	1	.							
1241	N	N	. PHE PHE PHE A A 167 167 .	0.0801	0.0773	0.0799	0.0097	-0.0009	
0.0054	1	.							
1242	CA	CA	. PHE PHE PHE A A 167 167 .	0.0777	0.0964	0.0998	0.0024	-0.0072	-
0.0068	1	.							
1243	CB	CB	. PHE PHE PHE A A 167 167 .	0.0984	0.0989	0.1213	-0.0004	0.0125	-
0.0048	1	.							
1244	CG	CG	. PHE PHE PHE A A 167 167 .	0.1102	0.0930	0.0984	0.0136	0.0072	
0.0162	1	.							
1245	CD1	CD1	. PHE PHE PHE A A 167 167 .	0.1178	0.0812	0.1300	0.0058	0.0182	
0.0014	1	.							
1246	CE1	CE1	. PHE PHE PHE A A 167 167 .	0.1161	0.1286	0.1559	-0.0235	0.0138	
0.0158	1	.							
1247	CZ	CZ	. PHE PHE PHE A A 167 167 .	0.0880	0.1500	0.1366	-0.0140	0.0043	
0.0293	1	.							
1248	CE2	CE2	. PHE PHE PHE A A 167 167 .	0.1209	0.1764	0.2154	0.0044	-0.0232	
0.0174	1	.							
1249	CD2	CD2	. PHE PHE PHE A A 167 167 .	0.1233	0.1288	0.1868	-0.0283	0.0142	
0.0217	1	.							
1250	C	C	. PHE PHE PHE A A 167 167 .	0.0812	0.1100	0.1022	0.0056	-0.0104	
0.0117	1	.							
1251	O	O	. PHE PHE PHE A A 167 167 .	0.0983	0.0975	0.0789	-0.0093	-0.0061	
0.0101	1	.							
1252	N	N	. MET MET MET A A 168 168 .	0.0798	0.1228	0.0825	-0.0014	-0.0089	-
0.0132	1	.							

1253	CA	CA	. MET MET MET A A 168 168 .	0.0704	0.0990	0.1108	-0.0228	0.0099	-
0.0021	1	.							
1254	CB	CB	. MET MET MET A A 168 168 .	0.1108	0.1099	0.1122	-0.0084	0.0108	-
0.0054	1	.							
1255	CG	CG	. MET MET MET A A 168 168 .	0.1080	0.0887	0.1007	-0.0053	0.0038	
0.0072	1	.							
1256	SD	SD	. MET MET MET A A 168 168 .	0.1224	0.1298	0.1331	0.0003	-0.0101	
0.0053	1	.							
1257	CE	CE	. MET MET MET A A 168 168 .	0.0623	0.1670	0.1429	0.0279	-0.0128	
0.0000	1	.							
1258	C	C	. MET MET MET A A 168 168 .	0.0752	0.0866	0.0744	-0.0103	-0.0130	
0.0001	1	.							
1259	O	O	. MET MET MET A A 168 168 .	0.1098	0.0940	0.0829	0.0064	-0.0236	-
0.0048	1	.							
1260	N	N	. ILE ILE ILE A A 169 169 .	0.0772	0.0875	0.0815	0.0093	0.0140	-
0.0165	1	.							
1261	CA	CA	. ILE ILE ILE A A 169 169 .	0.0963	0.0826	0.0824	0.0037	0.0030	-
0.0138	1	.							
1262	CB	CB	. ILE ILE ILE A A 169 169 .	0.1085	0.0775	0.0755	-0.0287	-0.0206	-
0.0065	1	.							
1263	CG1	CG1	. ILE ILE ILE A A 169 169 .	0.0964	0.0762	0.0913	-0.0059	-0.0136	-
0.0104	1	.							
1264	CD	CD	. ILE ILE ILE A A 169 169 .	0.1511	0.0820	0.1458	-0.0142	-0.0102	-
0.0288	1	.							
1265	CG2	CG2	. ILE ILE ILE A A 169 169 .	0.1162	0.1437	0.1156	-0.0236	0.0153	-
0.0287	1	.							
1266	C	C	. ILE ILE ILE A A 169 169 .	0.0852	0.0912	0.0750	-0.0133	-0.0067	-
0.0021	1	.							
1267	O	O	. ILE ILE ILE A A 169 169 .	0.1163	0.1087	0.0816	-0.0110	-0.0106	-
0.0039	1	.							
1268	N	N	. LEU LEU LEU A A 170 170 .	0.1115	0.1204	0.0829	0.0019	0.0162	-
0.0064	1	.							
1269	CA	CA	. LEU LEU LEU A A 170 170 .	0.0920	0.0784	0.0822	-0.0018	-0.0041	-
0.0018	1	.							
1270	CB	CB	. LEU LEU LEU A A 170 170 .	0.1093	0.0963	0.0957	0.0058	-0.0183	-
0.0045	1	.							
1271	CG	CG	. LEU LEU LEU A A 170 170 .	0.1084	0.1063	0.1201	0.0165	0.0049	-
0.0193	1	.							
1272	CD1	CD1	. LEU LEU LEU A A 170 170 .	0.0997	0.1601	0.1525	0.0258	0.0223	-
0.0173	1	.							
1273	CD2	CD2	. LEU LEU LEU A A 170 170 .	0.1944	0.1314	0.1600	0.0089	0.0297	-
0.0302	1	.							
1274	C	C	. LEU LEU LEU A A 170 170 .	0.0912	0.0896	0.0755	0.0072	-0.0042	-
0.0014	1	.							
1275	O	O	. LEU LEU LEU A A 170 170 .	0.0958	0.0985	0.0913	-0.0060	-0.0274	-
0.0038	1	.							
1276	N	N	. PRO PRO PRO A A 171 171 .	0.1034	0.0902	0.0833	0.0039	-0.0046	-
0.0026	1	.							
1277	CA	CA	. PRO PRO PRO A A 171 171 .	0.1027	0.0979	0.0781	0.0265	0.0052	-
0.0007	1	.							
1278	CB	CB	. PRO PRO PRO A A 171 171 .	0.1053	0.1460	0.0808	0.0159	0.0026	-
0.0180	1	.							
1279	CG	CG	. PRO PRO PRO A A 171 171 .	0.1320	0.1267	0.1183	0.0432	0.0014	-
0.0206	1	.							
1280	CD	CD	. PRO PRO PRO A A 171 171 .	0.1398	0.1048	0.0637	0.0152	-0.0275	-
0.0007	1	.							
1281	C	C	. PRO PRO PRO A A 171 171 .	0.0813	0.0860	0.0829	-0.0051	-0.0041	-
0.0138	1	.							
1282	O	O	. PRO PRO PRO A A 171 171 .	0.1144	0.1120	0.0937	0.0066	-0.0039	-
0.0105	1	.							

1283	N	N	. VAL VAL VAL A A 172 172 .	0.1110	0.1091	0.0750	0.0038	-0.0052	
0.0016	1	.							
1284	CA	CA	. VAL VAL VAL A A 172 172 .	0.1189	0.1126	0.0946	0.0090	-0.0004	
0.0052	1	.							
1285	CB	CB	. VAL VAL VAL A A 172 172 .	0.1217	0.1105	0.0910	0.0031	-0.0120	-
0.0034	1	.							
1286	CG1	CG1	. VAL VAL VAL A A 172 172 .	0.1487	0.0879	0.1206	0.0169	-0.0211	-
0.0008	1	.							
1287	CG2	CG2	. VAL VAL VAL A A 172 172 .	0.1120	0.1349	0.1205	0.0031	-0.0178	-
0.0028	1	.							
1288	C	C	. VAL VAL VAL A A 172 172 .	0.1217	0.1293	0.1051	-0.0168	-0.0136	-
0.0171	1	.							
1289	O	O	. VAL VAL VAL A A 172 172 .	0.1568	0.1546	0.1165	-0.0054	0.0072	-
0.0223	1	.							
1290	N	N	. GLY GLY GLY A A 173 173 .	0.1356	0.1046	0.0880	0.0267	-0.0047	-
0.0241	1	.							
1291	CA	CA	. GLY GLY GLY A A 173 173 .	0.1256	0.1288	0.1243	0.0441	-0.0054	-
0.0383	1	.							
1292	C	C	. GLY GLY GLY A A 173 173 .	0.1433	0.1332	0.1281	0.0178	-0.0154	-
0.0337	1	.							
1293	O	O	. GLY GLY GLY A A 173 173 .	0.1486	0.1619	0.1722	0.0240	-0.0182	-
0.0368	1	.							
1294	N	N	. ALA ALA ALA A A 174 174 .	0.1325	0.1319	0.0931	0.0077	0.0077	-
0.0219	1	.							
1295	CA	CA	. ALA ALA ALA A A 174 174 .	0.1353	0.1311	0.1252	-0.0126	-0.0097	-
0.0114	1	.							
1296	CB	CB	. ALA ALA ALA A A 174 174 .	0.1450	0.1408	0.1275	0.0048	-0.0352	-
0.0338	1	.							
1297	C	C	. ALA ALA ALA A A 174 174 .	0.1490	0.1275	0.1108	-0.0058	-0.0105	-
0.0255	1	.							
1298	O	O	. ALA ALA ALA A A 174 174 .	0.1648	0.1430	0.1227	-0.0004	-0.0134	-
0.0115	1	.							
1299	N	N	. GLU GLU GLU A A 175 175 .	0.1550	0.1694	0.1635	-0.0040	-0.0054	-
0.0360	1	.							
1300	CA	CA	. GLU GLU GLU A A 175 175 .	0.1323	0.1907	0.2009	-0.0136	0.0014	-
0.0217	1	.							
1301	CB	CB	. GLU GLU GLU A A 175 175 .	0.1695	0.1964	0.2779	0.0070	0.0136	-
0.0545	1	.							
1302	CG	CG	. GLU GLU GLU A A 175 175 .	0.3128	0.3178	0.3701	-0.0177	0.0062	-
0.0192	1	.							
1303	CD	CD	. GLU GLU GLU A A 175 175 .	0.5002	0.5681	0.4711	0.0159	0.0035	-
0.0313	1	.							
1304	OE1	OE1	. GLU GLU GLU A A 175 175 .	0.5815	0.6205	0.5938	0.0429	-0.0607	-
0.0155	1	.							
1305	OE2	OE2	. GLU GLU GLU A A 175 175 .	0.5303	0.6176	0.5967	0.0690	0.0636	-
0.0186	1	.							
1306	C	C	. GLU GLU GLU A A 175 175 .	0.1607	0.1937	0.1753	0.0005	0.0090	-
0.0234	1	.							
1307	O	O	. GLU GLU GLU A A 175 175 .	0.1643	0.2536	0.1791	-0.0460	0.0188	-
0.0231	1	.							
1308	N	N	. SER SER SER A A 176 176 .	0.1234	0.1505	0.1087	-0.0080	0.0019	-
0.0267	1	.							
1309	CA	CA	. SER SER SER A A 176 176 .	0.1136	0.1401	0.1252	0.0088	0.0003	-
0.0143	1	.							
1310	CB	CB	. SER SER SER A A 176 176 .	0.1079	0.1517	0.1186	0.0377	0.0329	-
0.0129	1	.							
1311	OG	OG	. SER SER SER A A 176 176 .	0.1201	0.1597	0.1195	0.0083	-0.0017	-
0.0140	1	.							
1312	C	C	. SER SER SER A A 176 176 .	0.1049	0.1227	0.1028	0.0002	0.0079	-
0.0052	1	.							

1313	O	O	. SER SER SER A A 176 176 .	0.1368	0.1144	0.1064	0.0147	0.0013	-
0.0031	1	.							
1314	N	N	. PHE PHE PHE A A 177 177 .	0.1278	0.1201	0.1143	0.0082	0.0001	-
0.0139	1	.							
1315	CA	CA	. PHE PHE PHE A A 177 177 .	0.1433	0.1013	0.1095	0.0059	0.0050	-
0.0039	1	.							
1316	CB	CB	. PHE PHE PHE A A 177 177 .	0.1029	0.1070	0.1270	-0.0239	0.0044	-
0.0047	1	.							
1317	CG	CG	. PHE PHE PHE A A 177 177 .	0.0922	0.1009	0.1037	-0.0073	-0.0014	
0.0123	1	.							
1318	CD1	CD1	. PHE PHE PHE A A 177 177 .	0.1255	0.1283	0.1427	-0.0049	-0.0130	
0.0030	1	.							
1319	CE1	CE1	. PHE PHE PHE A A 177 177 .	0.1108	0.1288	0.0961	0.0112	-0.0112	-
0.0140	1	.							
1320	CZ	CZ	. PHE PHE PHE A A 177 177 .	0.1232	0.1048	0.0927	-0.0223	-0.0201	-
0.0138	1	.							
1321	CE2	CE2	. PHE PHE PHE A A 177 177 .	0.1315	0.0714	0.1135	0.0053	0.0059	-
0.0297	1	.							
1322	CD2	CD2	. PHE PHE PHE A A 177 177 .	0.0931	0.0974	0.0888	-0.0038	0.0053	
0.0146	1	.							
1323	C	C	. PHE PHE PHE A A 177 177 .	0.1124	0.1078	0.1131	-0.0057	0.0077	-
0.0109	1	.							
1324	O	O	. PHE PHE PHE A A 177 177 .	0.1162	0.1014	0.1140	0.0015	0.0044	
0.0053	1	.							
1325	N	N	. ARG ARG ARG A A 178 178 .	0.1460	0.1023	0.1094	0.0056	-0.0092	-
0.0024	1	.							
1326	CA	CA	. ARG ARG ARG A A 178 178 .	0.1195	0.1039	0.1098	-0.0008	-0.0078	
0.0069	1	.							
1327	CB	CB	. ARG ARG ARG A A 178 178 .	0.1378	0.1190	0.1266	0.0123	-0.0141	
0.0356	1	.							
1328	CG	CG	. ARG ARG ARG A A 178 178 .	0.1824	0.2204	0.1580	-0.0029	0.0146	
0.0377	1	.							
1329	CD	CD	. ARG ARG ARG A A 178 178 .	0.2127	0.3253	0.3256	0.0047	-0.0356	
0.0416	1	.							
1330	NE	NE	. ARG ARG ARG A A 178 178 .	0.3926	0.3568	0.3819	0.0296	-0.0345	
0.0671	1	.							
1331	CZ	CZ	. ARG ARG ARG A A 178 178 .	0.5083	0.3384	0.3768	-0.0465	0.0069	-
0.0056	1	.							
1332	NH1	NH1	. ARG ARG ARG A A 178 178 .	0.4619	0.3895	0.3620	-0.0723	0.0215	-
0.0583	1	.							
1333	NH2	NH2	. ARG ARG ARG A A 178 178 .	0.4327	0.3380	0.3529	-0.0479	-0.0003	-
0.0104	1	.							
1334	C	C	. ARG ARG ARG A A 178 178 .	0.1165	0.1171	0.1014	0.0000	-0.0011	
0.0079	1	.							
1335	O	O	. ARG ARG ARG A A 178 178 .	0.0902	0.0919	0.0922	-0.0057	0.0048	-
0.0131	1	.							
1336	N	N	. ASP ASP ASP A A 179 179 .	0.1265	0.1021	0.1263	0.0086	-0.0134	-
0.0061	1	.							
1337	CA	CA	. ASP ASP ASP A A 179 179 .	0.1064	0.1120	0.0780	-0.0018	0.0056	-
0.0197	1	.							
1338	CB	CB	. ASP ASP ASP A A 179 179 .	0.1457	0.1169	0.0948	0.0080	-0.0120	-
0.0142	1	.							
1339	CG	CG	. ASP ASP ASP A A 179 179 .	0.1502	0.1588	0.1768	0.0179	0.0028	-
0.0125	1	.							
1340	OD1	OD1	. ASP ASP ASP A A 179 179 .	0.2398	0.2234	0.2551	0.0258	-0.0263	
0.0176	1	.							
1341	OD2	OD2	. ASP ASP ASP A A 179 179 .	0.2602	0.2220	0.1887	0.0268	0.0182	-
0.0254	1	.							
1342	C	C	. ASP ASP ASP A A 179 179 .	0.1080	0.0758	0.0951	-0.0072	0.0157	-
0.0052	1	.							

1343	O	O	. ASP ASP ASP A A 179 179 .	0.1045	0.0972	0.1089	-0.0088	0.0132	-
0.0102	1	.							
1344	N	N	. ALA ALA ALA A A 180 180 .	0.1043	0.1007	0.1045	0.0151	-0.0109	
0.0108	1	.							
1345	CA	CA	. ALA ALA ALA A A 180 180 .	0.0919	0.0863	0.0827	0.0148	-0.0041	
0.0184	1	.							
1346	CB	CB	. ALA ALA ALA A A 180 180 .	0.1084	0.1052	0.1135	0.0086	0.0097	
0.0197	1	.							
1347	C	C	. ALA ALA ALA A A 180 180 .	0.0673	0.0852	0.0777	0.0076	0.0047	
0.0026	1	.							
1348	O	O	. ALA ALA ALA A A 180 180 .	0.0821	0.1035	0.0827	0.0070	-0.0098	-
0.0097	1	.							
1349	N	N	. MET MET MET A A 181 181 .	0.0968	0.0927	0.0822	-0.0082	-0.0032	-
0.0156	1	.							
1350	CA	CA	. MET MET MET A A 181 181 .	0.0915	0.0965	0.0936	-0.0124	-0.0027	-
0.0042	1	.							
1351	CB	CB	. MET MET MET A A 181 181 .	0.0901	0.0998	0.1156	-0.0076	-0.0095	-
0.0012	1	.							
1352	CG	CG	. MET MET MET A A 181 181 .	0.0914	0.0942	0.1178	0.0084	0.0202	
0.0067	1	.							
1353	SD	SD	. MET MET MET A A 181 181 .	0.1065	0.1092	0.1068	0.0075	0.0006	-
0.0022	1	.							
1354	CE	CE	. MET MET MET A A 181 181 .	0.1146	0.0903	0.0852	-0.0031	0.0139	-
0.0068	1	.							
1355	C	C	. MET MET MET A A 181 181 .	0.0878	0.0884	0.0903	-0.0102	-0.0142	-
0.0142	1	.							
1356	O	O	. MET MET MET A A 181 181 .	0.0922	0.1190	0.1113	-0.0068	-0.0073	-
0.0041	1	.							
1357	N	N	. ARG ARG ARG A A 182 182 .	0.0837	0.0944	0.0977	-0.0071	-0.0123	-
0.0166	1	.							
1358	CA	CA	. ARG ARG ARG A A 182 182 .	0.0898	0.0809	0.1121	0.0142	-0.0078	
0.0039	1	.							
1359	CB	CB	. ARG ARG ARG A A 182 182 .	0.0987	0.0823	0.1499	0.0059	0.0143	-
0.0052	1	.							
1360	CG	CG	. ARG ARG ARG A A 182 182 .	0.1684	0.1074	0.1541	-0.0178	0.0075	
0.0134	1	.							
1361	CD	CD	. ARG ARG ARG A A 182 182 .	0.1807	0.0745	0.3291	0.0391	0.0491	
0.0331	1	.							
1362	NE	NE	. ARG ARG ARG A A 182 182 .	0.2370	0.1536	0.2834	0.0426	0.0458	-
0.0311	1	.							
1363	CZ	CZ	. ARG ARG ARG A A 182 182 .	0.2786	0.2290	0.3132	0.0048	0.0289	-
0.0462	1	.							
1364	NH1	NH1	. ARG ARG ARG A A 182 182 .	0.2640	0.2083	0.3309	0.0015	-0.0123	-
0.0728	1	.							
1365	NH2	NH2	. ARG ARG ARG A A 182 182 .	0.2833	0.3441	0.2909	0.0130	0.0440	-
0.0662	1	.							
1366	C	C	. ARG ARG ARG A A 182 182 .	0.1152	0.0803	0.1108	-0.0078	0.0010	
0.0000	1	.							
1367	O	O	. ARG ARG ARG A A 182 182 .	0.1007	0.1147	0.1126	-0.0041	0.0060	
0.0125	1	.							
1368	N	N	. LEU LEU LEU A A 183 183 .	0.1218	0.0931	0.1055	-0.0109	-0.0121	-
0.0056	1	.							
1369	CA	CA	. LEU LEU LEU A A 183 183 .	0.1102	0.1093	0.1011	0.0155	-0.0114	
0.0025	1	.							
1370	CB	CB	. LEU LEU LEU A A 183 183 .	0.1462	0.0883	0.1176	0.0021	-0.0118	
0.0012	1	.							
1371	CG	CG	. LEU LEU LEU A A 183 183 .	0.1355	0.1358	0.1097	0.0275	0.0110	-
0.0126	1	.							
1372	CD1	CD1	. LEU LEU LEU A A 183 183 .	0.1672	0.1177	0.2038	0.0540	0.0226	-
0.0157	1	.							





1433	CG	CG	. LEU LEU LEU A A 191 191 .	0.1053	0.0839	0.1306	-0.0059	-0.0176	
0.0191	1	.							
1434	CD1	CD1	. LEU LEU LEU A A 191 191 .	0.1267	0.1285	0.1360	0.0018	-0.0550	-
0.0127	1	.							
1435	CD2	CD2	. LEU LEU LEU A A 191 191 .	0.1627	0.1206	0.1287	-0.0095	0.0127	
0.0231	1	.							
1436	C	C	. LEU LEU LEU A A 191 191 .	0.0855	0.0984	0.0842	-0.0107	-0.0111	
0.0037	1	.							
1437	O	O	. LEU LEU LEU A A 191 191 .	0.1111	0.0938	0.1239	-0.0099	0.0117	-
0.0058	1	.							
1438	N	N	. LYS LYS LYS A A 192 192 .	0.1049	0.0841	0.0918	0.0020	-0.0099	-
0.0087	1	.							
1439	CA	CA	. LYS LYS LYS A A 192 192 .	0.0830	0.1009	0.0861	-0.0188	-0.0027	-
0.0135	1	.							
1440	CB	CB	. LYS LYS LYS A A 192 192 .	0.0925	0.1267	0.1072	-0.0104	-0.0128	-
0.0121	1	.							
1441	CG	CG	. LYS LYS LYS A A 192 192 .	0.1219	0.1477	0.1045	-0.0174	-0.0169	-
0.0097	1	.							
1442	CD	CD	. LYS LYS LYS A A 192 192 .	0.1459	0.1892	0.1552	-0.0458	-0.0092	
0.0095	1	.							
1443	CE	CE	. LYS LYS LYS A A 192 192 .	0.2418	0.2755	0.1491	-0.0395	-0.0433	-
0.0159	1	.							
1444	NZ	NZ	. LYS LYS LYS A A 192 192 .	0.2771	0.3163	0.2303	-0.0415	-0.0850	
0.0356	1	.							
1445	C	C	. LYS LYS LYS A A 192 192 .	0.0986	0.1081	0.0920	-0.0077	0.0057	
0.0007	1	.							
1446	O	O	. LYS LYS LYS A A 192 192 .	0.1180	0.1027	0.1154	-0.0088	0.0184	-
0.0067	1	.							
1447	N	N	. GLY GLY GLY A A 193 193 .	0.1119	0.1011	0.1315	-0.0238	-0.0120	
0.0025	1	.							
1448	CA	CA	. GLY GLY GLY A A 193 193 .	0.1446	0.0958	0.1346	-0.0127	0.0000	
0.0269	1	.							
1449	C	C	. GLY GLY GLY A A 193 193 .	0.1429	0.1223	0.1410	-0.0119	0.0056	
0.0238	1	.							
1450	O	O	. GLY GLY GLY A A 193 193 .	0.1414	0.1276	0.1776	-0.0288	0.0147	
0.0193	1	.							
1451	N	N	. VAL VAL VAL A A 194 194 .	0.1326	0.1307	0.1304	-0.0057	-0.0035	-
0.0197	1	.							
1452	CA	CA	. VAL VAL VAL A A 194 194 .	0.1166	0.1267	0.1432	-0.0058	-0.0078	-
0.0137	1	.							
1453	CB	CB	. VAL VAL VAL A A 194 194 .	0.1332	0.1413	0.1261	0.0104	-0.0209	-
0.0161	1	.							
1454	CG1	CG1	. VAL VAL VAL A A 194 194 .	0.0871	0.2098	0.2095	0.0399	-0.0178	-
0.0321	1	.							
1455	CG2	CG2	. VAL VAL VAL A A 194 194 .	0.1709	0.1501	0.1419	0.0004	-0.0007	-
0.0312	1	.							
1456	C	C	. VAL VAL VAL A A 194 194 .	0.1388	0.1415	0.1833	-0.0190	0.0099	-
0.0089	1	.							
1457	O	O	. VAL VAL VAL A A 194 194 .	0.1102	0.1427	0.2193	-0.0215	0.0177	-
0.0231	1	.							
1458	N	N	. ILE ILE ILE A A 195 195 .	0.1248	0.1054	0.1394	-0.0181	0.0036	-
0.0263	1	.							
1459	CA	CA	. ILE ILE ILE A A 195 195 .	0.1237	0.1147	0.1514	-0.0225	0.0049	-
0.0146	1	.							
1460	CB	CB	. ILE ILE ILE A A 195 195 .	0.1483	0.1187	0.1467	-0.0183	0.0104	-
0.0089	1	.							
1461	CG1	CG1	. ILE ILE ILE A A 195 195 .	0.1651	0.1039	0.1859	-0.0617	0.0038	
0.0222	1	.							
1462	CD	CD	. ILE ILE ILE A A 195 195 .	0.1318	0.1245	0.1919	-0.0507	0.0022	-
0.0354	1	.							





1493	CA	CA	. TYR TYR TYR A A 199 199 .	0.1336	0.1868	0.1726	-0.0142	0.0179	
0.0051	1	.							
1494	CB	CB	. TYR TYR TYR A A 199 199 .	0.1360	0.1842	0.1903	-0.0176	0.0004	
0.0008	1	.							
1495	CG	CG	. TYR TYR TYR A A 199 199 .	0.2055	0.1565	0.1631	-0.0308	0.0124	
0.0029	1	.							
1496	CD1	CD1	. TYR TYR TYR A A 199 199 .	0.1890	0.1715	0.2457	-0.0615	0.0459	
0.0042	1	.							
1497	CE1	CE1	. TYR TYR TYR A A 199 199 .	0.2284	0.1692	0.2538	-0.0623	0.0228	-
0.0100	1	.							
1498	CZ	CZ	. TYR TYR TYR A A 199 199 .	0.2619	0.1770	0.2555	-0.0723	0.0088	
0.0130	1	.							
1499	OH	OH	. TYR TYR TYR A A 199 199 .	0.3649	0.2262	0.2796	-0.0983	-0.0378	
0.0022	1	.							
1500	CE2	CE2	. TYR TYR TYR A A 199 199 .	0.1886	0.1252	0.1894	-0.0955	-0.0097	
0.0096	1	.							
1501	CD2	CD2	. TYR TYR TYR A A 199 199 .	0.1669	0.1508	0.2025	-0.0598	-0.0411	
0.0117	1	.							
1502	C	C	. TYR TYR TYR A A 199 199 .	0.1512	0.1999	0.1797	-0.0102	-0.0041	-
0.0200	1	.							
1503	O	O	. TYR TYR TYR A A 199 199 .	0.1829	0.2608	0.1927	0.0018	0.0189	-
0.0383	1	.							
1504	N	N	. GLY GLY GLY A A 200 200 .	0.1642	0.1780	0.1811	-0.0118	-0.0048	-
0.0065	1	.							
1505	CA	CA	. GLY GLY GLY A A 200 200 .	0.1395	0.1763	0.1885	-0.0303	-0.0114	-
0.0129	1	.							
1506	C	C	. GLY GLY GLY A A 200 200 .	0.1537	0.1671	0.1699	-0.0088	-0.0031	-
0.0133	1	.							
1507	O	O	. GLY GLY GLY A A 200 200 .	0.1397	0.1674	0.1397	0.0011	-0.0178	-
0.0167	1	.							
1508	N	N	. LYS LYS LYS A A 201 201 .	0.1563	0.1683	0.1783	-0.0134	-0.0263	
0.0020	1	.							
1509	CA	CA	. LYS LYS LYS A A 201 201 .	0.1770	0.1713	0.1740	-0.0095	-0.0143	-
0.0056	1	.							
1510	CB	CB	. LYS LYS LYS A A 201 201 .	0.1778	0.1918	0.2015	-0.0140	-0.0088	
0.0083	1	.							
1511	CG	CG	. LYS LYS LYS A A 201 201 .	0.3005	0.2938	0.2224	0.0318	-0.0061	
0.0187	1	.							
1512	CD	CD	. LYS LYS LYS A A 201 201 .	0.3246	0.4614	0.3548	0.0056	-0.0328	
0.1288	1	.							
1513	CE	CE	. LYS LYS LYS A A 201 201 .	0.4566	0.5103	0.3943	-0.0323	-0.0195	
0.1148	1	.							
1514	NZ	NZ	. LYS LYS LYS A A 201 201 .	0.5100	0.5726	0.4809	-0.0718	0.0042	
0.1397	1	.							
1515	C	C	. LYS LYS LYS A A 201 201 .	0.1626	0.1633	0.1516	-0.0087	-0.0034	-
0.0016	1	.							
1516	O	O	. LYS LYS LYS A A 201 201 .	0.1605	0.1650	0.1938	-0.0174	-0.0343	-
0.0001	1	.							
1517	N	N	. ASP ASP ASP A A 202 202 .	0.1655	0.1527	0.1801	0.0020	-0.0245	-
0.0159	1	.							
1518	CA	CA	. ASP ASP ASP A A 202 202 .	0.1570	0.1395	0.1568	0.0061	0.0010	-
0.0249	1	.							
1519	CB	CB	. ASP ASP ASP A A 202 202 .	0.1397	0.1796	0.1760	-0.0039	0.0090	-
0.0235	1	.							
1520	CG	CG	. ASP ASP ASP A A 202 202 .	0.2106	0.2665	0.2500	-0.0080	-0.0130	-
0.0539	1	.							
1521	OD1	OD1	. ASP ASP ASP A A 202 202 .	0.2434	0.2873	0.3466	-0.0271	0.0096	
0.0047	1	.							
1522	OD2	OD2	. ASP ASP ASP A A 202 202 .	0.2817	0.3413	0.3471	0.0449	-0.0141	-
0.0938	1	.							

1523	C	C	. ASP ASP ASP A A 202 202 .	0.1609	0.1594	0.1753	-0.0158	0.0072	-
0.0213	1	.							
1524	O	O	. ASP ASP ASP A A 202 202 .	0.1870	0.1658	0.2030	0.0042	0.0332	-
0.0212	1	.							
1525	N	N	. ALA ALA ALA A A 203 203 .	0.1126	0.1389	0.1317	-0.0113	0.0032	-
0.0138	1	.							
1526	CA	CA	. ALA ALA ALA A A 203 203 .	0.1105	0.1263	0.1418	-0.0286	-0.0043	-
0.0063	1	.							
1527	CB	CB	. ALA ALA ALA A A 203 203 .	0.1183	0.1720	0.1236	-0.0223	-0.0324	-
0.0041	1	.							
1528	C	C	. ALA ALA ALA A A 203 203 .	0.1093	0.1361	0.1366	-0.0009	-0.0068	
0.0094	1	.							
1529	O	O	. ALA ALA ALA A A 203 203 .	0.1395	0.1615	0.1448	-0.0064	-0.0160	-
0.0197	1	.							
1530	N	N	. THR THR THR A A 204 204 .	0.1131	0.1143	0.1356	0.0000	-0.0244	-
0.0150	1	.							
1531	CA	CA	. THR THR THR A A 204 204 .	0.1244	0.1302	0.1487	-0.0092	-0.0062	-
0.0096	1	.							
1532	CB	CB	. THR THR THR A A 204 204 .	0.1196	0.1398	0.1578	-0.0195	-0.0041	-
0.0341	1	.							
1533	OG1	OG1	. THR THR THR A A 204 204 .	0.1375	0.1673	0.2211	-0.0189	0.0020	
0.0068	1	.							
1534	CG2	CG2	. THR THR THR A A 204 204 .	0.1476	0.1430	0.1975	-0.0405	-0.0058	-
0.0356	1	.							
1535	C	C	. THR THR THR A A 204 204 .	0.1059	0.0942	0.1367	-0.0085	-0.0016	-
0.0120	1	.							
1536	O	O	. THR THR THR A A 204 204 .	0.1279	0.1413	0.1387	-0.0318	0.0039	-
0.0149	1	.							
1537	N	N	. ASN ASN ASN A A 205 205 .	0.1071	0.1054	0.1110	-0.0300	0.0062	
0.0016	1	.							
1538	CA	CA	. ASN ASN ASN A A 205 205 .	0.1124	0.0902	0.1037	-0.0098	0.0107	
0.0033	1	.							
1539	CB	CB	. ASN ASN ASN A A 205 205 .	0.1380	0.1012	0.1073	-0.0159	0.0033	-
0.0099	1	.							
1540	CG	CG	. ASN ASN ASN A A 205 205 .	0.1122	0.1752	0.1301	-0.0163	-0.0042	
0.0098	1	.							
1541	OD1	OD1	. ASN ASN ASN A A 205 205 .	0.1473	0.1713	0.1491	-0.0007	0.0071	
0.0368	1	.							
1542	ND2	ND2	. ASN ASN ASN A A 205 205 .	0.1523	0.1971	0.1801	-0.0398	0.0216	-
0.0186	1	.							
1543	C	C	. ASN ASN ASN A A 205 205 .	0.1125	0.1066	0.0990	-0.0276	-0.0025	-
0.0029	1	.							
1544	O	O	. ASN ASN ASN A A 205 205 .	0.1365	0.1239	0.0941	-0.0195	-0.0185	
0.0080	1	.							
1545	N	N	. VAL VAL VAL A A 206 206 .	0.1003	0.0820	0.1123	-0.0097	-0.0009	
0.0017	1	.							
1546	CA	CA	. VAL VAL VAL A A 206 206 .	0.0863	0.0908	0.0857	-0.0029	0.0290	
0.0023	1	.							
1547	CB	CB	. VAL VAL VAL A A 206 206 .	0.0850	0.0859	0.1017	-0.0101	-0.0025	-
0.0098	1	.							
1548	CG1	CG1	. VAL VAL VAL A A 206 206 .	0.0972	0.0954	0.1197	0.0100	0.0262	-
0.0160	1	.							
1549	CG2	CG2	. VAL VAL VAL A A 206 206 .	0.1022	0.1183	0.1031	0.0035	-0.0149	
0.0135	1	.							
1550	C	C	. VAL VAL VAL A A 206 206 .	0.0817	0.0990	0.0864	-0.0082	-0.0003	-
0.0059	1	.							
1551	O	O	. VAL VAL VAL A A 206 206 .	0.0769	0.1034	0.0930	-0.0076	0.0175	-
0.0090	1	.							
1552	N	N	. GLY GLY GLY A A 207 207 .	0.0884	0.1065	0.1071	0.0000	0.0171	
0.0226	1	.							

1553	CA	CA	. GLY GLY GLY A A 207 207 .	0.1007	0.0813	0.1058	0.0091	0.0128	-
0.0006	1	.							
1554	C	C	. GLY GLY GLY A A 207 207 .	0.0883	0.0993	0.0756	0.0150	0.0028	-
0.0057	1	.							
1555	O	O	. GLY GLY GLY A A 207 207 .	0.0931	0.0902	0.0992	0.0023	-0.0063	-
0.0016	1	.							
1556	N	N	. ASP ASP ASP A A 208 208 .	0.1143	0.0849	0.1095	-0.0195	0.0004	
0.0105	1	.							
1557	CA	CA	. ASP ASP ASP A A 208 208 .	0.0902	0.0891	0.1098	-0.0043	0.0011	
0.0083	1	.							
1558	CB	CB	. ASP ASP ASP A A 208 208 .	0.0895	0.0974	0.0954	0.0010	0.0083	
0.0065	1	.							
1559	CG	CG	. ASP ASP ASP A A 208 208 .	0.1252	0.1296	0.1089	0.0104	-0.0132	-
0.0082	1	.							
1560	OD1	OD1	. ASP ASP ASP A A 208 208 .	0.1401	0.1605	0.1610	0.0167	0.0113	
0.0163	1	.							
1561	OD2	OD2	. ASP ASP ASP A A 208 208 .	0.1287	0.1380	0.1665	0.0258	-0.0048	
0.0166	1	.							
1562	C	C	. ASP ASP ASP A A 208 208 .	0.1054	0.0837	0.0705	0.0052	-0.0060	
0.0086	1	.							
1563	O	O	. ASP ASP ASP A A 208 208 .	0.0956	0.0961	0.0867	-0.0124	0.0089	
0.0021	1	.							
1564	N	N	. GLU GLU GLU A A 209 209 .	0.0986	0.0683	0.0853	0.0200	0.0100	-
0.0006	1	.							
1565	CA	CA	. GLU GLU GLU A A 209 209 .	0.0839	0.0795	0.0789	0.0054	0.0073	
0.0137	1	.							
1566	CB	CB	. GLU GLU GLU A A 209 209 .	0.1275	0.0849	0.0866	0.0241	-0.0040	
0.0026	1	.							
1567	CG	CG	. GLU GLU GLU A A 209 209 .	0.1367	0.1082	0.1059	0.0133	0.0214	
0.0161	1	.							
1568	CD	CD	. GLU GLU GLU A A 209 209 .	0.1145	0.1618	0.1447	0.0069	0.0453	
0.0096	1	.							
1569	OE1	OE1	. GLU GLU GLU A A 209 209 .	0.1364	0.1290	0.1401	0.0018	-0.0129	
0.0157	1	.							
1570	OE2	OE2	. GLU GLU GLU A A 209 209 .	0.1317	0.1211	0.1600	0.0040	0.0173	
0.0162	1	.							
1571	C	C	. GLU GLU GLU A A 209 209 .	0.0875	0.0899	0.0866	-0.0070	0.0174	-
0.0037	1	.							
1572	O	O	. GLU GLU GLU A A 209 209 .	0.0778	0.0936	0.0944	-0.0135	0.0176	-
0.0095	1	.							
1573	N	N	. GLY GLY GLY A A 210 210 .	0.0939	0.0731	0.0713	-0.0081	-0.0222	
0.0124	1	.							
1574	CA	CA	. GLY GLY GLY A A 210 210 .	0.0883	0.0742	0.0969	-0.0077	-0.0034	-
0.0149	1	.							
1575	C	C	. GLY GLY GLY A A 210 210 .	0.0786	0.0791	0.0754	0.0042	-0.0065	-
0.0132	1	.							
1576	O	O	. GLY GLY GLY A A 210 210 .	0.1059	0.1051	0.0948	0.0179	-0.0077	
0.0003	1	.							
1577	N	N	. GLY GLY GLY A A 211 211 .	0.0652	0.0949	0.0895	-0.0219	-0.0038	
0.0000	1	.							
1578	CA	CA	. GLY GLY GLY A A 211 211 .	0.0793	0.1095	0.0993	-0.0410	0.0178	
0.0010	1	.							
1579	C	C	. GLY GLY GLY A A 211 211 .	0.0909	0.0790	0.0785	-0.0072	0.0078	
0.0060	1	.							
1580	O	O	. GLY GLY GLY A A 211 211 .	0.1097	0.1232	0.1024	-0.0027	0.0200	
0.0004	1	.							
1581	N	N	. PHE PHE PHE A A 212 212 .	0.1129	0.0863	0.0864	-0.0216	0.0062	-
0.0074	1	.							
1582	CA	CA	. PHE PHE PHE A A 212 212 .	0.0905	0.0820	0.1110	-0.0022	0.0129	-
0.0094	1	.							



1613	CA	CA	. ILE ILE ILE A A 216 216 .	0.1452	0.1522	0.1382	-0.0267	-0.0022
0.0142	1	.						
1614	CB	CB	. ILE ILE ILE A A 216 216 .	0.1802	0.1677	0.1659	-0.0091	-0.0075
0.0277	1	.						
1615	CG1	CG1	. ILE ILE ILE A A 216 216 .	0.1405	0.1451	0.1125	-0.0223	0.0154
0.0019	1	.						
1616	CD	CD	. ILE ILE ILE A A 216 216 .	0.2031	0.1434	0.1967	0.0031	-0.0057
0.0255	1	.						
1617	CG2	CG2	. ILE ILE ILE A A 216 216 .	0.2291	0.1851	0.2107	0.0304	-0.0127
0.0407	1	.						
1618	C	C	. ILE ILE ILE A A 216 216 .	0.1315	0.1668	0.1610	-0.0176	-0.0009
0.0097	1	.						
1619	O	O	. ILE ILE ILE A A 216 216 .	0.1339	0.1633	0.1675	-0.0135	0.0109
0.0188	1	.						
1620	N	N	. LEU LEU LEU A A 217 217 .	0.1379	0.1757	0.1318	-0.0150	-0.0153
0.0336	1	.						
1621	CA	CA	. LEU LEU LEU A A 217 217 .	0.1282	0.1834	0.1652	0.0120	0.0067
0.0200	1	.						
1622	CB	CB	. LEU LEU LEU A A 217 217 .	0.1453	0.2219	0.2226	0.0010	-0.0075
0.0495	1	.						
1623	CG	CG	. LEU LEU LEU A A 217 217 .	0.1198	0.2198	0.1815	0.0167	0.0025
0.0255	1	.						
1624	CD1	CD1	. LEU LEU LEU A A 217 217 .	0.1581	0.2377	0.1850	0.0231	-0.0025
0.0307	1	.						
1625	CD2	CD2	. LEU LEU LEU A A 217 217 .	0.1062	0.1953	0.2655	0.0175	0.0147
0.0354	1	.						
1626	C	C	. LEU LEU LEU A A 217 217 .	0.1420	0.1767	0.1779	0.0037	0.0162
0.0096	1	.						
1627	O	O	. LEU LEU LEU A A 217 217 .	0.1580	0.1815	0.1875	-0.0169	0.0139
0.0299	1	.						
1628	N	N	. GLU GLU GLU A A 218 218 .	0.1451	0.1597	0.1809	-0.0118	0.0070
0.0065	1	.						
1629	CA	CA	. GLU GLU GLU A A 218 218 .	0.1480	0.1742	0.1838	-0.0067	0.0198
0.0024	1	.						
1630	CB	CB	. GLU GLU GLU A A 218 218 .	0.1779	0.2093	0.2201	-0.0460	0.0275
0.0172	1	.						
1631	CG	CG	. GLU GLU GLU A A 218 218 .	0.2148	0.3376	0.3516	-0.0333	-0.0104
0.0180	1	.						
1632	CD	CD	. GLU GLU GLU A A 218 218 .	0.4144	0.5213	0.4648	-0.0685	-0.0542
0.0373	1	.						
1633	OE1	OE1	. GLU GLU GLU A A 218 218 .	0.5201	0.5003	0.6106	-0.0800	-0.0054
0.0189	1	.						
1634	OE2	OE2	. GLU GLU GLU A A 218 218 .	0.4458	0.5628	0.5436	-0.0630	-0.0043
0.0758	1	.						
1635	C	C	. GLU GLU GLU A A 218 218 .	0.1601	0.1690	0.1756	-0.0020	0.0089
0.0157	1	.						
1636	O	O	. GLU GLU GLU A A 218 218 .	0.1705	0.1535	0.1591	-0.0019	0.0057
0.0021	1	.						
1637	N	N	. ASN ASN ASN A A 219 219 .	0.1451	0.1679	0.1553	-0.0115	-0.0044
0.0241	1	.						
1638	CA	CA	. ASN ASN ASN A A 219 219 .	0.1262	0.1292	0.1458	-0.0039	-0.0079
0.0204	1	.						
1639	CB	CB	. ASN ASN ASN A A 219 219 .	0.1546	0.1128	0.1215	0.0112	-0.0088
0.0167	1	.						
1640	CG	CG	. ASN ASN ASN A A 219 219 .	0.1141	0.1229	0.1258	0.0039	0.0065
0.0035	1	.						
1641	OD1	OD1	. ASN ASN ASN A A 219 219 .	0.1639	0.2014	0.2039	0.0633	0.0191
0.0480	1	.						
1642	ND2	ND2	. ASN ASN ASN A A 219 219 .	0.0645	0.0954	0.1196	0.0004	-0.0077
0.0036	1	.						

1643	C	C	. ASN ASN ASN A A 219 219 .	0.1337	0.1462	0.1518	0.0019	-0.0035	
0.0156	1	.							
1644	O	O	. ASN ASN ASN A A 219 219 .	0.1264	0.1538	0.1784	-0.0070	-0.0205	
0.0257	1	.							
1645	N	N	. SER SER SER A A 220 220 .	0.1395	0.1494	0.1562	-0.0120	-0.0124	
0.0041	1	.							
1646	CA	CA	. SER SER SER A A 220 220 .	0.1361	0.1590	0.1483	-0.0019	-0.0333	
0.0032	1	.							
1647	CB	CB	. SER SER SER A A 220 220 .	0.1710	0.1817	0.1731	-0.0269	-0.0122	-
0.0303	1	.							
1648	OG	OG	. SER SER SER A A 220 220 .	0.1981	0.2579	0.2356	-0.0539	-0.0284	
0.0365	1	.							
1649	C	C	. SER SER SER A A 220 220 .	0.1339	0.1611	0.1613	-0.0121	-0.0194	-
0.0014	1	.							
1650	O	O	. SER SER SER A A 220 220 .	0.1549	0.1672	0.1399	0.0169	-0.0092	
0.0100	1	.							
1651	N	N	. GLU GLU GLU A A 221 221 .	0.1470	0.1567	0.1576	-0.0005	-0.0198	
0.0210	1	.							
1652	CA	CA	. GLU GLU GLU A A 221 221 .	0.1310	0.1534	0.1422	-0.0061	-0.0107	
0.0104	1	.							
1653	CB	CB	. GLU GLU GLU A A 221 221 .	0.1892	0.1824	0.1680	-0.0173	-0.0065	
0.0288	1	.							
1654	CG	CG	. GLU GLU GLU A A 221 221 .	0.1824	0.1855	0.2181	-0.0296	-0.0251	
0.0328	1	.							
1655	CD	CD	. GLU GLU GLU A A 221 221 .	0.3591	0.2522	0.3334	-0.0363	-0.0648	-
0.0157	1	.							
1656	OE1	OE1	. GLU GLU GLU A A 221 221 .	0.4125	0.3913	0.3185	-0.0397	-0.0785	
0.0217	1	.							
1657	OE2	OE2	. GLU GLU GLU A A 221 221 .	0.3592	0.3618	0.3804	-0.0558	-0.1003	
0.0165	1	.							
1658	C	C	. GLU GLU GLU A A 221 221 .	0.1242	0.1227	0.1324	-0.0012	-0.0062	
0.0009	1	.							
1659	O	O	. GLU GLU GLU A A 221 221 .	0.1354	0.1339	0.1529	-0.0029	0.0028	
0.0059	1	.							
1660	N	N	. ALA ALA ALA A A 222 222 .	0.1098	0.1137	0.1267	0.0026	0.0074	
0.0093	1	.							
1661	CA	CA	. ALA ALA ALA A A 222 222 .	0.1268	0.1363	0.1305	-0.0117	-0.0038	
0.0031	1	.							
1662	CB	CB	. ALA ALA ALA A A 222 222 .	0.1413	0.1216	0.1348	-0.0106	-0.0086	-
0.0050	1	.							
1663	C	C	. ALA ALA ALA A A 222 222 .	0.1357	0.1330	0.1271	0.0005	-0.0154	
0.0110	1	.							
1664	O	O	. ALA ALA ALA A A 222 222 .	0.1351	0.1235	0.1109	-0.0184	-0.0185	
0.0100	1	.							
1665	N	N	. LEU LEU LEU A A 223 223 .	0.1105	0.1163	0.0949	-0.0298	-0.0115	
0.0112	1	.							
1666	CA	CA	. LEU LEU LEU A A 223 223 .	0.1340	0.1387	0.1276	-0.0105	-0.0180	
0.0130	1	.							
1667	CB	CB	. LEU LEU LEU A A 223 223 .	0.0970	0.1271	0.1095	-0.0100	-0.0158	
0.0278	1	.							
1668	CG	CG	. LEU LEU LEU A A 223 223 .	0.1017	0.1325	0.1300	-0.0046	-0.0228	
0.0155	1	.							
1669	CD1	CD1	. LEU LEU LEU A A 223 223 .	0.1458	0.1746	0.1355	-0.0055	-0.0425	
0.0570	1	.							
1670	CD2	CD2	. LEU LEU LEU A A 223 223 .	0.1205	0.1710	0.1582	-0.0086	0.0202	-
0.0014	1	.							
1671	C	C	. LEU LEU LEU A A 223 223 .	0.1192	0.1249	0.1305	-0.0051	-0.0075	
0.0031	1	.							
1672	O	O	. LEU LEU LEU A A 223 223 .	0.1319	0.1362	0.1478	0.0224	-0.0204	-
0.0165	1	.							

1673	N	N	. GLU GLU GLU A A 224 224 .	0.1160	0.1234	0.1311	-0.0102	-0.0173	
0.0130	1	.							
1674	CA	CA	. GLU GLU GLU A A 224 224 .	0.1479	0.1596	0.1678	-0.0048	-0.0112	
0.0101	1	.							
1675	CB	CB	. GLU GLU GLU A A 224 224 .	0.1462	0.1596	0.2190	-0.0189	-0.0169	-
0.0089	1	.							
1676	CG	CG	. GLU GLU GLU A A 224 224 .	0.2846	0.2413	0.2815	-0.0160	-0.0259	-
0.0031	1	.							
1677	CD	CD	. GLU GLU GLU A A 224 224 .	0.4286	0.3247	0.3106	-0.0308	0.0085	-
0.0597	1	.							
1678	OE1	OE1	. GLU GLU GLU A A 224 224 .	0.6005	0.4032	0.4809	-0.0146	0.0127	-
0.0390	1	.							
1679	OE2	OE2	. GLU GLU GLU A A 224 224 .	0.4379	0.3517	0.3522	-0.1340	0.0337	
0.0130	1	.							
1680	C	C	. GLU GLU GLU A A 224 224 .	0.1227	0.1237	0.1340	-0.0044	0.0016	
0.0054	1	.							
1681	O	O	. GLU GLU GLU A A 224 224 .	0.1386	0.1378	0.1607	-0.0045	-0.0230	-
0.0061	1	.							
1682	N	N	. LEU LEU LEU A A 225 225 .	0.1442	0.1189	0.1423	-0.0120	-0.0110	
0.0117	1	.							
1683	CA	CA	. LEU LEU LEU A A 225 225 .	0.1158	0.1435	0.1129	-0.0123	-0.0040	
0.0147	1	.							
1684	CB	CB	. LEU LEU LEU A A 225 225 .	0.1204	0.1286	0.1271	-0.0167	0.0108	-
0.0109	1	.							
1685	CG	CG	. LEU LEU LEU A A 225 225 .	0.1555	0.1582	0.1722	-0.0140	0.0165	
0.0283	1	.							
1686	CD1	CD1	. LEU LEU LEU A A 225 225 .	0.1342	0.1789	0.1205	0.0136	0.0036	
0.0238	1	.							
1687	CD2	CD2	. LEU LEU LEU A A 225 225 .	0.2148	0.1663	0.1897	-0.0515	0.0411	
0.0525	1	.							
1688	C	C	. LEU LEU LEU A A 225 225 .	0.1159	0.1340	0.1250	-0.0011	0.0080	
0.0064	1	.							
1689	O	O	. LEU LEU LEU A A 225 225 .	0.1247	0.1203	0.1207	-0.0015	-0.0051	
0.0045	1	.							
1690	N	N	. VAL VAL VAL A A 226 226 .	0.0974	0.1136	0.1164	-0.0051	-0.0105	
0.0068	1	.							
1691	CA	CA	. VAL VAL VAL A A 226 226 .	0.1074	0.1111	0.1236	-0.0136	-0.0149	-
0.0040	1	.							
1692	CB	CB	. VAL VAL VAL A A 226 226 .	0.1176	0.1187	0.0896	-0.0184	-0.0078	
0.0234	1	.							
1693	CG1	CG1	. VAL VAL VAL A A 226 226 .	0.1256	0.1363	0.1407	-0.0192	0.0272	
0.0135	1	.							
1694	CG2	CG2	. VAL VAL VAL A A 226 226 .	0.1377	0.1508	0.1035	-0.0392	-0.0022	-
0.0184	1	.							
1695	C	C	. VAL VAL VAL A A 226 226 .	0.0919	0.1222	0.1273	-0.0090	-0.0105	
0.0033	1	.							
1696	O	O	. VAL VAL VAL A A 226 226 .	0.1098	0.1129	0.1372	0.0212	-0.0171	-
0.0045	1	.							
1697	N	N	. LYS LYS LYS A A 227 227 .	0.1191	0.1343	0.1165	-0.0015	-0.0232	-
0.0048	1	.							
1698	CA	CA	. LYS LYS LYS A A 227 227 .	0.1554	0.1410	0.1573	-0.0012	-0.0328	-
0.0179	1	.							
1699	CB	CB	. LYS LYS LYS A A 227 227 .	0.1870	0.1566	0.1474	0.0020	-0.0462	-
0.0239	1	.							
1700	CG	CG	. LYS LYS LYS A A 227 227 .	0.2113	0.2112	0.1731	0.0089	-0.0601	-
0.0342	1	.							
1701	CD	CD	. LYS LYS LYS A A 227 227 .	0.3126	0.3703	0.2736	0.0288	-0.0737	-
0.0115	1	.							
1702	CE	CE	. LYS LYS LYS A A 227 227 .	0.3690	0.3720	0.2945	0.0517	-0.0739	
0.0311	1	.							



1703	NZ	NZ	. LYS LYS LYS A A 227 227 .	0.3145	0.3237	0.4201	0.0387	-0.1502	
0.0161	1	.							
1704	C	C	. LYS LYS LYS A A 227 227 .	0.1336	0.1347	0.1254	-0.0103	-0.0193	-
0.0179	1	.							
1705	O	O	. LYS LYS LYS A A 227 227 .	0.1297	0.1354	0.1609	-0.0026	-0.0085	-
0.0040	1	.							
1706	N	N	. GLU GLU GLU A A 228 228 .	0.1273	0.1318	0.1487	-0.0107	-0.0199	
0.0003	1	.							
1707	CA	CA	. GLU GLU GLU A A 228 228 .	0.1120	0.1230	0.1285	-0.0115	-0.0276	-
0.0006	1	.							
1708	CB	CB	. GLU GLU GLU A A 228 228 .	0.1738	0.1629	0.1705	-0.0094	-0.0070	
0.0208	1	.							
1709	CG	CG	. GLU GLU GLU A A 228 228 .	0.2498	0.1847	0.2265	-0.0238	-0.0637	
0.0133	1	.							
1710	CD	CD	. GLU GLU GLU A A 228 228 .	0.5220	0.3735	0.4529	-0.0857	-0.0303	
0.0053	1	.							
1711	OE1	OE1	. GLU GLU GLU A A 228 228 .	0.5862	0.4953	0.4631	-0.1100	0.0253	
0.0158	1	.							
1712	OE2	OE2	. GLU GLU GLU A A 228 228 .	0.6332	0.4721	0.5464	-0.0860	-0.0302	
0.1006	1	.							
1713	C	C	. GLU GLU GLU A A 228 228 .	0.1148	0.1296	0.1444	-0.0043	-0.0237	-
0.0095	1	.							
1714	O	O	. GLU GLU GLU A A 228 228 .	0.1482	0.1368	0.1559	-0.0081	-0.0067	-
0.0150	1	.							
1715	N	N	. ALA ALA ALA A A 229 229 .	0.1230	0.1224	0.1318	-0.0066	-0.0086	-
0.0073	1	.							
1716	CA	CA	. ALA ALA ALA A A 229 229 .	0.1312	0.1358	0.1284	-0.0014	-0.0195	-
0.0108	1	.							
1717	CB	CB	. ALA ALA ALA A A 229 229 .	0.1297	0.1064	0.1026	-0.0115	0.0022	-
0.0086	1	.							
1718	C	C	. ALA ALA ALA A A 229 229 .	0.1341	0.1196	0.1287	-0.0025	-0.0186	
0.0012	1	.							
1719	O	O	. ALA ALA ALA A A 229 229 .	0.1289	0.1112	0.1247	-0.0043	-0.0160	-
0.0045	1	.							
1720	N	N	. ILE ILE ILE A A 230 230 .	0.1424	0.1099	0.1114	-0.0126	-0.0072	-
0.0007	1	.							
1721	CA	CA	. ILE ILE ILE A A 230 230 .	0.1438	0.1063	0.1107	-0.0085	-0.0101	-
0.0186	1	.							
1722	CB	CB	. ILE ILE ILE A A 230 230 .	0.1246	0.0984	0.1198	-0.0084	-0.0016	-
0.0143	1	.							
1723	CG1	CG1	. ILE ILE ILE A A 230 230 .	0.1302	0.1075	0.0926	0.0124	-0.0436	-
0.0049	1	.							
1724	CD	CD	. ILE ILE ILE A A 230 230 .	0.1187	0.1266	0.1102	0.0135	0.0279	
0.0198	1	.							
1725	CG2	CG2	. ILE ILE ILE A A 230 230 .	0.1755	0.1147	0.1264	0.0207	0.0086	-
0.0189	1	.							
1726	C	C	. ILE ILE ILE A A 230 230 .	0.1152	0.1215	0.1284	0.0040	-0.0157	-
0.0221	1	.							
1727	O	O	. ILE ILE ILE A A 230 230 .	0.1233	0.1250	0.1262	0.0190	0.0012	-
0.0250	1	.							
1728	N	N	. ASP ASP ASP A A 231 231 .	0.1191	0.1250	0.1239	-0.0164	-0.0201	-
0.0125	1	.							
1729	CA	CA	. ASP ASP ASP A A 231 231 .	0.1451	0.1444	0.1733	0.0071	-0.0210	-
0.0239	1	.							
1730	CB	CB	. ASP ASP ASP A A 231 231 .	0.1610	0.1524	0.1909	-0.0300	-0.0236	-
0.0440	1	.							
1731	CG	CG	. ASP ASP ASP A A 231 231 .	0.2152	0.2561	0.2602	-0.0110	-0.0383	-
0.0276	1	.							
1732	OD1	OD1	. ASP ASP ASP A A 231 231 .	0.2057	0.3261	0.3913	-0.0324	-0.0550	-
0.0374	1	.							







1823	CE	CE	. MET MET MET A A 243 243 .	0.1415	0.1736	0.1897	-0.0204	0.0058	-
0.0250	1	.							
1824	C	C	. MET MET MET A A 243 243 .	0.0960	0.1174	0.1008	-0.0042	-0.0023	
0.0051	1	.							
1825	O	O	. MET MET MET A A 243 243 .	0.1418	0.1100	0.1022	0.0100	-0.0113	
0.0236	1	.							
1826	N	N	. ASP ASP ASP A A 244 244 .	0.1018	0.0981	0.1105	0.0093	-0.0055	
0.0040	1	.							
1827	CA	CA	. ASP ASP ASP A A 244 244 .	0.0909	0.0934	0.1225	0.0077	-0.0036	-
0.0058	1	.							
1828	CB	CB	. ASP ASP ASP A A 244 244 .	0.1086	0.1128	0.1134	0.0118	-0.0449	
0.0068	1	.							
1829	CG	CG	. ASP ASP ASP A A 244 244 .	0.1146	0.1105	0.1185	0.0006	-0.0102	-
0.0092	1	.							
1830	OD1	OD1	. ASP ASP ASP A A 244 244 .	0.1031	0.0865	0.1059	0.0050	-0.0164	
0.0043	1	.							
1831	OD2	OD2	. ASP ASP ASP A A 244 244 .	0.1010	0.1047	0.0956	-0.0056	-0.0100	-
0.0037	1	.							
1832	C	C	. ASP ASP ASP A A 244 244 .	0.1016	0.1101	0.0980	-0.0043	-0.0021	
0.0127	1	.							
1833	O	O	. ASP ASP ASP A A 244 244 .	0.1130	0.1011	0.0984	-0.0019	0.0003	
0.0072	1	.							
1834	N	N	. VAL VAL VAL A A 245 245 .	0.0844	0.0918	0.0993	0.0113	-0.0081	
0.0011	1	.							
1835	CA	CA	. VAL VAL VAL A A 245 245 .	0.1077	0.1141	0.0886	-0.0057	-0.0039	-
0.0081	1	.							
1836	CB	CB	. VAL VAL VAL A A 245 245 .	0.0881	0.1165	0.1217	0.0253	-0.0197	-
0.0077	1	.							
1837	CG1	CG1	. VAL VAL VAL A A 245 245 .	0.0910	0.1566	0.1284	0.0030	0.0095	
0.0107	1	.							
1838	CG2	CG2	. VAL VAL VAL A A 245 245 .	0.1059	0.1492	0.1115	0.0160	-0.0219	-
0.0281	1	.							
1839	C	C	. VAL VAL VAL A A 245 245 .	0.1213	0.1211	0.1183	0.0025	-0.0172	
0.0023	1	.							
1840	O	O	. VAL VAL VAL A A 245 245 .	0.1075	0.1383	0.1171	0.0205	-0.0088	
0.0105	1	.							
1841	N	N	. ALA ALA ALA A A 246 246 .	0.1095	0.0952	0.1031	0.0026	-0.0161	
0.0081	1	.							
1842	CA	CA	. ALA ALA ALA A A 246 246 .	0.1085	0.1159	0.1023	0.0247	-0.0073	-
0.0036	1	.							
1843	CB	CB	. ALA ALA ALA A A 246 246 .	0.1177	0.1168	0.0896	0.0116	-0.0153	
0.0062	1	.							
1844	C	C	. ALA ALA ALA A A 246 246 .	0.0891	0.1315	0.0831	0.0166	-0.0062	
0.0080	1	.							
1845	O	O	. ALA ALA ALA A A 246 246 .	0.1451	0.1369	0.1110	0.0267	-0.0057	
0.0259	1	.							
1846	N	N	. ALA ALA ALA A A 247 247 .	0.1076	0.1376	0.1007	0.0133	-0.0239	
0.0085	1	.							
1847	CA	CA	. ALA ALA ALA A A 247 247 .	0.1135	0.1400	0.1140	0.0249	-0.0116	
0.0031	1	.							
1848	CB	CB	. ALA ALA ALA A A 247 247 .	0.1199	0.1614	0.1199	0.0271	-0.0259	
0.0343	1	.							
1849	C	C	. ALA ALA ALA A A 247 247 .	0.1211	0.1324	0.1177	0.0155	-0.0068	
0.0152	1	.							
1850	O	O	. ALA ALA ALA A A 247 247 .	0.1047	0.1411	0.1446	0.0130	0.0066	
0.0131	1	.							
1851	N	N	. SER SER SER A A 248 248 .	0.1283	0.0954	0.1072	0.0139	-0.0276	-
0.0018	1	.							
1852	CA	CA	. SER SER SER A A 248 248 .	0.1326	0.1026	0.1352	0.0341	0.0142	
0.0098	1	.							

1853	CB	CB	. SER SER SER A A 248 248 .	0.1244	0.1212	0.1089	0.0085	-0.0039	-
0.0017	1	.							
1854	OG	OG	. SER SER SER A A 248 248 .	0.1161	0.1241	0.1238	0.0044	-0.0138	-
0.0016	1	.							
1855	C	C	. SER SER SER A A 248 248 .	0.1208	0.1228	0.1313	0.0260	0.0121	
0.0027	1	.							
1856	O	O	. SER SER SER A A 248 248 .	0.1839	0.1630	0.1477	0.0523	0.0085	
0.0183	1	.							
1857	N	N	. GLU GLU GLU A A 249 249 .	0.1096	0.1375	0.1185	0.0119	0.0089	
0.0206	1	.							
1858	CA	CA	. GLU GLU GLU A A 249 249 .	0.1333	0.1708	0.1403	0.0156	0.0110	
0.0123	1	.							
1859	CB	CB	. GLU GLU GLU A A 249 249 .	0.1037	0.1698	0.1492	0.0151	0.0188	
0.0376	1	.							
1860	CG	CG	. GLU GLU GLU A A 249 249 .	0.1667	0.1169	0.1490	-0.0363	0.0090	
0.0064	1	.							
1861	CD	CD	. GLU GLU GLU A A 249 249 .	0.1557	0.1714	0.1642	0.0022	0.0412	-
0.0122	1	.							
1862	OE1	OE1	. GLU GLU GLU A A 249 249 .	0.2905	0.2822	0.1986	-0.0008	0.0124	
0.0215	1	.							
1863	OE2	OE2	. GLU GLU GLU A A 249 249 .	0.1540	0.1743	0.1556	0.0299	-0.0003	-
0.0092	1	.							
1864	C	C	. GLU GLU GLU A A 249 249 .	0.1347	0.1789	0.1334	0.0031	0.0103	
0.0085	1	.							
1865	O	O	. GLU GLU GLU A A 249 249 .	0.1671	0.1771	0.1394	0.0169	0.0158	
0.0177	1	.							
1866	N	N	. PHE PHE PHE A A 250 250 .	0.1229	0.1388	0.1675	0.0149	0.0153	
0.0097	1	.							
1867	CA	CA	. PHE PHE PHE A A 250 250 .	0.1302	0.1585	0.1805	0.0186	0.0166	
0.0171	1	.							
1868	CB	CB	. PHE PHE PHE A A 250 250 .	0.1536	0.1678	0.1358	0.0127	0.0192	
0.0147	1	.							
1869	CG	CG	. PHE PHE PHE A A 250 250 .	0.1427	0.1842	0.1394	0.0292	-0.0008	-
0.0002	1	.							
1870	CD1	CD1	. PHE PHE PHE A A 250 250 .	0.1336	0.1468	0.1800	-0.0141	-0.0056	
0.0068	1	.							
1871	CE1	CE1	. PHE PHE PHE A A 250 250 .	0.0817	0.1618	0.1412	-0.0337	0.0035	
0.0038	1	.							
1872	CZ	CZ	. PHE PHE PHE A A 250 250 .	0.1120	0.1613	0.1338	-0.0233	0.0144	
0.0216	1	.							
1873	CE2	CE2	. PHE PHE PHE A A 250 250 .	0.1340	0.1822	0.1851	-0.0023	0.0181	
0.0111	1	.							
1874	CD2	CD2	. PHE PHE PHE A A 250 250 .	0.1635	0.1882	0.1569	-0.0062	-0.0191	
0.0057	1	.							
1875	C	C	. PHE PHE PHE A A 250 250 .	0.1577	0.1583	0.1788	0.0066	0.0036	
0.0149	1	.							
1876	O	O	. PHE PHE PHE A A 250 250 .	0.1481	0.1498	0.2312	0.0358	-0.0021	
0.0234	1	.							
1877	N	N	. TYR TYR TYR A A 251 251 .	0.1513	0.1727	0.2094	0.0323	0.0062	
0.0326	1	.							
1878	CA	CA	. TYR TYR TYR A A 251 251 .	0.1549	0.1633	0.1731	0.0298	0.0051	
0.0286	1	.							
1879	CB	CB	. TYR TYR TYR A A 251 251 .	0.1624	0.1809	0.1712	0.0214	-0.0049	
0.0490	1	.							
1880	CG	CG	. TYR TYR TYR A A 251 251 .	0.1355	0.1934	0.2281	0.0179	0.0320	
0.0389	1	.							
1881	CD1	CD1	. TYR TYR TYR A A 251 251 .	0.1686	0.2069	0.1781	0.0295	0.0102	
0.0506	1	.							
1882	CE1	CE1	. TYR TYR TYR A A 251 251 .	0.1622	0.2116	0.1819	0.0573	0.0036	
0.0348	1	.							

1883	CZ	CZ	. TYR TYR TYR A A 251 251 .	0.2717	0.2009	0.2100	0.0407	-0.0228
0.0803	1	.						
1884	OH	OH	. TYR TYR TYR A A 251 251 .	0.3634	0.2819	0.3124	0.0576	-0.0393
0.1356	1	.						
1885	CE2	CE2	. TYR TYR TYR A A 251 251 .	0.2395	0.2253	0.2589	0.0153	-0.0461
0.1073	1	.						
1886	CD2	CD2	. TYR TYR TYR A A 251 251 .	0.1631	0.1920	0.2496	0.0287	-0.0176
0.0219	1	.						
1887	C	C	. TYR TYR TYR A A 251 251 .	0.1720	0.2020	0.1992	0.0218	0.0077
0.0160	1	.						
1888	O	O	. TYR TYR TYR A A 251 251 .	0.1728	0.1917	0.2045	0.0455	0.0235
0.0167	1	.						
1889	N	N	. ARG ARG ARG A A 252 252 .	0.1724	0.2210	0.2176	0.0431	0.0228
0.0080	1	.						
1890	CA	CA	. ARG ARG ARG A A 252 252 .	0.2127	0.2583	0.2403	0.0374	0.0173
0.0047	1	.						
1891	CB	CB	. ARG ARG ARG A A 252 252 .	0.2178	0.2718	0.2307	0.0400	0.0276
0.0018	1	.						
1892	CG	CG	. ARG ARG ARG A A 252 252 .	0.2134	0.2615	0.2303	0.0376	0.0326
0.0238	1	.						
1893	CD	CD	. ARG ARG ARG A A 252 252 .	0.2497	0.2922	0.2609	0.0024	-0.0424
0.0344	1	.						
1894	NE	NE	. ARG ARG ARG A A 252 252 .	0.2845	0.2778	0.2480	0.0189	-0.0173
0.0546	1	.						
1895	CZ	CZ	. ARG ARG ARG A A 252 252 .	0.2548	0.2922	0.2576	0.0184	-0.0157
0.0736	1	.						
1896	NH1	NH1	. ARG ARG ARG A A 252 252 .	0.1838	0.2907	0.2138	0.0273	0.0146
0.0413	1	.						
1897	NH2	NH2	. ARG ARG ARG A A 252 252 .	0.1508	0.3247	0.2914	0.0360	-0.0182
0.0115	1	.						
1898	C	C	. ARG ARG ARG A A 252 252 .	0.2555	0.3104	0.2476	0.0304	0.0081
0.0047	1	.						
1899	O	O	. ARG ARG ARG A A 252 252 .	0.2116	0.3962	0.2665	0.0470	0.0253
0.0139	1	.						
1900	N	N	. ASP ASP ASP A A 253 253 .	0.3175	0.3643	0.3021	0.0578	-0.0191
0.0058	1	.						
1901	CA	CA	. ASP ASP ASP A A 253 253 .	0.3572	0.3935	0.3263	0.0550	-0.0137
0.0095	1	.						
1902	CB	CB	. ASP ASP ASP A A 253 253 .	0.3773	0.4226	0.3334	0.0444	-0.0122
0.0161	1	.						
1903	CG	CG	. ASP ASP ASP A A 253 253 .	0.4236	0.4645	0.4141	0.0246	0.0159
0.0091	1	.						
1904	OD1	OD1	. ASP ASP ASP A A 253 253 .	0.4236	0.5182	0.4672	0.0363	0.0392
0.0118	1	.						
1905	OD2	OD2	. ASP ASP ASP A A 253 253 .	0.4748	0.5577	0.4065	0.0956	0.0534
0.0439	1	.						
1906	C	C	. ASP ASP ASP A A 253 253 .	0.3493	0.3827	0.3252	0.0409	-0.0141
0.0170	1	.						
1907	O	O	. ASP ASP ASP A A 253 253 .	0.3661	0.3904	0.3496	0.0572	-0.0069
0.0068	1	.						
1908	N	N	. GLY GLY GLY A A 254 254 .	0.2995	0.3132	0.2985	0.0550	-0.0139
0.0391	1	.						
1909	CA	CA	. GLY GLY GLY A A 254 254 .	0.2505	0.2454	0.2610	0.0306	-0.0103
0.0308	1	.						
1910	C	C	. GLY GLY GLY A A 254 254 .	0.2136	0.2380	0.2291	0.0263	-0.0119
0.0301	1	.						
1911	O	O	. GLY GLY GLY A A 254 254 .	0.2445	0.2208	0.2501	0.0186	-0.0110
0.0383	1	.						
1912	N	N	. LYS LYS LYS A A 255 255 .	0.1712	0.2380	0.2210	0.0383	-0.0163
0.0264	1	.						

1913	CA	CA	. LYS LYS LYS A A 255 255 .	0.1807	0.2496	0.2184	0.0138	-0.0383
0.0509	1	.						
1914	CB	CB	. LYS LYS LYS A A 255 255 .	0.2053	0.2794	0.2222	0.0056	-0.0484
0.0565	1	.						
1915	CG	CG	. LYS LYS LYS A A 255 255 .	0.2017	0.3513	0.2470	0.0129	-0.0404
0.0884	1	.						
1916	CD	CD	. LYS LYS LYS A A 255 255 .	0.2116	0.4853	0.4064	-0.0287	-0.0241
0.0523	1	.						
1917	CE	CE	. LYS LYS LYS A A 255 255 .	0.2779	0.5094	0.4871	-0.0410	0.0154
0.0090	1	.						
1918	NZ	NZ	. LYS LYS LYS A A 255 255 .	0.2649	0.5374	0.5391	-0.0846	0.0434
0.0007	1	.						
1919	C	C	. LYS LYS LYS A A 255 255 .	0.1651	0.2171	0.2149	0.0145	-0.0170
0.0329	1	.						
1920	O	O	. LYS LYS LYS A A 255 255 .	0.1815	0.2336	0.2414	0.0273	-0.0172
0.0407	1	.						
1921	N	N	. TYR TYR TYR A A 256 256 .	0.1669	0.2117	0.2058	0.0098	-0.0231
0.0657	1	.						
1922	CA	CA	. TYR TYR TYR A A 256 256 .	0.1449	0.2055	0.2199	-0.0045	-0.0138
0.0563	1	.						
1923	CB	CB	. TYR TYR TYR A A 256 256 .	0.1576	0.2093	0.2097	-0.0202	-0.0061
0.0331	1	.						
1924	CG	CG	. TYR TYR TYR A A 256 256 .	0.1440	0.1806	0.1994	-0.0427	-0.0128
0.0525	1	.						
1925	CD1	CD1	. TYR TYR TYR A A 256 256 .	0.1357	0.1798	0.1646	-0.0021	-0.0103
0.0145	1	.						
1926	CE1	CE1	. TYR TYR TYR A A 256 256 .	0.1903	0.1700	0.1758	0.0427	0.0101
0.0688	1	.						
1927	CZ	CZ	. TYR TYR TYR A A 256 256 .	0.0951	0.1384	0.1506	0.0037	-0.0086
0.0303	1	.						
1928	OH	OH	. TYR TYR TYR A A 256 256 .	0.1224	0.1311	0.1421	0.0117	0.0082
0.0274	1	.						
1929	CE2	CE2	. TYR TYR TYR A A 256 256 .	0.1280	0.1503	0.2137	0.0239	-0.0424
0.0463	1	.						
1930	CD2	CD2	. TYR TYR TYR A A 256 256 .	0.1255	0.2192	0.1768	-0.0050	-0.0183
0.0670	1	.						
1931	C	C	. TYR TYR TYR A A 256 256 .	0.1862	0.1906	0.1840	-0.0181	-0.0136
0.0405	1	.						
1932	O	O	. TYR TYR TYR A A 256 256 .	0.1828	0.2315	0.2251	-0.0150	-0.0122
0.0533	1	.						
1933	N	N	. ASP ASP ASP A A 257 257 .	0.1489	0.2068	0.1802	0.0100	0.0102
0.0402	1	.						
1934	CA	CA	. ASP ASP ASP A A 257 257 .	0.1663	0.2008	0.1927	0.0263	0.0020
0.0337	1	.						
1935	CB	CB	. ASP ASP ASP A A 257 257 .	0.1342	0.1964	0.2098	0.0011	0.0151
0.0300	1	.						
1936	CG	CG	. ASP ASP ASP A A 257 257 .	0.1290	0.1846	0.1716	0.0263	-0.0070
0.0164	1	.						
1937	OD1	OD1	. ASP ASP ASP A A 257 257 .	0.1160	0.2222	0.2346	0.0100	0.0285
0.0216	1	.						
1938	OD2	OD2	. ASP ASP ASP A A 257 257 .	0.1538	0.1986	0.2107	0.0477	0.0265
0.0399	1	.						
1939	C	C	. ASP ASP ASP A A 257 257 .	0.1293	0.1852	0.1804	0.0220	0.0111
0.0100	1	.						
1940	O	O	. ASP ASP ASP A A 257 257 .	0.1684	0.1693	0.1792	0.0197	0.0149
0.0299	1	.						
1941	N	N	. LEU LEU LEU A A 258 258 .	0.1331	0.1658	0.1845	0.0347	0.0179
0.0243	1	.						
1942	CA	CA	. LEU LEU LEU A A 258 258 .	0.1472	0.1686	0.1717	0.0367	-0.0097
0.0203	1	.						



1943	CB	CB	. LEU LEU LEU A A 258 258 .	0.1751	0.1770	0.1770	0.0064	-0.0250	
0.0146	1	.							
1944	CG	CG	. LEU LEU LEU A A 258 258 .	0.1894	0.1735	0.1816	-0.0115	-0.0155	
0.0144	1	.							
1945	CD1	CD1	. LEU LEU LEU A A 258 258 .	0.2195	0.1960	0.2285	-0.0018	0.0270	-
0.0202	1	.							
1946	CD2	CD2	. LEU LEU LEU A A 258 258 .	0.1911	0.2265	0.1937	-0.0204	0.0007	
0.0380	1	.							
1947	C	C	. LEU LEU LEU A A 258 258 .	0.1551	0.1712	0.1757	0.0115	0.0355	
0.0290	1	.							
1948	O	O	. LEU LEU LEU A A 258 258 .	0.1476	0.1720	0.1833	0.0226	0.0240	
0.0359	1	.							
1949	N	N	. ASP ASP ASP A A 259 259 .	0.1606	0.2166	0.2100	-0.0045	0.0208	
0.0287	1	.							
1950	CA	CA	. ASP ASP ASP A A 259 259 .	0.1635	0.2160	0.1929	-0.0041	0.0176	
0.0319	1	.							
1951	CB	CB	. ASP ASP ASP A A 259 259 .	0.1553	0.2214	0.1891	-0.0105	-0.0013	
0.0014	1	.							
1952	CG	CG	. ASP ASP ASP A A 259 259 .	0.1700	0.2302	0.2426	-0.0147	0.0221	
0.0454	1	.							
1953	OD1	OD1	. ASP ASP ASP A A 259 259 .	0.1976	0.2446	0.2312	-0.0061	0.0400	
0.0546	1	.							
1954	OD2	OD2	. ASP ASP ASP A A 259 259 .	0.2492	0.3477	0.3352	-0.0495	0.0499	
0.1059	1	.							
1955	C	C	. ASP ASP ASP A A 259 259 .	0.1574	0.1916	0.1911	-0.0082	0.0184	
0.0245	1	.							
1956	O	O	. ASP ASP ASP A A 259 259 .	0.1688	0.2462	0.2053	-0.0087	0.0199	
0.0437	1	.							
1957	N	N	. PHE PHE PHE A A 260 260 .	0.1634	0.1987	0.2166	-0.0023	0.0176	
0.0318	1	.							
1958	CA	CA	. PHE PHE PHE A A 260 260 .	0.1668	0.1886	0.1944	0.0138	0.0242	
0.0143	1	.							
1959	CB	CB	. PHE PHE PHE A A 260 260 .	0.1556	0.1878	0.2012	0.0090	0.0264	
0.0357	1	.							
1960	CG	CG	. PHE PHE PHE A A 260 260 .	0.1957	0.1686	0.1561	0.0189	0.0061	
0.0275	1	.							
1961	CD1	CD1	. PHE PHE PHE A A 260 260 .	0.1451	0.1652	0.1605	0.0005	0.0022	
0.0341	1	.							
1962	CE1	CE1	. PHE PHE PHE A A 260 260 .	0.1698	0.1602	0.1790	0.0161	-0.0092	
0.0460	1	.							
1963	CZ	CZ	. PHE PHE PHE A A 260 260 .	0.1949	0.1626	0.1116	0.0164	0.0271	
0.0258	1	.							
1964	CE2	CE2	. PHE PHE PHE A A 260 260 .	0.1425	0.1935	0.1813	0.0040	-0.0121	
0.0059	1	.							
1965	CD2	CD2	. PHE PHE PHE A A 260 260 .	0.1157	0.1850	0.1806	-0.0029	-0.0071	
0.0422	1	.							
1966	C	C	. PHE PHE PHE A A 260 260 .	0.2009	0.2025	0.2032	0.0229	0.0206	
0.0112	1	.							
1967	O	O	. PHE PHE PHE A A 260 260 .	0.2080	0.2073	0.2234	0.0586	0.0141	
0.0002	1	.							
1968	N	N	. LYS LYS LYS A A 261 261 .	0.2067	0.2312	0.2046	0.0491	0.0158	
0.0190	1	.							
1969	CA	CA	. LYS LYS LYS A A 261 261 .	0.1755	0.2423	0.2023	0.0528	0.0278	
0.0135	1	.							
1970	CB	CB	. LYS LYS LYS A A 261 261 .	0.1544	0.2366	0.2289	0.0429	-0.0040	
0.0162	1	.							
1971	CG	CG	. LYS LYS LYS A A 261 261 .	0.1542	0.2018	0.2012	0.0387	0.0375	-
0.0028	1	.							
1972	CD	CD	. LYS LYS LYS A A 261 261 .	0.1363	0.1491	0.1387	0.0293	0.0277	
0.0099	1	.							



2003	C	C	. ASP ASP ASP A A 265 265 .	0.3305	0.3647	0.3650	0.0245	0.0195	
0.0058	1	.							
2004	O	O	. ASP ASP ASP A A 265 265 .	0.2639	0.3695	0.3735	0.0364	0.0305	
0.0031	1	.							
2005	N	N	. PRO PRO PRO A A 266 266 .	0.3109	0.3622	0.3617	0.0308	0.0163	
0.0189	1	.							
2006	CA	CA	. PRO PRO PRO A A 266 266 .	0.2943	0.3619	0.3712	0.0231	0.0113	
0.0209	1	.							
2007	CB	CB	. PRO PRO PRO A A 266 266 .	0.3108	0.3442	0.3613	0.0240	0.0117	
0.0247	1	.							
2008	CG	CG	. PRO PRO PRO A A 266 266 .	0.3387	0.3551	0.3749	0.0078	0.0047	
0.0274	1	.							
2009	CD	CD	. PRO PRO PRO A A 266 266 .	0.3225	0.3354	0.3396	0.0263	0.0053	
0.0215	1	.							
2010	C	C	. PRO PRO PRO A A 266 266 .	0.2839	0.3612	0.3765	0.0321	0.0103	
0.0300	1	.							
2011	O	O	. PRO PRO PRO A A 266 266 .	0.1965	0.3864	0.3977	0.0317	0.0124	
0.0459	1	.							
2012	N	N	. SER SER SER A A 267 267 .	0.2478	0.3560	0.3811	0.0183	0.0200	
0.0246	1	.							
2013	CA	CA	. SER SER SER A A 267 267 .	0.2972	0.3836	0.3914	0.0120	0.0181	
0.0167	1	.							
2014	CB	CB	. SER SER SER A A 267 267 .	0.3238	0.4086	0.4087	0.0035	0.0226	
0.0145	1	.							
2015	OG	OG	. SER SER SER A A 267 267 .	0.3195	0.4060	0.4476	0.0132	0.0571	
0.0508	1	.							
2016	C	C	. SER SER SER A A 267 267 .	0.2878	0.3829	0.3776	0.0068	-0.0028	
0.0045	1	.							
2017	O	O	. SER SER SER A A 267 267 .	0.2629	0.4019	0.3782	0.0159	-0.0231	
0.0045	1	.							
2018	N	N	. ARG ARG ARG A A 268 268 .	0.2221	0.3442	0.3491	-0.0137	-0.0119	
0.0173	1	.							
2019	CA	CA	. ARG ARG ARG A A 268 268 .	0.2450	0.3157	0.3103	-0.0144	0.0014	
0.0202	1	.							
2020	CB	CB	. ARG ARG ARG A A 268 268 .	0.2502	0.3044	0.3405	-0.0008	0.0033	
0.0296	1	.							
2021	CG	CG	. ARG ARG ARG A A 268 268 .	0.2330	0.3585	0.3287	-0.0123	0.0311	-
0.0249	1	.							
2022	CD	CD	. ARG ARG ARG A A 268 268 .	0.3709	0.4258	0.4316	0.1325	0.0081	
0.0230	1	.							
2023	NE	NE	. ARG ARG ARG A A 268 268 .	0.3294	0.3701	0.3112	0.1652	-0.0123	
0.1041	1	.							
2024	CZ	CZ	. ARG ARG ARG A A 268 268 .	0.2026	0.2841	0.4129	0.0614	-0.0256	
0.0343	1	.							
2025	NH1	NH1	. ARG ARG ARG A A 268 268 .	0.1900	0.3037	0.2883	0.0941	0.0626	
0.0578	1	.							
2026	NH2	NH2	. ARG ARG ARG A A 268 268 .	0.2047	0.3143	0.3347	0.0533	-0.0302	
0.0866	1	.							
2027	C	C	. ARG ARG ARG A A 268 268 .	0.2233	0.2878	0.3088	-0.0179	-0.0067	
0.0191	1	.							
2028	O	O	. ARG ARG ARG A A 268 268 .	0.2089	0.2985	0.2907	-0.0284	-0.0151	
0.0241	1	.							
2029	N	N	. TYR TYR TYR A A 269 269 .	0.1896	0.2837	0.2834	-0.0177	-0.0136	
0.0226	1	.							
2030	CA	CA	. TYR TYR TYR A A 269 269 .	0.1996	0.2760	0.2904	0.0004	0.0015	
0.0177	1	.							
2031	CB	CB	. TYR TYR TYR A A 269 269 .	0.1560	0.2702	0.2811	-0.0195	-0.0092	
0.0253	1	.							
2032	CG	CG	. TYR TYR TYR A A 269 269 .	0.1780	0.2877	0.2991	0.0267	0.0318	
0.0097	1	.							

2033	CD1	CD1	. TYR TYR TYR A A 269 269 .	0.1431	0.2503	0.2613	0.0194	0.0257
0.0118	1	.						
2034	CE1	CE1	. TYR TYR TYR A A 269 269 .	0.1478	0.2770	0.2559	0.0432	0.0113
0.0151	1	.						
2035	CZ	CZ	. TYR TYR TYR A A 269 269 .	0.1553	0.2855	0.2806	0.0425	0.0448
0.0058	1	.						
2036	OH	OH	. TYR TYR TYR A A 269 269 .	0.2092	0.4115	0.2920	0.0145	0.0558
0.0044	1	.						
2037	CE2	CE2	. TYR TYR TYR A A 269 269 .	0.1957	0.2875	0.2840	0.0002	0.0688
0.0346	1	.						
2038	CD2	CD2	. TYR TYR TYR A A 269 269 .	0.1425	0.2727	0.3200	-0.0084	0.0365
0.0177	1	.						
2039	C	C	. TYR TYR TYR A A 269 269 .	0.1835	0.2691	0.2647	-0.0127	-0.0018
0.0272	1	.						
2040	O	O	. TYR TYR TYR A A 269 269 .	0.1747	0.3357	0.3113	-0.0193	-0.0155
0.0002	1	.						
2041	N	N	. ILE ILE ILE A A 270 270 .	0.1516	0.2061	0.2608	0.0022	0.0069
0.0204	1	.						
2042	CA	CA	. ILE ILE ILE A A 270 270 .	0.1500	0.2145	0.2497	-0.0066	-0.0078
0.0377	1	.						
2043	CB	CB	. ILE ILE ILE A A 270 270 .	0.1445	0.2105	0.2560	-0.0096	0.0034
0.0412	1	.						
2044	CG1	CG1	. ILE ILE ILE A A 270 270 .	0.1313	0.2443	0.2737	0.0175	-0.0255
0.0197	1	.						
2045	CD	CD	. ILE ILE ILE A A 270 270 .	0.2034	0.1981	0.2909	0.0050	-0.0163
0.0491	1	.						
2046	CG2	CG2	. ILE ILE ILE A A 270 270 .	0.1826	0.2189	0.2638	-0.0232	0.0213
0.0481	1	.						
2047	C	C	. ILE ILE ILE A A 270 270 .	0.2000	0.2142	0.2612	0.0035	-0.0188
0.0303	1	.						
2048	O	O	. ILE ILE ILE A A 270 270 .	0.1890	0.2195	0.3161	0.0091	-0.0389
0.0465	1	.						
2049	N	N	. THR THR THR A A 271 271 .	0.1774	0.2048	0.2302	0.0032	-0.0144
0.0462	1	.						
2050	CA	CA	. THR THR THR A A 271 271 .	0.1649	0.2445	0.2436	0.0107	-0.0041
0.0470	1	.						
2051	CB	CB	. THR THR THR A A 271 271 .	0.1816	0.2593	0.2284	0.0101	-0.0005
0.0426	1	.						
2052	OG1	OG1	. THR THR THR A A 271 271 .	0.1334	0.2930	0.2717	0.0350	-0.0253
0.0625	1	.						
2053	CG2	CG2	. THR THR THR A A 271 271 .	0.1414	0.2683	0.3310	0.0266	0.0010
0.0450	1	.						
2054	C	C	. THR THR THR A A 271 271 .	0.1543	0.1972	0.2044	0.0197	-0.0029
0.0208	1	.						
2055	O	O	. THR THR THR A A 271 271 .	0.1653	0.2228	0.2313	0.0236	-0.0211
0.0187	1	.						
2056	N	N	. GLY GLY GLY A A 272 272 .	0.1516	0.1911	0.1961	0.0327	-0.0156
0.0266	1	.						
2057	CA	CA	. GLY GLY GLY A A 272 272 .	0.1412	0.1968	0.1988	0.0420	-0.0126
0.0237	1	.						
2058	C	C	. GLY GLY GLY A A 272 272 .	0.1272	0.1995	0.1752	0.0221	-0.0123
0.0250	1	.						
2059	O	O	. GLY GLY GLY A A 272 272 .	0.1447	0.1817	0.2064	0.0295	0.0032
0.0439	1	.						
2060	N	N	. ASP ASP ASP A A 273 273 .	0.1409	0.2002	0.1868	0.0331	-0.0535
0.0168	1	.						
2061	CA	CA	. ASP ASP ASP A A 273 273 .	0.1609	0.1737	0.1989	0.0384	-0.0452
0.0297	1	.						
2062	CB	CB	. ASP ASP ASP A A 273 273 .	0.1785	0.1821	0.2053	0.0562	-0.0482
0.0106	1	.						

2063	CG	CG	. ASP ASP ASP A A 273 273 .	0.3131	0.2474	0.3035	0.0380	-0.0220	
0.0046	1	.							
2064	OD1	OD1	. ASP ASP ASP A A 273 273 .	0.4685	0.5722	0.2992	0.0783	-0.0153	-
0.0046	1	.							
2065	OD2	OD2	. ASP ASP ASP A A 273 273 .	0.4610	0.3310	0.4083	0.0562	-0.0488	-
0.0406	1	.							
2066	C	C	. ASP ASP ASP A A 273 273 .	0.1619	0.1867	0.2135	0.0277	-0.0467	
0.0147	1	.							
2067	O	O	. ASP ASP ASP A A 273 273 .	0.1642	0.1829	0.2463	0.0370	-0.0615	-
0.0037	1	.							
2068	N	N	. GLN GLN GLN A A 274 274 .	0.1530	0.1931	0.2424	0.0199	-0.0650	
0.0279	1	.							
2069	CA	CA	. GLN GLN GLN A A 274 274 .	0.1836	0.2252	0.2649	0.0134	-0.0325	
0.0376	1	.							
2070	CB	CB	. GLN GLN GLN A A 274 274 .	0.2108	0.2396	0.2647	0.0061	-0.0302	
0.0193	1	.							
2071	CG	CG	. GLN GLN GLN A A 274 274 .	0.3055	0.3355	0.3522	-0.0100	-0.0080	
0.0245	1	.							
2072	CD	CD	. GLN GLN GLN A A 274 274 .	0.3528	0.3303	0.3843	-0.0403	0.0321	-
0.0015	1	.							
2073	OE1	OE1	. GLN GLN GLN A A 274 274 .	0.2770	0.3442	0.3851	-0.0018	0.0479	-
0.0234	1	.							
2074	NE2	NE2	. GLN GLN GLN A A 274 274 .	0.3892	0.3140	0.2980	-0.0453	-0.0121	
0.0777	1	.							
2075	C	C	. GLN GLN GLN A A 274 274 .	0.1618	0.1970	0.2405	0.0077	-0.0378	
0.0080	1	.							
2076	O	O	. GLN GLN GLN A A 274 274 .	0.1329	0.2111	0.2804	0.0310	-0.0120	
0.0299	1	.							
2077	N	N	. LEU LEU LEU A A 275 275 .	0.1248	0.1660	0.2125	0.0101	-0.0322	
0.0244	1	.							
2078	CA	CA	. LEU LEU LEU A A 275 275 .	0.1248	0.1470	0.1819	0.0156	-0.0434	
0.0209	1	.							
2079	CB	CB	. LEU LEU LEU A A 275 275 .	0.1272	0.1651	0.1641	0.0092	-0.0370	
0.0212	1	.							
2080	CG	CG	. LEU LEU LEU A A 275 275 .	0.1343	0.1801	0.1738	0.0271	-0.0633	
0.0570	1	.							
2081	CD1	CD1	. LEU LEU LEU A A 275 275 .	0.1982	0.2377	0.1957	0.0020	-0.0616	
0.1187	1	.							
2082	CD2	CD2	. LEU LEU LEU A A 275 275 .	0.1861	0.1945	0.1712	0.0255	-0.0381	
0.0394	1	.							
2083	C	C	. LEU LEU LEU A A 275 275 .	0.1310	0.1485	0.1680	0.0036	-0.0332	
0.0196	1	.							
2084	O	O	. LEU LEU LEU A A 275 275 .	0.1225	0.1440	0.1868	0.0294	-0.0241	
0.0072	1	.							
2085	N	N	. GLY GLY GLY A A 276 276 .	0.1298	0.1605	0.1405	-0.0145	-0.0177	
0.0143	1	.							
2086	CA	CA	. GLY GLY GLY A A 276 276 .	0.1117	0.1544	0.1444	-0.0010	-0.0185	
0.0161	1	.							
2087	C	C	. GLY GLY GLY A A 276 276 .	0.1297	0.1855	0.1674	-0.0111	-0.0186	
0.0143	1	.							
2088	O	O	. GLY GLY GLY A A 276 276 .	0.1635	0.1943	0.1768	-0.0040	-0.0230	
0.0069	1	.							
2089	N	N	. ALA ALA ALA A A 277 277 .	0.1396	0.1884	0.2100	-0.0071	-0.0351	
0.0441	1	.							
2090	CA	CA	. ALA ALA ALA A A 277 277 .	0.1403	0.1923	0.1981	0.0252	-0.0417	
0.0168	1	.							
2091	CB	CB	. ALA ALA ALA A A 277 277 .	0.1299	0.1829	0.2210	0.0163	-0.0735	
0.0122	1	.							
2092	C	C	. ALA ALA ALA A A 277 277 .	0.1441	0.1657	0.1791	0.0006	-0.0310	
0.0074	1	.							

2093	O	O	. ALA ALA ALA A A 277 277 .	0.1761	0.1557	0.2057	0.0145	-0.0461	
0.0145	1	.							
2094	N	N	. LEU LEU LEU A A 278 278 .	0.1617	0.1688	0.1900	0.0286	-0.0088	
0.0317	1	.							
2095	CA	CA	. LEU LEU LEU A A 278 278 .	0.1602	0.1605	0.1758	0.0163	-0.0209	
0.0153	1	.							
2096	CB	CB	. LEU LEU LEU A A 278 278 .	0.1846	0.1789	0.1953	0.0204	-0.0074	
0.0140	1	.							
2097	CG	CG	. LEU LEU LEU A A 278 278 .	0.2436	0.2332	0.1723	-0.0166	-0.0291	
0.0210	1	.							
2098	CD1	CD1	. LEU LEU LEU A A 278 278 .	0.3354	0.2512	0.2882	-0.0436	0.0104	
0.0435	1	.							
2099	CD2	CD2	. LEU LEU LEU A A 278 278 .	0.2997	0.2858	0.1939	-0.0223	-0.0132	-
0.0235	1	.							
2100	C	C	. LEU LEU LEU A A 278 278 .	0.1508	0.1305	0.1631	-0.0047	-0.0128	
0.0054	1	.							
2101	O	O	. LEU LEU LEU A A 278 278 .	0.1178	0.1312	0.1619	0.0081	-0.0246	-
0.0009	1	.							
2102	N	N	. TYR TYR TYR A A 279 279 .	0.1288	0.1558	0.1223	-0.0130	-0.0048	
0.0023	1	.							
2103	CA	CA	. TYR TYR TYR A A 279 279 .	0.1112	0.1429	0.1444	-0.0004	-0.0077	
0.0000	1	.							
2104	CB	CB	. TYR TYR TYR A A 279 279 .	0.1276	0.1175	0.1530	0.0062	-0.0084	-
0.0132	1	.							
2105	CG	CG	. TYR TYR TYR A A 279 279 .	0.1062	0.1478	0.1247	0.0315	-0.0182	
0.0016	1	.							
2106	CD1	CD1	. TYR TYR TYR A A 279 279 .	0.1049	0.1867	0.1385	0.0053	-0.0247	-
0.0073	1	.							
2107	CE1	CE1	. TYR TYR TYR A A 279 279 .	0.0905	0.1226	0.1566	0.0101	-0.0172	
0.0006	1	.							
2108	CZ	CZ	. TYR TYR TYR A A 279 279 .	0.0881	0.1332	0.1109	0.0104	-0.0193	
0.0135	1	.							
2109	OH	OH	. TYR TYR TYR A A 279 279 .	0.1247	0.1555	0.1283	-0.0080	-0.0166	-
0.0056	1	.							
2110	CE2	CE2	. TYR TYR TYR A A 279 279 .	0.1151	0.1408	0.1184	-0.0004	-0.0112	
0.0101	1	.							
2111	CD2	CD2	. TYR TYR TYR A A 279 279 .	0.1054	0.1272	0.1665	-0.0190	-0.0076	-
0.0004	1	.							
2112	C	C	. TYR TYR TYR A A 279 279 .	0.1545	0.1526	0.1597	0.0146	-0.0169	
0.0054	1	.							
2113	O	O	. TYR TYR TYR A A 279 279 .	0.1381	0.1372	0.1385	0.0155	-0.0201	
0.0133	1	.							
2114	N	N	. GLN GLN GLN A A 280 280 .	0.1323	0.1588	0.1277	-0.0135	-0.0277	-
0.0068	1	.							
2115	CA	CA	. GLN GLN GLN A A 280 280 .	0.1542	0.1455	0.1403	0.0023	-0.0451	
0.0043	1	.							
2116	CB	CB	. GLN GLN GLN A A 280 280 .	0.1589	0.1761	0.1680	0.0083	-0.0625	
0.0096	1	.							
2117	CG	CG	. GLN GLN GLN A A 280 280 .	0.2620	0.2191	0.2334	-0.0309	-0.0358	
0.0076	1	.							
2118	CD	CD	. GLN GLN GLN A A 280 280 .	0.2849	0.2694	0.3125	-0.0300	0.0070	-
0.0121	1	.							
2119	OE1	OE1	. GLN GLN GLN A A 280 280 .	0.3830	0.2920	0.3384	-0.0148	0.0337	-
0.0093	1	.							
2120	NE2	NE2	. GLN GLN GLN A A 280 280 .	0.3253	0.3098	0.2794	-0.0516	-0.0641	
0.0216	1	.							
2121	C	C	. GLN GLN GLN A A 280 280 .	0.1778	0.1771	0.1549	0.0177	-0.0358	
0.0073	1	.							
2122	O	O	. GLN GLN GLN A A 280 280 .	0.1542	0.1746	0.1259	0.0316	-0.0315	-
0.0060	1	.							

2123	N	N	. ASP ASP ASP A A 281 281 .	0.1295	0.1510	0.1491	0.0008	-0.0447	
0.0183	1	.							
2124	CA	CA	. ASP ASP ASP A A 281 281 .	0.1519	0.1553	0.1767	-0.0031	-0.0379	
0.0204	1	.							
2125	CB	CB	. ASP ASP ASP A A 281 281 .	0.1708	0.1847	0.1924	0.0044	-0.0449	
0.0246	1	.							
2126	CG	CG	. ASP ASP ASP A A 281 281 .	0.2175	0.2641	0.2646	-0.0019	-0.0311	
0.0098	1	.							
2127	OD1	OD1	. ASP ASP ASP A A 281 281 .	0.2600	0.3365	0.3222	-0.0466	-0.0925	-
0.0184	1	.							
2128	OD2	OD2	. ASP ASP ASP A A 281 281 .	0.1976	0.3878	0.3688	-0.0446	-0.0132	
0.0064	1	.							
2129	C	C	. ASP ASP ASP A A 281 281 .	0.1414	0.1498	0.1331	0.0000	-0.0037	
0.0082	1	.							
2130	O	O	. ASP ASP ASP A A 281 281 .	0.1579	0.1573	0.1827	0.0081	-0.0422	
0.0036	1	.							
2131	N	N	. PHE PHE PHE A A 282 282 .	0.0935	0.1281	0.1540	0.0004	-0.0119	
0.0061	1	.							
2132	CA	CA	. PHE PHE PHE A A 282 282 .	0.1011	0.1520	0.1350	0.0070	-0.0222	
0.0000	1	.							
2133	CB	CB	. PHE PHE PHE A A 282 282 .	0.1439	0.1654	0.1466	0.0231	-0.0057	-
0.0001	1	.							
2134	CG	CG	. PHE PHE PHE A A 282 282 .	0.1266	0.1654	0.1199	0.0134	-0.0397	
0.0289	1	.							
2135	CD1	CD1	. PHE PHE PHE A A 282 282 .	0.1490	0.1715	0.1199	0.0310	-0.0307	
0.0038	1	.							
2136	CE1	CE1	. PHE PHE PHE A A 282 282 .	0.1667	0.2379	0.1403	-0.0016	-0.0466	
0.0028	1	.							
2137	CZ	CZ	. PHE PHE PHE A A 282 282 .	0.1507	0.2168	0.2136	0.0282	-0.0541	
0.0069	1	.							
2138	CE2	CE2	. PHE PHE PHE A A 282 282 .	0.1999	0.2133	0.1398	-0.0033	-0.0221	
0.0116	1	.							
2139	CD2	CD2	. PHE PHE PHE A A 282 282 .	0.1486	0.1747	0.1157	0.0226	-0.0145	
0.0363	1	.							
2140	C	C	. PHE PHE PHE A A 282 282 .	0.1319	0.1265	0.1415	0.0075	-0.0099	-
0.0019	1	.							
2141	O	O	. PHE PHE PHE A A 282 282 .	0.1293	0.1691	0.1486	0.0052	-0.0310	-
0.0040	1	.							
2142	N	N	. VAL VAL VAL A A 283 283 .	0.1061	0.1658	0.1321	-0.0036	-0.0165	-
0.0005	1	.							
2143	CA	CA	. VAL VAL VAL A A 283 283 .	0.1371	0.1456	0.1385	0.0045	-0.0063	
0.0066	1	.							
2144	CB	CB	. VAL VAL VAL A A 283 283 .	0.1655	0.1475	0.1257	-0.0205	-0.0018	
0.0038	1	.							
2145	CG1	CG1	. VAL VAL VAL A A 283 283 .	0.1953	0.1656	0.1701	-0.0092	0.0295	-
0.0181	1	.							
2146	CG2	CG2	. VAL VAL VAL A A 283 283 .	0.1599	0.1517	0.1668	-0.0302	-0.0484	-
0.0224	1	.							
2147	C	C	. VAL VAL VAL A A 283 283 .	0.1526	0.1492	0.1519	0.0124	-0.0166	
0.0050	1	.							
2148	O	O	. VAL VAL VAL A A 283 283 .	0.1544	0.1946	0.1973	0.0180	-0.0379	-
0.0283	1	.							
2149	N	N	. ARG ARG ARG A A 284 284 .	0.1541	0.1419	0.1519	-0.0063	-0.0111	-
0.0174	1	.							
2150	CA	CA	. ARG ARG ARG A A 284 284 .	0.1810	0.1910	0.1759	0.0053	-0.0091	-
0.0044	1	.							
2151	CB	CB	. ARG ARG ARG A A 284 284 .	0.1868	0.2305	0.2234	0.0115	-0.0026	
0.0238	1	.							
2152	CG	CG	. ARG ARG ARG A A 284 284 .	0.3008	0.2907	0.2640	-0.0196	-0.0401	
0.0214	1	.							

2153	CD	CD	. ARG ARG ARG A A 284 284 .	0.3671	0.2038	0.3680	-0.0562	-0.0670	-
0.0643	1	.							
2154	NE	NE	. ARG ARG ARG A A 284 284 .	0.2841	0.3396	0.3723	-0.0110	-0.0753	-
0.0304	1	.							
2155	CZ	CZ	. ARG ARG ARG A A 284 284 .	0.2998	0.3065	0.4028	0.0072	-0.0519	-
0.0135	1	.							
2156	NH1	NH1	. ARG ARG ARG A A 284 284 .	0.3176	0.3584	0.3932	-0.0032	-0.1083	-
0.0491	1	.							
2157	NH2	NH2	. ARG ARG ARG A A 284 284 .	0.3249	0.3382	0.3850	-0.0010	-0.0767	-
0.0512	1	.							
2158	C	C	. ARG ARG ARG A A 284 284 .	0.1911	0.1922	0.1855	0.0085	-0.0022	-
0.0127	1	.							
2159	O	O	. ARG ARG ARG A A 284 284 .	0.2162	0.2184	0.2003	0.0349	-0.0050	-
0.0407	1	.							
2160	N	N	. ASP ASP ASP A A 285 285 .	0.1734	0.1833	0.1698	0.0024	-0.0191	-
0.0023	1	.							
2161	CA	CA	. ASP ASP ASP A A 285 285 .	0.1648	0.1578	0.1681	-0.0001	-0.0283	-
0.0153	1	.							
2162	CB	CB	. ASP ASP ASP A A 285 285 .	0.1423	0.1740	0.1892	-0.0315	-0.0437	-
0.0066	1	.							
2163	CG	CG	. ASP ASP ASP A A 285 285 .	0.1749	0.2016	0.2227	0.0048	-0.0224	-
0.0139	1	.							
2164	OD1	OD1	. ASP ASP ASP A A 285 285 .	0.1807	0.2382	0.2461	-0.0005	-0.0442	-
0.0168	1	.							
2165	OD2	OD2	. ASP ASP ASP A A 285 285 .	0.1258	0.2980	0.3236	0.0058	-0.0068	-
0.0031	1	.							
2166	C	C	. ASP ASP ASP A A 285 285 .	0.1457	0.1504	0.1947	-0.0168	-0.0318	-
0.0070	1	.							
2167	O	O	. ASP ASP ASP A A 285 285 .	0.1553	0.1504	0.1989	-0.0095	-0.0480	-
0.0176	1	.							
2168	N	N	. TYR TYR TYR A A 286 286 .	0.1239	0.1357	0.1614	-0.0237	-0.0314	-
0.0061	1	.							
2169	CA	CA	. TYR TYR TYR A A 286 286 .	0.1440	0.1494	0.1536	-0.0134	-0.0257	-
0.0119	1	.							
2170	CB	CB	. TYR TYR TYR A A 286 286 .	0.1470	0.1457	0.1427	-0.0118	-0.0212	-
0.0318	1	.							
2171	CG	CG	. TYR TYR TYR A A 286 286 .	0.1619	0.1297	0.1486	-0.0286	-0.0373	-
0.0100	1	.							
2172	CD1	CD1	. TYR TYR TYR A A 286 286 .	0.1975	0.1576	0.2038	-0.0526	-0.0186	-
0.0058	1	.							
2173	CE1	CE1	. TYR TYR TYR A A 286 286 .	0.2771	0.2542	0.2193	-0.0731	0.0503	-
0.0070	1	.							
2174	CZ	CZ	. TYR TYR TYR A A 286 286 .	0.2461	0.2842	0.2033	-0.0973	0.0148	-
0.0193	1	.							
2175	OH	OH	. TYR TYR TYR A A 286 286 .	0.3585	0.4340	0.2758	-0.1688	0.0470	-
0.0469	1	.							
2176	CE2	CE2	. TYR TYR TYR A A 286 286 .	0.2109	0.2975	0.1954	-0.0606	-0.0090	-
0.0205	1	.							
2177	CD2	CD2	. TYR TYR TYR A A 286 286 .	0.1704	0.2248	0.1752	-0.0242	0.0348	-
0.0071	1	.							
2178	C	C	. TYR TYR TYR A A 286 286 .	0.1373	0.1010	0.1370	-0.0019	-0.0148	-
0.0270	1	.							
2179	O	O	. TYR TYR TYR A A 286 286 .	0.1553	0.1334	0.1462	-0.0105	-0.0031	-
0.0027	1	.							
2180	N	N	. PRO PRO PRO A A 287 287 .	0.1517	0.1212	0.1619	0.0130	-0.0221	-
0.0026	1	.							
2181	CA	CA	. PRO PRO PRO A A 287 287 .	0.1218	0.0980	0.1290	0.0094	-0.0145	-
0.0010	1	.							
2182	CB	CB	. PRO PRO PRO A A 287 287 .	0.1219	0.1667	0.1728	0.0153	-0.0020	-
0.0155	1	.							



2183	CG	CG	. PRO PRO PRO A A 287 287 .	0.1433	0.1655	0.1827	-0.0017	-0.0145	
0.0195	1	.							
2184	CD	CD	. PRO PRO PRO A A 287 287 .	0.1693	0.1180	0.1856	0.0056	-0.0364	
0.0192	1	.							
2185	C	C	. PRO PRO PRO A A 287 287 .	0.1374	0.1325	0.1258	0.0135	0.0044	-
0.0214	1	.							
2186	O	O	. PRO PRO PRO A A 287 287 .	0.1187	0.1383	0.1263	0.0006	-0.0017	-
0.0018	1	.							
2187	N	N	. VAL VAL VAL A A 288 288 .	0.1162	0.1278	0.1243	0.0013	-0.0059	-
0.0038	1	.							
2188	CA	CA	. VAL VAL VAL A A 288 288 .	0.1151	0.1231	0.1274	-0.0121	0.0044	-
0.0054	1	.							
2189	CB	CB	. VAL VAL VAL A A 288 288 .	0.1099	0.1261	0.1337	0.0065	0.0006	-
0.0051	1	.							
2190	CG1	CG1	. VAL VAL VAL A A 288 288 .	0.1457	0.0967	0.1529	-0.0382	-0.0344	-
0.0191	1	.							
2191	CG2	CG2	. VAL VAL VAL A A 288 288 .	0.1140	0.1378	0.1423	-0.0164	-0.0228	-
0.0295	1	.							
2192	C	C	. VAL VAL VAL A A 288 288 .	0.1314	0.1180	0.1213	-0.0161	-0.0171	-
0.0151	1	.							
2193	O	O	. VAL VAL VAL A A 288 288 .	0.1833	0.1594	0.1146	-0.0198	-0.0389	-
0.0001	1	.							
2194	N	N	. VAL VAL VAL A A 289 289 .	0.1179	0.1087	0.0970	-0.0275	-0.0160	-
0.0069	1	.							
2195	CA	CA	. VAL VAL VAL A A 289 289 .	0.1233	0.1310	0.1150	-0.0019	0.0068	-
0.0043	1	.							
2196	CB	CB	. VAL VAL VAL A A 289 289 .	0.1319	0.1248	0.1068	-0.0129	0.0101	-
0.0215	1	.							
2197	CG1	CG1	. VAL VAL VAL A A 289 289 .	0.1900	0.1199	0.1234	0.0024	0.0341	-
0.0159	1	.							
2198	CG2	CG2	. VAL VAL VAL A A 289 289 .	0.1142	0.1459	0.1520	-0.0276	-0.0213	-
0.0096	1	.							
2199	C	C	. VAL VAL VAL A A 289 289 .	0.1213	0.1190	0.1145	-0.0168	0.0026	-
0.0050	1	.							
2200	O	O	. VAL VAL VAL A A 289 289 .	0.1597	0.1072	0.1182	0.0020	0.0058	-
0.0238	1	.							
2201	N	N	. SER SER SER A A 290 290 .	0.1050	0.1046	0.0919	0.0015	-0.0113	-
0.0054	1	.							
2202	CA	CA	. SER SER SER A A 290 290 .	0.1186	0.1166	0.1144	0.0016	-0.0177	-
0.0014	1	.							
2203	CB	CB	. SER SER SER A A 290 290 .	0.1151	0.1225	0.1055	-0.0035	-0.0205	-
0.0001	1	.							
2204	OG	OG	. SER SER SER A A 290 290 .	0.1258	0.1111	0.1238	-0.0044	-0.0101	-
0.0105	1	.							
2205	C	C	. SER SER SER A A 290 290 .	0.1203	0.0988	0.1088	0.0030	-0.0012	-
0.0081	1	.							
2206	O	O	. SER SER SER A A 290 290 .	0.1146	0.1186	0.1030	0.0011	-0.0066	-
0.0242	1	.							
2207	N	N	. ILE ILE ILE A A 291 291 .	0.1031	0.0958	0.0788	0.0101	-0.0273	-
0.0016	1	.							
2208	CA	CA	. ILE ILE ILE A A 291 291 .	0.0641	0.0804	0.0952	0.0050	-0.0195	-
0.0149	1	.							
2209	CB	CB	. ILE ILE ILE A A 291 291 .	0.0741	0.0917	0.1010	-0.0059	-0.0026	-
0.0097	1	.							
2210	CG1	CG1	. ILE ILE ILE A A 291 291 .	0.1051	0.1060	0.1574	-0.0219	-0.0270	-
0.0260	1	.							
2211	CD	CD	. ILE ILE ILE A A 291 291 .	0.1281	0.2027	0.1321	-0.0163	-0.0474	-
0.0248	1	.							
2212	CG2	CG2	. ILE ILE ILE A A 291 291 .	0.1505	0.1365	0.1199	0.0159	0.0236	-
0.0036	1	.							

2213	C	C	. ILE ILE ILE A A 291 291 .	0.1010	0.0957	0.0733	0.0118	-0.0059	
0.0101	1	.							
2214	O	O	. ILE ILE ILE A A 291 291 .	0.1154	0.1067	0.1056	0.0032	-0.0144	
0.0190	1	.							
2215	N	N	. GLU GLU GLU A A 292 292 .	0.0891	0.1044	0.0848	0.0019	-0.0042	-
0.0104	1	.							
2216	CA	CA	. GLU GLU GLU A A 292 292 .	0.0925	0.1142	0.0855	0.0192	-0.0246	-
0.0141	1	.							
2217	CB	CB	. GLU GLU GLU A A 292 292 .	0.0779	0.0864	0.0904	0.0005	-0.0238	
0.0040	1	.							
2218	CG	CG	. GLU GLU GLU A A 292 292 .	0.1201	0.0726	0.0719	0.0073	-0.0329	-
0.0030	1	.							
2219	CD	CD	. GLU GLU GLU A A 292 292 .	0.1050	0.0873	0.0808	0.0102	-0.0195	-
0.0030	1	.							
2220	OE1	OE1	. GLU GLU GLU A A 292 292 .	0.1220	0.0988	0.1197	0.0088	-0.0142	
0.0034	1	.							
2221	OE2	OE2	. GLU GLU GLU A A 292 292 .	0.1211	0.1189	0.1211	0.0056	-0.0180	-
0.0027	1	.							
2222	C	C	. GLU GLU GLU A A 292 292 .	0.0919	0.1100	0.0891	0.0034	-0.0147	
0.0119	1	.							
2223	O	O	. GLU GLU GLU A A 292 292 .	0.0969	0.1055	0.0963	0.0062	-0.0091	
0.0185	1	.							
2224	N	N	. ASP ASP ASP A A 293 293 .	0.1041	0.1054	0.1140	0.0191	-0.0209	
0.0023	1	.							
2225	CA	CA	. ASP ASP ASP A A 293 293 .	0.0941	0.1159	0.0840	0.0001	-0.0027	-
0.0034	1	.							
2226	CB	CB	. ASP ASP ASP A A 293 293 .	0.1120	0.1186	0.1017	-0.0109	-0.0266	
0.0008	1	.							
2227	CG	CG	. ASP ASP ASP A A 293 293 .	0.1023	0.0890	0.0977	0.0022	-0.0126	
0.0176	1	.							
2228	OD1	OD1	. ASP ASP ASP A A 293 293 .	0.1200	0.1132	0.1027	-0.0152	-0.0017	
0.0401	1	.							
2229	OD2	OD2	. ASP ASP ASP A A 293 293 .	0.1061	0.1178	0.1069	0.0081	-0.0176	
0.0029	1	.							
2230	C	C	. ASP ASP ASP A A 293 293 .	0.0832	0.1173	0.0857	-0.0043	-0.0122	
0.0048	1	.							
2231	O	O	. ASP ASP ASP A A 293 293 .	0.0974	0.1209	0.0918	-0.0017	-0.0235	
0.0112	1	.							
2232	N	N	. PRO PRO PRO A A 294 294 .	0.0828	0.1079	0.0719	-0.0056	-0.0138	
0.0004	1	.							
2233	CA	CA	. PRO PRO PRO A A 294 294 .	0.1043	0.1252	0.1208	0.0007	-0.0191	-
0.0018	1	.							
2234	CB	CB	. PRO PRO PRO A A 294 294 .	0.1286	0.1333	0.1272	-0.0120	-0.0224	
0.0083	1	.							
2235	CG	CG	. PRO PRO PRO A A 294 294 .	0.1305	0.1606	0.1159	0.0000	-0.0444	
0.0173	1	.							
2236	CD	CD	. PRO PRO PRO A A 294 294 .	0.0781	0.1404	0.0857	-0.0154	-0.0112	-
0.0005	1	.							
2237	C	C	. PRO PRO PRO A A 294 294 .	0.0953	0.1063	0.0897	-0.0066	-0.0367	
0.0148	1	.							
2238	O	O	. PRO PRO PRO A A 294 294 .	0.0907	0.1227	0.1483	0.0129	-0.0006	
0.0194	1	.							
2239	N	N	. PHE PHE PHE A A 295 295 .	0.1100	0.1102	0.1088	0.0192	-0.0192	
0.0056	1	.							
2240	CA	CA	. PHE PHE PHE A A 295 295 .	0.1111	0.1101	0.1081	0.0015	-0.0146	
0.0063	1	.							
2241	CB	CB	. PHE PHE PHE A A 295 295 .	0.1271	0.1198	0.1039	-0.0113	-0.0338	
0.0050	1	.							
2242	CG	CG	. PHE PHE PHE A A 295 295 .	0.1201	0.1276	0.1086	0.0073	-0.0200	-
0.0055	1	.							



2273	C	C	. ASP ASP ASP A A 298 298 .	0.1428	0.1354	0.1685	0.0134	-0.0396
0.0194	1	.						
2274	O	O	. ASP ASP ASP A A 298 298 .	0.1817	0.1629	0.1623	0.0306	-0.0511
0.0177	1	.						
2275	N	N	. ASP ASP ASP A A 299 299 .	0.1367	0.1344	0.1354	-0.0067	-0.0405
0.0147	1	.						
2276	CA	CA	. ASP ASP ASP A A 299 299 .	0.1198	0.1541	0.1438	-0.0058	-0.0278
0.0211	1	.						
2277	CB	CB	. ASP ASP ASP A A 299 299 .	0.0953	0.1411	0.1378	-0.0155	-0.0218
0.0192	1	.						
2278	CG	CG	. ASP ASP ASP A A 299 299 .	0.1296	0.1735	0.1352	-0.0132	-0.0253
0.0370	1	.						
2279	OD1	OD1	. ASP ASP ASP A A 299 299 .	0.1761	0.2064	0.1929	0.0462	-0.0439
0.0572	1	.						
2280	OD2	OD2	. ASP ASP ASP A A 299 299 .	0.1559	0.1789	0.1777	0.0133	-0.0127
0.0383	1	.						
2281	C	C	. ASP ASP ASP A A 299 299 .	0.1196	0.1558	0.1343	0.0054	-0.0491
0.0178	1	.						
2282	O	O	. ASP ASP ASP A A 299 299 .	0.1248	0.1588	0.1665	0.0067	-0.0293
0.0034	1	.						
2283	N	N	. TRP TRP TRP A A 300 300 .	0.1252	0.1494	0.1517	0.0108	-0.0392
0.0391	1	.						
2284	CA	CA	. TRP TRP TRP A A 300 300 .	0.1510	0.1628	0.1538	0.0001	-0.0112
0.0273	1	.						
2285	CB	CB	. TRP TRP TRP A A 300 300 .	0.1549	0.1477	0.1584	-0.0020	-0.0139
0.0322	1	.						
2286	CG	CG	. TRP TRP TRP A A 300 300 .	0.1976	0.1492	0.1716	-0.0111	-0.0015
0.0395	1	.						
2287	CD1	CD1	. TRP TRP TRP A A 300 300 .	0.1956	0.1798	0.1689	-0.0016	-0.0022
0.0406	1	.						
2288	NE1	NE1	. TRP TRP TRP A A 300 300 .	0.1785	0.2113	0.2224	0.0224	-0.0005
0.0045	1	.						
2289	CE2	CE2	. TRP TRP TRP A A 300 300 .	0.1640	0.1447	0.1466	0.0023	0.0150
0.0177	1	.						
2290	CD2	CD2	. TRP TRP TRP A A 300 300 .	0.1859	0.1778	0.1318	0.0011	-0.0043
0.0352	1	.						
2291	CE3	CE3	. TRP TRP TRP A A 300 300 .	0.1356	0.1826	0.1713	0.0096	-0.0097
0.0277	1	.						
2292	CZ3	CZ3	. TRP TRP TRP A A 300 300 .	0.1871	0.1788	0.1769	-0.0019	-0.0161
0.0155	1	.						
2293	CH2	CH2	. TRP TRP TRP A A 300 300 .	0.1619	0.1245	0.1637	-0.0270	0.0019
0.0445	1	.						
2294	CZ2	CZ2	. TRP TRP TRP A A 300 300 .	0.1799	0.1600	0.1633	0.0033	0.0206
0.0230	1	.						
2295	C	C	. TRP TRP TRP A A 300 300 .	0.1401	0.1619	0.1457	0.0067	-0.0003
0.0073	1	.						
2296	O	O	. TRP TRP TRP A A 300 300 .	0.1600	0.1518	0.1460	0.0056	-0.0152
0.0242	1	.						
2297	N	N	. ALA ALA ALA A A 301 301 .	0.1461	0.1658	0.1338	-0.0040	-0.0204
0.0080	1	.						
2298	CA	CA	. ALA ALA ALA A A 301 301 .	0.1372	0.1821	0.1527	0.0033	-0.0148
0.0088	1	.						
2299	CB	CB	. ALA ALA ALA A A 301 301 .	0.1515	0.2061	0.2386	0.0227	-0.0307
0.0002	1	.						
2300	C	C	. ALA ALA ALA A A 301 301 .	0.1110	0.1652	0.1595	0.0019	-0.0094
0.0070	1	.						
2301	O	O	. ALA ALA ALA A A 301 301 .	0.1145	0.1949	0.1448	0.0275	-0.0251
0.0011	1	.						
2302	N	N	. ALA ALA ALA A A 302 302 .	0.1039	0.1670	0.1609	0.0156	-0.0165
0.0156	1	.						

2303	CA	CA	. ALA ALA ALA A A	302 302	. 0.0985 0.1559 0.1404 0.0091	-0.0028
0.0019	1	.				
2304	CB	CB	. ALA ALA ALA A A	302 302	. 0.1370 0.2047 0.1353 0.0381	-0.0217
0.0304	1	.				
2305	C	C	. ALA ALA ALA A A	302 302	. 0.1098 0.1376 0.1283 0.0112	-0.0052 -
0.0102	1	.				
2306	O	O	. ALA ALA ALA A A	302 302	. 0.1264 0.1688 0.1392 0.0191	-0.0383 -
0.0099	1	.				
2307	N	N	. TRP TRP TRP A A	303 303	. 0.1461 0.1733 0.1146 0.0025	-0.0260 -
0.0077	1	.				
2308	CA	CA	. TRP TRP TRP A A	303 303	. 0.1439 0.1403 0.1344 0.0005	-0.0054 -
0.0087	1	.				
2309	CB	CB	. TRP TRP TRP A A	303 303	. 0.1142 0.1511 0.1199 0.0103	-0.0153
0.0230	1	.				
2310	CG	CG	. TRP TRP TRP A A	303 303	. 0.1249 0.1357 0.1304 0.0087	-0.0219
0.0019	1	.				
2311	CD1	CD1	. TRP TRP TRP A A	303 303	. 0.1552 0.1509 0.0918 -0.0159	-0.0094
0.0162	1	.				
2312	NE1	NE1	. TRP TRP TRP A A	303 303	. 0.1279 0.1253 0.1122 0.0167	-0.0091
0.0216	1	.				
2313	CE2	CE2	. TRP TRP TRP A A	303 303	. 0.0852 0.0918 0.0957 0.0317	-0.0052
0.0198	1	.				
2314	CD2	CD2	. TRP TRP TRP A A	303 303	. 0.1129 0.1378 0.1297 0.0353	-0.0031
0.0230	1	.				
2315	CE3	CE3	. TRP TRP TRP A A	303 303	. 0.0921 0.1136 0.1216 0.0051	-0.0191
0.0003	1	.				
2316	CZ3	CZ3	. TRP TRP TRP A A	303 303	. 0.0800 0.1013 0.0832 0.0050	-0.0074
0.0022	1	.				
2317	CH2	CH2	. TRP TRP TRP A A	303 303	. 0.1082 0.1184 0.0937 -0.0310	0.0088
0.0143	1	.				
2318	CZ2	CZ2	. TRP TRP TRP A A	303 303	. 0.0931 0.0859 0.1023 0.0147	-0.0156
0.0235	1	.				
2319	C	C	. TRP TRP TRP A A	303 303	. 0.1484 0.1385 0.1308 0.0221	-0.0143
0.0227	1	.				
2320	O	O	. TRP TRP TRP A A	303 303	. 0.1525 0.1588 0.1150 0.0191	-0.0209
0.0137	1	.				
2321	N	N	. SER SER SER A A	304 304	. 0.1336 0.1694 0.1239 0.0133	-0.0190
0.0261	1	.				
2322	CA	CA	. SER SER SER A A	304 304	. 0.1608 0.1884 0.1553 0.0240	-0.0066
0.0157	1	.				
2323	CB	CB	. SER SER SER A A	304 304	. 0.2188 0.1646 0.1592 0.0119	-0.0141
0.0258	1	.				
2324	OG	OG	. SER SER SER A A	304 304	. 0.2268 0.2463 0.2043 0.0339	-0.0233
0.0441	1	.				
2325	C	C	. SER SER SER A A	304 304	. 0.1659 0.1743 0.1433 0.0252	-0.0173
0.0133	1	.				
2326	O	O	. SER SER SER A A	304 304	. 0.1879 0.2015 0.1624 0.0131	-0.0348
0.0083	1	.				
2327	N	N	. LYS LYS LYS A A	305 305	. 0.1672 0.1926 0.1323 0.0140	-0.0460
0.0301	1	.				
2328	CA	CA	. LYS LYS LYS A A	305 305	. 0.1627 0.1970 0.1659 -0.0016	-0.0279
0.0115	1	.				
2329	CB	CB	. LYS LYS LYS A A	305 305	. 0.1792 0.2502 0.2145 -0.0059	-0.0326
0.0072	1	.				
2330	CG	CG	. LYS LYS LYS A A	305 305	. 0.2582 0.3176 0.2548 -0.0186	-0.0408
0.0112	1	.				
2331	CD	CD	. LYS LYS LYS A A	305 305	. 0.3078 0.4531 0.4078 0.0346	-0.0598
0.0024	1	.				
2332	CE	CE	. LYS LYS LYS A A	305 305	. 0.4798 0.4562 0.4504 0.0142	-0.0517
0.0614	1	.				



2363	OD1	OD1	. ASN ASN ASN A A 309 309 .	0.3919	0.3986	0.4154	0.0284	-0.1722	
0.0082	1	.							
2364	ND2	ND2	. ASN ASN ASN A A 309 309 .	0.4190	0.4567	0.3792	-0.0183	-0.1450	-
0.0493	1	.							
2365	C	C	. ASN ASN ASN A A 309 309 .	0.1857	0.2012	0.2181	0.0023	-0.0231	
0.0088	1	.							
2366	O	O	. ASN ASN ASN A A 309 309 .	0.2027	0.2197	0.2681	-0.0059	-0.0625	
0.0035	1	.							
2367	N	N	. VAL VAL VAL A A 310 310 .	0.1734	0.1872	0.1425	0.0077	-0.0282	-
0.0067	1	.							
2368	CA	CA	. VAL VAL VAL A A 310 310 .	0.1828	0.1871	0.1461	0.0003	-0.0137	-
0.0014	1	.							
2369	CB	CB	. VAL VAL VAL A A 310 310 .	0.1477	0.1872	0.1422	-0.0090	-0.0202	
0.0127	1	.							
2370	CG1	CG1	. VAL VAL VAL A A 310 310 .	0.1792	0.2109	0.1886	0.0493	-0.0072	-
0.0033	1	.							
2371	CG2	CG2	. VAL VAL VAL A A 310 310 .	0.2326	0.1835	0.1428	0.0117	-0.0140	-
0.0593	1	.							
2372	C	C	. VAL VAL VAL A A 310 310 .	0.1458	0.1599	0.1262	0.0093	-0.0362	
0.0011	1	.							
2373	O	O	. VAL VAL VAL A A 310 310 .	0.1799	0.1510	0.1665	-0.0093	-0.0215	-
0.0023	1	.							
2374	N	N	. GLY GLY GLY A A 311 311 .	0.1455	0.1362	0.1051	0.0121	-0.0309	-
0.0154	1	.							
2375	CA	CA	. GLY GLY GLY A A 311 311 .	0.1435	0.1411	0.0968	-0.0019	-0.0299	-
0.0145	1	.							
2376	C	C	. GLY GLY GLY A A 311 311 .	0.1179	0.1109	0.1156	0.0054	0.0024	-
0.0179	1	.							
2377	O	O	. GLY GLY GLY A A 311 311 .	0.1487	0.1448	0.1312	0.0157	-0.0078	-
0.0024	1	.							
2378	N	N	. ILE ILE ILE A A 312 312 .	0.1687	0.1287	0.1178	-0.0005	-0.0196	
0.0115	1	.							
2379	CA	CA	. ILE ILE ILE A A 312 312 .	0.1175	0.1132	0.1004	-0.0048	-0.0167	-
0.0023	1	.							
2380	CB	CB	. ILE ILE ILE A A 312 312 .	0.1129	0.0946	0.0953	-0.0127	-0.0045	-
0.0173	1	.							
2381	CG1	CG1	. ILE ILE ILE A A 312 312 .	0.1296	0.1752	0.1214	0.0025	0.0116	
0.0066	1	.							
2382	CD	CD	. ILE ILE ILE A A 312 312 .	0.1675	0.1679	0.1094	-0.0308	0.0168	
0.0061	1	.							
2383	CG2	CG2	. ILE ILE ILE A A 312 312 .	0.1904	0.1178	0.1207	-0.0275	-0.0322	-
0.0164	1	.							
2384	C	C	. ILE ILE ILE A A 312 312 .	0.1275	0.1071	0.0955	0.0011	-0.0202	
0.0047	1	.							
2385	O	O	. ILE ILE ILE A A 312 312 .	0.1274	0.1231	0.1217	-0.0032	-0.0145	-
0.0018	1	.							
2386	N	N	. GLN GLN GLN A A 313 313 .	0.1136	0.1130	0.1022	-0.0013	-0.0278	-
0.0056	1	.							
2387	CA	CA	. GLN GLN GLN A A 313 313 .	0.1307	0.1055	0.1052	0.0074	-0.0143	
0.0010	1	.							
2388	CB	CB	. GLN GLN GLN A A 313 313 .	0.1368	0.1280	0.0944	0.0073	-0.0103	-
0.0259	1	.							
2389	CG	CG	. GLN GLN GLN A A 313 313 .	0.1294	0.1433	0.1118	-0.0048	-0.0307	-
0.0355	1	.							
2390	CD	CD	. GLN GLN GLN A A 313 313 .	0.1284	0.1303	0.0993	-0.0081	0.0056	
0.0121	1	.							
2391	OE1	OE1	. GLN GLN GLN A A 313 313 .	0.1095	0.1402	0.0931	0.0084	-0.0039	-
0.0015	1	.							
2392	NE2	NE2	. GLN GLN GLN A A 313 313 .	0.1699	0.1172	0.1082	0.0034	-0.0344	
0.0127	1	.							





2423	CA	CA	. ASP ASP ASP A A 318 318 .	0.0944	0.0912	0.1000	0.0240	0.0025	
0.0089	1	.							
2424	CB	CB	. ASP ASP ASP A A 318 318 .	0.1290	0.0931	0.0841	0.0212	0.0034	
0.0156	1	.							
2425	CG	CG	. ASP ASP ASP A A 318 318 .	0.1351	0.1320	0.1318	-0.0007	-0.0042	
0.0012	1	.							
2426	OD1	OD1	. ASP ASP ASP A A 318 318 .	0.1283	0.1473	0.1286	0.0021	-0.0108	
0.0140	1	.							
2427	OD2	OD2	. ASP ASP ASP A A 318 318 .	0.1481	0.1486	0.1711	0.0060	-0.0023	-
0.0042	1	.							
2428	C	C	. ASP ASP ASP A A 318 318 .	0.1105	0.1072	0.0946	0.0105	-0.0061	-
0.0079	1	.							
2429	O	O	. ASP ASP ASP A A 318 318 .	0.1281	0.1269	0.1125	0.0202	-0.0241	
0.0008	1	.							
2430	N	N	. LEU LEU LEU A A 319 319 .	0.1084	0.1192	0.0905	0.0159	-0.0106	
0.0021	1	.							
2431	CA	CA	. LEU LEU LEU A A 319 319 .	0.1144	0.0839	0.0773	0.0043	-0.0060	-
0.0066	1	.							
2432	CB	CB	. LEU LEU LEU A A 319 319 .	0.1269	0.0843	0.0760	0.0270	-0.0146	-
0.0202	1	.							
2433	CG	CG	. LEU LEU LEU A A 319 319 .	0.1186	0.1332	0.1027	0.0021	-0.0195	
0.0113	1	.							
2434	CD1	CD1	. LEU LEU LEU A A 319 319 .	0.1188	0.2095	0.1387	-0.0015	-0.0354	
0.0060	1	.							
2435	CD2	CD2	. LEU LEU LEU A A 319 319 .	0.1543	0.1795	0.1188	-0.0017	-0.0293	-
0.0133	1	.							
2436	C	C	. LEU LEU LEU A A 319 319 .	0.1248	0.1185	0.0982	0.0071	0.0000	
0.0008	1	.							
2437	O	O	. LEU LEU LEU A A 319 319 .	0.1502	0.1462	0.1294	0.0218	-0.0029	
0.0309	1	.							
2438	N	N	. THR THR THR A A 320 320 .	0.1026	0.1137	0.1003	-0.0085	-0.0044	-
0.0010	1	.							
2439	CA	CA	. THR THR THR A A 320 320 .	0.0913	0.1112	0.0854	-0.0005	0.0006	-
0.0086	1	.							
2440	CB	CB	. THR THR THR A A 320 320 .	0.1155	0.1160	0.1009	0.0110	0.0143	
0.0134	1	.							
2441	OG1	OG1	. THR THR THR A A 320 320 .	0.1401	0.1137	0.1343	0.0073	-0.0059	-
0.0022	1	.							
2442	CG2	CG2	. THR THR THR A A 320 320 .	0.1409	0.1698	0.1344	-0.0204	0.0146	
0.0032	1	.							
2443	C	C	. THR THR THR A A 320 320 .	0.1178	0.1086	0.1022	-0.0002	-0.0058	
0.0047	1	.							
2444	O	O	. THR THR THR A A 320 320 .	0.1220	0.1356	0.1143	-0.0128	-0.0108	
0.0220	1	.							
2445	N	N	. VAL VAL VAL A A 321 321 .	0.1241	0.0971	0.1020	0.0085	-0.0097	
0.0048	1	.							
2446	CA	CA	. VAL VAL VAL A A 321 321 .	0.1256	0.1164	0.1124	0.0093	-0.0033	
0.0035	1	.							
2447	CB	CB	. VAL VAL VAL A A 321 321 .	0.1260	0.0993	0.1388	0.0278	-0.0089	-
0.0025	1	.							
2448	CG1	CG1	. VAL VAL VAL A A 321 321 .	0.1563	0.1172	0.1065	-0.0109	-0.0098	
0.0047	1	.							
2449	CG2	CG2	. VAL VAL VAL A A 321 321 .	0.1336	0.0941	0.1538	-0.0141	-0.0267	
0.0381	1	.							
2450	C	C	. VAL VAL VAL A A 321 321 .	0.1196	0.0898	0.0838	0.0077	-0.0051	
0.0179	1	.							
2451	O	O	. VAL VAL VAL A A 321 321 .	0.1079	0.1113	0.1035	0.0012	-0.0054	
0.0102	1	.							
2452	N	N	. THR THR THR A A 322 322 .	0.0760	0.1144	0.1005	0.0057	-0.0069	
0.0023	1	.							

2453	CA	CA	. THR THR THR A A 322 322 .	0.0841	0.0999	0.1051	0.0026	-0.0184
0.0172	1	.						
2454	CB	CB	. THR THR THR A A 322 322 .	0.1020	0.0890	0.0913	-0.0065	-0.0116
0.0251	1	.						
2455	OG1	OG1	. THR THR THR A A 322 322 .	0.1118	0.0971	0.0968	-0.0147	-0.0219
0.0261	1	.						
2456	CG2	CG2	. THR THR THR A A 322 322 .	0.1269	0.1195	0.1363	-0.0141	0.0337
0.0073	1	.						
2457	C	C	. THR THR THR A A 322 322 .	0.1096	0.1129	0.0961	-0.0148	-0.0060
0.0091	1	.						
2458	O	O	. THR THR THR A A 322 322 .	0.1183	0.1107	0.1242	-0.0077	-0.0158
0.0107	1	.						
2459	N	N	. ASN ASN ASN A A 323 323 .	0.1370	0.1060	0.1347	-0.0019	-0.0050
0.0308	1	.						
2460	CA	CA	. ASN ASN ASN A A 323 323 .	0.1696	0.1322	0.1526	-0.0017	-0.0072
0.0194	1	.						
2461	CB	CB	. ASN ASN ASN A A 323 323 .	0.1564	0.1119	0.1552	0.0122	0.0004
0.0074	1	.						
2462	CG	CG	. ASN ASN ASN A A 323 323 .	0.1867	0.1029	0.1431	-0.0197	0.0067
0.0128	1	.						
2463	OD1	OD1	. ASN ASN ASN A A 323 323 .	0.3124	0.1649	0.1947	0.0337	0.0252
0.0274	1	.						
2464	ND2	ND2	. ASN ASN ASN A A 323 323 .	0.2089	0.1871	0.1396	0.0148	-0.0007
0.0292	1	.						
2465	C	C	. ASN ASN ASN A A 323 323 .	0.1412	0.1465	0.1328	-0.0172	0.0047
0.0123	1	.						
2466	O	O	. ASN ASN ASN A A 323 323 .	0.1524	0.1508	0.1403	-0.0099	-0.0198
0.0231	1	.						
2467	N	N	. PRO PRO PRO A A 324 324 .	0.1664	0.1785	0.1524	-0.0142	0.0023
0.0167	1	.						
2468	CA	CA	. PRO PRO PRO A A 324 324 .	0.1747	0.1852	0.1560	-0.0220	0.0013
0.0331	1	.						
2469	CB	CB	. PRO PRO PRO A A 324 324 .	0.1807	0.2236	0.1854	-0.0229	0.0176
0.0343	1	.						
2470	CG	CG	. PRO PRO PRO A A 324 324 .	0.1635	0.2152	0.2210	-0.0181	0.0348
0.0187	1	.						
2471	CD	CD	. PRO PRO PRO A A 324 324 .	0.1663	0.1905	0.1605	-0.0186	0.0010
0.0337	1	.						
2472	C	C	. PRO PRO PRO A A 324 324 .	0.1908	0.1574	0.1709	-0.0246	0.0019
0.0142	1	.						
2473	O	O	. PRO PRO PRO A A 324 324 .	0.2273	0.1801	0.1516	-0.0002	-0.0096
0.0491	1	.						
2474	N	N	. LYS LYS LYS A A 325 325 .	0.1908	0.1810	0.1822	0.0085	0.0144
0.0407	1	.						
2475	CA	CA	. LYS LYS LYS A A 325 325 .	0.2081	0.1817	0.1966	0.0034	-0.0065
0.0246	1	.						
2476	CB	CB	. LYS LYS LYS A A 325 325 .	0.2248	0.2066	0.2397	0.0293	0.0081
0.0033	1	.						
2477	CG	CG	. LYS LYS LYS A A 325 325 .	0.3306	0.3638	0.3771	0.0070	-0.0351
0.0151	1	.						
2478	CD	CD	. LYS LYS LYS A A 325 325 .	0.4676	0.5462	0.5252	0.0300	0.0047
0.0199	1	.						
2479	CE	CE	. LYS LYS LYS A A 325 325 .	0.5861	0.5622	0.5500	0.0323	-0.0118
0.0398	1	.						
2480	NZ	NZ	. LYS LYS LYS A A 325 325 .	0.6537	0.6040	0.5560	0.0235	-0.0238
0.0301	1	.						
2481	C	C	. LYS LYS LYS A A 325 325 .	0.1875	0.1667	0.1704	0.0120	-0.0172
0.0339	1	.						
2482	O	O	. LYS LYS LYS A A 325 325 .	0.2394	0.1856	0.1935	0.0183	-0.0085
0.0346	1	.						

2483	N	N	. ARG ARG ARG A A 326 326 .	0.1820	0.1531	0.1501	0.0133	-0.0124	
0.0561	1	.							
2484	CA	CA	. ARG ARG ARG A A 326 326 .	0.1701	0.1554	0.1523	-0.0044	-0.0181	
0.0266	1	.							
2485	CB	CB	. ARG ARG ARG A A 326 326 .	0.1641	0.1539	0.1538	-0.0203	0.0046	
0.0087	1	.							
2486	CG	CG	. ARG ARG ARG A A 326 326 .	0.2663	0.1792	0.2235	-0.0462	-0.0384	-
0.0233	1	.							
2487	CD	CD	. ARG ARG ARG A A 326 326 .	0.3422	0.3428	0.3229	-0.0050	-0.0098	
0.0253	1	.							
2488	NE	NE	. ARG ARG ARG A A 326 326 .	0.2480	0.2474	0.2567	0.0971	-0.0278	-
0.0236	1	.							
2489	CZ	CZ	. ARG ARG ARG A A 326 326 .	0.2703	0.1219	0.1878	0.0019	-0.0014	
0.0163	1	.							
2490	NH1	NH1	. ARG ARG ARG A A 326 326 .	0.1189	0.1548	0.1870	-0.0073	-0.0010	
0.0171	1	.							
2491	NH2	NH2	. ARG ARG ARG A A 326 326 .	0.2405	0.1561	0.2203	0.0712	0.0200	
0.0421	1	.							
2492	C	C	. ARG ARG ARG A A 326 326 .	0.1443	0.1481	0.1492	-0.0151	-0.0095	
0.0245	1	.							
2493	O	O	. ARG ARG ARG A A 326 326 .	0.1816	0.1800	0.1335	0.0166	-0.0470	
0.0313	1	.							
2494	N	N	. ILE ILE ILE A A 327 327 .	0.1499	0.1351	0.1282	0.0148	-0.0023	
0.0341	1	.							
2495	CA	CA	. ILE ILE ILE A A 327 327 .	0.1482	0.1502	0.1299	0.0102	-0.0100	
0.0186	1	.							
2496	CB	CB	. ILE ILE ILE A A 327 327 .	0.1303	0.1298	0.1158	-0.0150	-0.0083	
0.0000	1	.							
2497	CG1	CG1	. ILE ILE ILE A A 327 327 .	0.1180	0.1301	0.1481	0.0048	-0.0233	
0.0104	1	.							
2498	CD	CD	. ILE ILE ILE A A 327 327 .	0.1075	0.1358	0.1514	-0.0150	-0.0467	
0.0227	1	.							
2499	CG2	CG2	. ILE ILE ILE A A 327 327 .	0.1585	0.1423	0.1469	0.0175	-0.0065	-
0.0261	1	.							
2500	C	C	. ILE ILE ILE A A 327 327 .	0.1890	0.1391	0.1466	-0.0003	-0.0125	
0.0185	1	.							
2501	O	O	. ILE ILE ILE A A 327 327 .	0.2041	0.1794	0.1334	0.0101	-0.0059	
0.0179	1	.							
2502	N	N	. GLU GLU GLU A A 328 328 .	0.2287	0.1597	0.1479	0.0041	-0.0199	
0.0188	1	.							
2503	CA	CA	. GLU GLU GLU A A 328 328 .	0.2120	0.1797	0.1619	-0.0078	-0.0207	
0.0398	1	.							
2504	CB	CB	. GLU GLU GLU A A 328 328 .	0.2277	0.1885	0.2298	-0.0224	-0.0399	
0.0436	1	.							
2505	CG	CG	. GLU GLU GLU A A 328 328 .	0.2473	0.2953	0.2595	-0.0191	-0.0129	
0.0282	1	.							
2506	CD	CD	. GLU GLU GLU A A 328 328 .	0.3942	0.4594	0.3697	-0.0780	0.0051	-
0.0012	1	.							
2507	OE1	OE1	. GLU GLU GLU A A 328 328 .	0.3861	0.4417	0.4233	-0.1192	0.0118	
0.0640	1	.							
2508	OE2	OE2	. GLU GLU GLU A A 328 328 .	0.5292	0.5273	0.3529	-0.0830	-0.0546	
0.0000	1	.							
2509	C	C	. GLU GLU GLU A A 328 328 .	0.2249	0.1652	0.1929	-0.0017	-0.0074	
0.0399	1	.							
2510	O	O	. GLU GLU GLU A A 328 328 .	0.2677	0.2182	0.1751	-0.0137	-0.0141	
0.0358	1	.							
2511	N	N	. ARG ARG ARG A A 329 329 .	0.1998	0.1421	0.1518	0.0081	-0.0082	
0.0237	1	.							
2512	CA	CA	. ARG ARG ARG A A 329 329 .	0.1965	0.1553	0.1683	0.0194	-0.0058	
0.0298	1	.							

2513	CB	CB	. ARG ARG ARG A A 329 329 .	0.2095	0.1625	0.1912	0.0157	-0.0156	
0.0259	1	.							
2514	CG	CG	. ARG ARG ARG A A 329 329 .	0.2181	0.2177	0.2090	0.0204	-0.0014	
0.0243	1	.							
2515	CD	CD	. ARG ARG ARG A A 329 329 .	0.3331	0.2516	0.3031	0.0397	0.0463	
0.0186	1	.							
2516	NE	NE	. ARG ARG ARG A A 329 329 .	0.3401	0.2347	0.3294	0.0511	0.0449	
0.0407	1	.							
2517	CZ	CZ	. ARG ARG ARG A A 329 329 .	0.2970	0.2769	0.3412	0.0634	0.0054	
0.0229	1	.							
2518	NH1	NH1	. ARG ARG ARG A A 329 329 .	0.2805	0.2544	0.3144	0.0584	0.0152	
0.0287	1	.							
2519	NH2	NH2	. ARG ARG ARG A A 329 329 .	0.2783	0.2315	0.4535	0.0734	-0.0066	
0.0392	1	.							
2520	C	C	. ARG ARG ARG A A 329 329 .	0.1925	0.1707	0.1690	0.0223	-0.0166	
0.0094	1	.							
2521	O	O	. ARG ARG ARG A A 329 329 .	0.2141	0.1854	0.1701	0.0134	-0.0320	
0.0338	1	.							
2522	N	N	. ALA ALA ALA A A 330 330 .	0.1795	0.1665	0.1575	0.0188	-0.0015	
0.0286	1	.							
2523	CA	CA	. ALA ALA ALA A A 330 330 .	0.1571	0.1747	0.1563	0.0210	-0.0134	
0.0245	1	.							
2524	CB	CB	. ALA ALA ALA A A 330 330 .	0.1336	0.1682	0.1363	0.0115	-0.0259	
0.0697	1	.							
2525	C	C	. ALA ALA ALA A A 330 330 .	0.1915	0.1856	0.1672	-0.0028	-0.0036	
0.0099	1	.							
2526	O	O	. ALA ALA ALA A A 330 330 .	0.2026	0.1823	0.1420	-0.0034	0.0012	
0.0056	1	.							
2527	N	N	. VAL VAL VAL A A 331 331 .	0.1891	0.1913	0.1567	0.0014	0.0057	
0.0053	1	.							
2528	CA	CA	. VAL VAL VAL A A 331 331 .	0.2212	0.2090	0.1775	-0.0049	0.0130	-
0.0045	1	.							
2529	CB	CB	. VAL VAL VAL A A 331 331 .	0.2044	0.2166	0.1641	-0.0087	0.0044	-
0.0075	1	.							
2530	CG1	CG1	. VAL VAL VAL A A 331 331 .	0.2149	0.2369	0.1876	0.0141	0.0294	
0.0206	1	.							
2531	CG2	CG2	. VAL VAL VAL A A 331 331 .	0.2603	0.1894	0.1805	0.0195	0.0222	
0.0040	1	.							
2532	C	C	. VAL VAL VAL A A 331 331 .	0.2140	0.2023	0.1721	-0.0048	0.0160	
0.0067	1	.							
2533	O	O	. VAL VAL VAL A A 331 331 .	0.2680	0.2038	0.1552	-0.0253	0.0088	
0.0257	1	.							
2534	N	N	. GLU GLU GLU A A 332 332 .	0.2333	0.1979	0.1739	0.0053	-0.0113	
0.0201	1	.							
2535	CA	CA	. GLU GLU GLU A A 332 332 .	0.2826	0.2582	0.1995	0.0035	-0.0210	
0.0396	1	.							
2536	CB	CB	. GLU GLU GLU A A 332 332 .	0.2912	0.2618	0.2156	0.0080	-0.0261	
0.0489	1	.							
2537	CG	CG	. GLU GLU GLU A A 332 332 .	0.4586	0.3916	0.2756	0.0144	-0.0588	
0.0541	1	.							
2538	CD	CD	. GLU GLU GLU A A 332 332 .	0.5421	0.5901	0.4028	-0.0304	0.0007	
0.0378	1	.							
2539	OE1	OE1	. GLU GLU GLU A A 332 332 .	0.5292	0.6292	0.4752	-0.0844	-0.0126	
0.0790	1	.							
2540	OE2	OE2	. GLU GLU GLU A A 332 332 .	0.6523	0.6845	0.4724	-0.0513	-0.0679	
0.0535	1	.							
2541	C	C	. GLU GLU GLU A A 332 332 .	0.2718	0.2382	0.1859	-0.0120	-0.0236	
0.0351	1	.							
2542	O	O	. GLU GLU GLU A A 332 332 .	0.3126	0.2576	0.2112	-0.0097	-0.0385	
0.0536	1	.							

2543	N	N	. GLU GLU GLU A A 333 333 .	0.2225	0.2098	0.1680	-0.0067	-0.0049	
0.0442	1	.							
2544	CA	CA	. GLU GLU GLU A A 333 333 .	0.1974	0.1931	0.1754	0.0006	-0.0319	
0.0221	1	.							
2545	CB	CB	. GLU GLU GLU A A 333 333 .	0.2477	0.2179	0.2376	0.0020	-0.0261	
0.0018	1	.							
2546	CG	CG	. GLU GLU GLU A A 333 333 .	0.2580	0.2411	0.2629	0.0385	-0.0527	-
0.0081	1	.							
2547	CD	CD	. GLU GLU GLU A A 333 333 .	0.3115	0.3599	0.3639	-0.0088	0.0010	-
0.0212	1	.							
2548	OE1	OE1	. GLU GLU GLU A A 333 333 .	0.2758	0.3463	0.4707	-0.0071	0.0206	
0.0348	1	.							
2549	OE2	OE2	. GLU GLU GLU A A 333 333 .	0.4111	0.4032	0.2828	-0.0078	-0.0556	
0.0238	1	.							
2550	C	C	. GLU GLU GLU A A 333 333 .	0.1662	0.1780	0.1423	0.0034	-0.0241	
0.0194	1	.							
2551	O	O	. GLU GLU GLU A A 333 333 .	0.1941	0.1815	0.1666	-0.0069	-0.0479	
0.0164	1	.							
2552	N	N	. LYS LYS LYS A A 334 334 .	0.1693	0.1908	0.1366	0.0050	-0.0201	
0.0173	1	.							
2553	CA	CA	. LYS LYS LYS A A 334 334 .	0.2004	0.1733	0.1503	-0.0155	-0.0118	-
0.0118	1	.							
2554	CB	CB	. LYS LYS LYS A A 334 334 .	0.2371	0.1852	0.1608	-0.0246	-0.0127	-
0.0144	1	.							
2555	CG	CG	. LYS LYS LYS A A 334 334 .	0.2911	0.2485	0.1992	-0.0367	0.0156	-
0.0146	1	.							
2556	CD	CD	. LYS LYS LYS A A 334 334 .	0.4442	0.4647	0.4062	0.0075	0.0308	-
0.0357	1	.							
2557	CE	CE	. LYS LYS LYS A A 334 334 .	0.4970	0.5061	0.4613	-0.0315	-0.0428	-
0.0437	1	.							
2558	NZ	NZ	. LYS LYS LYS A A 334 334 .	0.4977	0.5419	0.4480	0.0066	-0.0140	
0.0051	1	.							
2559	C	C	. LYS LYS LYS A A 334 334 .	0.1798	0.1498	0.1398	-0.0049	-0.0045	-
0.0036	1	.							
2560	O	O	. LYS LYS LYS A A 334 334 .	0.1858	0.1624	0.1419	0.0115	-0.0257	
0.0000	1	.							
2561	N	N	. ALA ALA ALA A A 335 335 .	0.1870	0.1677	0.1226	0.0078	-0.0200	
0.0190	1	.							
2562	CA	CA	. ALA ALA ALA A A 335 335 .	0.1475	0.1613	0.1340	0.0161	0.0052	
0.0135	1	.							
2563	CB	CB	. ALA ALA ALA A A 335 335 .	0.1482	0.1336	0.1307	0.0166	0.0041	
0.0035	1	.							
2564	C	C	. ALA ALA ALA A A 335 335 .	0.1309	0.1383	0.1287	0.0060	-0.0081	
0.0025	1	.							
2565	O	O	. ALA ALA ALA A A 335 335 .	0.1067	0.1575	0.1347	-0.0009	-0.0100	
0.0064	1	.							
2566	N	N	. CYS CYS CYS A A 336 336 .	0.1321	0.1422	0.1442	0.0331	-0.0249	-
0.0031	1	.							
2567	CA	CA	. CYS CYS CYS A A 336 336 .	0.1450	0.1190	0.1194	0.0160	-0.0004	
0.0040	1	.							
2568	CB	CB	. CYS CYS CYS A A 336 336 .	0.1504	0.1346	0.1273	-0.0237	-0.0092	-
0.0049	1	.							
2569	SG	SG	. CYS CYS CYS A A 336 336 .	0.1511	0.1449	0.1327	0.0033	-0.0156	
0.0124	1	.							
2570	C	C	. CYS CYS CYS A A 336 336 .	0.1415	0.1360	0.1442	-0.0008	-0.0077	
0.0021	1	.							
2571	O	O	. CYS CYS CYS A A 336 336 .	0.1475	0.1604	0.1570	0.0036	-0.0040	
0.0192	1	.							
2572	N	N	. ASN ASN ASN A A 337 337 .	0.1141	0.1007	0.1220	0.0081	-0.0211	-
0.0069	1	.							

2573	CA	CA	. ASN ASN ASN A A 337 337 .	0.1177	0.1027	0.1108	-0.0010	-0.0081	
0.0048	1	.							
2574	CB	CB	. ASN ASN ASN A A 337 337 .	0.1336	0.1173	0.1117	-0.0045	-0.0086	
0.0079	1	.							
2575	CG	CG	. ASN ASN ASN A A 337 337 .	0.1196	0.1051	0.1084	0.0036	-0.0200	
0.0118	1	.							
2576	OD1	OD1	. ASN ASN ASN A A 337 337 .	0.1970	0.1638	0.1637	-0.0144	-0.0597	-
0.0007	1	.							
2577	ND2	ND2	. ASN ASN ASN A A 337 337 .	0.0960	0.0944	0.0639	0.0067	-0.0119	-
0.0123	1	.							
2578	C	C	. ASN ASN ASN A A 337 337 .	0.1483	0.1038	0.0962	0.0090	-0.0111	
0.0046	1	.							
2579	O	O	. ASN ASN ASN A A 337 337 .	0.1310	0.1480	0.1151	0.0113	-0.0280	
0.0157	1	.							
2580	N	N	. CYS CYS CYS A A 338 338 .	0.1353	0.1298	0.0864	-0.0084	-0.0142	-
0.0050	1	.							
2581	CA	CA	. CYS CYS CYS A A 338 338 .	0.1069	0.1057	0.1098	0.0144	-0.0158	-
0.0121	1	.							
2582	CB	CB	. CYS CYS CYS A A 338 338 .	0.1072	0.1208	0.1099	-0.0012	-0.0171	
0.0063	1	.							
2583	SG	SG	. CYS CYS CYS A A 338 338 .	0.1245	0.1396	0.1179	0.0098	-0.0093	
0.0144	1	.							
2584	C	C	. CYS CYS CYS A A 338 338 .	0.1010	0.0970	0.0913	0.0064	-0.0092	
0.0108	1	.							
2585	O	O	. CYS CYS CYS A A 338 338 .	0.1155	0.1199	0.1059	-0.0051	-0.0090	
0.0145	1	.							
2586	N	N	. LEU LEU LEU A A 339 339 .	0.1000	0.1034	0.0766	0.0004	-0.0113	-
0.0007	1	.							
2587	CA	CA	. LEU LEU LEU A A 339 339 .	0.1176	0.0917	0.0837	0.0121	-0.0080	
0.0088	1	.							
2588	CB	CB	. LEU LEU LEU A A 339 339 .	0.1040	0.0764	0.0891	0.0009	-0.0085	-
0.0193	1	.							
2589	CG	CG	. LEU LEU LEU A A 339 339 .	0.1456	0.0997	0.0794	-0.0136	0.0176	-
0.0265	1	.							
2590	CD1	CD1	. LEU LEU LEU A A 339 339 .	0.1022	0.1116	0.1264	0.0149	-0.0035	
0.0005	1	.							
2591	CD2	CD2	. LEU LEU LEU A A 339 339 .	0.1228	0.0908	0.1116	-0.0241	-0.0027	-
0.0024	1	.							
2592	C	C	. LEU LEU LEU A A 339 339 .	0.0952	0.0842	0.0670	0.0181	0.0049	
0.0262	1	.							
2593	O	O	. LEU LEU LEU A A 339 339 .	0.1116	0.1044	0.0785	0.0102	-0.0001	
0.0205	1	.							
2594	N	N	. LEU LEU LEU A A 340 340 .	0.1102	0.0848	0.0869	0.0231	-0.0085	
0.0131	1	.							
2595	CA	CA	. LEU LEU LEU A A 340 340 .	0.0763	0.1026	0.0680	0.0009	-0.0170	
0.0165	1	.							
2596	CB	CB	. LEU LEU LEU A A 340 340 .	0.0784	0.0958	0.0406	0.0009	-0.0236	
0.0129	1	.							
2597	CG	CG	. LEU LEU LEU A A 340 340 .	0.0966	0.0729	0.0762	0.0034	0.0090	
0.0187	1	.							
2598	CD1	CD1	. LEU LEU LEU A A 340 340 .	0.0942	0.0726	0.1185	-0.0102	0.0258	-
0.0117	1	.							
2599	CD2	CD2	. LEU LEU LEU A A 340 340 .	0.0830	0.1294	0.0790	-0.0051	0.0078	
0.0044	1	.							
2600	C	C	. LEU LEU LEU A A 340 340 .	0.0940	0.0930	0.0885	0.0124	-0.0028	
0.0039	1	.							
2601	O	O	. LEU LEU LEU A A 340 340 .	0.1113	0.1076	0.1163	0.0097	0.0015	-
0.0014	1	.							
2602	N	N	. LEU LEU LEU A A 341 341 .	0.0897	0.1088	0.0756	-0.0102	-0.0079	-
0.0016	1	.							

2603	CA	CA	. LEU LEU LEU A A 341 341 .	0.0972	0.0916	0.0742	-0.0069	-0.0021	
0.0075	1	.							
2604	CB	CB	. LEU LEU LEU A A 341 341 .	0.0916	0.0996	0.0792	-0.0150	0.0129	
0.0056	1	.							
2605	CG	CG	. LEU LEU LEU A A 341 341 .	0.1041	0.0794	0.1348	0.0065	-0.0185	
0.0303	1	.							
2606	CD1	CD1	. LEU LEU LEU A A 341 341 .	0.1852	0.1540	0.1160	0.0032	-0.0347	
0.0597	1	.							
2607	CD2	CD2	. LEU LEU LEU A A 341 341 .	0.1253	0.1696	0.1671	0.0465	0.0316	-
0.0046	1	.							
2608	C	C	. LEU LEU LEU A A 341 341 .	0.0973	0.0835	0.0771	0.0087	-0.0002	
0.0009	1	.							
2609	O	O	. LEU LEU LEU A A 341 341 .	0.1262	0.0979	0.1104	0.0025	-0.0042	
0.0010	1	.							
2610	N	N	. LYS LYS LYS A A 342 342 .	0.1327	0.0959	0.0904	0.0020	-0.0103	-
0.0071	1	.							
2611	CA	CA	. LYS LYS LYS A A 342 342 .	0.0890	0.1116	0.0747	-0.0100	0.0037	-
0.0032	1	.							
2612	CB	CB	. LYS LYS LYS A A 342 342 .	0.0969	0.1154	0.1398	-0.0002	0.0115	-
0.0182	1	.							
2613	CG	CG	. LYS LYS LYS A A 342 342 .	0.1159	0.1329	0.1423	-0.0017	-0.0014	
0.0024	1	.							
2614	CD	CD	. LYS LYS LYS A A 342 342 .	0.1302	0.1239	0.1549	0.0109	-0.0109	
0.0136	1	.							
2615	CE	CE	. LYS LYS LYS A A 342 342 .	0.1534	0.1723	0.0995	-0.0184	-0.0277	-
0.0002	1	.							
2616	NZ	NZ	. LYS LYS LYS A A 342 342 .	0.1446	0.1700	0.1891	-0.0131	-0.0323	
0.0316	1	.							
2617	C	C	. LYS LYS LYS A A 342 342 .	0.1107	0.1037	0.0998	0.0146	0.0009	-
0.0005	1	.							
2618	O	O	. LYS LYS LYS A A 342 342 .	0.1199	0.1131	0.1217	0.0220	-0.0154	-
0.0020	1	.							
2619	N	N	. VAL VAL VAL A A 343 343 .	0.1033	0.1048	0.0969	-0.0010	-0.0122	
0.0019	1	.							
2620	CA	CA	. VAL VAL VAL A A 343 343 .	0.1117	0.0924	0.0696	0.0147	-0.0004	
0.0059	1	.							
2621	CB	CB	. VAL VAL VAL A A 343 343 .	0.1079	0.1074	0.1089	0.0280	0.0081	-
0.0063	1	.							
2622	CG1	CG1	. VAL VAL VAL A A 343 343 .	0.1256	0.1436	0.0786	0.0066	0.0360	-
0.0110	1	.							
2623	CG2	CG2	. VAL VAL VAL A A 343 343 .	0.1125	0.1286	0.1302	-0.0070	0.0021	
0.0323	1	.							
2624	C	C	. VAL VAL VAL A A 343 343 .	0.1048	0.0986	0.0927	0.0126	0.0062	
0.0137	1	.							
2625	O	O	. VAL VAL VAL A A 343 343 .	0.1367	0.1061	0.1035	-0.0061	0.0159	
0.0085	1	.							
2626	N	N	. ASN ASN ASN A A 344 344 .	0.0953	0.1077	0.1028	0.0000	0.0121	
0.0060	1	.							
2627	CA	CA	. ASN ASN ASN A A 344 344 .	0.0906	0.0960	0.0759	0.0131	0.0146	
0.0143	1	.							
2628	CB	CB	. ASN ASN ASN A A 344 344 .	0.0846	0.0863	0.0663	-0.0112	0.0075	
0.0009	1	.							
2629	CG	CG	. ASN ASN ASN A A 344 344 .	0.0933	0.0812	0.0733	-0.0049	0.0053	-
0.0070	1	.							
2630	OD1	OD1	. ASN ASN ASN A A 344 344 .	0.1003	0.0893	0.1247	-0.0004	0.0024	-
0.0056	1	.							
2631	ND2	ND2	. ASN ASN ASN A A 344 344 .	0.1168	0.0884	0.0943	0.0238	0.0065	
0.0165	1	.							
2632	C	C	. ASN ASN ASN A A 344 344 .	0.0960	0.1045	0.0930	0.0019	-0.0029	-
0.0074	1	.							

2633	O	O	. ASN ASN ASN A A 344 344 .	0.1354	0.1179	0.1046	0.0372	0.0109	-
0.0053	1	.							
2634	N	N	. GLN GLN GLN A A 345 345 .	0.0884	0.0964	0.0723	0.0095	-0.0001	
0.0034	1	.							
2635	CA	CA	. GLN GLN GLN A A 345 345 .	0.0979	0.0904	0.0906	0.0020	-0.0239	
0.0083	1	.							
2636	CB	CB	. GLN GLN GLN A A 345 345 .	0.1017	0.1046	0.0994	-0.0085	-0.0329	
0.0109	1	.							
2637	CG	CG	. GLN GLN GLN A A 345 345 .	0.1060	0.0666	0.1236	-0.0078	-0.0270	-
0.0026	1	.							
2638	CD	CD	. GLN GLN GLN A A 345 345 .	0.0876	0.0916	0.0769	-0.0080	-0.0083	-
0.0165	1	.							
2639	OE1	OE1	. GLN GLN GLN A A 345 345 .	0.0902	0.1168	0.0960	0.0051	-0.0114	
0.0244	1	.							
2640	NE2	NE2	. GLN GLN GLN A A 345 345 .	0.1070	0.1187	0.1301	-0.0146	-0.0051	
0.0189	1	.							
2641	C	C	. GLN GLN GLN A A 345 345 .	0.1054	0.1150	0.0933	0.0037	-0.0056	
0.0186	1	.							
2642	O	O	. GLN GLN GLN A A 345 345 .	0.1114	0.1228	0.1312	0.0050	0.0022	
0.0039	1	.							
2643	N	N	. ILE ILE ILE A A 346 346 .	0.0990	0.0831	0.1114	-0.0035	-0.0039	
0.0019	1	.							
2644	CA	CA	. ILE ILE ILE A A 346 346 .	0.1039	0.1039	0.0922	-0.0043	0.0027	
0.0147	1	.							
2645	CB	CB	. ILE ILE ILE A A 346 346 .	0.1189	0.0948	0.0885	0.0064	-0.0010	
0.0052	1	.							
2646	CG1	CG1	. ILE ILE ILE A A 346 346 .	0.1373	0.1338	0.1421	0.0143	0.0152	
0.0377	1	.							
2647	CD	CD	. ILE ILE ILE A A 346 346 .	0.1469	0.1513	0.1510	0.0295	-0.0365	
0.0149	1	.							
2648	CG2	CG2	. ILE ILE ILE A A 346 346 .	0.1180	0.1353	0.1098	0.0239	0.0305	
0.0050	1	.							
2649	C	C	. ILE ILE ILE A A 346 346 .	0.1050	0.0931	0.1116	0.0155	-0.0152	
0.0004	1	.							
2650	O	O	. ILE ILE ILE A A 346 346 .	0.1412	0.1038	0.1336	-0.0056	-0.0046	
0.0035	1	.							
2651	N	N	. GLY GLY GLY A A 347 347 .	0.0958	0.1026	0.0841	0.0097	-0.0181	
0.0034	1	.							
2652	CA	CA	. GLY GLY GLY A A 347 347 .	0.1220	0.1192	0.1189	-0.0102	-0.0019	
0.0042	1	.							
2653	C	C	. GLY GLY GLY A A 347 347 .	0.1219	0.1019	0.1198	-0.0015	-0.0048	
0.0030	1	.							
2654	O	O	. GLY GLY GLY A A 347 347 .	0.1175	0.1201	0.1082	-0.0192	0.0003	
0.0054	1	.							
2655	N	N	. SER SER SER A A 348 348 .	0.1098	0.1160	0.1245	-0.0067	0.0028	
0.0101	1	.							
2656	CA	CA	. SER SER SER A A 348 348 .	0.1155	0.0998	0.1135	-0.0046	0.0148	
0.0029	1	.							
2657	CB	CB	. SER SER SER A A 348 348 .	0.1223	0.1272	0.1293	0.0087	-0.0030	
0.0236	1	.							
2658	OG	OG	. SER SER SER A A 348 348 .	0.1516	0.1344	0.0993	-0.0224	-0.0187	
0.0046	1	.							
2659	C	C	. SER SER SER A A 348 348 .	0.1186	0.0950	0.1047	-0.0030	-0.0005	
0.0108	1	.							
2660	O	O	. SER SER SER A A 348 348 .	0.1199	0.1230	0.1227	0.0071	-0.0258	
0.0028	1	.							
2661	N	N	. VAL VAL VAL A A 349 349 .	0.1230	0.0815	0.1231	0.0129	0.0072	-
0.0059	1	.							
2662	CA	CA	. VAL VAL VAL A A 349 349 .	0.1384	0.1074	0.0827	-0.0042	0.0185	
0.0147	1	.							







2723	NZ	NZ	. LYS LYS LYS A A 357 357 .	0.5053	0.4633	0.2457	-0.0260	-0.0314	
0.0128	1	.							
2724	C	C	. LYS LYS LYS A A 357 357 .	0.1233	0.1357	0.1159	-0.0178	0.0109	-
0.0138	1	.							
2725	O	O	. LYS LYS LYS A A 357 357 .	0.1646	0.1573	0.0973	-0.0192	0.0028	-
0.0037	1	.							
2726	N	N	. LEU LEU LEU A A 358 358 .	0.1429	0.1290	0.1296	-0.0034	0.0160	
0.0135	1	.							
2727	CA	CA	. LEU LEU LEU A A 358 358 .	0.1567	0.1367	0.1253	-0.0075	0.0174	
0.0062	1	.							
2728	CB	CB	. LEU LEU LEU A A 358 358 .	0.1490	0.1149	0.1396	-0.0006	0.0231	
0.0017	1	.							
2729	CG	CG	. LEU LEU LEU A A 358 358 .	0.1820	0.1841	0.1672	-0.0063	0.0145	-
0.0010	1	.							
2730	CD1	CD1	. LEU LEU LEU A A 358 358 .	0.2646	0.2596	0.1491	0.0164	-0.0072	
0.0421	1	.							
2731	CD2	CD2	. LEU LEU LEU A A 358 358 .	0.2133	0.2064	0.2117	0.0070	0.0041	-
0.0049	1	.							
2732	C	C	. LEU LEU LEU A A 358 358 .	0.1575	0.1370	0.1272	-0.0083	-0.0121	-
0.0036	1	.							
2733	O	O	. LEU LEU LEU A A 358 358 .	0.2092	0.1693	0.1078	0.0021	-0.0074	
0.0151	1	.							
2734	N	N	. ALA ALA ALA A A 359 359 .	0.1593	0.1264	0.1255	-0.0157	0.0085	-
0.0039	1	.							
2735	CA	CA	. ALA ALA ALA A A 359 359 .	0.1260	0.1384	0.1135	-0.0129	0.0150	
0.0050	1	.							
2736	CB	CB	. ALA ALA ALA A A 359 359 .	0.1415	0.1390	0.0672	-0.0162	-0.0058	
0.0186	1	.							
2737	C	C	. ALA ALA ALA A A 359 359 .	0.1332	0.1422	0.1087	-0.0134	0.0017	-
0.0011	1	.							
2738	O	O	. ALA ALA ALA A A 359 359 .	0.1899	0.1561	0.1100	-0.0216	-0.0028	
0.0112	1	.							
2739	N	N	. GLN GLN GLN A A 360 360 .	0.1328	0.1374	0.1223	-0.0059	0.0151	-
0.0040	1	.							
2740	CA	CA	. GLN GLN GLN A A 360 360 .	0.1446	0.1394	0.1076	-0.0058	0.0142	
0.0028	1	.							
2741	CB	CB	. GLN GLN GLN A A 360 360 .	0.1449	0.1526	0.1230	0.0083	0.0079	
0.0175	1	.							
2742	CG	CG	. GLN GLN GLN A A 360 360 .	0.1663	0.1313	0.1160	0.0221	0.0322	
0.0302	1	.							
2743	CD	CD	. GLN GLN GLN A A 360 360 .	0.1801	0.1759	0.1451	0.0151	0.0045	
0.0321	1	.							
2744	OE1	OE1	. GLN GLN GLN A A 360 360 .	0.3014	0.1925	0.1869	0.0400	-0.0032	
0.0375	1	.							
2745	NE2	NE2	. GLN GLN GLN A A 360 360 .	0.1637	0.1582	0.1461	-0.0086	0.0026	
0.0070	1	.							
2746	C	C	. GLN GLN GLN A A 360 360 .	0.1747	0.1497	0.1130	-0.0048	0.0068	-
0.0010	1	.							
2747	O	O	. GLN GLN GLN A A 360 360 .	0.1920	0.1641	0.1213	-0.0058	0.0068	-
0.0231	1	.							
2748	N	N	. GLU GLU GLU A A 361 361 .	0.1767	0.1752	0.1156	-0.0103	0.0012	
0.0132	1	.							
2749	CA	CA	. GLU GLU GLU A A 361 361 .	0.2434	0.1952	0.1279	-0.0151	-0.0070	
0.0155	1	.							
2750	CB	CB	. GLU GLU GLU A A 361 361 .	0.2680	0.2289	0.1670	-0.0407	-0.0119	
0.0537	1	.							
2751	CG	CG	. GLU GLU GLU A A 361 361 .	0.3418	0.3261	0.3635	-0.0286	-0.0168	
0.0394	1	.							
2752	CD	CD	. GLU GLU GLU A A 361 361 .	0.4622	0.3872	0.5177	-0.0494	-0.0158	-
0.0084	1	.							

2753	OE1	OE1	. GLU GLU GLU A A 361 361 .	0.5740	0.3955	0.6140	-0.0159	-0.0249	
0.0332	1	.							
2754	OE2	OE2	. GLU GLU GLU A A 361 361 .	0.4694	0.4695	0.5659	-0.0392	-0.0421	
0.0068	1	.							
2755	C	C	. GLU GLU GLU A A 361 361 .	0.2026	0.2132	0.1446	-0.0142	0.0101	
0.0125	1	.							
2756	O	O	. GLU GLU GLU A A 361 361 .	0.2454	0.2184	0.1205	-0.0112	0.0012	-
0.0007	1	.							
2757	N	N	. ASN ASN ASN A A 362 362 .	0.1689	0.1978	0.1361	-0.0203	-0.0169	
0.0072	1	.							
2758	CA	CA	. ASN ASN ASN A A 362 362 .	0.1782	0.1939	0.1479	-0.0003	-0.0044	
0.0032	1	.							
2759	CB	CB	. ASN ASN ASN A A 362 362 .	0.2019	0.1998	0.1587	0.0195	-0.0125	
0.0199	1	.							
2760	CG	CG	. ASN ASN ASN A A 362 362 .	0.2492	0.1795	0.1951	0.0159	-0.0621	
0.0268	1	.							
2761	OD1	OD1	. ASN ASN ASN A A 362 362 .	0.3557	0.3059	0.1321	0.0475	-0.0819	
0.0738	1	.							
2762	ND2	ND2	. ASN ASN ASN A A 362 362 .	0.2695	0.2558	0.1698	0.0149	-0.0706	
0.0308	1	.							
2763	C	C	. ASN ASN ASN A A 362 362 .	0.1744	0.1839	0.1252	-0.0134	-0.0031	
0.0083	1	.							
2764	O	O	. ASN ASN ASN A A 362 362 .	0.1978	0.2398	0.1601	-0.0399	-0.0238	
0.0217	1	.							
2765	N	N	. GLY GLY GLY A A 363 363 .	0.2011	0.1814	0.1205	-0.0160	0.0204	
0.0055	1	.							
2766	CA	CA	. GLY GLY GLY A A 363 363 .	0.2008	0.1735	0.1193	-0.0302	0.0352	
0.0092	1	.							
2767	C	C	. GLY GLY GLY A A 363 363 .	0.2208	0.1888	0.1420	-0.0236	0.0262	
0.0009	1	.							
2768	O	O	. GLY GLY GLY A A 363 363 .	0.2530	0.2173	0.1374	-0.0288	0.0388	-
0.0025	1	.							
2769	N	N	. TRP TRP TRP A A 364 364 .	0.1574	0.1464	0.1288	0.0006	0.0044	-
0.0054	1	.							
2770	CA	CA	. TRP TRP TRP A A 364 364 .	0.1487	0.1370	0.1340	0.0180	0.0043	
0.0117	1	.							
2771	CB	CB	. TRP TRP TRP A A 364 364 .	0.1330	0.1331	0.1442	0.0028	-0.0019	
0.0083	1	.							
2772	CG	CG	. TRP TRP TRP A A 364 364 .	0.1243	0.1306	0.0970	-0.0067	-0.0062	
0.0286	1	.							
2773	CD1	CD1	. TRP TRP TRP A A 364 364 .	0.1721	0.2035	0.1536	0.0151	-0.0110	
0.0109	1	.							
2774	NE1	NE1	. TRP TRP TRP A A 364 364 .	0.2045	0.1668	0.1221	0.0058	0.0091	-
0.0133	1	.							
2775	CE2	CE2	. TRP TRP TRP A A 364 364 .	0.1368	0.1589	0.1149	0.0045	0.0085	
0.0200	1	.							
2776	CD2	CD2	. TRP TRP TRP A A 364 364 .	0.1264	0.1453	0.1045	-0.0047	-0.0072	
0.0125	1	.							
2777	CE3	CE3	. TRP TRP TRP A A 364 364 .	0.1782	0.1754	0.0868	-0.0124	0.0230	-
0.0156	1	.							
2778	CZ3	CZ3	. TRP TRP TRP A A 364 364 .	0.1398	0.1442	0.1377	0.0139	0.0310	
0.0401	1	.							
2779	CH2	CH2	. TRP TRP TRP A A 364 364 .	0.1813	0.1567	0.1488	0.0415	-0.0099	-
0.0168	1	.							
2780	CZ2	CZ2	. TRP TRP TRP A A 364 364 .	0.1471	0.1197	0.1392	-0.0038	-0.0179	-
0.0088	1	.							
2781	C	C	. TRP TRP TRP A A 364 364 .	0.1509	0.1547	0.1306	0.0068	0.0025	-
0.0064	1	.							
2782	O	O	. TRP TRP TRP A A 364 364 .	0.1520	0.1749	0.1536	-0.0030	0.0038	
0.0078	1	.							

2783	N	N	. GLY GLY GLY A A 365 365 .	0.1376	0.1494	0.1116	0.0165	-0.0047	
0.0018	1	.							
2784	CA	CA	. GLY GLY GLY A A 365 365 .	0.1521	0.1477	0.0904	0.0231	0.0080	-
0.0126	1	.							
2785	C	C	. GLY GLY GLY A A 365 365 .	0.1237	0.1359	0.1191	0.0008	0.0068	-
0.0020	1	.							
2786	O	O	. GLY GLY GLY A A 365 365 .	0.1153	0.1339	0.0841	0.0014	0.0173	
0.0260	1	.							
2787	N	N	. VAL VAL VAL A A 366 366 .	0.1133	0.1347	0.0947	0.0126	-0.0210	-
0.0060	1	.							
2788	CA	CA	. VAL VAL VAL A A 366 366 .	0.1188	0.1185	0.0830	-0.0001	-0.0055	-
0.0010	1	.							
2789	CB	CB	. VAL VAL VAL A A 366 366 .	0.1221	0.0876	0.0753	-0.0056	-0.0124	
0.0007	1	.							
2790	CG1	CG1	. VAL VAL VAL A A 366 366 .	0.1115	0.1153	0.0720	-0.0088	-0.0219	-
0.0141	1	.							
2791	CG2	CG2	. VAL VAL VAL A A 366 366 .	0.1126	0.1054	0.1399	0.0007	0.0088	
0.0221	1	.							
2792	C	C	. VAL VAL VAL A A 366 366 .	0.0846	0.0939	0.0715	-0.0011	0.0015	-
0.0045	1	.							
2793	O	O	. VAL VAL VAL A A 366 366 .	0.1242	0.1239	0.0761	0.0234	-0.0006	
0.0073	1	.							
2794	N	N	. MET MET MET A A 367 367 .	0.0879	0.1092	0.0757	0.0002	-0.0106	
0.0036	1	.							
2795	CA	CA	. MET MET MET A A 367 367 .	0.1030	0.0883	0.0723	-0.0078	-0.0221	
0.0101	1	.							
2796	CB	CB	. MET MET MET A A 367 367 .	0.1227	0.1001	0.0477	-0.0145	0.0086	
0.0128	1	.							
2797	CG	CG	. MET MET MET A A 367 367 .	0.0958	0.1104	0.1074	0.0139	-0.0125	
0.0184	1	.							
2798	SD	SD	. MET MET MET A A 367 367 .	0.1125	0.1206	0.1140	-0.0034	-0.0010	
0.0069	1	.							
2799	CE	CE	. MET MET MET A A 367 367 .	0.2196	0.1594	0.1922	-0.0523	0.0137	-
0.0572	1	.							
2800	C	C	. MET MET MET A A 367 367 .	0.0890	0.0840	0.0674	0.0033	0.0081	
0.0113	1	.							
2801	O	O	. MET MET MET A A 367 367 .	0.1060	0.1040	0.0842	-0.0017	0.0024	
0.0026	1	.							
2802	N	N	. VAL VAL VAL A A 368 368 .	0.0929	0.0825	0.0846	-0.0097	-0.0096	-
0.0021	1	.							
2803	CA	CA	. VAL VAL VAL A A 368 368 .	0.0996	0.1126	0.0648	-0.0145	-0.0121	
0.0024	1	.							
2804	CB	CB	. VAL VAL VAL A A 368 368 .	0.0897	0.1017	0.0619	0.0029	-0.0087	
0.0135	1	.							
2805	CG1	CG1	. VAL VAL VAL A A 368 368 .	0.0910	0.1355	0.0872	-0.0215	0.0084	-
0.0248	1	.							
2806	CG2	CG2	. VAL VAL VAL A A 368 368 .	0.0725	0.1232	0.1247	-0.0125	0.0124	
0.0460	1	.							
2807	C	C	. VAL VAL VAL A A 368 368 .	0.1035	0.0890	0.0759	-0.0002	-0.0053	-
0.0008	1	.							
2808	O	O	. VAL VAL VAL A A 368 368 .	0.1099	0.0850	0.1024	0.0056	0.0017	
0.0022	1	.							
2809	N	N	. SER SER SER A A 369 369 .	0.0810	0.1065	0.0694	-0.0118	0.0014	-
0.0074	1	.							
2810	CA	CA	. SER SER SER A A 369 369 .	0.0948	0.1032	0.0967	0.0036	-0.0015	
0.0142	1	.							
2811	CB	CB	. SER SER SER A A 369 369 .	0.0674	0.1026	0.0930	-0.0074	0.0010	-
0.0044	1	.							
2812	OG	OG	. SER SER SER A A 369 369 .	0.0961	0.1101	0.1036	-0.0024	-0.0002	
0.0038	1	.							

2813	C	C	. SER SER SER A A 369 369 .	0.0905	0.0722	0.0916	0.0041	-0.0029	-
0.0076	1	.							
2814	O	O	. SER SER SER A A 369 369 .	0.1166	0.0896	0.0887	-0.0035	0.0129	
0.0092	1	.							
2815	N	N	. HIS HIS HIS A A 370 370 .	0.0931	0.0988	0.0828	0.0033	0.0188	-
0.0090	1	.							
2816	CA	CA	. HIS HIS HIS A A 370 370 .	0.0797	0.0818	0.0827	0.0131	-0.0059	
0.0009	1	.							
2817	CB	CB	. HIS HIS HIS A A 370 370 .	0.0829	0.0816	0.0845	0.0009	-0.0103	
0.0242	1	.							
2818	CG	CG	. HIS HIS HIS A A 370 370 .	0.1079	0.0854	0.0648	-0.0018	-0.0001	
0.0154	1	.							
2819	ND1	ND1	. HIS HIS HIS A A 370 370 .	0.0890	0.0820	0.0716	0.0022	0.0098	
0.0090	1	.							
2820	CE1	CE1	. HIS HIS HIS A A 370 370 .	0.0980	0.1180	0.0908	0.0127	-0.0011	-
0.0028	1	.							
2821	NE2	NE2	. HIS HIS HIS A A 370 370 .	0.1242	0.0918	0.1053	-0.0029	-0.0101	
0.0210	1	.							
2822	CD2	CD2	. HIS HIS HIS A A 370 370 .	0.0639	0.0927	0.0952	0.0082	0.0149	-
0.0120	1	.							
2823	C	C	. HIS HIS HIS A A 370 370 .	0.0572	0.0772	0.0809	-0.0134	0.0005	
0.0011	1	.							
2824	O	O	. HIS HIS HIS A A 370 370 .	0.0880	0.0969	0.0724	0.0048	0.0044	-
0.0019	1	.							
2825	N	N	. ARG ARG ARG A A 371 371 .	0.0790	0.0949	0.0690	-0.0019	0.0228	
0.0013	1	.							
2826	CA	CA	. ARG ARG ARG A A 371 371 .	0.0682	0.0822	0.0697	0.0024	0.0123	-
0.0026	1	.							
2827	CB	CB	. ARG ARG ARG A A 371 371 .	0.0805	0.0572	0.0758	-0.0106	0.0224	
0.0113	1	.							
2828	CG	CG	. ARG ARG ARG A A 371 371 .	0.0981	0.0652	0.0656	-0.0110	-0.0104	
0.0180	1	.							
2829	CD	CD	. ARG ARG ARG A A 371 371 .	0.0401	0.0866	0.0951	0.0152	-0.0270	
0.0024	1	.							
2830	NE	NE	. ARG ARG ARG A A 371 371 .	0.0810	0.0938	0.1013	0.0031	-0.0082	
0.0171	1	.							
2831	CZ	CZ	. ARG ARG ARG A A 371 371 .	0.0905	0.0860	0.0921	0.0078	0.0017	-
0.0062	1	.							
2832	NH1	NH1	. ARG ARG ARG A A 371 371 .	0.1088	0.0915	0.0994	-0.0014	0.0014	-
0.0007	1	.							
2833	NH2	NH2	. ARG ARG ARG A A 371 371 .	0.0910	0.1097	0.0902	-0.0038	0.0063	
0.0187	1	.							
2834	C	C	. ARG ARG ARG A A 371 371 .	0.0908	0.0808	0.0708	0.0020	0.0039	-
0.0081	1	.							
2835	O	O	. ARG ARG ARG A A 371 371 .	0.0786	0.0939	0.0814	0.0069	-0.0107	
0.0075	1	.							
2836	N	N	. SER SER SER A A 372 372 .	0.0790	0.0669	0.0808	0.0107	0.0143	
0.0078	1	.							
2837	CA	CA	. SER SER SER A A 372 372 .	0.0831	0.0987	0.0823	-0.0091	0.0053	
0.0180	1	.							
2838	CB	CB	. SER SER SER A A 372 372 .	0.0857	0.0749	0.1236	0.0012	0.0106	
0.0008	1	.							
2839	OG	OG	. SER SER SER A A 372 372 .	0.0788	0.0753	0.0956	0.0039	0.0153	-
0.0071	1	.							
2840	C	C	. SER SER SER A A 372 372 .	0.0646	0.0952	0.1012	0.0000	0.0034	
0.0072	1	.							
2841	O	O	. SER SER SER A A 372 372 .	0.1032	0.0803	0.0921	0.0041	0.0047	
0.0220	1	.							
2842	N	N	. GLY GLY GLY A A 373 373 .	0.0878	0.0798	0.0796	0.0146	-0.0030	-
0.0096	1	.							



2873	CB	CB	. ASP ASP ASP A A 377 377 .	0.1327	0.1245	0.1112	0.0062	0.0167	
0.0136	1	.							
2874	CG	CG	. ASP ASP ASP A A 377 377 .	0.1678	0.1562	0.1276	-0.0115	0.0068	
0.0121	1	.							
2875	OD1	OD1	. ASP ASP ASP A A 377 377 .	0.2236	0.1562	0.1720	0.0052	0.0380	-
0.0042	1	.							
2876	OD2	OD2	. ASP ASP ASP A A 377 377 .	0.1665	0.1631	0.1781	-0.0241	0.0527	-
0.0378	1	.							
2877	C	C	. ASP ASP ASP A A 377 377 .	0.0867	0.0988	0.1192	0.0050	-0.0033	-
0.0064	1	.							
2878	O	O	. ASP ASP ASP A A 377 377 .	0.1232	0.1079	0.1168	-0.0145	0.0125	-
0.0110	1	.							
2879	N	N	. THR THR THR A A 378 378 .	0.1131	0.0907	0.1014	-0.0033	0.0095	-
0.0143	1	.							
2880	CA	CA	. THR THR THR A A 378 378 .	0.1224	0.0888	0.0909	-0.0044	0.0084	-
0.0001	1	.							
2881	CB	CB	. THR THR THR A A 378 378 .	0.1131	0.1202	0.0884	-0.0072	0.0025	
0.0027	1	.							
2882	OG1	OG1	. THR THR THR A A 378 378 .	0.1235	0.1497	0.1354	-0.0039	-0.0056	
0.0253	1	.							
2883	CG2	CG2	. THR THR THR A A 378 378 .	0.1942	0.1422	0.1196	-0.0138	0.0191	
0.0228	1	.							
2884	C	C	. THR THR THR A A 378 378 .	0.1162	0.0911	0.0912	-0.0002	0.0017	
0.0117	1	.							
2885	O	O	. THR THR THR A A 378 378 .	0.1084	0.1085	0.0994	-0.0029	0.0003	-
0.0046	1	.							
2886	N	N	. PHE PHE PHE A A 379 379 .	0.0956	0.0866	0.0926	-0.0189	0.0150	
0.0084	1	.							
2887	CA	CA	. PHE PHE PHE A A 379 379 .	0.0876	0.0773	0.0578	-0.0052	0.0076	-
0.0004	1	.							
2888	CB	CB	. PHE PHE PHE A A 379 379 .	0.0967	0.0768	0.0729	-0.0109	0.0116	
0.0029	1	.							
2889	CG	CG	. PHE PHE PHE A A 379 379 .	0.1040	0.0892	0.0986	-0.0026	0.0052	-
0.0140	1	.							
2890	CD1	CD1	. PHE PHE PHE A A 379 379 .	0.1093	0.0919	0.0918	0.0058	0.0077	
0.0011	1	.							
2891	CE1	CE1	. PHE PHE PHE A A 379 379 .	0.1335	0.1161	0.1071	-0.0114	-0.0089	-
0.0294	1	.							
2892	CZ	CZ	. PHE PHE PHE A A 379 379 .	0.1469	0.1288	0.1113	0.0014	0.0329	-
0.0181	1	.							
2893	CE2	CE2	. PHE PHE PHE A A 379 379 .	0.1205	0.1414	0.1654	0.0043	0.0398	
0.0116	1	.							
2894	CD2	CD2	. PHE PHE PHE A A 379 379 .	0.1082	0.1391	0.1780	-0.0028	0.0145	
0.0307	1	.							
2895	C	C	. PHE PHE PHE A A 379 379 .	0.0634	0.0986	0.0712	-0.0282	0.0200	-
0.0040	1	.							
2896	O	O	. PHE PHE PHE A A 379 379 .	0.0863	0.0906	0.0851	-0.0144	0.0121	-
0.0107	1	.							
2897	N	N	. ILE ILE ILE A A 380 380 .	0.0651	0.0845	0.0770	-0.0133	-0.0052	
0.0004	1	.							
2898	CA	CA	. ILE ILE ILE A A 380 380 .	0.0920	0.0870	0.0839	-0.0086	0.0054	-
0.0118	1	.							
2899	CB	CB	. ILE ILE ILE A A 380 380 .	0.0769	0.0741	0.0887	-0.0031	-0.0052	
0.0019	1	.							
2900	CG1	CG1	. ILE ILE ILE A A 380 380 .	0.0702	0.0964	0.0889	-0.0078	-0.0141	
0.0166	1	.							
2901	CD	CD	. ILE ILE ILE A A 380 380 .	0.0734	0.1268	0.1397	-0.0274	0.0112	
0.0242	1	.							
2902	CG2	CG2	. ILE ILE ILE A A 380 380 .	0.1138	0.0772	0.0967	0.0451	0.0345	
0.0132	1	.							



2903	C	C	. ILE ILE ILE A A 380 380 .	0.0718	0.0873	0.0780	0.0003	0.0134	
0.0035	1	.							
2904	O	O	. ILE ILE ILE A A 380 380 .	0.0861	0.0917	0.0830	0.0028	0.0109	
0.0039	1	.							
2905	N	N	. ALA ALA ALA A A 381 381 .	0.0778	0.0685	0.0665	0.0160	0.0099	-
0.0024	1	.							
2906	CA	CA	. ALA ALA ALA A A 381 381 .	0.0799	0.0495	0.0647	-0.0013	0.0180	
0.0043	1	.							
2907	CB	CB	. ALA ALA ALA A A 381 381 .	0.0795	0.0651	0.0988	0.0291	-0.0199	
0.0073	1	.							
2908	C	C	. ALA ALA ALA A A 381 381 .	0.0838	0.0659	0.0943	0.0012	0.0055	-
0.0091	1	.							
2909	O	O	. ALA ALA ALA A A 381 381 .	0.0926	0.1082	0.0771	-0.0054	0.0047	-
0.0080	1	.							
2910	N	N	. ASP ASP ASP A A 382 382 .	0.0807	0.0719	0.0794	-0.0164	-0.0047	-
0.0084	1	.							
2911	CA	CA	. ASP ASP ASP A A 382 382 .	0.0955	0.0965	0.1100	-0.0218	0.0000	
0.0044	1	.							
2912	CB	CB	. ASP ASP ASP A A 382 382 .	0.0867	0.1211	0.1119	0.0019	-0.0142	
0.0005	1	.							
2913	CG	CG	. ASP ASP ASP A A 382 382 .	0.1421	0.1514	0.1260	0.0093	0.0012	
0.0375	1	.							
2914	OD1	OD1	. ASP ASP ASP A A 382 382 .	0.1174	0.1568	0.1556	-0.0133	-0.0060	
0.0387	1	.							
2915	OD2	OD2	. ASP ASP ASP A A 382 382 .	0.1448	0.1668	0.1578	-0.0008	0.0434	
0.0245	1	.							
2916	C	C	. ASP ASP ASP A A 382 382 .	0.0812	0.1220	0.1088	-0.0048	0.0115	
0.0082	1	.							
2917	O	O	. ASP ASP ASP A A 382 382 .	0.0969	0.1324	0.1151	0.0035	0.0091	
0.0015	1	.							
2918	N	N	. LEU LEU LEU A A 383 383 .	0.0817	0.0819	0.0993	-0.0022	0.0066	
0.0103	1	.							
2919	CA	CA	. LEU LEU LEU A A 383 383 .	0.1037	0.0741	0.0798	0.0127	0.0066	-
0.0180	1	.							
2920	CB	CB	. LEU LEU LEU A A 383 383 .	0.0811	0.0865	0.0912	0.0154	0.0222	-
0.0027	1	.							
2921	CG	CG	. LEU LEU LEU A A 383 383 .	0.1115	0.0814	0.0971	0.0078	0.0308	
0.0233	1	.							
2922	CD1	CD1	. LEU LEU LEU A A 383 383 .	0.0957	0.0915	0.1136	-0.0104	0.0305	-
0.0154	1	.							
2923	CD2	CD2	. LEU LEU LEU A A 383 383 .	0.1043	0.1037	0.1119	-0.0055	0.0179	-
0.0236	1	.							
2924	C	C	. LEU LEU LEU A A 383 383 .	0.1009	0.0762	0.0675	-0.0224	0.0046	-
0.0039	1	.							
2925	O	O	. LEU LEU LEU A A 383 383 .	0.1270	0.1099	0.0856	-0.0035	-0.0021	
0.0031	1	.							
2926	N	N	. VAL VAL VAL A A 384 384 .	0.0849	0.0870	0.0906	-0.0108	0.0055	
0.0008	1	.							
2927	CA	CA	. VAL VAL VAL A A 384 384 .	0.0941	0.0898	0.0832	-0.0172	0.0151	-
0.0063	1	.							
2928	CB	CB	. VAL VAL VAL A A 384 384 .	0.0948	0.0827	0.0871	-0.0122	-0.0193	
0.0174	1	.							
2929	CG1	CG1	. VAL VAL VAL A A 384 384 .	0.1042	0.1084	0.0731	0.0067	-0.0021	
0.0010	1	.							
2930	CG2	CG2	. VAL VAL VAL A A 384 384 .	0.1138	0.1164	0.0814	-0.0082	0.0036	
0.0030	1	.							
2931	C	C	. VAL VAL VAL A A 384 384 .	0.0853	0.0997	0.0850	-0.0024	-0.0070	
0.0064	1	.							
2932	O	O	. VAL VAL VAL A A 384 384 .	0.0948	0.0984	0.0915	-0.0033	0.0072	-
0.0045	1	.							

2933	N	N	. VAL VAL VAL A A 385 385 .	0.0749	0.0997	0.0929	0.0037	0.0033	-
0.0111	1	.							
2934	CA	CA	. VAL VAL VAL A A 385 385 .	0.0972	0.1090	0.0973	0.0118	0.0219	
0.0161	1	.							
2935	CB	CB	. VAL VAL VAL A A 385 385 .	0.0762	0.1095	0.0798	0.0113	0.0111	
0.0069	1	.							
2936	CG1	CG1	. VAL VAL VAL A A 385 385 .	0.1048	0.1365	0.1340	0.0143	0.0374	
0.0071	1	.							
2937	CG2	CG2	. VAL VAL VAL A A 385 385 .	0.1134	0.1183	0.1334	0.0038	0.0311	
0.0254	1	.							
2938	C	C	. VAL VAL VAL A A 385 385 .	0.0861	0.1161	0.0997	-0.0032	0.0156	-
0.0009	1	.							
2939	O	O	. VAL VAL VAL A A 385 385 .	0.1061	0.1441	0.1117	-0.0003	0.0213	
0.0043	1	.							
2940	N	N	. GLY GLY GLY A A 386 386 .	0.1044	0.1088	0.1202	-0.0132	0.0294	
0.0128	1	.							
2941	CA	CA	. GLY GLY GLY A A 386 386 .	0.1001	0.1117	0.1218	-0.0013	0.0215	
0.0253	1	.							
2942	C	C	. GLY GLY GLY A A 386 386 .	0.1108	0.1168	0.0990	-0.0157	0.0155	
0.0119	1	.							
2943	O	O	. GLY GLY GLY A A 386 386 .	0.1424	0.1533	0.1208	-0.0291	0.0171	
0.0343	1	.							
2944	N	N	. LEU LEU LEU A A 387 387 .	0.1029	0.1180	0.1185	0.0055	-0.0027	
0.0107	1	.							
2945	CA	CA	. LEU LEU LEU A A 387 387 .	0.1079	0.1197	0.0889	0.0175	0.0100	-
0.0011	1	.							
2946	CB	CB	. LEU LEU LEU A A 387 387 .	0.1298	0.1393	0.1038	0.0188	0.0189	
0.0104	1	.							
2947	CG	CG	. LEU LEU LEU A A 387 387 .	0.1374	0.1313	0.1408	-0.0180	0.0172	-
0.0192	1	.							
2948	CD1	CD1	. LEU LEU LEU A A 387 387 .	0.1280	0.2057	0.1710	0.0384	-0.0022	-
0.0374	1	.							
2949	CD2	CD2	. LEU LEU LEU A A 387 387 .	0.2734	0.1852	0.1784	-0.0261	0.0117	
0.0009	1	.							
2950	C	C	. LEU LEU LEU A A 387 387 .	0.1357	0.1290	0.0965	0.0021	0.0099	
0.0060	1	.							
2951	O	O	. LEU LEU LEU A A 387 387 .	0.1397	0.1585	0.1318	-0.0023	0.0150	
0.0240	1	.							
2952	N	N	. CYS CYS CYS A A 388 388 .	0.1254	0.1393	0.1229	-0.0129	0.0335	-
0.0100	1	.							
2953	CA	CA	. CYS CYS CYS A A 388 388 .	0.1535	0.1387	0.1376	-0.0018	0.0135	
0.0010	1	.							
2954	CB	CB	. CYS CYS CYS A A 388 388 .	0.1428	0.1932	0.1582	0.0160	0.0197	-
0.0141	1	.							
2955	SG	SG	. CYS CYS CYS A A 388 388 .	0.2491	0.3390	0.2641	-0.0002	0.0430	
0.0011	1	.							
2956	C	C	. CYS CYS CYS A A 388 388 .	0.1437	0.1618	0.1297	0.0012	0.0013	
0.0024	1	.							
2957	O	O	. CYS CYS CYS A A 388 388 .	0.1578	0.2168	0.1567	-0.0158	0.0064	-
0.0276	1	.							
2958	N	N	. THR THR THR A A 389 389 .	0.1111	0.1013	0.1290	-0.0039	0.0019	
0.0029	1	.							
2959	CA	CA	. THR THR THR A A 389 389 .	0.1160	0.1345	0.1142	0.0009	0.0053	
0.0045	1	.							
2960	CB	CB	. THR THR THR A A 389 389 .	0.1347	0.1182	0.1284	-0.0043	0.0226	
0.0190	1	.							
2961	OG1	OG1	. THR THR THR A A 389 389 .	0.1354	0.1370	0.1097	0.0166	0.0006	
0.0290	1	.							
2962	CG2	CG2	. THR THR THR A A 389 389 .	0.1544	0.0966	0.1451	-0.0158	0.0161	-
0.0050	1	.							

2963	C	C	. THR THR THR A A 389 389 .	0.1161	0.1365	0.1125	0.0047	0.0108	
0.0088	1	.							
2964	O	O	. THR THR THR A A 389 389 .	0.1299	0.1781	0.1312	-0.0014	-0.0019	-
0.0124	1	.							
2965	N	N	. GLY GLY GLY A A 390 390 .	0.1060	0.0977	0.0907	0.0032	0.0260	
0.0010	1	.							
2966	CA	CA	. GLY GLY GLY A A 390 390 .	0.1214	0.1085	0.1035	-0.0220	0.0166	
0.0036	1	.							
2967	C	C	. GLY GLY GLY A A 390 390 .	0.0971	0.0768	0.0902	0.0180	0.0001	
0.0009	1	.							
2968	O	O	. GLY GLY GLY A A 390 390 .	0.1228	0.1015	0.0885	-0.0109	-0.0072	
0.0092	1	.							
2969	N	N	. GLN GLN GLN A A 391 391 .	0.0868	0.1114	0.0688	0.0174	-0.0032	
0.0033	1	.							
2970	CA	CA	. GLN GLN GLN A A 391 391 .	0.0934	0.0985	0.0650	0.0098	0.0012	-
0.0049	1	.							
2971	CB	CB	. GLN GLN GLN A A 391 391 .	0.1217	0.1148	0.1001	0.0116	0.0030	
0.0303	1	.							
2972	CG	CG	. GLN GLN GLN A A 391 391 .	0.0952	0.1251	0.1344	0.0294	-0.0036	
0.0329	1	.							
2973	CD	CD	. GLN GLN GLN A A 391 391 .	0.1008	0.1491	0.1159	0.0096	-0.0027	
0.0258	1	.							
2974	OE1	OE1	. GLN GLN GLN A A 391 391 .	0.1236	0.1663	0.1120	0.0255	-0.0230	
0.0082	1	.							
2975	NE2	NE2	. GLN GLN GLN A A 391 391 .	0.1279	0.1516	0.0841	0.0053	-0.0013	
0.0243	1	.							
2976	C	C	. GLN GLN GLN A A 391 391 .	0.1026	0.0704	0.0839	0.0060	0.0028	-
0.0109	1	.							
2977	O	O	. GLN GLN GLN A A 391 391 .	0.0979	0.0849	0.0857	-0.0051	0.0076	
0.0017	1	.							
2978	N	N	. ILE ILE ILE A A 392 392 .	0.0809	0.0869	0.0685	-0.0011	-0.0007	
0.0003	1	.							
2979	CA	CA	. ILE ILE ILE A A 392 392 .	0.0741	0.0776	0.0630	-0.0084	-0.0109	-
0.0008	1	.							
2980	CB	CB	. ILE ILE ILE A A 392 392 .	0.0804	0.0754	0.0857	-0.0039	0.0172	-
0.0083	1	.							
2981	CG1	CG1	. ILE ILE ILE A A 392 392 .	0.0927	0.0846	0.0755	0.0027	-0.0049	-
0.0173	1	.							
2982	CD	CD	. ILE ILE ILE A A 392 392 .	0.0863	0.1476	0.1014	-0.0170	-0.0091	
0.0147	1	.							
2983	CG2	CG2	. ILE ILE ILE A A 392 392 .	0.0983	0.0807	0.1132	0.0018	0.0166	
0.0210	1	.							
2984	C	C	. ILE ILE ILE A A 392 392 .	0.0810	0.0797	0.0779	0.0162	0.0016	
0.0085	1	.							
2985	O	O	. ILE ILE ILE A A 392 392 .	0.1014	0.0864	0.1140	-0.0017	-0.0022	-
0.0111	1	.							
2986	N	N	. LYS LYS LYS A A 393 393 .	0.0737	0.0897	0.0670	0.0067	-0.0015	-
0.0008	1	.							
2987	CA	CA	. LYS LYS LYS A A 393 393 .	0.0651	0.0809	0.0741	-0.0089	-0.0013	-
0.0033	1	.							
2988	CB	CB	. LYS LYS LYS A A 393 393 .	0.0669	0.0794	0.0999	0.0042	-0.0066	-
0.0059	1	.							
2989	CG	CG	. LYS LYS LYS A A 393 393 .	0.0586	0.1039	0.1142	0.0096	-0.0108	-
0.0045	1	.							
2990	CD	CD	. LYS LYS LYS A A 393 393 .	0.0741	0.0973	0.1165	-0.0058	-0.0044	-
0.0158	1	.							
2991	CE	CE	. LYS LYS LYS A A 393 393 .	0.0534	0.1302	0.1635	0.0137	-0.0021	-
0.0101	1	.							
2992	NZ	NZ	. LYS LYS LYS A A 393 393 .	0.0838	0.1285	0.1165	-0.0109	0.0034	
0.0130	1	.							

2993	C	C	. LYS LYS LYS A A 393 393 .	0.0749	0.0719	0.0629	-0.0079	0.0067	
0.0016	1	.							
2994	O	O	. LYS LYS LYS A A 393 393 .	0.0885	0.0750	0.0703	0.0096	-0.0020	-
0.0072	1	.							
2995	N	N	. THR THR THR A A 394 394 .	0.0746	0.0808	0.0632	-0.0056	-0.0143	
0.0039	1	.							
2996	CA	CA	. THR THR THR A A 394 394 .	0.0745	0.0943	0.0650	-0.0086	0.0087	
0.0030	1	.							
2997	CB	CB	. THR THR THR A A 394 394 .	0.0615	0.1155	0.0615	0.0070	0.0124	-
0.0104	1	.							
2998	OG1	OG1	. THR THR THR A A 394 394 .	0.0909	0.0899	0.0854	-0.0099	-0.0055	-
0.0036	1	.							
2999	CG2	CG2	. THR THR THR A A 394 394 .	0.0835	0.1037	0.1394	0.0106	-0.0075	-
0.0031	1	.							
3000	C	C	. THR THR THR A A 394 394 .	0.0730	0.0616	0.0701	-0.0045	-0.0026	
0.0023	1	.							
3001	O	O	. THR THR THR A A 394 394 .	0.0875	0.0962	0.0835	-0.0210	-0.0102	
0.0101	1	.							
3002	N	N	. GLY GLY GLY A A 395 395 .	0.0666	0.0739	0.0712	0.0009	0.0136	
0.0051	1	.							
3003	CA	CA	. GLY GLY GLY A A 395 395 .	0.1000	0.0796	0.0638	-0.0090	0.0003	
0.0062	1	.							
3004	C	C	. GLY GLY GLY A A 395 395 .	0.0747	0.0808	0.0751	0.0135	-0.0048	
0.0026	1	.							
3005	O	O	. GLY GLY GLY A A 395 395 .	0.0925	0.0768	0.0764	0.0111	0.0026	-
0.0051	1	.							
3006	N	N	. ALA ALA ALA A A 396 396 .	0.0832	0.0643	0.0744	-0.0027	-0.0028	
0.0061	1	.							
3007	CA	CA	. ALA ALA ALA A A 396 396 .	0.0690	0.0706	0.0929	0.0056	-0.0072	
0.0213	1	.							
3008	CB	CB	. ALA ALA ALA A A 396 396 .	0.0750	0.1085	0.0990	-0.0153	0.0008	
0.0150	1	.							
3009	C	C	. ALA ALA ALA A A 396 396 .	0.0820	0.0670	0.0828	0.0056	-0.0171	
0.0032	1	.							
3010	O	O	. ALA ALA ALA A A 396 396 .	0.0979	0.0844	0.0836	-0.0096	0.0008	
0.0125	1	.							
3011	N	N	. PRO PRO PRO A A 397 397 .	0.0825	0.0712	0.0702	0.0097	-0.0116	-
0.0038	1	.							
3012	CA	CA	. PRO PRO PRO A A 397 397 .	0.0903	0.0947	0.0817	0.0098	-0.0073	-
0.0056	1	.							
3013	CB	CB	. PRO PRO PRO A A 397 397 .	0.0732	0.0785	0.0803	-0.0053	0.0161	-
0.0049	1	.							
3014	CG	CG	. PRO PRO PRO A A 397 397 .	0.0837	0.1019	0.1138	-0.0034	0.0035	
0.0195	1	.							
3015	CD	CD	. PRO PRO PRO A A 397 397 .	0.0796	0.0735	0.1007	-0.0167	-0.0117	-
0.0098	1	.							
3016	C	C	. PRO PRO PRO A A 397 397 .	0.0845	0.0909	0.0882	0.0008	-0.0019	
0.0076	1	.							
3017	O	O	. PRO PRO PRO A A 397 397 .	0.1115	0.0925	0.0991	0.0074	-0.0094	
0.0084	1	.							
3018	N	N	. CYS CYS CYS A A 398 398 .	0.0794	0.0788	0.0647	-0.0005	0.0013	
0.0040	1	.							
3019	CA	CA	. CYS CYS CYS A A 398 398 .	0.1014	0.0950	0.0839	0.0004	0.0310	-
0.0121	1	.							
3020	CB	CB	. CYS CYS CYS A A 398 398 .	0.1114	0.0958	0.0889	-0.0209	0.0119	-
0.0212	1	.							
3021	SG	SG	. CYS CYS CYS A A 398 398 .	0.1153	0.1114	0.0939	-0.0115	-0.0006	
0.0066	1	.							
3022	C	C	. CYS CYS CYS A A 398 398 .	0.0776	0.0698	0.0816	0.0090	-0.0037	
0.0009	1	.							

3023	O	O	. CYS CYS CYS A A 398 398 .	0.0940	0.0859	0.1015	0.0047	-0.0045	
0.0030	1	.							
3024	N	N	. ARG ARG ARG A A 399 399 .	0.0745	0.0669	0.0676	-0.0062	0.0006	-
0.0184	1	.							
3025	CA	CA	. ARG ARG ARG A A 399 399 .	0.0619	0.0761	0.0845	0.0052	0.0038	-
0.0060	1	.							
3026	CB	CB	. ARG ARG ARG A A 399 399 .	0.0776	0.0778	0.0967	0.0145	0.0156	-
0.0147	1	.							
3027	CG	CG	. ARG ARG ARG A A 399 399 .	0.0521	0.0773	0.0813	0.0007	-0.0072	
0.0182	1	.							
3028	CD	CD	. ARG ARG ARG A A 399 399 .	0.0730	0.0681	0.1173	0.0154	-0.0211	-
0.0210	1	.							
3029	NE	NE	. ARG ARG ARG A A 399 399 .	0.0800	0.0686	0.0845	0.0145	0.0026	-
0.0046	1	.							
3030	CZ	CZ	. ARG ARG ARG A A 399 399 .	0.0750	0.0839	0.0933	0.0048	0.0118	
0.0003	1	.							
3031	NH1	NH1	. ARG ARG ARG A A 399 399 .	0.0958	0.0806	0.0880	-0.0063	-0.0062	
0.0093	1	.							
3032	NH2	NH2	. ARG ARG ARG A A 399 399 .	0.0943	0.0938	0.0891	-0.0103	-0.0031	
0.0057	1	.							
3033	C	C	. ARG ARG ARG A A 399 399 .	0.0692	0.0810	0.0807	-0.0114	-0.0016	
0.0087	1	.							
3034	O	O	. ARG ARG ARG A A 399 399 .	0.0847	0.0663	0.0722	-0.0033	0.0015	-
0.0007	1	.							
3035	N	N	. SER SER SER A A 400 400 .	0.0806	0.0680	0.0746	0.0018	0.0000	
0.0026	1	.							
3036	CA	CA	. SER SER SER A A 400 400 .	0.0654	0.0725	0.0535	-0.0018	0.0077	
0.0052	1	.							
3037	CB	CB	. SER SER SER A A 400 400 .	0.0818	0.0633	0.0766	0.0121	-0.0109	
0.0182	1	.							
3038	OG	OG	. SER SER SER A A 400 400 .	0.1051	0.0744	0.0852	0.0087	0.0063	
0.0068	1	.							
3039	C	C	. SER SER SER A A 400 400 .	0.0682	0.0718	0.0676	0.0198	0.0056	-
0.0011	1	.							
3040	O	O	. SER SER SER A A 400 400 .	0.0882	0.0732	0.0822	-0.0039	0.0017	-
0.0038	1	.							
3041	N	N	. GLU GLU GLU A A 401 401 .	0.0585	0.0582	0.0837	0.0112	0.0073	
0.0060	1	.							
3042	CA	CA	. GLU GLU GLU A A 401 401 .	0.0723	0.0693	0.0703	0.0211	0.0134	
0.0000	1	.							
3043	CB	CB	. GLU GLU GLU A A 401 401 .	0.0535	0.0830	0.0920	0.0229	0.0064	
0.0002	1	.							
3044	CG	CG	. GLU GLU GLU A A 401 401 .	0.0792	0.0749	0.0819	-0.0208	0.0183	
0.0148	1	.							
3045	CD	CD	. GLU GLU GLU A A 401 401 .	0.0771	0.0750	0.0725	0.0204	0.0006	-
0.0101	1	.							
3046	OE1	OE1	. GLU GLU GLU A A 401 401 .	0.0822	0.0778	0.0604	-0.0069	-0.0010	-
0.0016	1	.							
3047	OE2	OE2	. GLU GLU GLU A A 401 401 .	0.0821	0.1010	0.0831	-0.0014	0.0073	
0.0126	1	.							
3048	C	C	. GLU GLU GLU A A 401 401 .	0.0559	0.0894	0.0749	-0.0093	-0.0046	
0.0012	1	.							
3049	O	O	. GLU GLU GLU A A 401 401 .	0.0807	0.0735	0.0821	-0.0036	-0.0016	-
0.0041	1	.							
3050	N	N	. ARG ARG ARG A A 402 402 .	0.0793	0.0698	0.0734	-0.0010	-0.0055	-
0.0138	1	.							
3051	CA	CA	. ARG ARG ARG A A 402 402 .	0.0605	0.0790	0.0756	-0.0053	-0.0039	-
0.0031	1	.							
3052	CB	CB	. ARG ARG ARG A A 402 402 .	0.0695	0.0628	0.1003	-0.0121	0.0044	-
0.0022	1	.							



3083	N	N	. TYR TYR TYR A A 406 406 .	0.1045	0.0578	0.0821	0.0005	0.0039	
0.0111	1	.							
3084	CA	CA	. TYR TYR TYR A A 406 406 .	0.0820	0.0755	0.0658	-0.0025	0.0126	-
0.0003	1	.							
3085	CB	CB	. TYR TYR TYR A A 406 406 .	0.0871	0.0830	0.0923	-0.0088	-0.0058	
0.0044	1	.							
3086	CG	CG	. TYR TYR TYR A A 406 406 .	0.0831	0.0650	0.0761	0.0211	-0.0056	
0.0057	1	.							
3087	CD1	CD1	. TYR TYR TYR A A 406 406 .	0.0892	0.0603	0.0857	0.0015	-0.0153	-
0.0093	1	.							
3088	CE1	CE1	. TYR TYR TYR A A 406 406 .	0.0639	0.0792	0.0842	0.0132	0.0069	-
0.0089	1	.							
3089	CZ	CZ	. TYR TYR TYR A A 406 406 .	0.0764	0.0849	0.0784	0.0072	-0.0048	-
0.0041	1	.							
3090	OH	OH	. TYR TYR TYR A A 406 406 .	0.0854	0.0900	0.0776	-0.0026	-0.0095	-
0.0034	1	.							
3091	CE2	CE2	. TYR TYR TYR A A 406 406 .	0.0902	0.0739	0.0944	0.0025	-0.0042	
0.0019	1	.							
3092	CD2	CD2	. TYR TYR TYR A A 406 406 .	0.0658	0.0598	0.0797	0.0070	-0.0120	
0.0097	1	.							
3093	C	C	. TYR TYR TYR A A 406 406 .	0.0747	0.0783	0.0701	-0.0158	0.0036	-
0.0023	1	.							
3094	O	O	. TYR TYR TYR A A 406 406 .	0.0857	0.0958	0.1025	-0.0056	0.0062	
0.0002	1	.							
3095	N	N	. ASN ASN ASN A A 407 407 .	0.0893	0.0706	0.0641	0.0059	-0.0142	-
0.0042	1	.							
3096	CA	CA	. ASN ASN ASN A A 407 407 .	0.0832	0.1131	0.0732	-0.0036	0.0038	
0.0159	1	.							
3097	CB	CB	. ASN ASN ASN A A 407 407 .	0.1076	0.0841	0.0757	-0.0019	0.0013	
0.0140	1	.							
3098	CG	CG	. ASN ASN ASN A A 407 407 .	0.0626	0.0737	0.0799	-0.0176	0.0035	-
0.0026	1	.							
3099	OD1	OD1	. ASN ASN ASN A A 407 407 .	0.0905	0.0867	0.0802	-0.0188	-0.0015	
0.0128	1	.							
3100	ND2	ND2	. ASN ASN ASN A A 407 407 .	0.0756	0.1019	0.0781	0.0195	0.0101	-
0.0019	1	.							
3101	C	C	. ASN ASN ASN A A 407 407 .	0.0920	0.0916	0.0778	-0.0012	0.0103	
0.0136	1	.							
3102	O	O	. ASN ASN ASN A A 407 407 .	0.0854	0.1063	0.0825	0.0081	0.0192	
0.0019	1	.							
3103	N	N	. GLN GLN GLN A A 408 408 .	0.0821	0.0938	0.0834	-0.0036	0.0105	-
0.0059	1	.							
3104	CA	CA	. GLN GLN GLN A A 408 408 .	0.0702	0.0849	0.0703	0.0042	0.0200	
0.0023	1	.							
3105	CB	CB	. GLN GLN GLN A A 408 408 .	0.0935	0.0728	0.0802	0.0019	0.0242	
0.0063	1	.							
3106	CG	CG	. GLN GLN GLN A A 408 408 .	0.0726	0.0620	0.0821	-0.0171	-0.0024	
0.0032	1	.							
3107	CD	CD	. GLN GLN GLN A A 408 408 .	0.1306	0.1520	0.1685	-0.0140	-0.0107	
0.0084	1	.							
3108	OE1	OE1	. GLN GLN GLN A A 408 408 .	0.1344	0.1811	0.1811	-0.0183	-0.0119	
0.0334	1	.							
3109	NE2	NE2	. GLN GLN GLN A A 408 408 .	0.1966	0.1780	0.2223	-0.0441	-0.0211	
0.0501	1	.							
3110	C	C	. GLN GLN GLN A A 408 408 .	0.0752	0.0777	0.0767	0.0017	0.0109	-
0.0002	1	.							
3111	O	O	. GLN GLN GLN A A 408 408 .	0.0717	0.0947	0.0911	-0.0075	0.0118	
0.0020	1	.							
3112	N	N	. LEU LEU LEU A A 409 409 .	0.0894	0.0772	0.0663	0.0016	-0.0060	-
0.0116	1	.							

3113	CA	CA	. LEU LEU LEU A A 409 409 .	0.0601	0.0938	0.0837	0.0120	0.0013	-
0.0045	1	.							
3114	CB	CB	. LEU LEU LEU A A 409 409 .	0.0689	0.0998	0.0779	0.0018	-0.0191	-
0.0106	1	.							
3115	CG	CG	. LEU LEU LEU A A 409 409 .	0.0822	0.0771	0.0958	-0.0181	-0.0066	
0.0030	1	.							
3116	CD1	CD1	. LEU LEU LEU A A 409 409 .	0.0980	0.1239	0.1065	-0.0028	-0.0154	
0.0217	1	.							
3117	CD2	CD2	. LEU LEU LEU A A 409 409 .	0.0890	0.0909	0.0904	0.0032	0.0011	-
0.0090	1	.							
3118	C	C	. LEU LEU LEU A A 409 409 .	0.0760	0.0954	0.0807	0.0015	-0.0030	-
0.0047	1	.							
3119	O	O	. LEU LEU LEU A A 409 409 .	0.0777	0.1067	0.0873	0.0029	0.0119	
0.0087	1	.							
3120	N	N	. MET MET MET A A 410 410 .	0.0781	0.0916	0.1203	0.0201	-0.0043	
0.0023	1	.							
3121	CA	CA	. MET MET MET A A 410 410 .	0.0953	0.0766	0.0934	0.0141	0.0013	-
0.0050	1	.							
3122	CB	CB	. MET MET MET A A 410 410 .	0.0981	0.0955	0.1161	-0.0054	-0.0058	
0.0164	1	.							
3123	CG	CG	. MET MET MET A A 410 410 .	0.1383	0.1237	0.1330	-0.0190	-0.0191	
0.0552	1	.							
3124	SD	SD	. MET MET MET A A 410 410 .	0.1564	0.1409	0.1597	-0.0001	-0.0086	
0.0098	1	.							
3125	CE	CE	. MET MET MET A A 410 410 .	0.1166	0.1255	0.0637	-0.0113	0.0180	-
0.0087	1	.							
3126	C	C	. MET MET MET A A 410 410 .	0.0924	0.1090	0.0963	0.0019	0.0049	-
0.0081	1	.							
3127	O	O	. MET MET MET A A 410 410 .	0.1137	0.1386	0.1152	-0.0005	0.0255	-
0.0001	1	.							
3128	N	N	. ARG ARG ARG A A 411 411 .	0.0840	0.0934	0.0824	-0.0063	-0.0118	-
0.0006	1	.							
3129	CA	CA	. ARG ARG ARG A A 411 411 .	0.0964	0.1094	0.0801	-0.0074	0.0015	-
0.0059	1	.							
3130	CB	CB	. ARG ARG ARG A A 411 411 .	0.1023	0.1177	0.1079	-0.0201	-0.0027	-
0.0026	1	.							
3131	CG	CG	. ARG ARG ARG A A 411 411 .	0.1478	0.1049	0.0986	0.0001	-0.0087	
0.0092	1	.							
3132	CD	CD	. ARG ARG ARG A A 411 411 .	0.1358	0.1454	0.0841	-0.0335	-0.0231	
0.0224	1	.							
3133	NE	NE	. ARG ARG ARG A A 411 411 .	0.0883	0.1473	0.1296	-0.0004	0.0179	-
0.0081	1	.							
3134	CZ	CZ	. ARG ARG ARG A A 411 411 .	0.0781	0.1100	0.1047	0.0149	0.0092	
0.0071	1	.							
3135	NH1	NH1	. ARG ARG ARG A A 411 411 .	0.1130	0.1231	0.1319	0.0130	-0.0146	
0.0196	1	.							
3136	NH2	NH2	. ARG ARG ARG A A 411 411 .	0.1476	0.1411	0.1556	-0.0184	0.0071	
0.0243	1	.							
3137	C	C	. ARG ARG ARG A A 411 411 .	0.1143	0.1426	0.0920	0.0073	0.0041	-
0.0149	1	.							
3138	O	O	. ARG ARG ARG A A 411 411 .	0.1088	0.1895	0.1140	0.0126	0.0319	
0.0018	1	.							
3139	N	N	. ILE ILE ILE A A 412 412 .	0.1117	0.1006	0.0935	0.0021	0.0019	
0.0049	1	.							
3140	CA	CA	. ILE ILE ILE A A 412 412 .	0.1004	0.1146	0.0866	0.0046	0.0035	-
0.0051	1	.							
3141	CB	CB	. ILE ILE ILE A A 412 412 .	0.1235	0.1260	0.0827	0.0153	0.0150	
0.0083	1	.							
3142	CG1	CG1	. ILE ILE ILE A A 412 412 .	0.0952	0.0956	0.0936	-0.0045	0.0159	
0.0028	1	.							





3173	O	O	. GLU GLU GLU A A 415 415 .	0.1650	0.3351	0.2149	-0.0084	0.0475	-
0.0547	1	.							
3174	N	N	. LEU LEU LEU A A 416 416 .	0.1871	0.2702	0.1335	-0.0239	0.0247	-
0.0135	1	.							
3175	CA	CA	. LEU LEU LEU A A 416 416 .	0.1950	0.2253	0.1470	-0.0178	0.0237	-
0.0082	1	.							
3176	CB	CB	. LEU LEU LEU A A 416 416 .	0.1880	0.1961	0.1409	-0.0192	0.0227	-
0.0122	1	.							
3177	CG	CG	. LEU LEU LEU A A 416 416 .	0.1742	0.1816	0.1648	-0.0180	0.0215	-
0.0052	1	.							
3178	CD1	CD1	. LEU LEU LEU A A 416 416 .	0.2306	0.1866	0.1846	0.0982	-0.0025	-
0.0637	1	.							
3179	CD2	CD2	. LEU LEU LEU A A 416 416 .	0.3188	0.2341	0.2712	-0.0429	0.0933	-
0.0156	1	.							
3180	C	C	. LEU LEU LEU A A 416 416 .	0.2009	0.2629	0.1908	-0.0004	0.0286	-
0.0054	1	.							
3181	O	O	. LEU LEU LEU A A 416 416 .	0.1992	0.3050	0.1734	-0.0100	0.0338	-
0.0179	1	.							
3182	N	N	. GLY GLY GLY A A 417 417 .	0.2220	0.2730	0.2034	0.0157	0.0434	-
0.0244	1	.							
3183	CA	CA	. GLY GLY GLY A A 417 417 .	0.2753	0.2999	0.2372	0.0358	0.0132	-
0.0272	1	.							
3184	C	C	. GLY GLY GLY A A 417 417 .	0.2710	0.3207	0.2508	0.0183	0.0234	-
0.0241	1	.							
3185	O	O	. GLY GLY GLY A A 417 417 .	0.2512	0.3098	0.2513	0.0481	0.0335	-
0.0384	1	.							
3186	N	N	. ASP ASP ASP A A 418 418 .	0.2876	0.3536	0.2876	0.0415	0.0327	-
0.0315	1	.							
3187	CA	CA	. ASP ASP ASP A A 418 418 .	0.3119	0.3761	0.3115	0.0250	0.0389	-
0.0238	1	.							
3188	CB	CB	. ASP ASP ASP A A 418 418 .	0.3169	0.4054	0.3159	0.0349	0.0526	-
0.0313	1	.							
3189	CG	CG	. ASP ASP ASP A A 418 418 .	0.4120	0.4465	0.4437	0.0391	0.0613	-
0.0278	1	.							
3190	OD1	OD1	. ASP ASP ASP A A 418 418 .	0.4843	0.5533	0.5573	0.0873	0.1202	-
0.0835	1	.							
3191	OD2	OD2	. ASP ASP ASP A A 418 418 .	0.5104	0.4481	0.5180	0.0139	0.0697	-
0.0283	1	.							
3192	C	C	. ASP ASP ASP A A 418 418 .	0.2665	0.3816	0.3016	0.0126	0.0262	-
0.0198	1	.							
3193	O	O	. ASP ASP ASP A A 418 418 .	0.3113	0.4168	0.3025	0.0029	0.0244	-
0.0184	1	.							
3194	N	N	. GLU GLU GLU A A 419 419 .	0.2687	0.3784	0.2765	0.0115	0.0328	-
0.0020	1	.							
3195	CA	CA	. GLU GLU GLU A A 419 419 .	0.2858	0.3732	0.2961	0.0080	0.0378	-
0.0107	1	.							
3196	CB	CB	. GLU GLU GLU A A 419 419 .	0.3015	0.3889	0.3339	-0.0110	0.0531	-
0.0182	1	.							
3197	CG	CG	. GLU GLU GLU A A 419 419 .	0.4627	0.4588	0.4545	-0.0051	0.0234	-
0.0217	1	.							
3198	CD	CD	. GLU GLU GLU A A 419 419 .	0.5332	0.5186	0.5517	-0.0375	0.0464	-
0.0362	1	.							
3199	OE1	OE1	. GLU GLU GLU A A 419 419 .	0.5791	0.4509	0.5172	-0.0867	0.1301	-
0.0461	1	.							
3200	OE2	OE2	. GLU GLU GLU A A 419 419 .	0.5507	0.6137	0.6456	0.0107	0.0342	-
0.0018	1	.							
3201	C	C	. GLU GLU GLU A A 419 419 .	0.2648	0.3514	0.2800	-0.0019	0.0199	-
0.0290	1	.							
3202	O	O	. GLU GLU GLU A A 419 419 .	0.2729	0.3791	0.2979	0.0074	0.0391	-
0.0517	1	.							

3203	N	N	. ALA ALA ALA A A	420 420	. 0.2314 0.3126 0.2319 -0.0036 0.0032
0.0136	1	.			
3204	CA	CA	. ALA ALA ALA A A	420 420	. 0.2173 0.2720 0.1971 -0.0163 -0.0144 -
0.0012	1	.			
3205	CB	CB	. ALA ALA ALA A A	420 420	. 0.2342 0.2548 0.2053 -0.0078 0.0219
0.0018	1	.			
3206	C	C	. ALA ALA ALA A A	420 420	. 0.2133 0.2561 0.2109 0.0038 -0.0096 -
0.0302	1	.			
3207	O	O	. ALA ALA ALA A A	420 420	. 0.2265 0.2858 0.2361 -0.0035 -0.0329 -
0.0377	1	.			
3208	N	N	. ARG ARG ARG A A	421 421	. 0.1835 0.2532 0.1639 0.0044 0.0118 -
0.0159	1	.			
3209	CA	CA	. ARG ARG ARG A A	421 421	. 0.1579 0.2483 0.1874 -0.0167 0.0291 -
0.0161	1	.			
3210	CB	CB	. ARG ARG ARG A A	421 421	. 0.1974 0.3163 0.1984 0.0051 0.0563 -
0.0020	1	.			
3211	CG	CG	. ARG ARG ARG A A	421 421	. 0.2447 0.3880 0.2505 -0.0087 0.0689
0.0085	1	.			
3212	CD	CD	. ARG ARG ARG A A	421 421	. 0.4589 0.4010 0.4675 0.0063 -0.0061 -
0.0458	1	.			
3213	NE	NE	. ARG ARG ARG A A	421 421	. 0.5764 0.5922 0.5970 -0.0125 -0.0278 -
0.0474	1	.			
3214	CZ	CZ	. ARG ARG ARG A A	421 421	. 0.6421 0.6130 0.6512 -0.0211 -0.0391 -
0.0316	1	.			
3215	NH1	NH1	. ARG ARG ARG A A	421 421	. 0.7075 0.6481 0.6659 -0.0013 -0.0039
0.0011	1	.			
3216	NH2	NH2	. ARG ARG ARG A A	421 421	. 0.6385 0.6527 0.6173 -0.0082 -0.0720 -
0.0344	1	.			
3217	C	C	. ARG ARG ARG A A	421 421	. 0.1749 0.2310 0.1954 -0.0038 0.0363 -
0.0252	1	.			
3218	O	O	. ARG ARG ARG A A	421 421	. 0.1951 0.2628 0.2465 -0.0294 0.0765 -
0.0578	1	.			
3219	N	N	. PHE PHE PHE A A	422 422	. 0.1499 0.1708 0.1302 0.0020 0.0161 -
0.0075	1	.			
3220	CA	CA	. PHE PHE PHE A A	422 422	. 0.1173 0.1594 0.1253 0.0190 0.0055
0.0102	1	.			
3221	CB	CB	. PHE PHE PHE A A	422 422	. 0.1018 0.1457 0.1433 0.0012 0.0292 -
0.0196	1	.			
3222	CG	CG	. PHE PHE PHE A A	422 422	. 0.1252 0.1303 0.1094 0.0047 0.0211
0.0094	1	.			
3223	CD1	CD1	. PHE PHE PHE A A	422 422	. 0.0858 0.1320 0.0980 0.0112 -0.0081 -
0.0096	1	.			
3224	CE1	CE1	. PHE PHE PHE A A	422 422	. 0.1063 0.1323 0.0895 0.0027 0.0323 -
0.0189	1	.			
3225	CZ	CZ	. PHE PHE PHE A A	422 422	. 0.1500 0.1328 0.0876 0.0000 -0.0196
0.0180	1	.			
3226	CE2	CE2	. PHE PHE PHE A A	422 422	. 0.1223 0.1055 0.1259 0.0163 0.0054
0.0139	1	.			
3227	CD2	CD2	. PHE PHE PHE A A	422 422	. 0.1475 0.1469 0.1011 0.0170 -0.0117
0.0036	1	.			
3228	C	C	. PHE PHE PHE A A	422 422	. 0.1125 0.1513 0.1373 0.0127 -0.0120 -
0.0178	1	.			
3229	O	O	. PHE PHE PHE A A	422 422	. 0.1588 0.2073 0.1235 0.0209 -0.0117 -
0.0158	1	.			
3230	N	N	. ALA ALA ALA A A	423 423	. 0.1160 0.1211 0.1160 0.0082 -0.0085 -
0.0003	1	.			
3231	CA	CA	. ALA ALA ALA A A	423 423	. 0.1374 0.1138 0.1153 0.0072 -0.0165
0.0025	1	.			
3232	CB	CB	. ALA ALA ALA A A	423 423	. 0.1343 0.1302 0.1104 0.0175 -0.0109 -
0.0247	1	.			

3233	C	C	. ALA ALA ALA A A 423 423 .	0.1154	0.1293	0.1155	-0.0075	-0.0225	
0.0117	1	.							
3234	O	O	. ALA ALA ALA A A 423 423 .	0.1485	0.1685	0.1011	-0.0103	-0.0074	
0.0172	1	.							
3235	N	N	. GLY GLY GLY A A 424 424 .	0.1171	0.1124	0.0862	-0.0080	-0.0015	-
0.0090	1	.							
3236	CA	CA	. GLY GLY GLY A A 424 424 .	0.1147	0.1322	0.0977	-0.0219	-0.0097	
0.0025	1	.							
3237	C	C	. GLY GLY GLY A A 424 424 .	0.1143	0.1314	0.1181	-0.0162	-0.0096	-
0.0071	1	.							
3238	O	O	. GLY GLY GLY A A 424 424 .	0.1309	0.1312	0.1298	-0.0050	-0.0041	-
0.0038	1	.							
3239	N	N	. HIS HIS HIS A A 425 425 .	0.1431	0.1355	0.0942	0.0029	-0.0235	-
0.0196	1	.							
3240	CA	CA	. HIS HIS HIS A A 425 425 .	0.1243	0.1208	0.1242	-0.0053	-0.0136	-
0.0172	1	.							
3241	CB	CB	. HIS HIS HIS A A 425 425 .	0.1730	0.1379	0.0831	-0.0101	-0.0092	-
0.0317	1	.							
3242	CG	CG	. HIS HIS HIS A A 425 425 .	0.1466	0.1103	0.1288	0.0192	-0.0348	-
0.0495	1	.							
3243	ND1	ND1	. HIS HIS HIS A A 425 425 .	0.2319	0.1540	0.1887	0.0051	0.0128	-
0.0020	1	.							
3244	CE1	CE1	. HIS HIS HIS A A 425 425 .	0.2606	0.1346	0.1108	-0.0089	-0.0281	-
0.0458	1	.							
3245	NE2	NE2	. HIS HIS HIS A A 425 425 .	0.2602	0.1686	0.1567	-0.0048	-0.0206	-
0.0269	1	.							
3246	CD2	CD2	. HIS HIS HIS A A 425 425 .	0.2312	0.1873	0.1576	0.0069	-0.0387	-
0.0352	1	.							
3247	C	C	. HIS HIS HIS A A 425 425 .	0.1010	0.1154	0.0981	0.0007	-0.0006	-
0.0085	1	.							
3248	O	O	. HIS HIS HIS A A 425 425 .	0.1558	0.1379	0.1399	0.0136	-0.0082	
0.0188	1	.							
3249	N	N	. ASN ASN ASN A A 426 426 .	0.1401	0.1208	0.1050	-0.0165	0.0053	-
0.0050	1	.							
3250	CA	CA	. ASN ASN ASN A A 426 426 .	0.1404	0.1291	0.1466	0.0092	0.0005	
0.0073	1	.							
3251	CB	CB	. ASN ASN ASN A A 426 426 .	0.1681	0.1570	0.1341	0.0108	0.0054	-
0.0226	1	.							
3252	CG	CG	. ASN ASN ASN A A 426 426 .	0.1924	0.1936	0.1615	0.0089	-0.0128	-
0.0101	1	.							
3253	OD1	OD1	. ASN ASN ASN A A 426 426 .	0.2724	0.2296	0.1813	-0.0277	-0.0322	
0.0445	1	.							
3254	ND2	ND2	. ASN ASN ASN A A 426 426 .	0.1679	0.1689	0.1340	-0.0053	0.0228	-
0.0282	1	.							
3255	C	C	. ASN ASN ASN A A 426 426 .	0.1778	0.1648	0.1544	-0.0265	0.0119	-
0.0189	1	.							
3256	O	O	. ASN ASN ASN A A 426 426 .	0.2191	0.1735	0.1743	-0.0281	0.0344	-
0.0106	1	.							
3257	N	N	. PHE PHE PHE A A 427 427 .	0.1551	0.1497	0.1347	-0.0267	0.0130	-
0.0212	1	.							
3258	CA	CA	. PHE PHE PHE A A 427 427 .	0.1878	0.1485	0.1318	-0.0180	0.0154	-
0.0260	1	.							
3259	CB	CB	. PHE PHE PHE A A 427 427 .	0.1601	0.1746	0.1232	-0.0397	0.0109	-
0.0265	1	.							
3260	CG	CG	. PHE PHE PHE A A 427 427 .	0.1290	0.1249	0.1245	0.0156	-0.0216	
0.0079	1	.							
3261	CD1	CD1	. PHE PHE PHE A A 427 427 .	0.1519	0.1306	0.1180	0.0056	0.0026	-
0.0028	1	.							
3262	CE1	CE1	. PHE PHE PHE A A 427 427 .	0.1626	0.1667	0.1787	0.0175	0.0211	-
0.0013	1	.							

3263	CZ	CZ	. PHE PHE PHE A A 427 427 .	0.1524	0.1547	0.1621	-0.0133	0.0323	
0.0031	1	.							
3264	CE2	CE2	. PHE PHE PHE A A 427 427 .	0.1993	0.2001	0.1930	-0.0057	0.0027	-
0.0001	1	.							
3265	CD2	CD2	. PHE PHE PHE A A 427 427 .	0.1828	0.1819	0.2155	-0.0026	-0.0208	-
0.0120	1	.							
3266	C	C	. PHE PHE PHE A A 427 427 .	0.1694	0.1428	0.1603	-0.0204	0.0015	-
0.0231	1	.							
3267	O	O	. PHE PHE PHE A A 427 427 .	0.2034	0.1484	0.1507	-0.0024	0.0018	-
0.0396	1	.							
3268	N	N	. ARG ARG ARG A A 428 428 .	0.1696	0.1637	0.1529	0.0179	0.0094	-
0.0117	1	.							
3269	CA	CA	. ARG ARG ARG A A 428 428 .	0.1919	0.1775	0.2009	0.0067	0.0042	-
0.0146	1	.							
3270	CB	CB	. ARG ARG ARG A A 428 428 .	0.1986	0.1855	0.1956	0.0147	-0.0099	-
0.0202	1	.							
3271	CG	CG	. ARG ARG ARG A A 428 428 .	0.1987	0.1797	0.1922	0.0075	-0.0070	
0.0000	1	.							
3272	CD	CD	. ARG ARG ARG A A 428 428 .	0.1877	0.2553	0.2189	0.0524	0.0000	-
0.0074	1	.							
3273	NE	NE	. ARG ARG ARG A A 428 428 .	0.2191	0.2713	0.1924	0.0372	0.0101	-
0.0147	1	.							
3274	CZ	CZ	. ARG ARG ARG A A 428 428 .	0.2610	0.2817	0.2814	0.0450	-0.0044	-
0.0533	1	.							
3275	NH1	NH1	. ARG ARG ARG A A 428 428 .	0.2148	0.3577	0.2552	0.0108	-0.0318	-
0.0992	1	.							
3276	NH2	NH2	. ARG ARG ARG A A 428 428 .	0.2942	0.3469	0.2044	0.0814	-0.0022	-
0.0388	1	.							
3277	C	C	. ARG ARG ARG A A 428 428 .	0.2508	0.2035	0.2352	-0.0060	0.0116	-
0.0036	1	.							
3278	O	O	. ARG ARG ARG A A 428 428 .	0.2850	0.2000	0.2717	0.0144	0.0213	
0.0094	1	.							
3279	N	N	. ASN ASN ASN A A 429 429 .	0.2254	0.2232	0.2173	-0.0313	0.0155	-
0.0050	1	.							
3280	CA	CA	. ASN ASN ASN A A 429 429 .	0.3031	0.2690	0.2265	-0.0381	0.0212	
0.0104	1	.							
3281	CB	CB	. ASN ASN ASN A A 429 429 .	0.3142	0.3337	0.2931	-0.0368	-0.0039	
0.0191	1	.							
3282	CG	CG	. ASN ASN ASN A A 429 429 .	0.4258	0.3899	0.3725	-0.0237	0.0002	
0.0231	1	.							
3283	OD1	OD1	. ASN ASN ASN A A 429 429 .	0.4774	0.3113	0.3989	0.0359	-0.0793	-
0.0030	1	.							
3284	ND2	ND2	. ASN ASN ASN A A 429 429 .	0.4620	0.4900	0.4265	-0.0091	-0.0180	-
0.0479	1	.							
3285	C	C	. ASN ASN ASN A A 429 429 .	0.2606	0.2401	0.2161	-0.0487	0.0258	
0.0008	1	.							
3286	O	O	. ASN ASN ASN A A 429 429 .	0.3194	0.2670	0.2128	-0.0607	0.0165	-
0.0006	1	.							
3287	N	N	. PRO PRO PRO A A 430 430 .	0.2729	0.2222	0.1933	-0.0432	0.0306	-
0.0156	1	.							
3288	CA	CA	. PRO PRO PRO A A 430 430 .	0.2625	0.2310	0.1934	-0.0411	0.0314	-
0.0273	1	.							
3289	CB	CB	. PRO PRO PRO A A 430 430 .	0.2527	0.2599	0.2333	-0.0464	0.0119	-
0.0172	1	.							
3290	CG	CG	. PRO PRO PRO A A 430 430 .	0.2917	0.2143	0.2143	-0.0370	0.0317	-
0.0161	1	.							
3291	CD	CD	. PRO PRO PRO A A 430 430 .	0.2809	0.2268	0.1900	-0.0323	0.0511	-
0.0263	1	.							
3292	C	C	. PRO PRO PRO A A 430 430 .	0.2779	0.2737	0.2354	-0.0356	0.0151	-
0.0415	1	.							

3293	O	O	. PRO PRO PRO A A 430 430 .	0.2929	0.3016	0.2338	-0.0436	0.0261	-
0.0568	1	.							
3294	N	N	. SER SER SER A A 431 431 .	0.3204	0.2939	0.2202	-0.0518	0.0312	-
0.0271	1	.							
3295	CA	CA	. SER SER SER A A 431 431 .	0.3448	0.3482	0.3095	-0.0526	0.0255	-
0.0059	1	.							
3296	CB	CB	. SER SER SER A A 431 431 .	0.3709	0.3599	0.3271	-0.0509	0.0079	-
0.0001	1	.							
3297	OG	OG	. SER SER SER A A 431 431 .	0.4069	0.4351	0.3331	-0.0350	0.0327	-
0.0765	1	.							
3298	C	C	. SER SER SER A A 431 431 .	0.3450	0.3642	0.3160	-0.0547	0.0291	-
0.0221	1	.							
3299	O	O	. SER SER SER A A 431 431 .	0.3593	0.4235	0.3240	-0.0645	0.0350	-
0.0158	1	.							
3300	N	N	. VAL VAL VAL A A 432 432 .	0.3463	0.3713	0.3135	-0.0459	0.0230	-
0.0285	1	.							
3301	CA	CA	. VAL VAL VAL A A 432 432 .	0.3523	0.3866	0.3148	-0.0363	0.0208	-
0.0399	1	.							
3302	CB	CB	. VAL VAL VAL A A 432 432 .	0.3610	0.3729	0.3108	-0.0411	0.0193	-
0.0437	1	.							
3303	CG1	CG1	. VAL VAL VAL A A 432 432 .	0.3407	0.4145	0.2981	-0.0504	-0.0147	-
0.0650	1	.							
3304	CG2	CG2	. VAL VAL VAL A A 432 432 .	0.3802	0.3896	0.3170	-0.0358	0.0348	-
0.0707	1	.							
3305	C	C	. VAL VAL VAL A A 432 432 .	0.3643	0.3993	0.3449	-0.0295	0.0281	-
0.0273	1	.							
3306	O	O	. VAL VAL VAL A A 432 432 .	0.3337	0.4209	0.3081	-0.0466	0.0567	-
0.0160	1	.							
3307	N	N	. LEU LEU LEU A A 433 433 .	0.3825	0.4392	0.3762	-0.0385	0.0245	-
0.0179	1	.							
3308	CA	CA	. LEU LEU LEU A A 433 433 .	0.4259	0.4559	0.4313	-0.0301	0.0255	-
0.0209	1	.							
3309	CB	CB	. LEU LEU LEU A A 433 433 .	0.4297	0.4529	0.4225	-0.0454	0.0309	-
0.0203	1	.							
3310	CG	CG	. LEU LEU LEU A A 433 433 .	0.4090	0.4046	0.3695	-0.0543	0.0571	-
0.0510	1	.							
3311	CD1	CD1	. LEU LEU LEU A A 433 433 .	0.4380	0.3674	0.3688	-0.0833	0.0519	-
0.0184	1	.							
3312	CD2	CD2	. LEU LEU LEU A A 433 433 .	0.4350	0.3756	0.4007	-0.0789	0.0406	-
0.0564	1	.							
3313	C	C	. LEU LEU LEU A A 433 433 .	0.4607	0.4960	0.4897	-0.0252	0.0229	-
0.0220	1	.							
3314	O	O	. LEU LEU LEU A A 433 433 .	0.4896	0.5008	0.5149	-0.0258	0.0286	-
0.0425	1	.							
3315	MG+2	MG+2	. MG2 MG2 MG2 A . 440 440 .	0.1034	0.0892	0.0882	0.0090	-0.0063	-
0.0054	1	.							
3316	MG+2	MG+2	. MG2 MG2 MG2 A . 441 441 .	0.0915	0.1023	0.1062	0.0034	-0.0069	-
0.0010	1	.							
3317	O4P	O4P	. 2PG 2PG 2PG A . 442 442 .	0.0807	0.0708	0.0942	-0.0104	-0.0266	-
0.0226	1	.							
3318	P	P	. 2PG 2PG 2PG A . 442 442 .	0.0877	0.0952	0.0936	0.0054	-0.0063	-
0.0069	1	.							
3319	O2P	O2P	. 2PG 2PG 2PG A . 442 442 .	0.0956	0.0949	0.0781	-0.0113	-0.0038	-
0.0014	1	.							
3320	O3P	O3P	. 2PG 2PG 2PG A . 442 442 .	0.1055	0.0878	0.1083	0.0086	0.0074	-
0.0236	1	.							
3321	O1P	O1P	. 2PG 2PG 2PG A . 442 442 .	0.1040	0.0953	0.0896	-0.0019	-0.0024	-
0.0101	1	.							
3322	C2	C2	. 2PG 2PG 2PG A . 442 442 .	0.1177	0.1258	0.0718	0.0290	-0.0018	-
0.0272	1	.							







3383	C	C	. TRP TRP TRP B B 6 6	. 0.1139 0.1210 0.1291 0.0074 0.0179 -
0.0027	1	.		
3384	O	O	. TRP TRP TRP B B 6 6	. 0.1376 0.1243 0.1646 -0.0275 0.0159 -
0.0108	1	.		
3385	N	N	. ALA ALA ALA B B 7 7	. 0.0936 0.1154 0.1103 -0.0053 0.0004
0.0079	1	.		
3386	CA	CA	. ALA ALA ALA B B 7 7	. 0.0898 0.1162 0.1116 -0.0012 0.0051
0.0176	1	.		
3387	CB	CB	. ALA ALA ALA B B 7 7	. 0.1349 0.1339 0.0926 0.0098 -0.0075
0.0208	1	.		
3388	C	C	. ALA ALA ALA B B 7 7	. 0.1134 0.1211 0.0873 -0.0060 0.0045 -
0.0044	1	.		
3389	O	O	. ALA ALA ALA B B 7 7	. 0.1023 0.1514 0.1099 0.0119 0.0112 -
0.0095	1	.		
3390	N	N	. ARG ARG ARG B B 8 8	. 0.1086 0.1385 0.1234 0.0116 -0.0084
0.0140	1	.		
3391	CA	CA	. ARG ARG ARG B B 8 8	. 0.1045 0.1284 0.0913 -0.0103 0.0066 -
0.0012	1	.		
3392	CB	CB	. ARG ARG ARG B B 8 8	. 0.1021 0.1167 0.1029 0.0014 0.0200
0.0032	1	.		
3393	CG	CG	. ARG ARG ARG B B 8 8	. 0.0994 0.1356 0.1252 0.0217 0.0163 -
0.0093	1	.		
3394	CD	CD	. ARG ARG ARG B B 8 8	. 0.1361 0.1334 0.1878 -0.0244 0.0127
0.0408	1	.		
3395	NE	NE	. ARG ARG ARG B B 8 8	. 0.1471 0.1668 0.1471 0.0180 0.0104
0.0334	1	.		
3396	CZ	CZ	. ARG ARG ARG B B 8 8	. 0.1537 0.1555 0.1983 0.0103 0.0286
0.0249	1	.		
3397	NH1	NH1	. ARG ARG ARG B B 8 8	. 0.1316 0.1543 0.1847 0.0056 -0.0018
0.0094	1	.		
3398	NH2	NH2	. ARG ARG ARG B B 8 8	. 0.2036 0.2352 0.3122 -0.0109 0.1033
0.0281	1	.		
3399	C	C	. ARG ARG ARG B B 8 8	. 0.1050 0.1116 0.1049 0.0013 0.0020 -
0.0019	1	.		
3400	O	O	. ARG ARG ARG B B 8 8	. 0.1094 0.1558 0.0905 0.0041 -0.0026 -
0.0150	1	.		
3401	N	N	. GLU GLU GLU B B 9 9	. 0.0973 0.0985 0.1128 -0.0029 -0.0095 -
0.0036	1	.		
3402	CA	CA	. GLU GLU GLU B B 9 9	. 0.1347 0.1229 0.1307 0.0107 0.0049
0.0014	1	.		
3403	CB	CB	. GLU GLU GLU B B 9 9	. 0.1432 0.1814 0.1252 -0.0509 0.0027 -
0.0320	1	.		
3404	CG	CG	. GLU GLU GLU B B 9 9	. 0.2376 0.2059 0.2003 -0.0337 -0.0082 -
0.0262	1	.		
3405	CD	CD	. GLU GLU GLU B B 9 9	. 0.2193 0.1421 0.1649 -0.0583 -0.0326 -
0.0090	1	.		
3406	OE1	OE1	. GLU GLU GLU B B 9 9	. 0.1610 0.1169 0.1299 -0.0076 -0.0050
0.0230	1	.		
3407	OE2	OE2	. GLU GLU GLU B B 9 9	. 0.2412 0.1876 0.1605 -0.0181 -0.0310 -
0.0286	1	.		
3408	C	C	. GLU GLU GLU B B 9 9	. 0.1139 0.1517 0.1136 0.0278 0.0001
0.0000	1	.		
3409	O	O	. GLU GLU GLU B B 9 9	. 0.1758 0.2313 0.1686 0.0615 0.0428
0.0568	1	.		
3410	N	N	. ILE ILE ILE B B 10 10	. 0.1147 0.0998 0.1088 0.0046 0.0100
0.0186	1	.		
3411	CA	CA	. ILE ILE ILE B B 10 10	. 0.0946 0.1023 0.1065 0.0098 0.0045
0.0166	1	.		
3412	CB	CB	. ILE ILE ILE B B 10 10	. 0.1010 0.1170 0.0830 -0.0152 -0.0034
0.0169	1	.		

3413	CG1	CG1	. ILE ILE ILE B B 10 10	. 0.1105 0.1074 0.0925 0.0030 -0.0017
0.0161	1	.		
3414	CD	CD	. ILE ILE ILE B B 10 10	. 0.1150 0.1577 0.1133 0.0168 -0.0048 -
0.0326	1	.		
3415	CG2	CG2	. ILE ILE ILE B B 10 10	. 0.0872 0.1571 0.1509 -0.0242 0.0144
0.0133	1	.		
3416	C	C	. ILE ILE ILE B B 10 10	. 0.0738 0.0856 0.1008 0.0121 -0.0028
0.0093	1	.		
3417	O	O	. ILE ILE ILE B B 10 10	. 0.0816 0.0960 0.1085 0.0099 0.0086
0.0246	1	.		
3418	N	N	. LEU LEU LEU B B 11 11	. 0.0646 0.1119 0.0894 0.0123 0.0006 -
0.0028	1	.		
3419	CA	CA	. LEU LEU LEU B B 11 11	. 0.0712 0.0961 0.0744 0.0001 0.0001 -
0.0125	1	.		
3420	CB	CB	. LEU LEU LEU B B 11 11	. 0.0996 0.0824 0.0569 -0.0093 0.0031 -
0.0045	1	.		
3421	CG	CG	. LEU LEU LEU B B 11 11	. 0.0810 0.0898 0.0827 0.0102 -0.0074
0.0052	1	.		
3422	CD1	CD1	. LEU LEU LEU B B 11 11	. 0.0973 0.1224 0.1098 0.0225 -0.0085 -
0.0022	1	.		
3423	CD2	CD2	. LEU LEU LEU B B 11 11	. 0.1144 0.0693 0.1510 0.0070 -0.0139
0.0121	1	.		
3424	C	C	. LEU LEU LEU B B 11 11	. 0.0681 0.0741 0.0767 -0.0064 -0.0037 -
0.0071	1	.		
3425	O	O	. LEU LEU LEU B B 11 11	. 0.0905 0.0810 0.0767 -0.0089 0.0066
0.0130	1	.		
3426	N	N	. ASP ASP ASP B B 12 12	. 0.0877 0.0853 0.0634 0.0054 0.0090
0.0072	1	.		
3427	CA	CA	. ASP ASP ASP B B 12 12	. 0.0851 0.0668 0.0737 0.0055 0.0052
0.0037	1	.		
3428	CB	CB	. ASP ASP ASP B B 12 12	. 0.0754 0.0866 0.0673 -0.0118 0.0040
0.0291	1	.		
3429	CG	CG	. ASP ASP ASP B B 12 12	. 0.0942 0.1380 0.1279 0.0116 -0.0140
0.0059	1	.		
3430	OD1	OD1	. ASP ASP ASP B B 12 12	. 0.0848 0.0801 0.0801 0.0002 -0.0009 -
0.0136	1	.		
3431	OD2	OD2	. ASP ASP ASP B B 12 12	. 0.1338 0.1131 0.1350 0.0043 0.0037
0.0166	1	.		
3432	C	C	. ASP ASP ASP B B 12 12	. 0.0969 0.0593 0.0866 -0.0078 -0.0057
0.0013	1	.		
3433	O	O	. ASP ASP ASP B B 12 12	. 0.0987 0.0824 0.0889 -0.0031 0.0049
0.0132	1	.		
3434	N	N	. SER SER SER B B 13 13	. 0.0727 0.0683 0.0825 0.0007 0.0094
0.0018	1	.		
3435	CA	CA	. SER SER SER B B 13 13	. 0.0803 0.0743 0.0837 -0.0005 0.0107 -
0.0171	1	.		
3436	CB	CB	. SER SER SER B B 13 13	. 0.1152 0.0546 0.0493 0.0184 0.0017
0.0039	1	.		
3437	OG	OG	. SER SER SER B B 13 13	. 0.0792 0.0767 0.0684 0.0135 -0.0009
0.0070	1	.		
3438	C	C	. SER SER SER B B 13 13	. 0.0812 0.0865 0.0719 0.0081 -0.0130 -
0.0103	1	.		
3439	O	O	. SER SER SER B B 13 13	. 0.0847 0.0842 0.0975 0.0075 0.0047
0.0090	1	.		
3440	N	N	. ARG ARG ARG B B 14 14	. 0.0831 0.0734 0.1068 -0.0012 -0.0041 -
0.0006	1	.		
3441	CA	CA	. ARG ARG ARG B B 14 14	. 0.0856 0.0890 0.0812 -0.0026 -0.0086
0.0057	1	.		
3442	CB	CB	. ARG ARG ARG B B 14 14	. 0.1250 0.0997 0.1228 0.0005 0.0170
0.0165	1	.		

3443	CG	CG	. ARG ARG ARG B B 14 14 .	0.1433	0.1319	0.1159	0.0224	-0.0133	
0.0036	1	.							
3444	CD	CD	. ARG ARG ARG B B 14 14 .	0.1283	0.1509	0.1921	-0.0131	-0.0246	
0.0174	1	.							
3445	NE	NE	. ARG ARG ARG B B 14 14 .	0.1444	0.1575	0.1288	-0.0068	-0.0220	
0.0141	1	.							
3446	CZ	CZ	. ARG ARG ARG B B 14 14 .	0.1308	0.1130	0.0954	0.0038	-0.0075	
0.0295	1	.							
3447	NH1	NH1	. ARG ARG ARG B B 14 14 .	0.1835	0.1051	0.1270	0.0236	-0.0031	-
0.0004	1	.							
3448	NH2	NH2	. ARG ARG ARG B B 14 14 .	0.1400	0.1425	0.1590	-0.0025	-0.0044	-
0.0049	1	.							
3449	C	C	. ARG ARG ARG B B 14 14 .	0.0806	0.1006	0.0933	-0.0032	0.0006	-
0.0074	1	.							
3450	O	O	. ARG ARG ARG B B 14 14 .	0.1195	0.1257	0.1017	-0.0194	0.0134	-
0.0121	1	.							
3451	N	N	. GLY GLY GLY B B 15 15 .	0.0752	0.0919	0.0645	0.0149	0.0001	-
0.0006	1	.							
3452	CA	CA	. GLY GLY GLY B B 15 15 .	0.0745	0.0850	0.0829	0.0196	0.0142	-
0.0023	1	.							
3453	C	C	. GLY GLY GLY B B 15 15 .	0.1068	0.0925	0.1041	0.0112	-0.0032	-
0.0062	1	.							
3454	O	O	. GLY GLY GLY B B 15 15 .	0.1015	0.1012	0.0962	0.0063	0.0010	-
0.0133	1	.							
3455	N	N	. ASN ASN ASN B B 16 16 .	0.1017	0.0811	0.1065	0.0213	-0.0087	
0.0074	1	.							
3456	CA	CA	. ASN ASN ASN B B 16 16 .	0.1062	0.0745	0.0962	0.0214	0.0008	-
0.0061	1	.							
3457	CB	CB	. ASN ASN ASN B B 16 16 .	0.1212	0.1014	0.1146	0.0084	0.0127	
0.0259	1	.							
3458	CG	CG	. ASN ASN ASN B B 16 16 .	0.1348	0.0982	0.1151	0.0268	0.0022	-
0.0004	1	.							
3459	OD1	OD1	. ASN ASN ASN B B 16 16 .	0.1369	0.1490	0.1519	-0.0118	-0.0114	
0.0088	1	.							
3460	ND2	ND2	. ASN ASN ASN B B 16 16 .	0.1616	0.1218	0.1388	0.0155	0.0284	
0.0293	1	.							
3461	C	C	. ASN ASN ASN B B 16 16 .	0.0818	0.0939	0.1129	0.0226	-0.0164	-
0.0124	1	.							
3462	O	O	. ASN ASN ASN B B 16 16 .	0.1050	0.0997	0.1224	0.0100	0.0023	-
0.0023	1	.							
3463	N	N	. PRO PRO PRO B B 17 17 .	0.0939	0.0822	0.0889	-0.0059	0.0057	-
0.0188	1	.							
3464	CA	CA	. PRO PRO PRO B B 17 17 .	0.0558	0.0847	0.0688	0.0073	-0.0006	-
0.0175	1	.							
3465	CB	CB	. PRO PRO PRO B B 17 17 .	0.1193	0.1001	0.0888	0.0118	-0.0335	-
0.0399	1	.							
3466	CG	CG	. PRO PRO PRO B B 17 17 .	0.0765	0.1260	0.0948	-0.0012	-0.0041	-
0.0190	1	.							
3467	CD	CD	. PRO PRO PRO B B 17 17 .	0.0992	0.0906	0.1051	0.0030	0.0029	-
0.0383	1	.							
3468	C	C	. PRO PRO PRO B B 17 17 .	0.0670	0.0823	0.0859	0.0074	0.0021	
0.0014	1	.							
3469	O	O	. PRO PRO PRO B B 17 17 .	0.1040	0.0809	0.1011	0.0043	0.0041	
0.0051	1	.							
3470	N	N	. THR THR THR B B 18 18 .	0.0967	0.0895	0.0942	0.0067	-0.0060	-
0.0064	1	.							
3471	CA	CA	. THR THR THR B B 18 18 .	0.0901	0.1007	0.0685	0.0049	0.0099	-
0.0023	1	.							
3472	CB	CB	. THR THR THR B B 18 18 .	0.1135	0.0937	0.0794	0.0318	-0.0083	-
0.0161	1	.							

3473	OG1	OG1	. THR THR THR B B 18 18	. 0.1134 0.1178 0.1044 -0.0064 -0.0090
0.0166	1	.		
3474	CG2	CG2	. THR THR THR B B 18 18	. 0.1270 0.0921 0.1346 0.0174 -0.0146
0.0240	1	.		
3475	C	C	. THR THR THR B B 18 18	. 0.0688 0.0762 0.0852 0.0050 0.0017
0.0089	1	.		
3476	O	O	. THR THR THR B B 18 18	. 0.1034 0.1045 0.0862 0.0210 -0.0021
0.0008	1	.		
3477	N	N	. VAL VAL VAL B B 19 19	. 0.0860 0.0889 0.0900 0.0011 0.0000 -
0.0004	1	.		
3478	CA	CA	. VAL VAL VAL B B 19 19	. 0.0958 0.0878 0.0921 -0.0034 0.0087
0.0160	1	.		
3479	CB	CB	. VAL VAL VAL B B 19 19	. 0.1007 0.1014 0.1273 -0.0020 -0.0044
0.0107	1	.		
3480	CG1	CG1	. VAL VAL VAL B B 19 19	. 0.1055 0.1713 0.1887 0.0048 -0.0048
0.0344	1	.		
3481	CG2	CG2	. VAL VAL VAL B B 19 19	. 0.1509 0.1034 0.1260 0.0547 0.0299 -
0.0094	1	.		
3482	C	C	. VAL VAL VAL B B 19 19	. 0.1224 0.1150 0.0877 0.0002 0.0020 -
0.0121	1	.		
3483	O	O	. VAL VAL VAL B B 19 19	. 0.0952 0.1098 0.1075 0.0135 0.0152 -
0.0128	1	.		
3484	N	N	. GLU GLU GLU B B 20 20	. 0.0819 0.0974 0.0978 -0.0076 -0.0144
0.0161	1	.		
3485	CA	CA	. GLU GLU GLU B B 20 20	. 0.0926 0.1005 0.1118 0.0079 -0.0089
0.0138	1	.		
3486	CB	CB	. GLU GLU GLU B B 20 20	. 0.0958 0.1034 0.1393 0.0012 -0.0040
0.0056	1	.		
3487	CG	CG	. GLU GLU GLU B B 20 20	. 0.1022 0.1219 0.1639 0.0006 -0.0061
0.0251	1	.		
3488	CD	CD	. GLU GLU GLU B B 20 20	. 0.1374 0.1570 0.1283 0.0469 0.0146
0.0100	1	.		
3489	OE1	OE1	. GLU GLU GLU B B 20 20	. 0.1189 0.1539 0.1610 0.0037 0.0253
0.0135	1	.		
3490	OE2	OE2	. GLU GLU GLU B B 20 20	. 0.1281 0.1439 0.1576 0.0122 -0.0054
0.0177	1	.		
3491	C	C	. GLU GLU GLU B B 20 20	. 0.0992 0.1134 0.1031 -0.0009 0.0125 -
0.0131	1	.		
3492	O	O	. GLU GLU GLU B B 20 20	. 0.1066 0.1270 0.1335 0.0041 0.0103
0.0000	1	.		
3493	N	N	. VAL VAL VAL B B 21 21	. 0.0821 0.0972 0.1040 -0.0023 0.0158
0.0150	1	.		
3494	CA	CA	. VAL VAL VAL B B 21 21	. 0.0783 0.0960 0.1180 0.0061 0.0056
0.0116	1	.		
3495	CB	CB	. VAL VAL VAL B B 21 21	. 0.0736 0.1084 0.1036 -0.0059 0.0004
0.0017	1	.		
3496	CG1	CG1	. VAL VAL VAL B B 21 21	. 0.0860 0.1561 0.1511 0.0019 0.0439
0.0191	1	.		
3497	CG2	CG2	. VAL VAL VAL B B 21 21	. 0.1380 0.1323 0.1455 -0.0138 0.0304
0.0156	1	.		
3498	C	C	. VAL VAL VAL B B 21 21	. 0.0837 0.1106 0.1101 -0.0077 0.0039
0.0026	1	.		
3499	O	O	. VAL VAL VAL B B 21 21	. 0.0943 0.1263 0.1245 -0.0095 0.0082
0.0093	1	.		
3500	N	N	. ASP ASP ASP B B 22 22	. 0.1140 0.1386 0.1112 0.0117 0.0100
0.0102	1	.		
3501	CA	CA	. ASP ASP ASP B B 22 22	. 0.0892 0.1458 0.1386 -0.0059 0.0054
0.0007	1	.		
3502	CB	CB	. ASP ASP ASP B B 22 22	. 0.0958 0.1561 0.1417 -0.0217 0.0042
0.0129	1	.		

3503	CG	CG	. ASP ASP ASP B B 22 22	. 0.1457 0.1788 0.1760 -0.0059 0.0020
0.0186	1	.		
3504	OD1	OD1	. ASP ASP ASP B B 22 22	. 0.1932 0.1977 0.2142 -0.0064 -0.0072
0.0198	1	.		
3505	OD2	OD2	. ASP ASP ASP B B 22 22	. 0.1465 0.2063 0.1722 0.0322 -0.0182
0.0267	1	.		
3506	C	C	. ASP ASP ASP B B 22 22	. 0.1039 0.1105 0.1349 0.0169 -0.0053
0.0086	1	.		
3507	O	O	. ASP ASP ASP B B 22 22	. 0.1250 0.1381 0.1605 0.0161 0.0048
0.0023	1	.		
3508	N	N	. LEU LEU LEU B B 23 23	. 0.0834 0.1056 0.1360 0.0006 -0.0125
0.0167	1	.		
3509	CA	CA	. LEU LEU LEU B B 23 23	. 0.0791 0.1247 0.1301 -0.0086 -0.0090
0.0326	1	.		
3510	CB	CB	. LEU LEU LEU B B 23 23	. 0.0981 0.1222 0.1082 0.0114 -0.0260
0.0279	1	.		
3511	CG	CG	. LEU LEU LEU B B 23 23	. 0.0883 0.1569 0.1431 0.0166 -0.0095
0.0351	1	.		
3512	CD1	CD1	. LEU LEU LEU B B 23 23	. 0.0872 0.2407 0.1719 -0.0075 0.0226
0.0372	1	.		
3513	CD2	CD2	. LEU LEU LEU B B 23 23	. 0.1570 0.1395 0.1558 0.0071 0.0007
0.0235	1	.		
3514	C	C	. LEU LEU LEU B B 23 23	. 0.1101 0.1288 0.1384 0.0021 0.0100
0.0024	1	.		
3515	O	O	. LEU LEU LEU B B 23 23	. 0.1113 0.1260 0.1594 -0.0061 0.0091
0.0056	1	.		
3516	N	N	. TYR TYR TYR B B 24 24	. 0.1178 0.1666 0.1461 -0.0106 0.0186
0.0178	1	.		
3517	CA	CA	. TYR TYR TYR B B 24 24	. 0.1265 0.1695 0.1405 -0.0138 0.0036
0.0147	1	.		
3518	CB	CB	. TYR TYR TYR B B 24 24	. 0.1385 0.1972 0.1433 0.0034 0.0163
0.0197	1	.		
3519	CG	CG	. TYR TYR TYR B B 24 24	. 0.1723 0.2045 0.1780 0.0103 0.0118
0.0147	1	.		
3520	CD1	CD1	. TYR TYR TYR B B 24 24	. 0.1780 0.2495 0.1775 0.0018 0.0049 -
0.0066	1	.		
3521	CE1	CE1	. TYR TYR TYR B B 24 24	. 0.1650 0.2597 0.2624 -0.0326 -0.0147
0.0219	1	.		
3522	CZ	CZ	. TYR TYR TYR B B 24 24	. 0.1735 0.2837 0.2573 -0.0097 -0.0385
0.0686	1	.		
3523	OH	OH	. TYR TYR TYR B B 24 24	. 0.1910 0.3314 0.2871 -0.0332 -0.0460
0.0891	1	.		
3524	CE2	CE2	. TYR TYR TYR B B 24 24	. 0.2106 0.2832 0.2523 0.0061 -0.0225
0.0484	1	.		
3525	CD2	CD2	. TYR TYR TYR B B 24 24	. 0.1773 0.2389 0.2525 0.0048 0.0005
0.0766	1	.		
3526	C	C	. TYR TYR TYR B B 24 24	. 0.1348 0.1699 0.1459 0.0027 0.0115
0.0112	1	.		
3527	O	O	. TYR TYR TYR B B 24 24	. 0.1214 0.1770 0.1961 -0.0010 0.0153 -
0.0007	1	.		
3528	N	N	. THR THR THR B B 25 25	. 0.1185 0.1873 0.1481 -0.0041 0.0038
0.0094	1	.		
3529	CA	CA	. THR THR THR B B 25 25	. 0.1386 0.1984 0.1797 -0.0305 0.0132 -
0.0079	1	.		
3530	CB	CB	. THR THR THR B B 25 25	. 0.1337 0.1756 0.1876 -0.0217 0.0172 -
0.0008	1	.		
3531	OG1	OG1	. THR THR THR B B 25 25	. 0.1556 0.1840 0.2050 0.0028 0.0172
0.0193	1	.		
3532	CG2	CG2	. THR THR THR B B 25 25	. 0.2030 0.1697 0.1987 -0.0299 0.0200
0.0158	1	.		

3533	C	C	. THR THR THR B B 25 25 .	0.1703	0.1908	0.1791	-0.0026	-0.0011
0.0056	1	.						
3534	O	O	. THR THR THR B B 25 25 .	0.1628	0.2223	0.1990	-0.0188	0.0169
0.0052	1	.						
3535	N	N	. ALA ALA ALA B B 26 26 .	0.1587	0.2020	0.2199	-0.0235	0.0190
0.0017	1	.						
3536	CA	CA	. ALA ALA ALA B B 26 26 .	0.1849	0.2344	0.2720	-0.0302	0.0054
0.0240	1	.						
3537	CB	CB	. ALA ALA ALA B B 26 26 .	0.1712	0.2791	0.2993	-0.0342	-0.0075
0.0189	1	.						
3538	C	C	. ALA ALA ALA B B 26 26 .	0.1914	0.2309	0.2686	-0.0225	-0.0008
0.0314	1	.						
3539	O	O	. ALA ALA ALA B B 26 26 .	0.2161	0.2473	0.3229	-0.0547	0.0168
0.0626	1	.						
3540	N	N	. LYS LYS LYS B B 27 27 .	0.2006	0.2347	0.2669	-0.0393	0.0000
0.0255	1	.						
3541	CA	CA	. LYS LYS LYS B B 27 27 .	0.2401	0.2283	0.2843	-0.0217	-0.0050
0.0160	1	.						
3542	CB	CB	. LYS LYS LYS B B 27 27 .	0.2686	0.2432	0.2959	-0.0303	-0.0110
0.0150	1	.						
3543	CG	CG	. LYS LYS LYS B B 27 27 .	0.2909	0.2942	0.3295	0.0024	-0.0414
0.0211	1	.						
3544	CD	CD	. LYS LYS LYS B B 27 27 .	0.3179	0.3392	0.3666	-0.0441	-0.0671
0.0288	1	.						
3545	CE	CE	. LYS LYS LYS B B 27 27 .	0.2775	0.3405	0.3639	-0.0256	-0.0407
0.0773	1	.						
3546	NZ	NZ	. LYS LYS LYS B B 27 27 .	0.3005	0.5307	0.4145	-0.0556	-0.0361
0.0882	1	.						
3547	C	C	. LYS LYS LYS B B 27 27 .	0.2286	0.2280	0.2756	-0.0071	0.0045
0.0153	1	.						
3548	O	O	. LYS LYS LYS B B 27 27 .	0.2443	0.2581	0.3397	0.0216	-0.0133
0.0125	1	.						
3549	N	N	. GLY GLY GLY B B 28 28 .	0.1891	0.2045	0.2448	-0.0354	-0.0131
0.0253	1	.						
3550	CA	CA	. GLY GLY GLY B B 28 28 .	0.1866	0.1987	0.2367	-0.0468	0.0068
0.0218	1	.						
3551	C	C	. GLY GLY GLY B B 28 28 .	0.1803	0.1811	0.2200	-0.0217	0.0116
0.0415	1	.						
3552	O	O	. GLY GLY GLY B B 28 28 .	0.1281	0.1868	0.2090	-0.0003	0.0129
0.0176	1	.						
3553	N	N	. LEU LEU LEU B B 29 29 .	0.1572	0.1834	0.2476	-0.0059	-0.0004
0.0251	1	.						
3554	CA	CA	. LEU LEU LEU B B 29 29 .	0.1770	0.1830	0.1939	-0.0091	-0.0016
0.0090	1	.						
3555	CB	CB	. LEU LEU LEU B B 29 29 .	0.1758	0.1915	0.2025	0.0013	-0.0180
0.0117	1	.						
3556	CG	CG	. LEU LEU LEU B B 29 29 .	0.2222	0.2624	0.2802	-0.0360	-0.0786
0.0138	1	.						
3557	CD1	CD1	. LEU LEU LEU B B 29 29 .	0.2771	0.3056	0.3105	-0.0510	-0.1160
0.0133	1	.						
3558	CD2	CD2	. LEU LEU LEU B B 29 29 .	0.2772	0.3414	0.3439	-0.0311	-0.0961
0.0588	1	.						
3559	C	C	. LEU LEU LEU B B 29 29 .	0.1648	0.1743	0.2105	-0.0009	0.0043
0.0043	1	.						
3560	O	O	. LEU LEU LEU B B 29 29 .	0.1747	0.1636	0.2274	0.0013	0.0078
0.0101	1	.						
3561	N	N	. PHE PHE PHE B B 30 30 .	0.1202	0.1479	0.1595	0.0009	-0.0003
0.0169	1	.						
3562	CA	CA	. PHE PHE PHE B B 30 30 .	0.1165	0.1427	0.1485	0.0033	-0.0004
0.0008	1	.						

3563	CB	CB	. PHE PHE PHE B B 30 30	. 0.1613 0.1537 0.1605 -0.0116 -0.0229
0.0117	1	.		
3564	CG	CG	. PHE PHE PHE B B 30 30	. 0.1208 0.1478 0.1427 -0.0217 0.0139 -
0.0144	1	.		
3565	CD1	CD1	. PHE PHE PHE B B 30 30	. 0.1626 0.1087 0.1792 -0.0176 0.0128 -
0.0342	1	.		
3566	CE1	CE1	. PHE PHE PHE B B 30 30	. 0.1574 0.1459 0.2125 -0.0393 0.0007
0.0283	1	.		
3567	CZ	CZ	. PHE PHE PHE B B 30 30	. 0.1413 0.1620 0.1956 -0.0345 0.0009 -
0.0106	1	.		
3568	CE2	CE2	. PHE PHE PHE B B 30 30	. 0.1604 0.1453 0.1580 -0.0245 -0.0121 -
0.0152	1	.		
3569	CD2	CD2	. PHE PHE PHE B B 30 30	. 0.1393 0.1537 0.1178 -0.0136 0.0066
0.0014	1	.		
3570	C	C	. PHE PHE PHE B B 30 30	. 0.1232 0.1396 0.1680 0.0007 -0.0055 -
0.0123	1	.		
3571	O	O	. PHE PHE PHE B B 30 30	. 0.1243 0.1897 0.2394 -0.0071 0.0225 -
0.0072	1	.		
3572	N	N	. ARG ARG ARG B B 31 31	. 0.0896 0.1302 0.1426 0.0060 0.0046 -
0.0031	1	.		
3573	CA	CA	. ARG ARG ARG B B 31 31	. 0.1093 0.1199 0.1347 -0.0048 -0.0039
0.0166	1	.		
3574	CB	CB	. ARG ARG ARG B B 31 31	. 0.1044 0.1190 0.1328 0.0028 -0.0038
0.0161	1	.		
3575	CG	CG	. ARG ARG ARG B B 31 31	. 0.1378 0.1199 0.1475 -0.0332 -0.0387
0.0378	1	.		
3576	CD	CD	. ARG ARG ARG B B 31 31	. 0.1304 0.1339 0.2020 -0.0083 -0.0015
0.0232	1	.		
3577	NE	NE	. ARG ARG ARG B B 31 31	. 0.1210 0.1298 0.1850 -0.0189 -0.0366
0.0413	1	.		
3578	CZ	CZ	. ARG ARG ARG B B 31 31	. 0.1674 0.1816 0.1877 -0.0196 -0.0356
0.0185	1	.		
3579	NH1	NH1	. ARG ARG ARG B B 31 31	. 0.1869 0.2829 0.1805 -0.1023 -0.0197
0.0038	1	.		
3580	NH2	NH2	. ARG ARG ARG B B 31 31	. 0.2085 0.2083 0.2682 -0.0079 -0.0144 -
0.0068	1	.		
3581	C	C	. ARG ARG ARG B B 31 31	. 0.1137 0.1146 0.1263 0.0015 0.0011
0.0079	1	.		
3582	O	O	. ARG ARG ARG B B 31 31	. 0.1429 0.1295 0.1405 -0.0080 0.0162
0.0139	1	.		
3583	N	N	. ALA ALA ALA B B 32 32	. 0.0956 0.0882 0.1059 0.0084 0.0088
0.0281	1	.		
3584	CA	CA	. ALA ALA ALA B B 32 32	. 0.0872 0.0987 0.1117 0.0085 0.0000
0.0050	1	.		
3585	CB	CB	. ALA ALA ALA B B 32 32	. 0.0815 0.1295 0.1029 -0.0048 -0.0263
0.0383	1	.		
3586	C	C	. ALA ALA ALA B B 32 32	. 0.0804 0.1000 0.1137 0.0109 -0.0054
0.0225	1	.		
3587	O	O	. ALA ALA ALA B B 32 32	. 0.1219 0.1039 0.1117 -0.0137 0.0183
0.0003	1	.		
3588	N	N	. ALA ALA ALA B B 33 33	. 0.0981 0.1063 0.1220 0.0102 0.0214
0.0147	1	.		
3589	CA	CA	. ALA ALA ALA B B 33 33	. 0.1110 0.0973 0.1012 0.0112 0.0083
0.0154	1	.		
3590	CB	CB	. ALA ALA ALA B B 33 33	. 0.0888 0.1415 0.1110 -0.0019 -0.0116
0.0129	1	.		
3591	C	C	. ALA ALA ALA B B 33 33	. 0.0765 0.0864 0.0872 -0.0055 0.0137 -
0.0060	1	.		
3592	O	O	. ALA ALA ALA B B 33 33	. 0.1216 0.1274 0.1113 -0.0156 0.0206 -
0.0088	1	.		





3623	CA	CA	. SER SER SER B B 39 39 .	0.1155	0.1099	0.0714	0.0162	-0.0055	
0.0020	1	.							
3624	CB	CB	. SER SER SER B B 39 39 .	0.1221	0.0905	0.0879	-0.0022	0.0152	-
0.0135	1	.							
3625	OG	OG	. SER SER SER B B 39 39 .	0.1189	0.0691	0.0950	-0.0157	-0.0212	
0.0119	1	.							
3626	C	C	. SER SER SER B B 39 39 .	0.0881	0.0650	0.0955	0.0006	0.0085	
0.0005	1	.							
3627	O	O	. SER SER SER B B 39 39 .	0.1069	0.0845	0.0772	0.0038	0.0062	-
0.0001	1	.							
3628	N	N	. THR THR THR B B 40 40 .	0.1232	0.0873	0.0952	0.0192	0.0064	-
0.0045	1	.							
3629	CA	CA	. THR THR THR B B 40 40 .	0.1051	0.0937	0.0867	0.0133	0.0180	
0.0009	1	.							
3630	CB	CB	. THR THR THR B B 40 40 .	0.1211	0.0844	0.1161	-0.0045	0.0254	
0.0041	1	.							
3631	OG1	OG1	. THR THR THR B B 40 40 .	0.1549	0.1400	0.1288	-0.0210	0.0099	-
0.0094	1	.							
3632	CG2	CG2	. THR THR THR B B 40 40 .	0.1325	0.0933	0.1116	-0.0148	0.0241	
0.0411	1	.							
3633	C	C	. THR THR THR B B 40 40 .	0.0832	0.0731	0.0896	-0.0106	0.0003	-
0.0122	1	.							
3634	O	O	. THR THR THR B B 40 40 .	0.1477	0.0927	0.1241	-0.0178	-0.0083	-
0.0028	1	.							
3635	N	N	. GLY GLY GLY B B 41 41 .	0.0968	0.0966	0.0845	0.0168	-0.0049	
0.0056	1	.							
3636	CA	CA	. GLY GLY GLY B B 41 41 .	0.1179	0.0889	0.0776	0.0211	0.0036	
0.0034	1	.							
3637	C	C	. GLY GLY GLY B B 41 41 .	0.1137	0.0777	0.0970	0.0068	0.0093	
0.0000	1	.							
3638	O	O	. GLY GLY GLY B B 41 41 .	0.1133	0.0948	0.1242	0.0147	-0.0030	
0.0094	1	.							
3639	N	N	. ILE ILE ILE B B 42 42 .	0.1161	0.0854	0.0968	0.0016	0.0015	-
0.0014	1	.							
3640	CA	CA	. ILE ILE ILE B B 42 42 .	0.1216	0.1007	0.1124	0.0109	-0.0013	-
0.0016	1	.							
3641	CB	CB	. ILE ILE ILE B B 42 42 .	0.1268	0.1153	0.1129	-0.0171	0.0092	-
0.0010	1	.							
3642	CG1	CG1	. ILE ILE ILE B B 42 42 .	0.1390	0.0814	0.1210	-0.0043	-0.0096	
0.0334	1	.							
3643	CD	CD	. ILE ILE ILE B B 42 42 .	0.2720	0.2007	0.1609	-0.0128	-0.0063	
0.1077	1	.							
3644	CG2	CG2	. ILE ILE ILE B B 42 42 .	0.1225	0.1384	0.1745	-0.0028	0.0151	
0.0262	1	.							
3645	C	C	. ILE ILE ILE B B 42 42 .	0.1080	0.1121	0.1029	0.0037	0.0112	-
0.0005	1	.							
3646	O	O	. ILE ILE ILE B B 42 42 .	0.1300	0.1078	0.1397	0.0145	0.0040	-
0.0380	1	.							
3647	N	N	. TYR TYR TYR B B 43 43 .	0.1043	0.1081	0.0975	0.0033	-0.0122	
0.0064	1	.							
3648	CA	CA	. TYR TYR TYR B B 43 43 .	0.0894	0.0984	0.0858	-0.0093	0.0016	
0.0017	1	.							
3649	CB	CB	. TYR TYR TYR B B 43 43 .	0.0903	0.0978	0.0653	-0.0079	0.0028	
0.0086	1	.							
3650	CG	CG	. TYR TYR TYR B B 43 43 .	0.1049	0.0888	0.0975	0.0267	0.0036	
0.0129	1	.							
3651	CD1	CD1	. TYR TYR TYR B B 43 43 .	0.0906	0.1174	0.1195	-0.0119	0.0006	
0.0255	1	.							
3652	CE1	CE1	. TYR TYR TYR B B 43 43 .	0.1256	0.0785	0.0927	0.0223	0.0018	
0.0109	1	.							

3653	CZ	CZ	. TYR TYR TYR B B 43 43 .	0.1574	0.1116	0.1433	0.0394	0.0485	
0.0400	1	.							
3654	OH	OH	. TYR TYR TYR B B 43 43 .	0.1931	0.1270	0.1570	0.0043	0.0447	
0.0302	1	.							
3655	CE2	CE2	. TYR TYR TYR B B 43 43 .	0.1335	0.1193	0.1287	0.0112	0.0491	
0.0311	1	.							
3656	CD2	CD2	. TYR TYR TYR B B 43 43 .	0.1740	0.1156	0.1359	0.0186	0.0432	
0.0306	1	.							
3657	C	C	. TYR TYR TYR B B 43 43 .	0.0777	0.0757	0.0824	0.0078	0.0000	
0.0081	1	.							
3658	O	O	. TYR TYR TYR B B 43 43 .	0.1177	0.1040	0.1027	0.0107	0.0017	
0.0196	1	.							
3659	N	N	. GLU GLU GLU B B 44 44 .	0.1077	0.0849	0.0661	0.0213	0.0158	
0.0028	1	.							
3660	CA	CA	. GLU GLU GLU B B 44 44 .	0.0880	0.0878	0.0911	0.0244	0.0137	
0.0187	1	.							
3661	CB	CB	. GLU GLU GLU B B 44 44 .	0.0984	0.1039	0.0817	0.0334	0.0118	
0.0163	1	.							
3662	CG	CG	. GLU GLU GLU B B 44 44 .	0.1099	0.0943	0.0980	0.0273	0.0174	
0.0125	1	.							
3663	CD	CD	. GLU GLU GLU B B 44 44 .	0.1089	0.0982	0.0982	-0.0162	0.0107	
0.0037	1	.							
3664	OE1	OE1	. GLU GLU GLU B B 44 44 .	0.1365	0.0891	0.1116	0.0146	0.0159	
0.0003	1	.							
3665	OE2	OE2	. GLU GLU GLU B B 44 44 .	0.1194	0.1007	0.1027	0.0107	0.0023	
0.0201	1	.							
3666	C	C	. GLU GLU GLU B B 44 44 .	0.0913	0.0772	0.0782	0.0053	0.0061	
0.0083	1	.							
3667	O	O	. GLU GLU GLU B B 44 44 .	0.1205	0.1076	0.1009	0.0064	0.0067	
0.0034	1	.							
3668	N	N	. ALA ALA ALA B B 45 45 .	0.0912	0.1122	0.1080	0.0183	-0.0075	
0.0254	1	.							
3669	CA	CA	. ALA ALA ALA B B 45 45 .	0.0910	0.1101	0.0837	-0.0067	-0.0064	
0.0018	1	.							
3670	CB	CB	. ALA ALA ALA B B 45 45 .	0.1055	0.1218	0.1256	-0.0171	0.0067	
0.0062	1	.							
3671	C	C	. ALA ALA ALA B B 45 45 .	0.0965	0.1037	0.1094	0.0148	-0.0079	-
0.0046	1	.							
3672	O	O	. ALA ALA ALA B B 45 45 .	0.1100	0.1263	0.1171	0.0240	0.0108	
0.0247	1	.							
3673	N	N	. LEU LEU LEU B B 46 46 .	0.1291	0.1001	0.0884	0.0095	-0.0040	-
0.0051	1	.							
3674	CA	CA	. LEU LEU LEU B B 46 46 .	0.0971	0.1115	0.1190	0.0145	-0.0028	-
0.0010	1	.							
3675	CB	CB	. LEU LEU LEU B B 46 46 .	0.1883	0.1335	0.1643	0.0314	-0.0118	-
0.0152	1	.							
3676	CG	CG	. LEU LEU LEU B B 46 46 .	0.2202	0.2107	0.2192	0.0452	-0.0469	-
0.0484	1	.							
3677	CD1	CD1	. LEU LEU LEU B B 46 46 .	0.3359	0.2526	0.3100	-0.0283	-0.0302	-
0.0450	1	.							
3678	CD2	CD2	. LEU LEU LEU B B 46 46 .	0.2763	0.3281	0.2318	0.0173	0.0059	-
0.0699	1	.							
3679	C	C	. LEU LEU LEU B B 46 46 .	0.1183	0.1165	0.1154	0.0025	0.0100	-
0.0047	1	.							
3680	O	O	. LEU LEU LEU B B 46 46 .	0.1210	0.1376	0.1650	0.0011	0.0039	
0.0205	1	.							
3681	N	N	. GLU GLU GLU B B 47 47 .	0.1477	0.1287	0.1172	0.0151	-0.0135	
0.0082	1	.							
3682	CA	CA	. GLU GLU GLU B B 47 47 .	0.1155	0.1272	0.1077	0.0166	0.0118	
0.0056	1	.							



3713	OD1	OD1	. ASP ASP ASP B B 50 50	. 0.1449 0.1199 0.1386 0.0127 0.0121 -
0.0153	1 .			
3714	OD2	OD2	. ASP ASP ASP B B 50 50	. 0.1430 0.1353 0.1372 0.0345 -0.0020 -
0.0089	1 .			
3715	C	C	. ASP ASP ASP B B 50 50	. 0.1484 0.1572 0.1662 0.0047 0.0022 -
0.0072	1 .			
3716	O	O	. ASP ASP ASP B B 50 50	. 0.1901 0.1432 0.2002 0.0070 -0.0134 -
0.0194	1 .			
3717	N	N	. GLY GLY GLY B B 51 51	. 0.1154 0.1386 0.1801 0.0028 -0.0026 -
0.0208	1 .			
3718	CA	CA	. GLY GLY GLY B B 51 51	. 0.1863 0.1608 0.1766 -0.0200 -0.0135 -
0.0088	1 .			
3719	C	C	. GLY GLY GLY B B 51 51	. 0.2210 0.1713 0.2133 -0.0327 -0.0132 -
0.0273	1 .			
3720	O	O	. GLY GLY GLY B B 51 51	. 0.2918 0.1353 0.2928 -0.0252 -0.0344 -
0.0114	1 .			
3721	N	N	. ASP ASP ASP B B 52 52	. 0.1983 0.1576 0.1943 -0.0072 -0.0302 -
0.0315	1 .			
3722	CA	CA	. ASP ASP ASP B B 52 52	. 0.2029 0.1733 0.2032 -0.0071 -0.0368 -
0.0399	1 .			
3723	CB	CB	. ASP ASP ASP B B 52 52	. 0.2310 0.1547 0.1806 0.0320 -0.0360 -
0.0505	1 .			
3724	CG	CG	. ASP ASP ASP B B 52 52	. 0.2153 0.2168 0.2205 0.0161 -0.0166 -
0.0401	1 .			
3725	OD1	OD1	. ASP ASP ASP B B 52 52	. 0.2496 0.2356 0.2818 0.0073 -0.0481 -
0.0428	1 .			
3726	OD2	OD2	. ASP ASP ASP B B 52 52	. 0.3378 0.2427 0.2285 0.0164 -0.0260 -
0.0879	1 .			
3727	C	C	. ASP ASP ASP B B 52 52	. 0.2155 0.2030 0.2565 -0.0126 -0.0289 -
0.0104	1 .			
3728	O	O	. ASP ASP ASP B B 52 52	. 0.1992 0.1814 0.2445 0.0024 -0.0323 -
0.0343	1 .			
3729	N	N	. LYS LYS LYS B B 53 53	. 0.2319 0.2124 0.2469 -0.0204 -0.0239
0.0047	1 .			
3730	CA	CA	. LYS LYS LYS B B 53 53	. 0.2676 0.2287 0.2928 -0.0080 -0.0345
0.0179	1 .			
3731	CB	CB	. LYS LYS LYS B B 53 53	. 0.2812 0.2492 0.3362 -0.0401 -0.0202
0.0221	1 .			
3732	CG	CG	. LYS LYS LYS B B 53 53	. 0.4120 0.3746 0.3787 0.0023 -0.0253
0.0149	1 .			
3733	CD	CD	. LYS LYS LYS B B 53 53	. 0.5649 0.4519 0.5543 -0.0145 -0.0059
0.0375	1 .			
3734	CE	CE	. LYS LYS LYS B B 53 53	. 0.5558 0.5589 0.6028 -0.0405 0.0060 -
0.0019	1 .			
3735	NZ	NZ	. LYS LYS LYS B B 53 53	. 0.6550 0.6043 0.6021 -0.0597 0.0628
0.0305	1 .			
3736	C	C	. LYS LYS LYS B B 53 53	. 0.2637 0.2214 0.2958 -0.0049 -0.0287
0.0019	1 .			
3737	O	O	. LYS LYS LYS B B 53 53	. 0.2487 0.2675 0.3472 -0.0093 -0.0538
0.0030	1 .			
3738	N	N	. GLN GLN GLN B B 54 54	. 0.2758 0.1822 0.2756 -0.0061 -0.0517 -
0.0112	1 .			
3739	CA	CA	. GLN GLN GLN B B 54 54	. 0.2972 0.2060 0.2563 0.0031 -0.0331 -
0.0123	1 .			
3740	CB	CB	. GLN GLN GLN B B 54 54	. 0.3172 0.2359 0.2436 -0.0001 -0.0286
0.0000	1 .			
3741	CG	CG	. GLN GLN GLN B B 54 54	. 0.4188 0.2811 0.3494 0.0045 -0.0495 -
0.0332	1 .			
3742	CD	CD	. GLN GLN GLN B B 54 54	. 0.4613 0.3996 0.4569 -0.0467 -0.0565 -
0.0038	1 .			



3773	CG	CG	. LEU LEU LEU B B 57 57 .	0.2505	0.2462	0.2770	0.0084	-0.0016	
0.0308	1	.							
3774	CD1	CD1	. LEU LEU LEU B B 57 57 .	0.2916	0.2313	0.3327	0.0157	0.0256	
0.0570	1	.							
3775	CD2	CD2	. LEU LEU LEU B B 57 57 .	0.2033	0.2434	0.3323	0.0014	-0.0178	
0.0434	1	.							
3776	C	C	. LEU LEU LEU B B 57 57 .	0.1998	0.1821	0.1970	0.0003	-0.0013	-
0.0028	1	.							
3777	O	O	. LEU LEU LEU B B 57 57 .	0.2236	0.2265	0.2329	0.0064	-0.0020	-
0.0025	1	.							
3778	N	N	. GLY GLY GLY B B 58 58 .	0.1711	0.1368	0.2165	-0.0152	-0.0203	-
0.0321	1	.							
3779	CA	CA	. GLY GLY GLY B B 58 58 .	0.1874	0.1447	0.2278	0.0050	-0.0292	-
0.0220	1	.							
3780	C	C	. GLY GLY GLY B B 58 58 .	0.1691	0.1434	0.1782	0.0109	-0.0123	-
0.0088	1	.							
3781	O	O	. GLY GLY GLY B B 58 58 .	0.1604	0.1120	0.1634	0.0220	-0.0056	-
0.0309	1	.							
3782	N	N	. LYS LYS LYS B B 59 59 .	0.1430	0.1215	0.1536	-0.0013	-0.0085	-
0.0133	1	.							
3783	CA	CA	. LYS LYS LYS B B 59 59 .	0.1295	0.1111	0.1451	0.0025	-0.0018	-
0.0115	1	.							
3784	CB	CB	. LYS LYS LYS B B 59 59 .	0.1379	0.1420	0.1626	-0.0110	0.0421	-
0.0287	1	.							
3785	CG	CG	. LYS LYS LYS B B 59 59 .	0.1487	0.1731	0.2211	0.0044	0.0455	
0.0033	1	.							
3786	CD	CD	. LYS LYS LYS B B 59 59 .	0.2180	0.2868	0.3721	0.0435	0.1182	-
0.0293	1	.							
3787	CE	CE	. LYS LYS LYS B B 59 59 .	0.2927	0.3521	0.3865	-0.0064	0.1011	
0.0072	1	.							
3788	NZ	NZ	. LYS LYS LYS B B 59 59 .	0.3689	0.4228	0.4211	0.0250	0.1119	
0.0057	1	.							
3789	C	C	. LYS LYS LYS B B 59 59 .	0.1160	0.1185	0.1066	0.0038	0.0099	-
0.0052	1	.							
3790	O	O	. LYS LYS LYS B B 59 59 .	0.1648	0.1036	0.1114	0.0080	0.0089	-
0.0155	1	.							
3791	N	N	. GLY GLY GLY B B 60 60 .	0.1311	0.1182	0.1134	0.0228	0.0011	
0.0065	1	.							
3792	CA	CA	. GLY GLY GLY B B 60 60 .	0.1367	0.1430	0.1073	0.0073	-0.0140	
0.0005	1	.							
3793	C	C	. GLY GLY GLY B B 60 60 .	0.1070	0.0978	0.1097	-0.0020	-0.0049	-
0.0082	1	.							
3794	O	O	. GLY GLY GLY B B 60 60 .	0.1410	0.0980	0.1166	0.0223	-0.0025	-
0.0123	1	.							
3795	N	N	. VAL VAL VAL B B 61 61 .	0.0828	0.0964	0.1107	0.0093	-0.0078	
0.0044	1	.							
3796	CA	CA	. VAL VAL VAL B B 61 61 .	0.0820	0.1152	0.1069	0.0065	-0.0017	-
0.0199	1	.							
3797	CB	CB	. VAL VAL VAL B B 61 61 .	0.1199	0.0989	0.1138	0.0047	0.0069	-
0.0050	1	.							
3798	CG1	CG1	. VAL VAL VAL B B 61 61 .	0.1338	0.1185	0.0939	-0.0043	0.0430	
0.0034	1	.							
3799	CG2	CG2	. VAL VAL VAL B B 61 61 .	0.1142	0.0839	0.1275	0.0086	0.0111	
0.0157	1	.							
3800	C	C	. VAL VAL VAL B B 61 61 .	0.1128	0.0965	0.0934	0.0069	0.0023	-
0.0029	1	.							
3801	O	O	. VAL VAL VAL B B 61 61 .	0.0864	0.1055	0.1150	0.0140	0.0170	-
0.0228	1	.							
3802	N	N	. LEU LEU LEU B B 62 62 .	0.1137	0.1056	0.1051	0.0222	0.0066	-
0.0057	1	.							



3833	CB	CB	. ASP ASP ASP B B 66 66	. 0.1369 0.1689 0.1782 0.0281 0.0096 -
0.0380	1	.		
3834	CG	CG	. ASP ASP ASP B B 66 66	. 0.1908 0.2914 0.2601 0.0306 -0.0157 -
0.0177	1	.		
3835	OD1	OD1	. ASP ASP ASP B B 66 66	. 0.3655 0.3293 0.4394 0.0717 0.0185 -
0.0463	1	.		
3836	OD2	OD2	. ASP ASP ASP B B 66 66	. 0.2053 0.4590 0.2541 0.0138 0.0542 -
0.0531	1	.		
3837	C	C	. ASP ASP ASP B B 66 66	. 0.1327 0.1405 0.1504 0.0014 -0.0005
0.0123	1	.		
3838	O	O	. ASP ASP ASP B B 66 66	. 0.1489 0.1686 0.1592 0.0073 0.0007
0.0052	1	.		
3839	N	N	. HIS HIS HIS B B 67 67	. 0.1471 0.1570 0.1240 0.0121 0.0198 -
0.0144	1	.		
3840	CA	CA	. HIS HIS HIS B B 67 67	. 0.1348 0.1175 0.1275 0.0044 -0.0006 -
0.0062	1	.		
3841	CB	CB	. HIS HIS HIS B B 67 67	. 0.1202 0.1272 0.1681 0.0033 0.0218 -
0.0128	1	.		
3842	CG	CG	. HIS HIS HIS B B 67 67	. 0.1727 0.1335 0.1797 0.0192 0.0079 -
0.0092	1	.		
3843	ND1	ND1	. HIS HIS HIS B B 67 67	. 0.1415 0.1791 0.1842 0.0297 -0.0187
0.0000	1	.		
3844	CE1	CE1	. HIS HIS HIS B B 67 67	. 0.1617 0.1456 0.1975 0.0178 -0.0092
0.0217	1	.		
3845	NE2	NE2	. HIS HIS HIS B B 67 67	. 0.1447 0.1426 0.2104 0.0130 -0.0194 -
0.0131	1	.		
3846	CD2	CD2	. HIS HIS HIS B B 67 67	. 0.1631 0.1198 0.1765 0.0099 -0.0074
0.0121	1	.		
3847	C	C	. HIS HIS HIS B B 67 67	. 0.1321 0.1148 0.1603 0.0130 -0.0166
0.0042	1	.		
3848	O	O	. HIS HIS HIS B B 67 67	. 0.1351 0.1542 0.1793 0.0240 -0.0015
0.0105	1	.		
3849	N	N	. ILE ILE ILE B B 68 68	. 0.1208 0.1322 0.1280 0.0304 -0.0038 -
0.0114	1	.		
3850	CA	CA	. ILE ILE ILE B B 68 68	. 0.1107 0.1374 0.1392 0.0346 0.0062
0.0144	1	.		
3851	CB	CB	. ILE ILE ILE B B 68 68	. 0.1123 0.1284 0.1038 0.0307 0.0042
0.0082	1	.		
3852	CG1	CG1	. ILE ILE ILE B B 68 68	. 0.1251 0.1352 0.1208 0.0248 0.0236
0.0374	1	.		
3853	CD	CD	. ILE ILE ILE B B 68 68	. 0.1163 0.1243 0.1354 0.0083 0.0243
0.0159	1	.		
3854	CG2	CG2	. ILE ILE ILE B B 68 68	. 0.1334 0.1370 0.1222 0.0073 -0.0202
0.0266	1	.		
3855	C	C	. ILE ILE ILE B B 68 68	. 0.1315 0.1286 0.1280 -0.0123 0.0059 -
0.0014	1	.		
3856	O	O	. ILE ILE ILE B B 68 68	. 0.1310 0.1645 0.1458 0.0131 0.0008
0.0127	1	.		
3857	N	N	. ASN ASN ASN B B 69 69	. 0.1219 0.1332 0.1129 0.0149 -0.0008
0.0122	1	.		
3858	CA	CA	. ASN ASN ASN B B 69 69	. 0.1381 0.1638 0.1543 0.0244 -0.0050
0.0191	1	.		
3859	CB	CB	. ASN ASN ASN B B 69 69	. 0.1302 0.1635 0.1180 0.0096 0.0195
0.0101	1	.		
3860	CG	CG	. ASN ASN ASN B B 69 69	. 0.1300 0.1353 0.1055 0.0032 0.0076 -
0.0019	1	.		
3861	OD1	OD1	. ASN ASN ASN B B 69 69	. 0.1130 0.1721 0.1610 0.0194 -0.0103
0.0055	1	.		
3862	ND2	ND2	. ASN ASN ASN B B 69 69	. 0.1162 0.1529 0.1128 0.0089 0.0027
0.0190	1	.		



3863	C	C	. ASN ASN ASN B B 69 69 .	0.1248	0.1579	0.1523	0.0202	0.0026	
0.0139	1	.							
3864	O	O	. ASN ASN ASN B B 69 69 .	0.1286	0.1917	0.1781	0.0168	0.0059	
0.0182	1	.							
3865	N	N	. SER SER SER B B 70 70 .	0.1379	0.1572	0.1291	0.0326	-0.0047	
0.0013	1	.							
3866	CA	CA	. SER SER SER B B 70 70 .	0.1158	0.1680	0.1516	0.0477	0.0063	
0.0021	1	.							
3867	CB	CB	. SER SER SER B B 70 70 .	0.1586	0.2212	0.1870	0.0616	-0.0298	-
0.0308	1	.							
3868	OG	OG	. SER SER SER B B 70 70 .	0.2667	0.3458	0.2412	0.0148	-0.0036	
0.0134	1	.							
3869	C	C	. SER SER SER B B 70 70 .	0.1237	0.1940	0.1582	0.0388	0.0092	-
0.0034	1	.							
3870	O	O	. SER SER SER B B 70 70 .	0.1382	0.2439	0.1997	0.0537	0.0334	-
0.0108	1	.							
3871	N	N	. THR THR THR B B 71 71 .	0.1323	0.1732	0.1365	0.0273	-0.0204	-
0.0179	1	.							
3872	CA	CA	. THR THR THR B B 71 71 .	0.1207	0.1456	0.1568	0.0339	-0.0130	-
0.0022	1	.							
3873	CB	CB	. THR THR THR B B 71 71 .	0.1442	0.1485	0.1458	0.0364	-0.0215	-
0.0122	1	.							
3874	OG1	OG1	. THR THR THR B B 71 71 .	0.1501	0.1623	0.1729	0.0141	0.0159	-
0.0043	1	.							
3875	CG2	CG2	. THR THR THR B B 71 71 .	0.1938	0.1757	0.1958	0.0749	-0.0502	
0.0101	1	.							
3876	C	C	. THR THR THR B B 71 71 .	0.1254	0.1604	0.1732	0.0272	-0.0176	-
0.0191	1	.							
3877	O	O	. THR THR THR B B 71 71 .	0.1069	0.1562	0.1773	0.0130	0.0011	
0.0025	1	.							
3878	N	N	. ILE ILE ILE B B 72 72 .	0.1014	0.1260	0.1363	0.0360	0.0206	-
0.0128	1	.							
3879	CA	CA	. ILE ILE ILE B B 72 72 .	0.0894	0.1481	0.1447	0.0089	0.0024	-
0.0071	1	.							
3880	CB	CB	. ILE ILE ILE B B 72 72 .	0.0910	0.1219	0.1396	0.0226	0.0165	-
0.0125	1	.							
3881	CG1	CG1	. ILE ILE ILE B B 72 72 .	0.0958	0.1349	0.1730	0.0335	0.0424	
0.0074	1	.							
3882	CD	CD	. ILE ILE ILE B B 72 72 .	0.0889	0.1877	0.1583	0.0505	0.0220	
0.0792	1	.							
3883	CG2	CG2	. ILE ILE ILE B B 72 72 .	0.1359	0.1910	0.1428	0.0117	0.0014	-
0.0056	1	.							
3884	C	C	. ILE ILE ILE B B 72 72 .	0.1282	0.1411	0.1233	0.0043	0.0054	
0.0025	1	.							
3885	O	O	. ILE ILE ILE B B 72 72 .	0.1056	0.2018	0.1507	0.0226	-0.0072	
0.0098	1	.							
3886	N	N	. ALA ALA ALA B B 73 73 .	0.1030	0.1161	0.1397	0.0334	0.0115	
0.0068	1	.							
3887	CA	CA	. ALA ALA ALA B B 73 73 .	0.1153	0.1551	0.1538	0.0184	0.0146	
0.0067	1	.							
3888	CB	CB	. ALA ALA ALA B B 73 73 .	0.1417	0.1784	0.1660	0.0237	0.0052	-
0.0078	1	.							
3889	C	C	. ALA ALA ALA B B 73 73 .	0.1300	0.1473	0.1465	0.0134	0.0170	-
0.0151	1	.							
3890	O	O	. ALA ALA ALA B B 73 73 .	0.1198	0.1732	0.1816	0.0063	0.0286	-
0.0033	1	.							
3891	N	N	. PRO PRO PRO B B 74 74 .	0.1379	0.1568	0.1574	0.0191	0.0128	
0.0109	1	.							
3892	CA	CA	. PRO PRO PRO B B 74 74 .	0.1332	0.1674	0.1638	0.0137	0.0199	
0.0019	1	.							

3893	CB	CB	. PRO PRO PRO B B 74 74 .	0.1299	0.1632	0.1764	0.0198	0.0035	
0.0014	1	.							
3894	CG	CG	. PRO PRO PRO B B 74 74 .	0.1410	0.1742	0.1816	0.0294	0.0445	-
0.0133	1	.							
3895	CD	CD	. PRO PRO PRO B B 74 74 .	0.1396	0.1332	0.1815	0.0110	0.0436	
0.0029	1	.							
3896	C	C	. PRO PRO PRO B B 74 74 .	0.1389	0.1463	0.1646	0.0222	0.0092	
0.0071	1	.							
3897	O	O	. PRO PRO PRO B B 74 74 .	0.1560	0.1835	0.1826	0.0103	-0.0024	
0.0045	1	.							
3898	N	N	. ALA ALA ALA B B 75 75 .	0.1213	0.1644	0.1545	0.0340	0.0073	
0.0042	1	.							
3899	CA	CA	. ALA ALA ALA B B 75 75 .	0.1118	0.1481	0.1478	0.0051	-0.0091	
0.0110	1	.							
3900	CB	CB	. ALA ALA ALA B B 75 75 .	0.1675	0.1553	0.1738	-0.0006	0.0107	
0.0329	1	.							
3901	C	C	. ALA ALA ALA B B 75 75 .	0.1289	0.1439	0.1743	0.0188	-0.0099	-
0.0019	1	.							
3902	O	O	. ALA ALA ALA B B 75 75 .	0.1231	0.1413	0.1733	0.0114	0.0000	-
0.0135	1	.							
3903	N	N	. LEU LEU LEU B B 76 76 .	0.1352	0.1542	0.1572	0.0294	0.0065	
0.0047	1	.							
3904	CA	CA	. LEU LEU LEU B B 76 76 .	0.1139	0.1487	0.1577	0.0452	0.0122	-
0.0053	1	.							
3905	CB	CB	. LEU LEU LEU B B 76 76 .	0.1231	0.1683	0.1855	0.0449	0.0176	
0.0201	1	.							
3906	CG	CG	. LEU LEU LEU B B 76 76 .	0.1381	0.1858	0.2050	0.0588	0.0330	
0.0378	1	.							
3907	CD1	CD1	. LEU LEU LEU B B 76 76 .	0.1008	0.2144	0.2382	0.0606	0.0519	
0.0293	1	.							
3908	CD2	CD2	. LEU LEU LEU B B 76 76 .	0.1406	0.2783	0.2913	0.1045	0.0053	
0.0994	1	.							
3909	C	C	. LEU LEU LEU B B 76 76 .	0.1358	0.1464	0.1534	0.0234	-0.0160	-
0.0010	1	.							
3910	O	O	. LEU LEU LEU B B 76 76 .	0.1179	0.1559	0.1653	0.0148	0.0009	
0.0246	1	.							
3911	N	N	. ILE ILE ILE B B 77 77 .	0.1297	0.1573	0.1661	0.0241	0.0274	
0.0130	1	.							
3912	CA	CA	. ILE ILE ILE B B 77 77 .	0.1112	0.1613	0.1464	0.0249	0.0203	
0.0281	1	.							
3913	CB	CB	. ILE ILE ILE B B 77 77 .	0.1332	0.1655	0.1564	0.0258	0.0297	
0.0103	1	.							
3914	CG1	CG1	. ILE ILE ILE B B 77 77 .	0.1510	0.1799	0.1912	0.0610	-0.0061	
0.0154	1	.							
3915	CD	CD	. ILE ILE ILE B B 77 77 .	0.2032	0.1806	0.2053	0.0216	-0.0344	
0.0405	1	.							
3916	CG2	CG2	. ILE ILE ILE B B 77 77 .	0.1178	0.2127	0.2150	-0.0032	0.0452	
0.0599	1	.							
3917	C	C	. ILE ILE ILE B B 77 77 .	0.1414	0.1765	0.1735	0.0258	0.0041	
0.0071	1	.							
3918	O	O	. ILE ILE ILE B B 77 77 .	0.1342	0.2021	0.1958	0.0246	-0.0092	
0.0188	1	.							
3919	N	N	. SER SER SER B B 78 78 .	0.1186	0.1610	0.1944	0.0235	-0.0028	
0.0053	1	.							
3920	CA	CA	. SER SER SER B B 78 78 .	0.1208	0.1761	0.2076	0.0137	0.0116	-
0.0038	1	.							
3921	CB	CB	. SER SER SER B B 78 78 .	0.1100	0.1711	0.3117	0.0452	0.0436	
0.0173	1	.							
3922	OG	OG	. SER SER SER B B 78 78 .	0.3546	0.3508	0.3962	0.0038	-0.0118	
0.0101	1	.							







4013	C	C	. ASP ASP ASP B B 90 90	. 0.1327 0.1357 0.1394 0.0068 -0.0109
0.0072	1	.		
4014	O	O	. ASP ASP ASP B B 90 90	. 0.1072 0.1385 0.1808 0.0142 -0.0078 -
0.0017	1	.		
4015	N	N	. ASN ASN ASN B B 91 91	. 0.1296 0.1461 0.1637 0.0045 -0.0038
0.0014	1	.		
4016	CA	CA	. ASN ASN ASN B B 91 91	. 0.1596 0.1591 0.1650 0.0011 -0.0245
0.0072	1	.		
4017	CB	CB	. ASN ASN ASN B B 91 91	. 0.1823 0.1771 0.2193 0.0334 -0.0581
0.0516	1	.		
4018	CG	CG	. ASN ASN ASN B B 91 91	. 0.3050 0.3702 0.2456 0.0822 -0.0192
0.0266	1	.		
4019	OD1	OD1	. ASN ASN ASN B B 91 91	. 0.3494 0.4899 0.3492 0.1641 -0.0322
0.0556	1	.		
4020	ND2	ND2	. ASN ASN ASN B B 91 91	. 0.4449 0.4897 0.4789 0.1230 -0.0306
0.0428	1	.		
4021	C	C	. ASN ASN ASN B B 91 91	. 0.1474 0.1494 0.1625 0.0036 -0.0182
0.0192	1	.		
4022	O	O	. ASN ASN ASN B B 91 91	. 0.1593 0.1438 0.2033 0.0017 -0.0150
0.0094	1	.		
4023	N	N	. LEU LEU LEU B B 92 92	. 0.1020 0.1523 0.1548 0.0055 -0.0121 -
0.0003	1	.		
4024	CA	CA	. LEU LEU LEU B B 92 92	. 0.1419 0.1394 0.1546 0.0151 -0.0066
0.0141	1	.		
4025	CB	CB	. LEU LEU LEU B B 92 92	. 0.1293 0.1485 0.1745 0.0068 0.0105
0.0108	1	.		
4026	CG	CG	. LEU LEU LEU B B 92 92	. 0.1978 0.1743 0.1977 0.0156 0.0203
0.0309	1	.		
4027	CD1	CD1	. LEU LEU LEU B B 92 92	. 0.2037 0.1873 0.3237 0.0258 0.0166
0.0040	1	.		
4028	CD2	CD2	. LEU LEU LEU B B 92 92	. 0.1070 0.1378 0.1916 -0.0088 0.0280
0.0117	1	.		
4029	C	C	. LEU LEU LEU B B 92 92	. 0.1358 0.1469 0.1833 0.0116 0.0124
0.0086	1	.		
4030	O	O	. LEU LEU LEU B B 92 92	. 0.1374 0.1382 0.1679 0.0123 0.0013
0.0007	1	.		
4031	N	N	. MET MET MET B B 93 93	. 0.0996 0.1442 0.1480 0.0220 0.0073
0.0186	1	.		
4032	CA	CA	. MET MET MET B B 93 93	. 0.1074 0.1120 0.1453 0.0175 -0.0077
0.0089	1	.		
4033	CB	CB	. MET MET MET B B 93 93	. 0.1118 0.1250 0.1311 0.0358 0.0165
0.0151	1	.		
4034	CG	CG	. MET MET MET B B 93 93	. 0.1177 0.1273 0.1500 0.0349 0.0008
0.0079	1	.		
4035	SD	SD	. MET MET MET B B 93 93	. 0.1270 0.1581 0.1564 0.0302 -0.0022
0.0084	1	.		
4036	CE	CE	. MET MET MET B B 93 93	. 0.1412 0.1539 0.1905 0.0480 -0.0115 -
0.0133	1	.		
4037	C	C	. MET MET MET B B 93 93	. 0.1188 0.1427 0.1339 0.0076 -0.0009 -
0.0055	1	.		
4038	O	O	. MET MET MET B B 93 93	. 0.1375 0.1222 0.1396 0.0067 0.0050 -
0.0147	1	.		
4039	N	N	. LEU LEU LEU B B 94 94	. 0.1107 0.1239 0.1329 0.0392 0.0065
0.0117	1	.		
4040	CA	CA	. LEU LEU LEU B B 94 94	. 0.1458 0.1321 0.1569 0.0353 0.0143
0.0063	1	.		
4041	CB	CB	. LEU LEU LEU B B 94 94	. 0.1259 0.1433 0.1607 0.0541 0.0304 -
0.0313	1	.		
4042	CG	CG	. LEU LEU LEU B B 94 94	. 0.2655 0.2251 0.1829 0.1120 -0.0052 -
0.0127	1	.		



4073	CA	CA	. GLY GLY GLY B B 98 98 .	0.1817	0.1875	0.1922	0.0041	0.0016	
0.0297	1	.							
4074	C	C	. GLY GLY GLY B B 98 98 .	0.1752	0.1852	0.1907	0.0216	0.0078	
0.0275	1	.							
4075	O	O	. GLY GLY GLY B B 98 98 .	0.1863	0.1812	0.2383	0.0339	-0.0096	
0.0570	1	.							
4076	N	N	. THR THR THR B B 99 99 .	0.1262	0.1517	0.1569	0.0271	0.0106	
0.0080	1	.							
4077	CA	CA	. THR THR THR B B 99 99 .	0.1785	0.1692	0.1735	0.0201	0.0079	
0.0092	1	.							
4078	CB	CB	. THR THR THR B B 99 99 .	0.1610	0.1757	0.1775	0.0226	0.0092	-
0.0122	1	.							
4079	OG1	OG1	. THR THR THR B B 99 99 .	0.1722	0.1727	0.2197	0.0191	0.0300	
0.0329	1	.							
4080	CG2	CG2	. THR THR THR B B 99 99 .	0.1971	0.1806	0.1480	0.0271	0.0230	-
0.0171	1	.							
4081	C	C	. THR THR THR B B 99 99 .	0.1720	0.1852	0.1976	0.0299	0.0155	
0.0021	1	.							
4082	O	O	. THR THR THR B B 99 99 .	0.2267	0.1854	0.2260	0.0106	0.0639	
0.0041	1	.							
4083	N	N	. GLU GLU GLU B B 100 100 .	0.1799	0.1746	0.1742	0.0418	0.0098	
0.0128	1	.							
4084	CA	CA	. GLU GLU GLU B B 100 100 .	0.1916	0.1971	0.1910	0.0483	0.0174	
0.0028	1	.							
4085	CB	CB	. GLU GLU GLU B B 100 100 .	0.2183	0.2084	0.1937	0.0500	-0.0105	
0.0293	1	.							
4086	CG	CG	. GLU GLU GLU B B 100 100 .	0.2950	0.3533	0.2767	0.0558	0.0424	-
0.0148	1	.							
4087	CD	CD	. GLU GLU GLU B B 100 100 .	0.3607	0.4702	0.4185	0.0390	-0.0263	-
0.0209	1	.							
4088	OE1	OE1	. GLU GLU GLU B B 100 100 .	0.3802	0.5469	0.4810	0.0555	-0.0190	
0.0014	1	.							
4089	OE2	OE2	. GLU GLU GLU B B 100 100 .	0.3702	0.5360	0.5323	0.0425	-0.0030	-
0.0423	1	.							
4090	C	C	. GLU GLU GLU B B 100 100 .	0.1731	0.1623	0.1605	0.0268	0.0098	
0.0108	1	.							
4091	O	O	. GLU GLU GLU B B 100 100 .	0.1678	0.1894	0.1753	0.0328	0.0179	-
0.0239	1	.							
4092	N	N	. ASN ASN ASN B B 101 101 .	0.1413	0.1860	0.1652	0.0531	-0.0105	
0.0164	1	.							
4093	CA	CA	. ASN ASN ASN B B 101 101 .	0.1291	0.1516	0.1612	0.0478	-0.0085	
0.0152	1	.							
4094	CB	CB	. ASN ASN ASN B B 101 101 .	0.1694	0.2257	0.2116	0.0211	-0.0006	
0.0127	1	.							
4095	CG	CG	. ASN ASN ASN B B 101 101 .	0.2794	0.2910	0.3024	-0.0094	-0.0052	
0.0152	1	.							
4096	OD1	OD1	. ASN ASN ASN B B 101 101 .	0.3907	0.5239	0.4484	-0.0553	-0.0394	-
0.0112	1	.							
4097	ND2	ND2	. ASN ASN ASN B B 101 101 .	0.2911	0.4649	0.4039	-0.1246	0.1290	-
0.0537	1	.							
4098	C	C	. ASN ASN ASN B B 101 101 .	0.1312	0.1596	0.1589	0.0092	0.0155	
0.0022	1	.							
4099	O	O	. ASN ASN ASN B B 101 101 .	0.1339	0.1333	0.1658	0.0219	0.0098	-
0.0093	1	.							
4100	N	N	. LYS LYS LYS B B 102 102 .	0.1269	0.1104	0.1298	0.0209	0.0315	
0.0092	1	.							
4101	CA	CA	. LYS LYS LYS B B 102 102 .	0.1267	0.0977	0.1029	0.0197	-0.0069	
0.0102	1	.							
4102	CB	CB	. LYS LYS LYS B B 102 102 .	0.1101	0.1072	0.1088	0.0123	0.0138	
0.0209	1	.							





4133	C	C	. PHE PHE PHE B B 105 105 .	0.1385	0.1467	0.1481	0.0312	0.0097	
0.0070	1	.							
4134	O	O	. PHE PHE PHE B B 105 105 .	0.1455	0.1521	0.1486	0.0156	0.0028	
0.0184	1	.							
4135	N	N	. GLY GLY GLY B B 106 106 .	0.0987	0.1146	0.1358	0.0184	0.0159	-
0.0062	1	.							
4136	CA	CA	. GLY GLY GLY B B 106 106 .	0.0971	0.1085	0.1475	0.0400	0.0174	
0.0043	1	.							
4137	C	C	. GLY GLY GLY B B 106 106 .	0.1097	0.1298	0.1002	0.0049	0.0074	-
0.0017	1	.							
4138	O	O	. GLY GLY GLY B B 106 106 .	0.1083	0.1180	0.1270	0.0219	0.0059	-
0.0065	1	.							
4139	N	N	. ALA ALA ALA B B 107 107 .	0.1065	0.1123	0.1182	0.0295	0.0009	
0.0114	1	.							
4140	CA	CA	. ALA ALA ALA B B 107 107 .	0.1082	0.1309	0.0987	0.0077	0.0136	
0.0052	1	.							
4141	CB	CB	. ALA ALA ALA B B 107 107 .	0.0935	0.1378	0.0892	0.0078	0.0425	
0.0324	1	.							
4142	C	C	. ALA ALA ALA B B 107 107 .	0.1194	0.1093	0.1300	0.0060	-0.0066	
0.0055	1	.							
4143	O	O	. ALA ALA ALA B B 107 107 .	0.1241	0.1116	0.1268	0.0048	-0.0088	
0.0054	1	.							
4144	N	N	. ASN ASN ASN B B 108 108 .	0.1064	0.1045	0.0957	0.0189	0.0126	
0.0118	1	.							
4145	CA	CA	. ASN ASN ASN B B 108 108 .	0.1063	0.1130	0.0999	0.0087	0.0021	
0.0157	1	.							
4146	CB	CB	. ASN ASN ASN B B 108 108 .	0.0881	0.0768	0.1350	0.0013	-0.0141	
0.0000	1	.							
4147	CG	CG	. ASN ASN ASN B B 108 108 .	0.1325	0.1129	0.1374	0.0019	0.0035	
0.0031	1	.							
4148	OD1	OD1	. ASN ASN ASN B B 108 108 .	0.1270	0.1236	0.1302	0.0266	-0.0139	-
0.0058	1	.							
4149	ND2	ND2	. ASN ASN ASN B B 108 108 .	0.1173	0.1018	0.1217	0.0027	0.0000	
0.0044	1	.							
4150	C	C	. ASN ASN ASN B B 108 108 .	0.0892	0.1039	0.1420	0.0139	0.0138	
0.0089	1	.							
4151	O	O	. ASN ASN ASN B B 108 108 .	0.1168	0.1268	0.1560	0.0090	0.0291	
0.0512	1	.							
4152	N	N	. ALA ALA ALA B B 109 109 .	0.1028	0.1027	0.1068	0.0078	0.0188	
0.0044	1	.							
4153	CA	CA	. ALA ALA ALA B B 109 109 .	0.0950	0.0909	0.0936	0.0075	0.0045	
0.0054	1	.							
4154	CB	CB	. ALA ALA ALA B B 109 109 .	0.1034	0.0898	0.1246	0.0167	0.0049	-
0.0031	1	.							
4155	C	C	. ALA ALA ALA B B 109 109 .	0.1047	0.1063	0.1111	0.0048	-0.0004	
0.0129	1	.							
4156	O	O	. ALA ALA ALA B B 109 109 .	0.1169	0.1262	0.1344	-0.0024	-0.0127	
0.0189	1	.							
4157	N	N	. ILE ILE ILE B B 110 110 .	0.0919	0.1044	0.0990	0.0096	-0.0017	-
0.0010	1	.							
4158	CA	CA	. ILE ILE ILE B B 110 110 .	0.1183	0.0981	0.0809	0.0042	-0.0105	
0.0132	1	.							
4159	CB	CB	. ILE ILE ILE B B 110 110 .	0.1345	0.1300	0.0879	0.0330	-0.0040	
0.0062	1	.							
4160	CG1	CG1	. ILE ILE ILE B B 110 110 .	0.1268	0.1035	0.1312	0.0458	-0.0105	
0.0076	1	.							
4161	CD	CD	. ILE ILE ILE B B 110 110 .	0.1731	0.1257	0.1825	0.0559	-0.0016	
0.0342	1	.							
4162	CG2	CG2	. ILE ILE ILE B B 110 110 .	0.0966	0.1257	0.1147	-0.0065	-0.0145	
0.0031	1	.							

4163	C	C	. ILE ILE ILE B B 110 110 .	0.0968	0.1063	0.0961	0.0087	0.0042	
0.0103	1	.							
4164	O	O	. ILE ILE ILE B B 110 110 .	0.1117	0.1241	0.1310	0.0153	-0.0066	
0.0120	1	.							
4165	N	N	. LEU LEU LEU B B 111 111 .	0.1000	0.1126	0.1036	0.0100	0.0108	-
0.0027	1	.							
4166	CA	CA	. LEU LEU LEU B B 111 111 .	0.0849	0.0847	0.1202	-0.0021	0.0196	
0.0156	1	.							
4167	CB	CB	. LEU LEU LEU B B 111 111 .	0.0810	0.0937	0.1182	0.0007	0.0255	-
0.0033	1	.							
4168	CG	CG	. LEU LEU LEU B B 111 111 .	0.0724	0.1010	0.1013	0.0091	-0.0090	-
0.0208	1	.							
4169	CD1	CD1	. LEU LEU LEU B B 111 111 .	0.0745	0.1120	0.1311	0.0196	-0.0288	-
0.0218	1	.							
4170	CD2	CD2	. LEU LEU LEU B B 111 111 .	0.1088	0.1222	0.1673	0.0026	0.0444	
0.0061	1	.							
4171	C	C	. LEU LEU LEU B B 111 111 .	0.0983	0.1095	0.1037	0.0055	0.0270	-
0.0077	1	.							
4172	O	O	. LEU LEU LEU B B 111 111 .	0.0859	0.1164	0.1236	0.0086	0.0106	-
0.0027	1	.							
4173	N	N	. GLY GLY GLY B B 112 112 .	0.1065	0.1320	0.1239	0.0136	0.0106	
0.0203	1	.							
4174	CA	CA	. GLY GLY GLY B B 112 112 .	0.1040	0.1326	0.1244	0.0223	0.0118	
0.0441	1	.							
4175	C	C	. GLY GLY GLY B B 112 112 .	0.1310	0.1275	0.1230	0.0129	0.0178	
0.0132	1	.							
4176	O	O	. GLY GLY GLY B B 112 112 .	0.1042	0.1238	0.1360	0.0091	0.0105	
0.0224	1	.							
4177	N	N	. VAL VAL VAL B B 113 113 .	0.1060	0.1307	0.1015	0.0116	-0.0066	
0.0205	1	.							
4178	CA	CA	. VAL VAL VAL B B 113 113 .	0.0789	0.1188	0.1268	0.0110	0.0018	-
0.0057	1	.							
4179	CB	CB	. VAL VAL VAL B B 113 113 .	0.0835	0.1020	0.1166	0.0238	0.0001	-
0.0035	1	.							
4180	CG1	CG1	. VAL VAL VAL B B 113 113 .	0.0998	0.1299	0.1339	-0.0233	-0.0078	
0.0115	1	.							
4181	CG2	CG2	. VAL VAL VAL B B 113 113 .	0.0555	0.1380	0.1421	0.0026	0.0045	-
0.0141	1	.							
4182	C	C	. VAL VAL VAL B B 113 113 .	0.1147	0.1289	0.1109	0.0080	0.0091	
0.0123	1	.							
4183	O	O	. VAL VAL VAL B B 113 113 .	0.1198	0.1239	0.1196	-0.0075	0.0033	
0.0133	1	.							
4184	N	N	. SER SER SER B B 114 114 .	0.0811	0.1204	0.0996	0.0147	0.0077	
0.0112	1	.							
4185	CA	CA	. SER SER SER B B 114 114 .	0.0990	0.0988	0.1060	0.0045	0.0067	-
0.0030	1	.							
4186	CB	CB	. SER SER SER B B 114 114 .	0.1152	0.1116	0.0792	-0.0026	-0.0212	
0.0195	1	.							
4187	OG	OG	. SER SER SER B B 114 114 .	0.1266	0.1210	0.1112	-0.0062	-0.0265	-
0.0024	1	.							
4188	C	C	. SER SER SER B B 114 114 .	0.1034	0.1155	0.1169	0.0078	-0.0034	-
0.0058	1	.							
4189	O	O	. SER SER SER B B 114 114 .	0.1002	0.1058	0.1215	0.0075	-0.0113	
0.0187	1	.							
4190	N	N	. LEU LEU LEU B B 115 115 .	0.1107	0.1157	0.1011	0.0137	0.0102	
0.0330	1	.							
4191	CA	CA	. LEU LEU LEU B B 115 115 .	0.0775	0.0951	0.1359	-0.0026	-0.0038	
0.0404	1	.							
4192	CB	CB	. LEU LEU LEU B B 115 115 .	0.0842	0.1183	0.1477	-0.0069	-0.0029	
0.0344	1	.							

4193	CG	CG	. LEU LEU LEU B B 115 115 .	0.1199	0.1193	0.0883	-0.0249	0.0122	
0.0172	1	.							
4194	CD1	CD1	. LEU LEU LEU B B 115 115 .	0.1327	0.1514	0.1587	-0.0188	0.0017	
0.0489	1	.							
4195	CD2	CD2	. LEU LEU LEU B B 115 115 .	0.1323	0.1374	0.1355	0.0046	0.0188	
0.0041	1	.							
4196	C	C	. LEU LEU LEU B B 115 115 .	0.0920	0.1206	0.1181	0.0045	-0.0080	
0.0140	1	.							
4197	O	O	. LEU LEU LEU B B 115 115 .	0.1112	0.1278	0.1435	0.0089	-0.0016	
0.0260	1	.							
4198	N	N	. ALA ALA ALA B B 116 116 .	0.0868	0.1208	0.1184	0.0007	0.0031	
0.0262	1	.							
4199	CA	CA	. ALA ALA ALA B B 116 116 .	0.1132	0.1023	0.1133	-0.0026	-0.0012	
0.0176	1	.							
4200	CB	CB	. ALA ALA ALA B B 116 116 .	0.1247	0.1679	0.1125	-0.0091	-0.0072	-
0.0047	1	.							
4201	C	C	. ALA ALA ALA B B 116 116 .	0.1303	0.1224	0.1243	0.0039	0.0022	
0.0153	1	.							
4202	O	O	. ALA ALA ALA B B 116 116 .	0.1239	0.1209	0.1407	0.0024	0.0044	
0.0013	1	.							
4203	N	N	. VAL VAL VAL B B 117 117 .	0.0970	0.1145	0.1345	0.0147	0.0054	
0.0125	1	.							
4204	CA	CA	. VAL VAL VAL B B 117 117 .	0.1002	0.1089	0.1286	-0.0001	-0.0197	
0.0077	1	.							
4205	CB	CB	. VAL VAL VAL B B 117 117 .	0.1022	0.1279	0.1184	0.0114	-0.0109	
0.0127	1	.							
4206	CG1	CG1	. VAL VAL VAL B B 117 117 .	0.1124	0.1418	0.1542	0.0459	-0.0256	
0.0092	1	.							
4207	CG2	CG2	. VAL VAL VAL B B 117 117 .	0.1467	0.1292	0.1352	0.0095	0.0229	-
0.0094	1	.							
4208	C	C	. VAL VAL VAL B B 117 117 .	0.0973	0.1304	0.1242	-0.0034	0.0006	
0.0066	1	.							
4209	O	O	. VAL VAL VAL B B 117 117 .	0.1278	0.1333	0.1625	-0.0027	0.0052	
0.0160	1	.							
4210	N	N	. CYS CYS CYS B B 118 118 .	0.0853	0.1121	0.0999	0.0037	0.0075	
0.0063	1	.							
4211	CA	CA	. CYS CYS CYS B B 118 118 .	0.1093	0.1087	0.1198	-0.0068	0.0083	
0.0080	1	.							
4212	CB	CB	. CYS CYS CYS B B 118 118 .	0.1177	0.1626	0.1318	-0.0122	0.0118	-
0.0015	1	.							
4213	SG	SG	. CYS CYS CYS B B 118 118 .	0.1497	0.1474	0.1617	-0.0021	0.0097	
0.0069	1	.							
4214	C	C	. CYS CYS CYS B B 118 118 .	0.1188	0.1276	0.1313	-0.0051	-0.0032	-
0.0048	1	.							
4215	O	O	. CYS CYS CYS B B 118 118 .	0.1191	0.1337	0.1360	-0.0104	-0.0003	
0.0116	1	.							
4216	N	N	. LYS LYS LYS B B 119 119 .	0.1132	0.1290	0.1194	0.0012	-0.0019	
0.0225	1	.							
4217	CA	CA	. LYS LYS LYS B B 119 119 .	0.1113	0.1254	0.1318	-0.0022	0.0155	
0.0241	1	.							
4218	CB	CB	. LYS LYS LYS B B 119 119 .	0.1235	0.1373	0.1495	0.0087	0.0100	
0.0122	1	.							
4219	CG	CG	. LYS LYS LYS B B 119 119 .	0.1358	0.1066	0.1408	0.0159	0.0071	
0.0015	1	.							
4220	CD	CD	. LYS LYS LYS B B 119 119 .	0.1385	0.1596	0.1410	-0.0243	0.0120	
0.0018	1	.							
4221	CE	CE	. LYS LYS LYS B B 119 119 .	0.1052	0.2470	0.1857	-0.0177	-0.0126	-
0.0107	1	.							
4222	NZ	NZ	. LYS LYS LYS B B 119 119 .	0.1557	0.2570	0.1883	0.0095	-0.0266	-
0.0666	1	.							

4223	C	C	. LYS LYS LYS B B 119 119 .	0.1048	0.1319	0.1573	-0.0006	0.0189	-
0.0027	1	.							
4224	O	O	. LYS LYS LYS B B 119 119 .	0.1299	0.1347	0.1833	-0.0113	0.0129	
0.0141	1	.							
4225	N	N	. ALA ALA ALA B B 120 120 .	0.1424	0.1309	0.1669	-0.0082	0.0383	
0.0034	1	.							
4226	CA	CA	. ALA ALA ALA B B 120 120 .	0.1293	0.1317	0.1505	-0.0048	0.0069	
0.0016	1	.							
4227	CB	CB	. ALA ALA ALA B B 120 120 .	0.1357	0.1221	0.1304	0.0029	0.0399	-
0.0005	1	.							
4228	C	C	. ALA ALA ALA B B 120 120 .	0.1502	0.1424	0.1359	-0.0114	0.0104	
0.0035	1	.							
4229	O	O	. ALA ALA ALA B B 120 120 .	0.1471	0.1463	0.1654	-0.0118	0.0171	-
0.0028	1	.							
4230	N	N	. GLY GLY GLY B B 121 121 .	0.1300	0.1249	0.1258	-0.0029	-0.0029	
0.0086	1	.							
4231	CA	CA	. GLY GLY GLY B B 121 121 .	0.1141	0.1460	0.1436	0.0156	0.0077	-
0.0034	1	.							
4232	C	C	. GLY GLY GLY B B 121 121 .	0.1332	0.1303	0.1527	-0.0018	-0.0151	
0.0144	1	.							
4233	O	O	. GLY GLY GLY B B 121 121 .	0.1228	0.1478	0.1711	-0.0098	0.0032	
0.0121	1	.							
4234	N	N	. ALA ALA ALA B B 122 122 .	0.1121	0.1336	0.1611	0.0092	0.0192	
0.0030	1	.							
4235	CA	CA	. ALA ALA ALA B B 122 122 .	0.1133	0.1190	0.1662	-0.0158	0.0091	
0.0147	1	.							
4236	CB	CB	. ALA ALA ALA B B 122 122 .	0.0948	0.1565	0.1976	-0.0239	0.0228	-
0.0078	1	.							
4237	C	C	. ALA ALA ALA B B 122 122 .	0.1471	0.1583	0.1554	-0.0256	0.0182	
0.0031	1	.							
4238	O	O	. ALA ALA ALA B B 122 122 .	0.1624	0.1702	0.1648	-0.0136	0.0029	-
0.0012	1	.							
4239	N	N	. ALA ALA ALA B B 123 123 .	0.1606	0.1568	0.1497	-0.0205	0.0134	
0.0259	1	.							
4240	CA	CA	. ALA ALA ALA B B 123 123 .	0.1448	0.1308	0.1454	-0.0237	0.0006	
0.0192	1	.							
4241	CB	CB	. ALA ALA ALA B B 123 123 .	0.1691	0.1602	0.1647	0.0126	-0.0217	
0.0305	1	.							
4242	C	C	. ALA ALA ALA B B 123 123 .	0.1528	0.1487	0.1994	-0.0110	0.0037	
0.0184	1	.							
4243	O	O	. ALA ALA ALA B B 123 123 .	0.2163	0.1581	0.2116	-0.0447	0.0283	
0.0272	1	.							
4244	N	N	. GLU GLU GLU B B 124 124 .	0.1545	0.1586	0.1948	-0.0302	0.0015	-
0.0018	1	.							
4245	CA	CA	. GLU GLU GLU B B 124 124 .	0.1594	0.1767	0.2149	-0.0094	-0.0021	
0.0105	1	.							
4246	CB	CB	. GLU GLU GLU B B 124 124 .	0.1606	0.1404	0.2418	-0.0059	-0.0032	
0.0136	1	.							
4247	CG	CG	. GLU GLU GLU B B 124 124 .	0.1954	0.2991	0.3112	0.0219	0.0262	
0.0127	1	.							
4248	CD	CD	. GLU GLU GLU B B 124 124 .	0.2789	0.3333	0.3466	-0.0036	-0.0173	
0.0499	1	.							
4249	OE1	OE1	. GLU GLU GLU B B 124 124 .	0.3202	0.2553	0.2780	-0.0076	0.0450	
0.0200	1	.							
4250	OE2	OE2	. GLU GLU GLU B B 124 124 .	0.3065	0.4543	0.4483	-0.0367	0.0242	-
0.0173	1	.							
4251	C	C	. GLU GLU GLU B B 124 124 .	0.1529	0.1853	0.2258	-0.0286	0.0148	-
0.0028	1	.							
4252	O	O	. GLU GLU GLU B B 124 124 .	0.1644	0.2259	0.2843	-0.0565	0.0209	
0.0014	1	.							

4253	N	N	. ARG ARG ARG B B 125 125 .	0.1864	0.1988	0.2178	-0.0165	0.0164	
0.0104	1	.							
4254	CA	CA	. ARG ARG ARG B B 125 125 .	0.1777	0.2148	0.2111	-0.0264	0.0167	
0.0107	1	.							
4255	CB	CB	. ARG ARG ARG B B 125 125 .	0.2034	0.2099	0.2465	-0.0172	0.0308	
0.0071	1	.							
4256	CG	CG	. ARG ARG ARG B B 125 125 .	0.2304	0.2145	0.2703	0.0145	0.0239	
0.0106	1	.							
4257	CD	CD	. ARG ARG ARG B B 125 125 .	0.2175	0.2762	0.3747	0.0533	-0.0178	
0.0695	1	.							
4258	NE	NE	. ARG ARG ARG B B 125 125 .	0.4678	0.3685	0.4093	0.0331	0.0018	
0.0618	1	.							
4259	CZ	CZ	. ARG ARG ARG B B 125 125 .	0.4727	0.4587	0.5042	0.0062	-0.0295	
0.0669	1	.							
4260	NH1	NH1	. ARG ARG ARG B B 125 125 .	0.5126	0.5436	0.5496	-0.0526	-0.0422	
0.0317	1	.							
4261	NH2	NH2	. ARG ARG ARG B B 125 125 .	0.4591	0.4159	0.5010	0.0460	-0.0582	
0.0664	1	.							
4262	C	C	. ARG ARG ARG B B 125 125 .	0.1752	0.2082	0.2120	-0.0462	0.0354	
0.0023	1	.							
4263	O	O	. ARG ARG ARG B B 125 125 .	0.1913	0.2508	0.2620	-0.0420	-0.0023	-
0.0115	1	.							
4264	N	N	. GLU GLU GLU B B 126 126 .	0.1913	0.2094	0.2407	-0.0386	0.0208	
0.0134	1	.							
4265	CA	CA	. GLU GLU GLU B B 126 126 .	0.2099	0.2100	0.2693	-0.0380	0.0225	
0.0039	1	.							
4266	CB	CB	. GLU GLU GLU B B 126 126 .	0.2529	0.2193	0.3057	-0.0372	0.0282	-
0.0145	1	.							
4267	CG	CG	. GLU GLU GLU B B 126 126 .	0.3144	0.3569	0.4056	-0.0425	0.0347	
0.0085	1	.							
4268	CD	CD	. GLU GLU GLU B B 126 126 .	0.5001	0.4727	0.5360	-0.0654	-0.0007	
0.0514	1	.							
4269	OE1	OE1	. GLU GLU GLU B B 126 126 .	0.5969	0.6077	0.6318	0.0008	-0.0436	
0.0266	1	.							
4270	OE2	OE2	. GLU GLU GLU B B 126 126 .	0.5152	0.5649	0.6140	-0.1098	-0.0161	
0.0412	1	.							
4271	C	C	. GLU GLU GLU B B 126 126 .	0.2352	0.2201	0.2670	-0.0281	0.0168	-
0.0114	1	.							
4272	O	O	. GLU GLU GLU B B 126 126 .	0.2590	0.1878	0.2932	-0.0422	0.0388	-
0.0329	1	.							
4273	N	N	. LEU LEU LEU B B 127 127 .	0.2042	0.1939	0.2318	-0.0323	0.0254	
0.0181	1	.							
4274	CA	CA	. LEU LEU LEU B B 127 127 .	0.1865	0.2066	0.1999	-0.0109	0.0057	
0.0087	1	.							
4275	CB	CB	. LEU LEU LEU B B 127 127 .	0.1712	0.2084	0.2059	-0.0190	0.0009	
0.0250	1	.							
4276	CG	CG	. LEU LEU LEU B B 127 127 .	0.1998	0.2263	0.2459	-0.0285	-0.0112	-
0.0258	1	.							
4277	CD1	CD1	. LEU LEU LEU B B 127 127 .	0.1618	0.2351	0.2437	-0.0249	-0.0232	
0.0008	1	.							
4278	CD2	CD2	. LEU LEU LEU B B 127 127 .	0.2091	0.2215	0.2952	-0.0015	-0.0465	-
0.0310	1	.							
4279	C	C	. LEU LEU LEU B B 127 127 .	0.1799	0.1759	0.1889	-0.0114	0.0179	
0.0020	1	.							
4280	O	O	. LEU LEU LEU B B 127 127 .	0.1792	0.1665	0.2171	-0.0111	0.0271	
0.0014	1	.							
4281	N	N	. PRO PRO PRO B B 128 128 .	0.1619	0.1617	0.2117	-0.0195	0.0003	
0.0041	1	.							
4282	CA	CA	. PRO PRO PRO B B 128 128 .	0.1548	0.1645	0.1956	-0.0114	-0.0076	
0.0174	1	.							

4283	CB	CB	. PRO PRO PRO B B 128 128 .	0.1701	0.1465	0.2101	-0.0289	0.0212	-
0.0012	1	.							
4284	CG	CG	. PRO PRO PRO B B 128 128 .	0.1919	0.2395	0.2214	0.0247	-0.0134	-
0.0068	1	.							
4285	CD	CD	. PRO PRO PRO B B 128 128 .	0.1612	0.1741	0.1769	-0.0109	-0.0174	-
0.0049	1	.							
4286	C	C	. PRO PRO PRO B B 128 128 .	0.1668	0.1435	0.1523	-0.0225	-0.0194	
0.0126	1	.							
4287	O	O	. PRO PRO PRO B B 128 128 .	0.1190	0.1553	0.1752	-0.0096	-0.0045	
0.0006	1	.							
4288	N	N	. LEU LEU LEU B B 129 129 .	0.1014	0.1371	0.1811	-0.0296	-0.0079	
0.0279	1	.							
4289	CA	CA	. LEU LEU LEU B B 129 129 .	0.1288	0.1312	0.1651	-0.0136	-0.0025	
0.0068	1	.							
4290	CB	CB	. LEU LEU LEU B B 129 129 .	0.1680	0.1333	0.1527	-0.0175	-0.0244	
0.0195	1	.							
4291	CG	CG	. LEU LEU LEU B B 129 129 .	0.1304	0.1163	0.1585	-0.0045	-0.0177	
0.0092	1	.							
4292	CD1	CD1	. LEU LEU LEU B B 129 129 .	0.1562	0.1922	0.1906	0.0357	-0.0248	-
0.0271	1	.							
4293	CD2	CD2	. LEU LEU LEU B B 129 129 .	0.1525	0.1568	0.1196	-0.0210	-0.0415	-
0.0039	1	.							
4294	C	C	. LEU LEU LEU B B 129 129 .	0.1206	0.1158	0.1412	-0.0158	-0.0078	
0.0022	1	.							
4295	O	O	. LEU LEU LEU B B 129 129 .	0.1170	0.1155	0.1430	-0.0164	-0.0155	
0.0029	1	.							
4296	N	N	. TYR TYR TYR B B 130 130 .	0.1268	0.1288	0.1487	-0.0198	0.0119	-
0.0025	1	.							
4297	CA	CA	. TYR TYR TYR B B 130 130 .	0.1415	0.1140	0.1333	-0.0169	-0.0140	-
0.0085	1	.							
4298	CB	CB	. TYR TYR TYR B B 130 130 .	0.1569	0.1240	0.1724	-0.0082	-0.0015	
0.0136	1	.							
4299	CG	CG	. TYR TYR TYR B B 130 130 .	0.1248	0.1288	0.1359	-0.0160	-0.0196	
0.0092	1	.							
4300	CD1	CD1	. TYR TYR TYR B B 130 130 .	0.1909	0.1516	0.1929	-0.0073	-0.0058	
0.0109	1	.							
4301	CE1	CE1	. TYR TYR TYR B B 130 130 .	0.1705	0.1875	0.2454	-0.0012	-0.0041	
0.0175	1	.							
4302	CZ	CZ	. TYR TYR TYR B B 130 130 .	0.1983	0.1580	0.2107	-0.0083	0.0173	-
0.0016	1	.							
4303	OH	OH	. TYR TYR TYR B B 130 130 .	0.2184	0.1586	0.3473	-0.0346	0.0382	
0.0140	1	.							
4304	CE2	CE2	. TYR TYR TYR B B 130 130 .	0.1257	0.1792	0.2173	-0.0002	0.0262	
0.0125	1	.							
4305	CD2	CD2	. TYR TYR TYR B B 130 130 .	0.1397	0.1380	0.1480	-0.0217	0.0166	
0.0366	1	.							
4306	C	C	. TYR TYR TYR B B 130 130 .	0.1375	0.1255	0.1401	-0.0089	-0.0146	
0.0125	1	.							
4307	O	O	. TYR TYR TYR B B 130 130 .	0.1362	0.1258	0.1507	-0.0164	-0.0110	
0.0076	1	.							
4308	N	N	. ARG ARG ARG B B 131 131 .	0.1242	0.1340	0.1243	-0.0256	-0.0102	-
0.0105	1	.							
4309	CA	CA	. ARG ARG ARG B B 131 131 .	0.1449	0.1184	0.1644	-0.0177	-0.0152	-
0.0045	1	.							
4310	CB	CB	. ARG ARG ARG B B 131 131 .	0.1600	0.1342	0.1826	-0.0203	-0.0165	
0.0031	1	.							
4311	CG	CG	. ARG ARG ARG B B 131 131 .	0.2173	0.2124	0.2887	-0.0357	0.0043	-
0.0079	1	.							
4312	CD	CD	. ARG ARG ARG B B 131 131 .	0.3538	0.2701	0.4118	-0.0782	0.0148	-
0.0226	1	.							









4403	CG2	CG2	. ILE ILE ILE B B 143 143 .	0.2758	0.3236	0.2555	-0.0300	-0.0623	
0.0110	1	.							
4404	C	C	. ILE ILE ILE B B 143 143 .	0.1496	0.1628	0.1620	-0.0203	0.0047	
0.0011	1	.							
4405	O	O	. ILE ILE ILE B B 143 143 .	0.1716	0.1625	0.1858	0.0115	-0.0069	
0.0114	1	.							
4406	N	N	. LEU LEU LEU B B 144 144 .	0.1740	0.1435	0.1497	-0.0272	-0.0137	
0.0174	1	.							
4407	CA	CA	. LEU LEU LEU B B 144 144 .	0.1445	0.1231	0.1098	-0.0222	0.0020	
0.0087	1	.							
4408	CB	CB	. LEU LEU LEU B B 144 144 .	0.1629	0.1387	0.1181	-0.0118	-0.0016	
0.0244	1	.							
4409	CG	CG	. LEU LEU LEU B B 144 144 .	0.1759	0.1645	0.1156	-0.0330	0.0109	
0.0036	1	.							
4410	CD1	CD1	. LEU LEU LEU B B 144 144 .	0.1916	0.1416	0.1324	0.0156	0.0155	-
0.0096	1	.							
4411	CD2	CD2	. LEU LEU LEU B B 144 144 .	0.1734	0.1836	0.1903	-0.0512	0.0035	
0.0352	1	.							
4412	C	C	. LEU LEU LEU B B 144 144 .	0.1416	0.1103	0.1149	-0.0293	0.0036	-
0.0002	1	.							
4413	O	O	. LEU LEU LEU B B 144 144 .	0.1556	0.1230	0.1226	-0.0227	0.0127	-
0.0099	1	.							
4414	N	N	. PRO PRO PRO B B 145 145 .	0.1124	0.0985	0.1016	-0.0226	-0.0016	
0.0040	1	.							
4415	CA	CA	. PRO PRO PRO B B 145 145 .	0.1247	0.0769	0.1107	-0.0159	0.0153	
0.0055	1	.							
4416	CB	CB	. PRO PRO PRO B B 145 145 .	0.1281	0.1004	0.0964	-0.0032	0.0113	-
0.0071	1	.							
4417	CG	CG	. PRO PRO PRO B B 145 145 .	0.1252	0.0944	0.1051	-0.0353	0.0125	
0.0147	1	.							
4418	CD	CD	. PRO PRO PRO B B 145 145 .	0.1188	0.1090	0.1138	-0.0176	-0.0054	-
0.0254	1	.							
4419	C	C	. PRO PRO PRO B B 145 145 .	0.1286	0.0863	0.1151	-0.0192	-0.0012	
0.0000	1	.							
4420	O	O	. PRO PRO PRO B B 145 145 .	0.1168	0.1149	0.0922	0.0046	0.0147	
0.0024	1	.							
4421	N	N	. VAL VAL VAL B B 146 146 .	0.0875	0.0938	0.0889	-0.0090	0.0136	
0.0021	1	.							
4422	CA	CA	. VAL VAL VAL B B 146 146 .	0.0929	0.0749	0.0769	-0.0108	0.0000	-
0.0015	1	.							
4423	CB	CB	. VAL VAL VAL B B 146 146 .	0.1027	0.0754	0.0790	-0.0068	0.0175	-
0.0054	1	.							
4424	CG1	CG1	. VAL VAL VAL B B 146 146 .	0.1279	0.1440	0.1099	-0.0165	-0.0057	-
0.0170	1	.							
4425	CG2	CG2	. VAL VAL VAL B B 146 146 .	0.1752	0.1124	0.1211	0.0051	0.0466	-
0.0188	1	.							
4426	C	C	. VAL VAL VAL B B 146 146 .	0.0957	0.0772	0.0976	0.0117	0.0101	
0.0035	1	.							
4427	O	O	. VAL VAL VAL B B 146 146 .	0.1052	0.0846	0.0959	0.0090	0.0024	-
0.0121	1	.							
4428	N	N	. PRO PRO PRO B B 147 147 .	0.1134	0.0776	0.0823	0.0004	-0.0050	-
0.0006	1	.							
4429	CA	CA	. PRO PRO PRO B B 147 147 .	0.0890	0.0833	0.0782	0.0040	-0.0048	-
0.0091	1	.							
4430	CB	CB	. PRO PRO PRO B B 147 147 .	0.1275	0.0807	0.0819	0.0081	0.0127	-
0.0066	1	.							
4431	CG	CG	. PRO PRO PRO B B 147 147 .	0.1187	0.0954	0.0996	0.0147	-0.0107	-
0.0081	1	.							
4432	CD	CD	. PRO PRO PRO B B 147 147 .	0.1173	0.0780	0.0863	0.0365	-0.0140	-
0.0036	1	.							

4433	C	C	. PRO PRO PRO B B 147 147 .	0.0986	0.0942	0.1073	0.0024	-0.0046	-
0.0113	1	.							
4434	O	O	. PRO PRO PRO B B 147 147 .	0.1279	0.0928	0.1318	0.0106	0.0229	-
0.0084	1	.							
4435	N	N	. ALA ALA ALA B B 148 148 .	0.1232	0.0973	0.1088	-0.0098	0.0027	
0.0005	1	.							
4436	CA	CA	. ALA ALA ALA B B 148 148 .	0.0827	0.0945	0.0770	0.0130	-0.0007	
0.0115	1	.							
4437	CB	CB	. ALA ALA ALA B B 148 148 .	0.1320	0.1038	0.0889	0.0140	-0.0010	
0.0185	1	.							
4438	C	C	. ALA ALA ALA B B 148 148 .	0.0953	0.0919	0.0830	0.0000	0.0032	-
0.0068	1	.							
4439	O	O	. ALA ALA ALA B B 148 148 .	0.0914	0.0997	0.1074	0.0231	-0.0059	
0.0075	1	.							
4440	N	N	. PHE PHE PHE B B 149 149 .	0.0978	0.1090	0.0836	0.0127	0.0066	
0.0034	1	.							
4441	CA	CA	. PHE PHE PHE B B 149 149 .	0.0852	0.0996	0.0763	0.0013	0.0020	
0.0127	1	.							
4442	CB	CB	. PHE PHE PHE B B 149 149 .	0.1094	0.1015	0.1121	-0.0001	0.0035	
0.0047	1	.							
4443	CG	CG	. PHE PHE PHE B B 149 149 .	0.0710	0.0908	0.0718	-0.0046	0.0086	
0.0143	1	.							
4444	CD1	CD1	. PHE PHE PHE B B 149 149 .	0.0826	0.0798	0.0737	-0.0028	0.0124	
0.0043	1	.							
4445	CE1	CE1	. PHE PHE PHE B B 149 149 .	0.1121	0.0754	0.0991	0.0039	0.0141	
0.0228	1	.							
4446	CZ	CZ	. PHE PHE PHE B B 149 149 .	0.1406	0.1137	0.1019	-0.0053	0.0262	
0.0055	1	.							
4447	CE2	CE2	. PHE PHE PHE B B 149 149 .	0.0860	0.0809	0.1275	-0.0137	0.0144	-
0.0192	1	.							
4448	CD2	CD2	. PHE PHE PHE B B 149 149 .	0.1122	0.1194	0.1385	-0.0240	-0.0122	-
0.0126	1	.							
4449	C	C	. PHE PHE PHE B B 149 149 .	0.0843	0.0921	0.0807	0.0020	0.0128	
0.0037	1	.							
4450	O	O	. PHE PHE PHE B B 149 149 .	0.0985	0.0911	0.0881	0.0097	0.0207	
0.0076	1	.							
4451	N	N	. ASN ASN ASN B B 150 150 .	0.1042	0.0836	0.1013	0.0056	0.0110	
0.0002	1	.							
4452	CA	CA	. ASN ASN ASN B B 150 150 .	0.0895	0.1088	0.1152	0.0198	0.0094	-
0.0104	1	.							
4453	CB	CB	. ASN ASN ASN B B 150 150 .	0.1342	0.1058	0.1452	-0.0062	0.0465	-
0.0086	1	.							
4454	CG	CG	. ASN ASN ASN B B 150 150 .	0.2117	0.1440	0.1364	0.0003	0.0427	-
0.0092	1	.							
4455	OD1	OD1	. ASN ASN ASN B B 150 150 .	0.2004	0.2241	0.2357	0.0627	0.0127	-
0.0322	1	.							
4456	ND2	ND2	. ASN ASN ASN B B 150 150 .	0.0800	0.1000	0.1529	0.0182	-0.0030	
0.0266	1	.							
4457	C	C	. ASN ASN ASN B B 150 150 .	0.1239	0.1504	0.1025	0.0100	0.0068	
0.0083	1	.							
4458	O	O	. ASN ASN ASN B B 150 150 .	0.1861	0.2755	0.1630	0.0111	0.0218	
0.0104	1	.							
4459	N	N	. VAL VAL VAL B B 151 151 .	0.1068	0.1113	0.0957	0.0147	-0.0005	
0.0099	1	.							
4460	CA	CA	. VAL VAL VAL B B 151 151 .	0.1121	0.1086	0.0762	0.0010	-0.0100	
0.0034	1	.							
4461	CB	CB	. VAL VAL VAL B B 151 151 .	0.1054	0.1081	0.1139	0.0022	0.0064	
0.0108	1	.							
4462	CG1	CG1	. VAL VAL VAL B B 151 151 .	0.1165	0.1346	0.1453	-0.0161	-0.0154	
0.0000	1	.							



4493	OG	OG	. SER SER SER B B	156 156	. 0.3025 0.2794 0.1988 0.0987 0.0393	-
0.0073	1	.				
4494	C	C	. SER SER SER B B	156 156	. 0.2593 0.2393 0.2648 0.0107 0.0328	-
0.0105	1	.				
4495	O	O	. SER SER SER B B	156 156	. 0.2433 0.2303 0.2757 -0.0168 0.0660	
0.0231	1	.				
4496	N	N	. HIS HIS HIS B B	157 157	. 0.1809 0.1794 0.2789 0.0063 0.0224	-
0.0188	1	.				
4497	CA	CA	. HIS HIS HIS B B	157 157	. 0.1762 0.1855 0.2511 -0.0050 0.0044	-
0.0016	1	.				
4498	CB	CB	. HIS HIS HIS B B	157 157	. 0.1910 0.1944 0.2244 -0.0160 -0.0056	-
0.0255	1	.				
4499	CG	CG	. HIS HIS HIS B B	157 157	. 0.2009 0.2240 0.2458 0.0328 0.0030	-
0.0246	1	.				
4500	ND1	ND1	. HIS HIS HIS B B	157 157	. 0.2122 0.2033 0.2895 -0.0101 0.0459	
0.0197	1	.				
4501	CE1	CE1	. HIS HIS HIS B B	157 157	. 0.1835 0.2684 0.2763 -0.0020 0.0087	-
0.0318	1	.				
4502	NE2	NE2	. HIS HIS HIS B B	157 157	. 0.1956 0.1985 0.1538 0.0201 0.0209	
0.0032	1	.				
4503	CD2	CD2	. HIS HIS HIS B B	157 157	. 0.2340 0.2467 0.1948 -0.0164 0.0385	-
0.0434	1	.				
4504	C	C	. HIS HIS HIS B B	157 157	. 0.2253 0.2288 0.2459 -0.0064 0.0100	
0.0071	1	.				
4505	O	O	. HIS HIS HIS B B	157 157	. 0.1785 0.1777 0.2428 -0.0036 0.0179	
0.0455	1	.				
4506	N	N	. ALA ALA ALA B B	158 158	. 0.2310 0.2429 0.2562 -0.0108 -0.0052	-
0.0100	1	.				
4507	CA	CA	. ALA ALA ALA B B	158 158	. 0.2405 0.2399 0.2510 0.0087 -0.0238	-
0.0174	1	.				
4508	CB	CB	. ALA ALA ALA B B	158 158	. 0.2638 0.2963 0.2394 0.0092 -0.0311	-
0.0455	1	.				
4509	C	C	. ALA ALA ALA B B	158 158	. 0.2430 0.2352 0.2213 -0.0009 0.0068	-
0.0127	1	.				
4510	O	O	. ALA ALA ALA B B	158 158	. 0.2898 0.2171 0.2413 0.0745 -0.0026	
0.0010	1	.				
4511	N	N	. GLY GLY GLY B B	159 159	. 0.1950 0.2203 0.2168 0.0194 -0.0044	-
0.0101	1	.				
4512	CA	CA	. GLY GLY GLY B B	159 159	. 0.1960 0.2302 0.1816 0.0046 -0.0180	-
0.0017	1	.				
4513	C	C	. GLY GLY GLY B B	159 159	. 0.1896 0.2359 0.1797 0.0128 -0.0191	
0.0125	1	.				
4514	O	O	. GLY GLY GLY B B	159 159	. 0.2441 0.2021 0.1667 -0.0097 -0.0301	
0.0180	1	.				
4515	N	N	. ASN ASN ASN B B	160 160	. 0.1793 0.1997 0.1630 0.0182 -0.0171	
0.0351	1	.				
4516	CA	CA	. ASN ASN ASN B B	160 160	. 0.1697 0.1696 0.1569 0.0022 -0.0179	
0.0136	1	.				
4517	CB	CB	. ASN ASN ASN B B	160 160	. 0.1494 0.1899 0.1829 0.0123 -0.0338	-
0.0051	1	.				
4518	CG	CG	. ASN ASN ASN B B	160 160	. 0.1703 0.1874 0.1962 0.0107 -0.0489	
0.0094	1	.				
4519	OD1	OD1	. ASN ASN ASN B B	160 160	. 0.2033 0.2431 0.2311 0.0102 -0.0728	
0.0302	1	.				
4520	ND2	ND2	. ASN ASN ASN B B	160 160	. 0.1565 0.2095 0.1249 0.0139 -0.0215	
0.0017	1	.				
4521	C	C	. ASN ASN ASN B B	160 160	. 0.1246 0.1472 0.1395 -0.0119 -0.0294	-
0.0028	1	.				
4522	O	O	. ASN ASN ASN B B	160 160	. 0.1622 0.1792 0.1716 -0.0028 -0.0137	-
0.0090	1	.				







4583	CA	CA	. MET MET MET B B 168 168 .	0.0926	0.0883	0.0990	-0.0051	0.0085	-
0.0017	1	.							
4584	CB	CB	. MET MET MET B B 168 168 .	0.1136	0.1104	0.0898	0.0150	0.0013	-
0.0115	1	.							
4585	CG	CG	. MET MET MET B B 168 168 .	0.1216	0.1470	0.1281	0.0300	0.0093	-
0.0326	1	.							
4586	SD	SD	. MET MET MET B B 168 168 .	0.1227	0.1254	0.1636	0.0053	0.0075	-
0.0095	1	.							
4587	CE	CE	. MET MET MET B B 168 168 .	0.1393	0.1195	0.1615	0.0374	0.0217	-
0.0228	1	.							
4588	C	C	. MET MET MET B B 168 168 .	0.1092	0.0827	0.0813	-0.0069	0.0173	-
0.0115	1	.							
4589	O	O	. MET MET MET B B 168 168 .	0.1294	0.0763	0.0978	0.0067	0.0178	-
0.0001	1	.							
4590	N	N	. ILE ILE ILE B B 169 169 .	0.1270	0.0654	0.0915	0.0132	0.0034	-
0.0062	1	.							
4591	CA	CA	. ILE ILE ILE B B 169 169 .	0.1003	0.0974	0.0944	0.0073	-0.0013	-
0.0114	1	.							
4592	CB	CB	. ILE ILE ILE B B 169 169 .	0.0998	0.1079	0.0817	0.0122	0.0260	-
0.0217	1	.							
4593	CG1	CG1	. ILE ILE ILE B B 169 169 .	0.1217	0.1194	0.0814	0.0118	0.0028	-
0.0140	1	.							
4594	CD	CD	. ILE ILE ILE B B 169 169 .	0.1209	0.1568	0.1379	0.0402	0.0446	-
0.0329	1	.							
4595	CG2	CG2	. ILE ILE ILE B B 169 169 .	0.1177	0.1042	0.0852	-0.0232	0.0405	-
0.0020	1	.							
4596	C	C	. ILE ILE ILE B B 169 169 .	0.1084	0.0860	0.0980	-0.0004	0.0188	-
0.0036	1	.							
4597	O	O	. ILE ILE ILE B B 169 169 .	0.1243	0.1269	0.0946	-0.0080	0.0209	-
0.0116	1	.							
4598	N	N	. LEU LEU LEU B B 170 170 .	0.1028	0.0790	0.0858	0.0020	-0.0039	-
0.0095	1	.							
4599	CA	CA	. LEU LEU LEU B B 170 170 .	0.1035	0.0843	0.1029	-0.0063	0.0133	-
0.0162	1	.							
4600	CB	CB	. LEU LEU LEU B B 170 170 .	0.1378	0.0961	0.0832	0.0072	0.0261	-
0.0161	1	.							
4601	CG	CG	. LEU LEU LEU B B 170 170 .	0.1186	0.0813	0.1141	0.0101	-0.0114	-
0.0135	1	.							
4602	CD1	CD1	. LEU LEU LEU B B 170 170 .	0.1581	0.1438	0.1555	-0.0173	-0.0041	-
0.0028	1	.							
4603	CD2	CD2	. LEU LEU LEU B B 170 170 .	0.1681	0.1402	0.1641	0.0323	-0.0529	-
0.0149	1	.							
4604	C	C	. LEU LEU LEU B B 170 170 .	0.1403	0.0994	0.0979	0.0048	0.0264	-
0.0021	1	.							
4605	O	O	. LEU LEU LEU B B 170 170 .	0.1391	0.1006	0.0914	-0.0132	0.0373	-
0.0056	1	.							
4606	N	N	. PRO PRO PRO B B 171 171 .	0.1362	0.1103	0.0895	-0.0069	0.0213	-
0.0039	1	.							
4607	CA	CA	. PRO PRO PRO B B 171 171 .	0.1407	0.1046	0.0926	-0.0001	0.0109	-
0.0023	1	.							
4608	CB	CB	. PRO PRO PRO B B 171 171 .	0.1446	0.1263	0.0956	-0.0187	0.0204	-
0.0150	1	.							
4609	CG	CG	. PRO PRO PRO B B 171 171 .	0.1531	0.0766	0.1287	-0.0021	-0.0036	-
0.0278	1	.							
4610	CD	CD	. PRO PRO PRO B B 171 171 .	0.1235	0.1167	0.0845	-0.0039	0.0175	-
0.0033	1	.							
4611	C	C	. PRO PRO PRO B B 171 171 .	0.1458	0.0953	0.1106	-0.0113	0.0151	-
0.0092	1	.							
4612	O	O	. PRO PRO PRO B B 171 171 .	0.1488	0.1140	0.1097	-0.0273	0.0289	-
0.0219	1	.							

4613	N	N	. VAL VAL VAL B B 172 172 .	0.1522	0.1160	0.1034	-0.0074	0.0155	-
0.0097	1	.							
4614	CA	CA	. VAL VAL VAL B B 172 172 .	0.1755	0.1092	0.1126	-0.0019	0.0095	-
0.0072	1	.							
4615	CB	CB	. VAL VAL VAL B B 172 172 .	0.1817	0.1234	0.1422	-0.0205	0.0186	-
0.0002	1	.							
4616	CG1	CG1	. VAL VAL VAL B B 172 172 .	0.1561	0.1471	0.1481	0.0011	0.0149	-
0.0263	1	.							
4617	CG2	CG2	. VAL VAL VAL B B 172 172 .	0.2067	0.1552	0.1406	-0.0042	0.0403	-
0.0244	1	.							
4618	C	C	. VAL VAL VAL B B 172 172 .	0.1334	0.1122	0.1207	-0.0076	0.0115	-
0.0074	1	.							
4619	O	O	. VAL VAL VAL B B 172 172 .	0.1588	0.1568	0.1234	-0.0079	0.0324	-
0.0208	1	.							
4620	N	N	. GLY GLY GLY B B 173 173 .	0.1946	0.1165	0.1184	-0.0059	0.0385	-
0.0219	1	.							
4621	CA	CA	. GLY GLY GLY B B 173 173 .	0.1943	0.0922	0.1584	-0.0064	0.0515	-
0.0157	1	.							
4622	C	C	. GLY GLY GLY B B 173 173 .	0.2324	0.1337	0.1570	-0.0050	0.0303	-
0.0134	1	.							
4623	O	O	. GLY GLY GLY B B 173 173 .	0.2497	0.1316	0.1866	-0.0039	0.0415	-
0.0302	1	.							
4624	N	N	. ALA ALA ALA B B 174 174 .	0.2421	0.1335	0.1459	-0.0208	0.0339	-
0.0035	1	.							
4625	CA	CA	. ALA ALA ALA B B 174 174 .	0.2083	0.1435	0.1297	-0.0133	0.0107	-
0.0084	1	.							
4626	CB	CB	. ALA ALA ALA B B 174 174 .	0.2019	0.1284	0.0860	-0.0126	0.0171	-
0.0014	1	.							
4627	C	C	. ALA ALA ALA B B 174 174 .	0.1969	0.1492	0.1415	-0.0019	0.0100	-
0.0199	1	.							
4628	O	O	. ALA ALA ALA B B 174 174 .	0.2007	0.1458	0.1430	-0.0123	0.0147	-
0.0211	1	.							
4629	N	N	. GLU GLU GLU B B 175 175 .	0.2071	0.1680	0.1567	-0.0142	0.0402	-
0.0085	1	.							
4630	CA	CA	. GLU GLU GLU B B 175 175 .	0.2188	0.1945	0.1945	-0.0188	0.0283	-
0.0178	1	.							
4631	CB	CB	. GLU GLU GLU B B 175 175 .	0.2245	0.1948	0.2573	-0.0153	0.0440	-
0.0065	1	.							
4632	CG	CG	. GLU GLU GLU B B 175 175 .	0.3693	0.2934	0.3684	0.0338	0.0742	-
0.0187	1	.							
4633	CD	CD	. GLU GLU GLU B B 175 175 .	0.5826	0.3715	0.5248	0.0600	0.0742	-
0.0134	1	.							
4634	OE1	OE1	. GLU GLU GLU B B 175 175 .	0.6437	0.4608	0.5307	0.0419	0.0900	-
0.0173	1	.							
4635	OE2	OE2	. GLU GLU GLU B B 175 175 .	0.5678	0.5104	0.5886	0.0528	0.1063	-
0.0326	1	.							
4636	C	C	. GLU GLU GLU B B 175 175 .	0.1806	0.1819	0.1635	-0.0327	0.0109	-
0.0172	1	.							
4637	O	O	. GLU GLU GLU B B 175 175 .	0.2066	0.2328	0.1877	-0.0526	0.0186	-
0.0301	1	.							
4638	N	N	. SER SER SER B B 176 176 .	0.1690	0.1392	0.1163	-0.0220	0.0058	-
0.0006	1	.							
4639	CA	CA	. SER SER SER B B 176 176 .	0.1499	0.1327	0.1581	-0.0246	0.0091	-
0.0013	1	.							
4640	CB	CB	. SER SER SER B B 176 176 .	0.1534	0.1120	0.1673	-0.0293	0.0006	-
0.0139	1	.							
4641	OG	OG	. SER SER SER B B 176 176 .	0.1735	0.1514	0.1341	0.0024	-0.0113	-
0.0145	1	.							
4642	C	C	. SER SER SER B B 176 176 .	0.1263	0.1414	0.1110	-0.0065	0.0145	-
0.0149	1	.							

4643	O	O	. SER SER SER B B 176 176 .	0.1270	0.1154	0.1194	-0.0127	0.0003	-
0.0022	1	.							
4644	N	N	. PHE PHE PHE B B 177 177 .	0.1634	0.1321	0.1278	0.0039	0.0014	-
0.0105	1	.							
4645	CA	CA	. PHE PHE PHE B B 177 177 .	0.1346	0.1212	0.1221	-0.0175	-0.0034	-
0.0153	1	.							
4646	CB	CB	. PHE PHE PHE B B 177 177 .	0.1719	0.1091	0.1147	-0.0285	-0.0030	-
0.0127	1	.							
4647	CG	CG	. PHE PHE PHE B B 177 177 .	0.1498	0.1021	0.0865	-0.0188	-0.0025	-
0.0142	1	.							
4648	CD1	CD1	. PHE PHE PHE B B 177 177 .	0.1051	0.0823	0.1195	0.0227	0.0138	-
0.0173	1	.							
4649	CE1	CE1	. PHE PHE PHE B B 177 177 .	0.1495	0.1097	0.1086	-0.0187	0.0047	-
0.0251	1	.							
4650	CZ	CZ	. PHE PHE PHE B B 177 177 .	0.0822	0.0878	0.1134	-0.0081	-0.0125	-
0.0047	1	.							
4651	CE2	CE2	. PHE PHE PHE B B 177 177 .	0.1038	0.1153	0.1070	0.0049	0.0072	
0.0061	1	.							
4652	CD2	CD2	. PHE PHE PHE B B 177 177 .	0.1138	0.1568	0.0928	-0.0224	0.0082	-
0.0095	1	.							
4653	C	C	. PHE PHE PHE B B 177 177 .	0.1465	0.1217	0.1271	0.0024	0.0033	-
0.0051	1	.							
4654	O	O	. PHE PHE PHE B B 177 177 .	0.1401	0.0955	0.1193	0.0002	0.0150	-
0.0049	1	.							
4655	N	N	. ARG ARG ARG B B 178 178 .	0.1466	0.1141	0.1100	-0.0065	0.0112	-
0.0095	1	.							
4656	CA	CA	. ARG ARG ARG B B 178 178 .	0.1139	0.1061	0.1374	0.0103	0.0035	-
0.0071	1	.							
4657	CB	CB	. ARG ARG ARG B B 178 178 .	0.1445	0.1626	0.1682	-0.0285	0.0258	-
0.0003	1	.							
4658	CG	CG	. ARG ARG ARG B B 178 178 .	0.2539	0.2510	0.3175	-0.0185	0.0377	-
0.0306	1	.							
4659	CD	CD	. ARG ARG ARG B B 178 178 .	0.4466	0.2688	0.2345	-0.1696	0.0541	
0.0029	1	.							
4660	NE	NE	. ARG ARG ARG B B 178 178 .	0.4613	0.4055	0.3732	-0.1269	-0.0266	
0.0099	1	.							
4661	CZ	CZ	. ARG ARG ARG B B 178 178 .	0.5019	0.3896	0.4557	-0.0810	-0.0202	-
0.0148	1	.							
4662	NH1	NH1	. ARG ARG ARG B B 178 178 .	0.5742	0.4440	0.5043	-0.0145	-0.0485	-
0.0579	1	.							
4663	NH2	NH2	. ARG ARG ARG B B 178 178 .	0.3985	0.3649	0.4600	-0.0491	0.0375	-
0.0227	1	.							
4664	C	C	. ARG ARG ARG B B 178 178 .	0.1211	0.1106	0.1094	0.0064	0.0023	-
0.0020	1	.							
4665	O	O	. ARG ARG ARG B B 178 178 .	0.1220	0.0917	0.1072	0.0033	0.0100	-
0.0121	1	.							
4666	N	N	. ASP ASP ASP B B 179 179 .	0.1127	0.0908	0.1170	0.0246	0.0062	-
0.0005	1	.							
4667	CA	CA	. ASP ASP ASP B B 179 179 .	0.1252	0.0962	0.1212	-0.0187	0.0136	-
0.0079	1	.							
4668	CB	CB	. ASP ASP ASP B B 179 179 .	0.1638	0.1281	0.1398	0.0069	0.0107	-
0.0186	1	.							
4669	CG	CG	. ASP ASP ASP B B 179 179 .	0.2059	0.1891	0.2115	-0.0111	-0.0002	-
0.0055	1	.							
4670	OD1	OD1	. ASP ASP ASP B B 179 179 .	0.2783	0.2275	0.2354	0.0430	0.0179	
0.0057	1	.							
4671	OD2	OD2	. ASP ASP ASP B B 179 179 .	0.2913	0.2118	0.2314	0.0211	0.0111	-
0.0060	1	.							
4672	C	C	. ASP ASP ASP B B 179 179 .	0.1023	0.0840	0.1076	-0.0009	0.0076	
0.0022	1	.							

4673	O	O	. ASP ASP ASP B B 179 179 .	0.1050	0.1051	0.1097	0.0045	0.0081	
0.0069	1	.							
4674	N	N	. ALA ALA ALA B B 180 180 .	0.1378	0.1053	0.1027	-0.0119	-0.0011	
0.0064	1	.							
4675	CA	CA	. ALA ALA ALA B B 180 180 .	0.1198	0.0797	0.1140	-0.0129	0.0027	
0.0068	1	.							
4676	CB	CB	. ALA ALA ALA B B 180 180 .	0.1241	0.1250	0.1110	0.0034	-0.0116	
0.0021	1	.							
4677	C	C	. ALA ALA ALA B B 180 180 .	0.0945	0.1031	0.1009	-0.0124	0.0097	-
0.0015	1	.							
4678	O	O	. ALA ALA ALA B B 180 180 .	0.1301	0.1043	0.1090	-0.0074	0.0231	-
0.0026	1	.							
4679	N	N	. MET MET MET B B 181 181 .	0.1305	0.0980	0.0892	-0.0057	0.0103	
0.0083	1	.							
4680	CA	CA	. MET MET MET B B 181 181 .	0.1141	0.1149	0.1012	0.0013	0.0024	
0.0038	1	.							
4681	CB	CB	. MET MET MET B B 181 181 .	0.1400	0.1088	0.1267	0.0055	0.0199	
0.0166	1	.							
4682	CG	CG	. MET MET MET B B 181 181 .	0.0864	0.0888	0.0831	0.0061	0.0186	-
0.0029	1	.							
4683	SD	SD	. MET MET MET B B 181 181 .	0.1287	0.1147	0.1181	0.0000	0.0153	-
0.0009	1	.							
4684	CE	CE	. MET MET MET B B 181 181 .	0.1453	0.1030	0.1117	-0.0214	-0.0005	
0.0088	1	.							
4685	C	C	. MET MET MET B B 181 181 .	0.1260	0.1160	0.0726	0.0042	0.0161	-
0.0095	1	.							
4686	O	O	. MET MET MET B B 181 181 .	0.1197	0.0996	0.1103	0.0066	0.0183	
0.0072	1	.							
4687	N	N	. ARG ARG ARG B B 182 182 .	0.1222	0.0909	0.0987	0.0122	0.0221	-
0.0044	1	.							
4688	CA	CA	. ARG ARG ARG B B 182 182 .	0.1238	0.1041	0.1111	0.0095	0.0298	
0.0045	1	.							
4689	CB	CB	. ARG ARG ARG B B 182 182 .	0.1303	0.1054	0.1205	0.0101	0.0127	-
0.0012	1	.							
4690	CG	CG	. ARG ARG ARG B B 182 182 .	0.1610	0.1119	0.1891	0.0251	0.0055	-
0.0113	1	.							
4691	CD	CD	. ARG ARG ARG B B 182 182 .	0.2326	0.1598	0.2685	-0.0183	-0.0048	
0.0247	1	.							
4692	NE	NE	. ARG ARG ARG B B 182 182 .	0.3101	0.2044	0.3255	0.0257	0.0126	-
0.0551	1	.							
4693	CZ	CZ	. ARG ARG ARG B B 182 182 .	0.3543	0.2501	0.3552	-0.0005	0.0057	-
0.0333	1	.							
4694	NH1	NH1	. ARG ARG ARG B B 182 182 .	0.3291	0.2879	0.4048	0.0061	-0.0009	-
0.0284	1	.							
4695	NH2	NH2	. ARG ARG ARG B B 182 182 .	0.4345	0.2303	0.3703	0.0339	-0.0203	-
0.0547	1	.							
4696	C	C	. ARG ARG ARG B B 182 182 .	0.1302	0.1021	0.1112	0.0010	0.0181	
0.0111	1	.							
4697	O	O	. ARG ARG ARG B B 182 182 .	0.1216	0.1051	0.1019	0.0011	0.0092	
0.0172	1	.							
4698	N	N	. LEU LEU LEU B B 183 183 .	0.1106	0.0853	0.0898	0.0369	0.0143	-
0.0065	1	.							
4699	CA	CA	. LEU LEU LEU B B 183 183 .	0.1086	0.1035	0.1135	-0.0008	0.0043	-
0.0134	1	.							
4700	CB	CB	. LEU LEU LEU B B 183 183 .	0.1476	0.1017	0.1044	0.0270	0.0275	-
0.0157	1	.							
4701	CG	CG	. LEU LEU LEU B B 183 183 .	0.1840	0.1218	0.1257	-0.0097	0.0125	-
0.0320	1	.							
4702	CD1	CD1	. LEU LEU LEU B B 183 183 .	0.1975	0.1386	0.1404	-0.0049	0.0223	-
0.0048	1	.							





4763	CG	CG	. LEU LEU LEU B B 191 191 .	0.1019	0.1387	0.1276	-0.0093	0.0129
0.0350	1	.						
4764	CD1	CD1	. LEU LEU LEU B B 191 191 .	0.1116	0.1155	0.1077	0.0070	0.0499
0.0312	1	.						
4765	CD2	CD2	. LEU LEU LEU B B 191 191 .	0.1299	0.1485	0.1613	0.0198	-0.0142
0.0280	1	.						
4766	C	C	. LEU LEU LEU B B 191 191 .	0.1311	0.1434	0.1522	0.0062	0.0181
0.0213	1	.						
4767	O	O	. LEU LEU LEU B B 191 191 .	0.1091	0.1432	0.1476	0.0139	0.0128
0.0376	1	.						
4768	N	N	. LYS LYS LYS B B 192 192 .	0.1112	0.1296	0.0984	0.0160	0.0214
0.0209	1	.						
4769	CA	CA	. LYS LYS LYS B B 192 192 .	0.0889	0.1418	0.1296	0.0180	0.0290
0.0206	1	.						
4770	CB	CB	. LYS LYS LYS B B 192 192 .	0.1769	0.1302	0.1061	-0.0061	0.0257
0.0360	1	.						
4771	CG	CG	. LYS LYS LYS B B 192 192 .	0.1524	0.1518	0.1483	-0.0193	0.0114
0.0304	1	.						
4772	CD	CD	. LYS LYS LYS B B 192 192 .	0.1693	0.1949	0.1375	-0.0458	-0.0034
0.0324	1	.						
4773	CE	CE	. LYS LYS LYS B B 192 192 .	0.2550	0.2272	0.1795	-0.0509	0.0244
0.0070	1	.						
4774	NZ	NZ	. LYS LYS LYS B B 192 192 .	0.2438	0.3070	0.2374	-0.0766	0.0230
0.0453	1	.						
4775	C	C	. LYS LYS LYS B B 192 192 .	0.1252	0.1437	0.1202	0.0115	0.0077
0.0169	1	.						
4776	O	O	. LYS LYS LYS B B 192 192 .	0.1502	0.1551	0.1285	0.0118	0.0236
0.0190	1	.						
4777	N	N	. GLY GLY GLY B B 193 193 .	0.1231	0.1596	0.1324	0.0094	0.0107
0.0275	1	.						
4778	CA	CA	. GLY GLY GLY B B 193 193 .	0.1308	0.1716	0.1910	0.0326	0.0161
0.0367	1	.						
4779	C	C	. GLY GLY GLY B B 193 193 .	0.1443	0.1563	0.1855	0.0145	0.0024
0.0232	1	.						
4780	O	O	. GLY GLY GLY B B 193 193 .	0.1166	0.1775	0.1763	0.0203	-0.0024
0.0510	1	.						
4781	N	N	. VAL VAL VAL B B 194 194 .	0.1318	0.1476	0.1448	0.0216	0.0399
0.0357	1	.						
4782	CA	CA	. VAL VAL VAL B B 194 194 .	0.1259	0.1818	0.1452	-0.0002	0.0243
0.0330	1	.						
4783	CB	CB	. VAL VAL VAL B B 194 194 .	0.1404	0.1736	0.1418	0.0123	0.0093
0.0336	1	.						
4784	CG1	CG1	. VAL VAL VAL B B 194 194 .	0.1128	0.2027	0.1500	-0.0075	0.0059
0.0452	1	.						
4785	CG2	CG2	. VAL VAL VAL B B 194 194 .	0.1405	0.1646	0.1542	0.0502	0.0325
0.0163	1	.						
4786	C	C	. VAL VAL VAL B B 194 194 .	0.1359	0.1714	0.1529	0.0098	0.0242
0.0215	1	.						
4787	O	O	. VAL VAL VAL B B 194 194 .	0.1314	0.2030	0.1735	-0.0051	0.0174
0.0343	1	.						
4788	N	N	. ILE ILE ILE B B 195 195 .	0.1428	0.1644	0.1196	0.0210	0.0318
0.0207	1	.						
4789	CA	CA	. ILE ILE ILE B B 195 195 .	0.1317	0.1991	0.1320	0.0068	0.0328
0.0086	1	.						
4790	CB	CB	. ILE ILE ILE B B 195 195 .	0.1148	0.1595	0.1578	0.0360	0.0041
0.0176	1	.						
4791	CG1	CG1	. ILE ILE ILE B B 195 195 .	0.0963	0.1696	0.1504	0.0334	0.0037
0.0687	1	.						
4792	CD	CD	. ILE ILE ILE B B 195 195 .	0.0939	0.1493	0.1187	0.0251	0.0358
0.0252	1	.						

4793	CG2	CG2	. ILE ILE ILE B B 195 195 .	0.1902	0.1782	0.1454	0.0104	0.0340	
0.0199	1	.							
4794	C	C	. ILE ILE ILE B B 195 195 .	0.1407	0.1899	0.1677	0.0115	0.0132	
0.0157	1	.							
4795	O	O	. ILE ILE ILE B B 195 195 .	0.1375	0.2356	0.1901	-0.0198	0.0213	
0.0249	1	.							
4796	N	N	. LYS LYS LYS B B 196 196 .	0.1685	0.2052	0.1665	0.0313	-0.0016	
0.0158	1	.							
4797	CA	CA	. LYS LYS LYS B B 196 196 .	0.1449	0.2244	0.2126	0.0279	-0.0156	
0.0318	1	.							
4798	CB	CB	. LYS LYS LYS B B 196 196 .	0.1861	0.2296	0.1716	0.0384	-0.0148	
0.0329	1	.							
4799	CG	CG	. LYS LYS LYS B B 196 196 .	0.2356	0.2513	0.2180	-0.0047	-0.0472	
0.0806	1	.							
4800	CD	CD	. LYS LYS LYS B B 196 196 .	0.3027	0.3871	0.2729	-0.0378	-0.0361	
0.1297	1	.							
4801	CE	CE	. LYS LYS LYS B B 196 196 .	0.4040	0.4664	0.3016	-0.0657	-0.0573	
0.1057	1	.							
4802	NZ	NZ	. LYS LYS LYS B B 196 196 .	0.5282	0.4627	0.4007	-0.0208	-0.0417	
0.1665	1	.							
4803	C	C	. LYS LYS LYS B B 196 196 .	0.1809	0.2310	0.2076	0.0148	0.0031	
0.0203	1	.							
4804	O	O	. LYS LYS LYS B B 196 196 .	0.1541	0.2774	0.2240	0.0118	0.0067	
0.0177	1	.							
4805	N	N	. ASP ASP ASP B B 197 197 .	0.1195	0.2261	0.1907	0.0313	0.0176	
0.0227	1	.							
4806	CA	CA	. ASP ASP ASP B B 197 197 .	0.1589	0.2423	0.2194	0.0316	0.0192	
0.0054	1	.							
4807	CB	CB	. ASP ASP ASP B B 197 197 .	0.1699	0.2824	0.2104	0.0244	0.0445	
0.0037	1	.							
4808	CG	CG	. ASP ASP ASP B B 197 197 .	0.1817	0.2620	0.2748	0.0150	0.0015	-
0.0348	1	.							
4809	OD1	OD1	. ASP ASP ASP B B 197 197 .	0.3381	0.3452	0.3549	0.0196	-0.0249	-
0.0600	1	.							
4810	OD2	OD2	. ASP ASP ASP B B 197 197 .	0.2546	0.3377	0.3236	0.0017	0.0218	
0.0340	1	.							
4811	C	C	. ASP ASP ASP B B 197 197 .	0.1628	0.2792	0.2088	0.0217	0.0370	
0.0158	1	.							
4812	O	O	. ASP ASP ASP B B 197 197 .	0.1603	0.3560	0.2472	0.0215	0.0101	
0.0230	1	.							
4813	N	N	. LYS LYS LYS B B 198 198 .	0.1574	0.2674	0.2035	0.0092	0.0307	
0.0404	1	.							
4814	CA	CA	. LYS LYS LYS B B 198 198 .	0.1375	0.2630	0.1944	-0.0074	0.0205	
0.0334	1	.							
4815	CB	CB	. LYS LYS LYS B B 198 198 .	0.1582	0.2650	0.1960	-0.0073	0.0154	
0.0425	1	.							
4816	CG	CG	. LYS LYS LYS B B 198 198 .	0.2164	0.2688	0.1539	0.0082	0.0354	
0.0302	1	.							
4817	CD	CD	. LYS LYS LYS B B 198 198 .	0.1947	0.3071	0.1860	-0.0491	0.0239	
0.0596	1	.							
4818	CE	CE	. LYS LYS LYS B B 198 198 .	0.2246	0.2781	0.2057	-0.0824	-0.0154	
0.0855	1	.							
4819	NZ	NZ	. LYS LYS LYS B B 198 198 .	0.2070	0.3618	0.2085	0.0094	-0.0047	
0.0611	1	.							
4820	C	C	. LYS LYS LYS B B 198 198 .	0.1816	0.2770	0.2154	-0.0226	0.0159	
0.0252	1	.							
4821	O	O	. LYS LYS LYS B B 198 198 .	0.1936	0.3480	0.2347	-0.0467	0.0046	
0.0332	1	.							
4822	N	N	. TYR TYR TYR B B 199 199 .	0.1615	0.2828	0.1922	-0.0093	0.0207	
0.0179	1	.							



4823	CA	CA	. TYR TYR TYR B B 199 199 .	0.1438	0.2181	0.1632	-0.0168	-0.0063
0.0272	1	.						
4824	CB	CB	. TYR TYR TYR B B 199 199 .	0.1573	0.2635	0.1740	-0.0025	0.0138
0.0392	1	.						
4825	CG	CG	. TYR TYR TYR B B 199 199 .	0.2139	0.2494	0.1637	-0.0742	-0.0059
0.0340	1	.						
4826	CD1	CD1	. TYR TYR TYR B B 199 199 .	0.1320	0.2670	0.1360	0.0015	0.0101
0.0084	1	.						
4827	CE1	CE1	. TYR TYR TYR B B 199 199 .	0.1543	0.2212	0.1501	-0.0088	-0.0100
0.0481	1	.						
4828	CZ	CZ	. TYR TYR TYR B B 199 199 .	0.2405	0.2915	0.1655	-0.0634	0.0110
0.0481	1	.						
4829	OH	OH	. TYR TYR TYR B B 199 199 .	0.1758	0.2840	0.1714	-0.0649	-0.0151
0.0795	1	.						
4830	CE2	CE2	. TYR TYR TYR B B 199 199 .	0.2295	0.3061	0.1859	-0.0995	0.0038
0.0693	1	.						
4831	CD2	CD2	. TYR TYR TYR B B 199 199 .	0.2408	0.3223	0.2199	-0.1026	-0.0250
0.0561	1	.						
4832	C	C	. TYR TYR TYR B B 199 199 .	0.1540	0.2237	0.1733	-0.0215	0.0143
0.0180	1	.						
4833	O	O	. TYR TYR TYR B B 199 199 .	0.2009	0.2509	0.1716	-0.0349	0.0089
0.0100	1	.						
4834	N	N	. GLY GLY GLY B B 200 200 .	0.1581	0.2472	0.1450	0.0125	-0.0073
0.0321	1	.						
4835	CA	CA	. GLY GLY GLY B B 200 200 .	0.1471	0.2623	0.1406	-0.0059	0.0248
0.0267	1	.						
4836	C	C	. GLY GLY GLY B B 200 200 .	0.1613	0.2837	0.1912	0.0108	0.0263
0.0419	1	.						
4837	O	O	. GLY GLY GLY B B 200 200 .	0.1660	0.2271	0.1603	0.0047	0.0174
0.0374	1	.						
4838	N	N	. LYS LYS LYS B B 201 201 .	0.1873	0.2773	0.2008	0.0117	0.0508
0.0454	1	.						
4839	CA	CA	. LYS LYS LYS B B 201 201 .	0.2065	0.2973	0.2030	0.0207	0.0483
0.0542	1	.						
4840	CB	CB	. LYS LYS LYS B B 201 201 .	0.2335	0.3224	0.2181	0.0048	0.0431
0.0706	1	.						
4841	CG	CG	. LYS LYS LYS B B 201 201 .	0.3532	0.3194	0.2364	0.0206	0.0345
0.0369	1	.						
4842	CD	CD	. LYS LYS LYS B B 201 201 .	0.3637	0.4380	0.2069	0.0397	0.0616
0.0290	1	.						
4843	CE	CE	. LYS LYS LYS B B 201 201 .	0.3195	0.4945	0.2417	0.0243	0.0830
0.0429	1	.						
4844	NZ	NZ	. LYS LYS LYS B B 201 201 .	0.3280	0.5967	0.3380	0.0712	0.1172
0.0354	1	.						
4845	C	C	. LYS LYS LYS B B 201 201 .	0.2063	0.2342	0.1934	0.0086	0.0157
0.0341	1	.						
4846	O	O	. LYS LYS LYS B B 201 201 .	0.1853	0.2447	0.1806	0.0117	0.0500
0.0530	1	.						
4847	N	N	. ASP ASP ASP B B 202 202 .	0.1827	0.2462	0.1889	-0.0003	0.0324
0.0264	1	.						
4848	CA	CA	. ASP ASP ASP B B 202 202 .	0.1888	0.2136	0.2031	-0.0070	0.0244
0.0245	1	.						
4849	CB	CB	. ASP ASP ASP B B 202 202 .	0.2182	0.2561	0.2253	-0.0171	-0.0041
0.0103	1	.						
4850	CG	CG	. ASP ASP ASP B B 202 202 .	0.3152	0.3340	0.3229	-0.0289	-0.0286
0.0216	1	.						
4851	OD1	OD1	. ASP ASP ASP B B 202 202 .	0.3768	0.4672	0.3525	-0.0514	0.0308
0.1032	1	.						
4852	OD2	OD2	. ASP ASP ASP B B 202 202 .	0.3744	0.3954	0.4531	-0.0457	-0.0131
0.0288	1	.						

4853	C	C	. ASP ASP ASP B B 202 202 .	0.1778	0.2086	0.1979	-0.0049	0.0155	
0.0070	1	.							
4854	O	O	. ASP ASP ASP B B 202 202 .	0.1993	0.2151	0.1873	-0.0082	0.0462	
0.0295	1	.							
4855	N	N	. ALA ALA ALA B B 203 203 .	0.1581	0.2096	0.1688	-0.0223	0.0086	
0.0320	1	.							
4856	CA	CA	. ALA ALA ALA B B 203 203 .	0.1408	0.1791	0.1440	-0.0347	0.0172	
0.0203	1	.							
4857	CB	CB	. ALA ALA ALA B B 203 203 .	0.1534	0.1438	0.1578	-0.0217	0.0455	
0.0335	1	.							
4858	C	C	. ALA ALA ALA B B 203 203 .	0.1702	0.1601	0.1540	-0.0179	0.0044	
0.0105	1	.							
4859	O	O	. ALA ALA ALA B B 203 203 .	0.1515	0.1480	0.1632	-0.0101	0.0001	
0.0431	1	.							
4860	N	N	. THR THR THR B B 204 204 .	0.1677	0.1501	0.1584	-0.0088	0.0329	
0.0017	1	.							
4861	CA	CA	. THR THR THR B B 204 204 .	0.1194	0.1540	0.1689	0.0078	0.0287	
0.0100	1	.							
4862	CB	CB	. THR THR THR B B 204 204 .	0.1544	0.1543	0.1849	0.0185	0.0544	-
0.0004	1	.							
4863	OG1	OG1	. THR THR THR B B 204 204 .	0.1668	0.2351	0.2661	0.0282	0.0401	
0.0430	1	.							
4864	CG2	CG2	. THR THR THR B B 204 204 .	0.2141	0.2288	0.2542	0.0035	0.0833	
0.0214	1	.							
4865	C	C	. THR THR THR B B 204 204 .	0.1336	0.1420	0.1328	0.0083	0.0218	
0.0031	1	.							
4866	O	O	. THR THR THR B B 204 204 .	0.1331	0.1450	0.1609	0.0050	0.0257	-
0.0061	1	.							
4867	N	N	. ASN ASN ASN B B 205 205 .	0.0967	0.1168	0.1200	0.0000	-0.0061	
0.0041	1	.							
4868	CA	CA	. ASN ASN ASN B B 205 205 .	0.1073	0.1101	0.0940	0.0014	-0.0061	
0.0012	1	.							
4869	CB	CB	. ASN ASN ASN B B 205 205 .	0.1131	0.1184	0.1081	0.0047	-0.0246	-
0.0028	1	.							
4870	CG	CG	. ASN ASN ASN B B 205 205 .	0.1234	0.1094	0.1034	-0.0118	-0.0230	
0.0020	1	.							
4871	OD1	OD1	. ASN ASN ASN B B 205 205 .	0.1284	0.1375	0.1323	0.0018	0.0026	
0.0175	1	.							
4872	ND2	ND2	. ASN ASN ASN B B 205 205 .	0.1507	0.1695	0.1192	-0.0432	0.0058	-
0.0344	1	.							
4873	C	C	. ASN ASN ASN B B 205 205 .	0.0889	0.1277	0.0979	-0.0119	-0.0019	
0.0127	1	.							
4874	O	O	. ASN ASN ASN B B 205 205 .	0.1177	0.1431	0.1215	0.0009	0.0079	
0.0064	1	.							
4875	N	N	. VAL VAL VAL B B 206 206 .	0.0712	0.1119	0.0914	0.0076	0.0127	
0.0155	1	.							
4876	CA	CA	. VAL VAL VAL B B 206 206 .	0.1035	0.0940	0.1261	0.0050	-0.0043	-
0.0032	1	.							
4877	CB	CB	. VAL VAL VAL B B 206 206 .	0.0888	0.1051	0.1167	0.0032	0.0163	-
0.0112	1	.							
4878	CG1	CG1	. VAL VAL VAL B B 206 206 .	0.1086	0.0884	0.1270	0.0083	-0.0097	-
0.0062	1	.							
4879	CG2	CG2	. VAL VAL VAL B B 206 206 .	0.1578	0.1067	0.1310	-0.0047	0.0374	-
0.0045	1	.							
4880	C	C	. VAL VAL VAL B B 206 206 .	0.0914	0.0945	0.1088	0.0027	-0.0001	-
0.0075	1	.							
4881	O	O	. VAL VAL VAL B B 206 206 .	0.1198	0.0985	0.1006	-0.0118	-0.0049	-
0.0042	1	.							
4882	N	N	. GLY GLY GLY B B 207 207 .	0.0993	0.0948	0.1012	-0.0032	0.0049	
0.0013	1	.							

4883	CA	CA	. GLY GLY GLY B B 207 207 .	0.0878	0.1112	0.1392	-0.0207	0.0173	
0.0277	1	.							
4884	C	C	. GLY GLY GLY B B 207 207 .	0.0729	0.0997	0.0894	-0.0045	-0.0021	
0.0314	1	.							
4885	O	O	. GLY GLY GLY B B 207 207 .	0.0890	0.0900	0.1040	0.0114	0.0105	
0.0059	1	.							
4886	N	N	. ASP ASP ASP B B 208 208 .	0.0821	0.1005	0.1261	0.0067	0.0200	-
0.0166	1	.							
4887	CA	CA	. ASP ASP ASP B B 208 208 .	0.0657	0.0958	0.0998	0.0162	0.0082	
0.0085	1	.							
4888	CB	CB	. ASP ASP ASP B B 208 208 .	0.1234	0.0654	0.0960	0.0053	-0.0191	-
0.0198	1	.							
4889	CG	CG	. ASP ASP ASP B B 208 208 .	0.1224	0.1240	0.1451	-0.0263	-0.0204	
0.0042	1	.							
4890	OD1	OD1	. ASP ASP ASP B B 208 208 .	0.1704	0.1412	0.1703	0.0084	-0.0096	
0.0201	1	.							
4891	OD2	OD2	. ASP ASP ASP B B 208 208 .	0.1667	0.1196	0.2299	-0.0027	-0.0094	
0.0323	1	.							
4892	C	C	. ASP ASP ASP B B 208 208 .	0.0983	0.1002	0.0878	0.0081	-0.0043	
0.0031	1	.							
4893	O	O	. ASP ASP ASP B B 208 208 .	0.0621	0.0970	0.0960	0.0008	0.0032	
0.0115	1	.							
4894	N	N	. GLU GLU GLU B B 209 209 .	0.1090	0.0820	0.0928	-0.0066	0.0080	
0.0032	1	.							
4895	CA	CA	. GLU GLU GLU B B 209 209 .	0.0986	0.0910	0.1022	-0.0120	-0.0158	-
0.0016	1	.							
4896	CB	CB	. GLU GLU GLU B B 209 209 .	0.1113	0.1029	0.1329	0.0158	-0.0238	-
0.0155	1	.							
4897	CG	CG	. GLU GLU GLU B B 209 209 .	0.1069	0.1084	0.1659	-0.0070	-0.0462	-
0.0095	1	.							
4898	CD	CD	. GLU GLU GLU B B 209 209 .	0.1542	0.1720	0.1729	0.0351	-0.0233	-
0.0208	1	.							
4899	OE1	OE1	. GLU GLU GLU B B 209 209 .	0.1991	0.1596	0.1253	0.0028	-0.0186	
0.0190	1	.							
4900	OE2	OE2	. GLU GLU GLU B B 209 209 .	0.2205	0.1804	0.2115	0.0624	-0.0041	-
0.0060	1	.							
4901	C	C	. GLU GLU GLU B B 209 209 .	0.0606	0.0903	0.1040	-0.0060	-0.0055	-
0.0051	1	.							
4902	O	O	. GLU GLU GLU B B 209 209 .	0.1090	0.0973	0.1064	-0.0064	-0.0110	-
0.0113	1	.							
4903	N	N	. GLY GLY GLY B B 210 210 .	0.0871	0.0936	0.0894	0.0000	-0.0009	
0.0134	1	.							
4904	CA	CA	. GLY GLY GLY B B 210 210 .	0.0885	0.0740	0.0890	0.0098	0.0041	
0.0221	1	.							
4905	C	C	. GLY GLY GLY B B 210 210 .	0.0951	0.0839	0.0883	0.0188	-0.0035	
0.0214	1	.							
4906	O	O	. GLY GLY GLY B B 210 210 .	0.1164	0.1260	0.1070	0.0319	0.0213	
0.0028	1	.							
4907	N	N	. GLY GLY GLY B B 211 211 .	0.0841	0.0908	0.0679	0.0094	0.0059	
0.0118	1	.							
4908	CA	CA	. GLY GLY GLY B B 211 211 .	0.0907	0.1322	0.0880	0.0098	-0.0029	
0.0088	1	.							
4909	C	C	. GLY GLY GLY B B 211 211 .	0.0954	0.1018	0.0810	0.0061	-0.0031	-
0.0083	1	.							
4910	O	O	. GLY GLY GLY B B 211 211 .	0.1092	0.0923	0.0886	0.0000	-0.0081	-
0.0171	1	.							
4911	N	N	. PHE PHE PHE B B 212 212 .	0.0729	0.1032	0.0870	-0.0121	0.0111	
0.0043	1	.							
4912	CA	CA	. PHE PHE PHE B B 212 212 .	0.0810	0.0988	0.1001	-0.0014	-0.0042	
0.0070	1	.							

4913	CB	CB	. PHE PHE PHE B B 212 212 .	0.1163	0.0980	0.1022	0.0077	-0.0067	
0.0012	1	.							
4914	CG	CG	. PHE PHE PHE B B 212 212 .	0.1060	0.1215	0.1054	0.0121	-0.0104	-
0.0056	1	.							
4915	CD1	CD1	. PHE PHE PHE B B 212 212 .	0.0970	0.1173	0.1552	-0.0103	0.0247	-
0.0278	1	.							
4916	CE1	CE1	. PHE PHE PHE B B 212 212 .	0.1265	0.1566	0.1350	0.0032	0.0177	
0.0054	1	.							
4917	CZ	CZ	. PHE PHE PHE B B 212 212 .	0.0577	0.1306	0.1068	-0.0010	0.0120	
0.0086	1	.							
4918	CE2	CE2	. PHE PHE PHE B B 212 212 .	0.1003	0.1092	0.1429	0.0260	0.0247	-
0.0095	1	.							
4919	CD2	CD2	. PHE PHE PHE B B 212 212 .	0.1158	0.1217	0.1109	0.0185	0.0169	
0.0037	1	.							
4920	C	C	. PHE PHE PHE B B 212 212 .	0.1058	0.1207	0.1064	-0.0094	-0.0024	
0.0012	1	.							
4921	O	O	. PHE PHE PHE B B 212 212 .	0.1335	0.1244	0.1172	-0.0003	-0.0159	
0.0010	1	.							
4922	N	N	. ALA ALA ALA B B 213 213 .	0.1022	0.1152	0.1339	-0.0179	0.0112	-
0.0186	1	.							
4923	CA	CA	. ALA ALA ALA B B 213 213 .	0.1373	0.1222	0.1542	-0.0164	0.0216	
0.0005	1	.							
4924	CB	CB	. ALA ALA ALA B B 213 213 .	0.1905	0.1378	0.1644	-0.0357	0.0328	-
0.0285	1	.							
4925	C	C	. ALA ALA ALA B B 213 213 .	0.1428	0.1587	0.1367	-0.0238	0.0140	-
0.0044	1	.							
4926	O	O	. ALA ALA ALA B B 213 213 .	0.1577	0.1688	0.1568	-0.0236	0.0173	-
0.0132	1	.							
4927	N	N	. PRO PRO PRO B B 214 214 .	0.1202	0.1493	0.1445	-0.0164	0.0052	-
0.0026	1	.							
4928	CA	CA	. PRO PRO PRO B B 214 214 .	0.0991	0.1399	0.1574	-0.0118	0.0036	
0.0026	1	.							
4929	CB	CB	. PRO PRO PRO B B 214 214 .	0.1345	0.1492	0.1476	-0.0050	0.0000	-
0.0027	1	.							
4930	CG	CG	. PRO PRO PRO B B 214 214 .	0.0984	0.1506	0.1267	0.0016	0.0278	
0.0209	1	.							
4931	CD	CD	. PRO PRO PRO B B 214 214 .	0.1598	0.1322	0.1169	-0.0322	0.0363	-
0.0216	1	.							
4932	C	C	. PRO PRO PRO B B 214 214 .	0.1319	0.1391	0.1417	-0.0098	-0.0075	
0.0125	1	.							
4933	O	O	. PRO PRO PRO B B 214 214 .	0.1353	0.1553	0.1581	-0.0105	0.0057	
0.0093	1	.							
4934	N	N	. ASN ASN ASN B B 215 215 .	0.1074	0.1465	0.1481	-0.0225	-0.0055	-
0.0115	1	.							
4935	CA	CA	. ASN ASN ASN B B 215 215 .	0.1473	0.1776	0.1609	-0.0293	-0.0056	
0.0092	1	.							
4936	CB	CB	. ASN ASN ASN B B 215 215 .	0.1929	0.2108	0.1681	-0.0174	-0.0229	-
0.0366	1	.							
4937	CG	CG	. ASN ASN ASN B B 215 215 .	0.3438	0.3705	0.3976	0.0006	-0.0214	-
0.0535	1	.							
4938	OD1	OD1	. ASN ASN ASN B B 215 215 .	0.5292	0.4894	0.5456	-0.0434	-0.0709	-
0.0849	1	.							
4939	ND2	ND2	. ASN ASN ASN B B 215 215 .	0.5461	0.4459	0.5082	-0.0035	-0.0370	-
0.0876	1	.							
4940	C	C	. ASN ASN ASN B B 215 215 .	0.1370	0.1961	0.1488	-0.0020	-0.0111	
0.0036	1	.							
4941	O	O	. ASN ASN ASN B B 215 215 .	0.1874	0.2326	0.1542	-0.0286	-0.0146	
0.0250	1	.							
4942	N	N	. ILE ILE ILE B B 216 216 .	0.1781	0.2267	0.1386	-0.0301	-0.0121	-
0.0091	1	.							



4973	C	C	. ASN ASN ASN B B 219 219 .	0.1450	0.1194	0.1068	0.0004	0.0289	-
0.0167	1	.							
4974	O	O	. ASN ASN ASN B B 219 219 .	0.1395	0.1376	0.1168	-0.0232	0.0087	
0.0004	1	.							
4975	N	N	. SER SER SER B B 220 220 .	0.1290	0.1313	0.1217	0.0165	0.0147	
0.0067	1	.							
4976	CA	CA	. SER SER SER B B 220 220 .	0.1604	0.1297	0.1371	-0.0040	0.0192	
0.0214	1	.							
4977	CB	CB	. SER SER SER B B 220 220 .	0.1967	0.1356	0.1357	-0.0147	0.0230	
0.0370	1	.							
4978	OG	OG	. SER SER SER B B 220 220 .	0.1939	0.2271	0.2004	-0.0285	0.0431	
0.0166	1	.							
4979	C	C	. SER SER SER B B 220 220 .	0.1223	0.1441	0.1187	-0.0114	0.0088	
0.0013	1	.							
4980	O	O	. SER SER SER B B 220 220 .	0.1366	0.1376	0.1143	0.0137	0.0090	
0.0183	1	.							
4981	N	N	. GLU GLU GLU B B 221 221 .	0.1323	0.1607	0.1178	-0.0199	0.0047	
0.0222	1	.							
4982	CA	CA	. GLU GLU GLU B B 221 221 .	0.1234	0.1364	0.1309	-0.0160	0.0104	
0.0180	1	.							
4983	CB	CB	. GLU GLU GLU B B 221 221 .	0.1523	0.1922	0.1204	0.0007	-0.0126	
0.0096	1	.							
4984	CG	CG	. GLU GLU GLU B B 221 221 .	0.1728	0.1846	0.1859	-0.0316	-0.0174	
0.0411	1	.							
4985	CD	CD	. GLU GLU GLU B B 221 221 .	0.1833	0.3274	0.2497	-0.0049	0.0458	
0.0679	1	.							
4986	OE1	OE1	. GLU GLU GLU B B 221 221 .	0.1625	0.4763	0.2630	0.0512	0.0286	
0.0448	1	.							
4987	OE2	OE2	. GLU GLU GLU B B 221 221 .	0.2093	0.2881	0.2353	-0.0488	0.0241	
0.0726	1	.							
4988	C	C	. GLU GLU GLU B B 221 221 .	0.1189	0.1392	0.1456	-0.0214	0.0079	
0.0001	1	.							
4989	O	O	. GLU GLU GLU B B 221 221 .	0.1197	0.1686	0.1472	-0.0107	0.0137	
0.0133	1	.							
4990	N	N	. ALA ALA ALA B B 222 222 .	0.1240	0.1233	0.1416	-0.0177	0.0053	-
0.0082	1	.							
4991	CA	CA	. ALA ALA ALA B B 222 222 .	0.1232	0.1226	0.1220	-0.0130	0.0118	
0.0013	1	.							
4992	CB	CB	. ALA ALA ALA B B 222 222 .	0.1341	0.1138	0.1117	0.0035	0.0111	-
0.0038	1	.							
4993	C	C	. ALA ALA ALA B B 222 222 .	0.1341	0.1217	0.0970	-0.0171	0.0174	
0.0020	1	.							
4994	O	O	. ALA ALA ALA B B 222 222 .	0.1481	0.1201	0.1062	0.0062	0.0112	
0.0005	1	.							
4995	N	N	. LEU LEU LEU B B 223 223 .	0.1176	0.1367	0.1172	-0.0062	0.0022	-
0.0032	1	.							
4996	CA	CA	. LEU LEU LEU B B 223 223 .	0.1382	0.1188	0.0692	0.0052	0.0121	-
0.0042	1	.							
4997	CB	CB	. LEU LEU LEU B B 223 223 .	0.1270	0.1312	0.1211	0.0243	-0.0150	
0.0273	1	.							
4998	CG	CG	. LEU LEU LEU B B 223 223 .	0.1452	0.1044	0.1236	0.0070	0.0177	
0.0152	1	.							
4999	CD1	CD1	. LEU LEU LEU B B 223 223 .	0.1906	0.1432	0.1208	0.0083	0.0009	
0.0553	1	.							
5000	CD2	CD2	. LEU LEU LEU B B 223 223 .	0.1227	0.1241	0.1314	-0.0025	0.0275	
0.0045	1	.							
5001	C	C	. LEU LEU LEU B B 223 223 .	0.1297	0.1358	0.1035	-0.0132	-0.0007	
0.0112	1	.							
5002	O	O	. LEU LEU LEU B B 223 223 .	0.1299	0.1062	0.1219	-0.0092	0.0123	-
0.0068	1	.							

5003	N	N	. GLU GLU GLU B B 224 224 .	0.1245	0.1300	0.1095	-0.0022	0.0120	-
0.0014	1	.							
5004	CA	CA	. GLU GLU GLU B B 224 224 .	0.1152	0.1244	0.1232	-0.0042	0.0214	
0.0288	1	.							
5005	CB	CB	. GLU GLU GLU B B 224 224 .	0.1110	0.1543	0.1340	0.0100	0.0140	
0.0062	1	.							
5006	CG	CG	. GLU GLU GLU B B 224 224 .	0.2112	0.1944	0.2699	0.0253	0.0568	
0.0238	1	.							
5007	CD	CD	. GLU GLU GLU B B 224 224 .	0.3541	0.3618	0.3116	-0.0127	0.0761	-
0.0145	1	.							
5008	OE1	OE1	. GLU GLU GLU B B 224 224 .	0.4058	0.4181	0.4414	-0.0509	0.1220	-
0.0160	1	.							
5009	OE2	OE2	. GLU GLU GLU B B 224 224 .	0.4137	0.3704	0.4604	0.0148	0.0256	
0.0002	1	.							
5010	C	C	. GLU GLU GLU B B 224 224 .	0.1246	0.1218	0.1069	0.0053	-0.0041	
0.0124	1	.							
5011	O	O	. GLU GLU GLU B B 224 224 .	0.1811	0.1401	0.1384	-0.0059	0.0247	
0.0253	1	.							
5012	N	N	. LEU LEU LEU B B 225 225 .	0.1201	0.1216	0.1105	0.0146	0.0252	
0.0141	1	.							
5013	CA	CA	. LEU LEU LEU B B 225 225 .	0.1402	0.1513	0.1319	0.0092	0.0154	
0.0215	1	.							
5014	CB	CB	. LEU LEU LEU B B 225 225 .	0.1204	0.1504	0.1448	-0.0155	0.0014	-
0.0107	1	.							
5015	CG	CG	. LEU LEU LEU B B 225 225 .	0.1414	0.1583	0.1707	0.0063	-0.0381	-
0.0034	1	.							
5016	CD1	CD1	. LEU LEU LEU B B 225 225 .	0.1799	0.1969	0.1481	-0.0076	0.0211	-
0.0054	1	.							
5017	CD2	CD2	. LEU LEU LEU B B 225 225 .	0.1355	0.2078	0.2188	0.0232	-0.0599	
0.0304	1	.							
5018	C	C	. LEU LEU LEU B B 225 225 .	0.0983	0.1065	0.1118	0.0206	0.0133	
0.0095	1	.							
5019	O	O	. LEU LEU LEU B B 225 225 .	0.1284	0.1340	0.1263	0.0183	0.0331	
0.0310	1	.							
5020	N	N	. VAL VAL VAL B B 226 226 .	0.1137	0.1436	0.1067	0.0023	0.0094	
0.0025	1	.							
5021	CA	CA	. VAL VAL VAL B B 226 226 .	0.1111	0.1117	0.1086	0.0049	0.0138	
0.0124	1	.							
5022	CB	CB	. VAL VAL VAL B B 226 226 .	0.1129	0.1189	0.0918	0.0017	0.0060	-
0.0049	1	.							
5023	CG1	CG1	. VAL VAL VAL B B 226 226 .	0.0968	0.1296	0.1516	-0.0098	-0.0168	-
0.0042	1	.							
5024	CG2	CG2	. VAL VAL VAL B B 226 226 .	0.1303	0.1226	0.1102	-0.0014	0.0144	-
0.0403	1	.							
5025	C	C	. VAL VAL VAL B B 226 226 .	0.1245	0.1103	0.1176	-0.0147	0.0204	
0.0168	1	.							
5026	O	O	. VAL VAL VAL B B 226 226 .	0.1295	0.1184	0.1376	0.0013	0.0249	
0.0257	1	.							
5027	N	N	. LYS LYS LYS B B 227 227 .	0.1463	0.1305	0.0984	0.0091	0.0223	
0.0204	1	.							
5028	CA	CA	. LYS LYS LYS B B 227 227 .	0.1450	0.1181	0.1040	0.0208	0.0246	
0.0131	1	.							
5029	CB	CB	. LYS LYS LYS B B 227 227 .	0.1822	0.1308	0.1184	0.0258	0.0301	
0.0161	1	.							
5030	CG	CG	. LYS LYS LYS B B 227 227 .	0.2001	0.1554	0.1348	0.0139	0.0310	
0.0089	1	.							
5031	CD	CD	. LYS LYS LYS B B 227 227 .	0.3018	0.2299	0.1877	0.0401	0.0438	
0.0654	1	.							
5032	CE	CE	. LYS LYS LYS B B 227 227 .	0.4017	0.3702	0.3465	0.0444	0.0459	-
0.0527	1	.							

5033	NZ	NZ	. LYS LYS LYS B B 227 227 .	0.4348	0.5503	0.4917	0.0208	0.0113	
0.0107	1	.							
5034	C	C	. LYS LYS LYS B B 227 227 .	0.1285	0.1262	0.1015	-0.0030	0.0513	
0.0127	1	.							
5035	O	O	. LYS LYS LYS B B 227 227 .	0.1879	0.1481	0.1346	0.0203	0.0550	
0.0054	1	.							
5036	N	N	. GLU GLU GLU B B 228 228 .	0.1381	0.1513	0.1264	0.0232	0.0369	
0.0282	1	.							
5037	CA	CA	. GLU GLU GLU B B 228 228 .	0.1665	0.1503	0.1689	0.0218	0.0257	
0.0318	1	.							
5038	CB	CB	. GLU GLU GLU B B 228 228 .	0.1465	0.1571	0.1758	0.0462	0.0228	
0.0279	1	.							
5039	CG	CG	. GLU GLU GLU B B 228 228 .	0.1435	0.1871	0.2181	0.0704	0.0378	
0.0319	1	.							
5040	CD	CD	. GLU GLU GLU B B 228 228 .	0.3194	0.3774	0.3775	0.0155	0.0205	
0.0159	1	.							
5041	OE1	OE1	. GLU GLU GLU B B 228 228 .	0.4230	0.4324	0.4889	0.0900	0.0540	
0.0164	1	.							
5042	OE2	OE2	. GLU GLU GLU B B 228 228 .	0.4093	0.4123	0.4786	0.0388	0.0756	
0.0137	1	.							
5043	C	C	. GLU GLU GLU B B 228 228 .	0.1736	0.1407	0.1637	0.0106	0.0447	
0.0146	1	.							
5044	O	O	. GLU GLU GLU B B 228 228 .	0.1402	0.1473	0.1978	0.0211	0.0355	
0.0136	1	.							
5045	N	N	. ALA ALA ALA B B 229 229 .	0.1382	0.1372	0.1388	0.0104	0.0492	
0.0218	1	.							
5046	CA	CA	. ALA ALA ALA B B 229 229 .	0.1569	0.1245	0.1189	-0.0041	0.0365	
0.0150	1	.							
5047	CB	CB	. ALA ALA ALA B B 229 229 .	0.1265	0.1611	0.1059	0.0463	0.0453	
0.0158	1	.							
5048	C	C	. ALA ALA ALA B B 229 229 .	0.1375	0.1353	0.1317	0.0020	0.0150	
0.0162	1	.							
5049	O	O	. ALA ALA ALA B B 229 229 .	0.1599	0.1315	0.1352	0.0130	0.0122	
0.0068	1	.							
5050	N	N	. ILE ILE ILE B B 230 230 .	0.1298	0.1324	0.1106	0.0157	0.0178	
0.0065	1	.							
5051	CA	CA	. ILE ILE ILE B B 230 230 .	0.1393	0.1195	0.1161	0.0075	0.0200	
0.0199	1	.							
5052	CB	CB	. ILE ILE ILE B B 230 230 .	0.1419	0.1181	0.1163	0.0312	0.0203	-
0.0017	1	.							
5053	CG1	CG1	. ILE ILE ILE B B 230 230 .	0.1189	0.1021	0.1455	0.0134	0.0311	
0.0073	1	.							
5054	CD	CD	. ILE ILE ILE B B 230 230 .	0.1588	0.0936	0.1103	0.0112	0.0111	
0.0167	1	.							
5055	CG2	CG2	. ILE ILE ILE B B 230 230 .	0.1594	0.1371	0.1371	0.0043	0.0001	-
0.0111	1	.							
5056	C	C	. ILE ILE ILE B B 230 230 .	0.1677	0.1450	0.1592	0.0106	0.0062	
0.0078	1	.							
5057	O	O	. ILE ILE ILE B B 230 230 .	0.1545	0.1305	0.1399	0.0061	0.0337	-
0.0012	1	.							
5058	N	N	. ASP ASP ASP B B 231 231 .	0.1691	0.1722	0.1648	0.0355	0.0332	
0.0037	1	.							
5059	CA	CA	. ASP ASP ASP B B 231 231 .	0.1878	0.1710	0.1477	0.0291	0.0444	
0.0191	1	.							
5060	CB	CB	. ASP ASP ASP B B 231 231 .	0.1947	0.1988	0.1761	0.0164	0.0569	-
0.0054	1	.							
5061	CG	CG	. ASP ASP ASP B B 231 231 .	0.3386	0.3606	0.3166	0.0444	0.0567	-
0.0195	1	.							
5062	OD1	OD1	. ASP ASP ASP B B 231 231 .	0.4909	0.4647	0.4377	-0.0408	0.0436	-
0.0390	1	.							



5063	OD2	OD2	. ASP ASP ASP B B 231 231 .	0.3900	0.5160	0.5152	0.0454	0.0563	
0.0029	1	.							
5064	C	C	. ASP ASP ASP B B 231 231 .	0.1587	0.1790	0.1737	0.0317	0.0350	
0.0096	1	.							
5065	O	O	. ASP ASP ASP B B 231 231 .	0.2165	0.1738	0.1881	0.0433	0.0367	
0.0087	1	.							
5066	N	N	. LYS LYS LYS B B 232 232 .	0.1653	0.1772	0.1684	0.0301	0.0555	
0.0154	1	.							
5067	CA	CA	. LYS LYS LYS B B 232 232 .	0.1703	0.1862	0.1858	0.0283	0.0299	
0.0071	1	.							
5068	CB	CB	. LYS LYS LYS B B 232 232 .	0.2249	0.2039	0.1961	0.0154	0.0098	
0.0137	1	.							
5069	CG	CG	. LYS LYS LYS B B 232 232 .	0.2727	0.2627	0.2516	0.0533	0.0335	
0.0318	1	.							
5070	CD	CD	. LYS LYS LYS B B 232 232 .	0.3255	0.3161	0.3728	0.0228	0.0282	-
0.0135	1	.							
5071	CE	CE	. LYS LYS LYS B B 232 232 .	0.4571	0.4701	0.5057	-0.0042	0.0382	
0.0379	1	.							
5072	NZ	NZ	. LYS LYS LYS B B 232 232 .	0.6191	0.5470	0.5310	0.0249	0.0102	
0.0481	1	.							
5073	C	C	. LYS LYS LYS B B 232 232 .	0.1846	0.1785	0.1977	0.0252	0.0231	
0.0130	1	.							
5074	O	O	. LYS LYS LYS B B 232 232 .	0.1943	0.1668	0.2179	0.0301	0.0273	
0.0231	1	.							
5075	N	N	. ALA ALA ALA B B 233 233 .	0.1507	0.1741	0.1588	0.0056	0.0212	
0.0056	1	.							
5076	CA	CA	. ALA ALA ALA B B 233 233 .	0.1389	0.1439	0.1810	0.0242	0.0346	-
0.0072	1	.							
5077	CB	CB	. ALA ALA ALA B B 233 233 .	0.1580	0.1379	0.1809	0.0631	0.0444	-
0.0041	1	.							
5078	C	C	. ALA ALA ALA B B 233 233 .	0.1610	0.1445	0.1720	0.0220	0.0347	-
0.0150	1	.							
5079	O	O	. ALA ALA ALA B B 233 233 .	0.2298	0.1804	0.1943	0.0040	0.0611	-
0.0040	1	.							
5080	N	N	. GLY GLY GLY B B 234 234 .	0.1974	0.1491	0.1832	0.0265	0.0229	
0.0031	1	.							
5081	CA	CA	. GLY GLY GLY B B 234 234 .	0.2182	0.1748	0.1965	0.0246	0.0127	-
0.0054	1	.							
5082	C	C	. GLY GLY GLY B B 234 234 .	0.2085	0.1514	0.1680	0.0182	0.0115	-
0.0080	1	.							
5083	O	O	. GLY GLY GLY B B 234 234 .	0.2312	0.1526	0.1954	0.0226	0.0114	
0.0008	1	.							
5084	N	N	. TYR TYR TYR B B 235 235 .	0.2013	0.1420	0.1434	0.0513	0.0286	
0.0020	1	.							
5085	CA	CA	. TYR TYR TYR B B 235 235 .	0.1611	0.1443	0.1289	0.0245	0.0418	-
0.0197	1	.							
5086	CB	CB	. TYR TYR TYR B B 235 235 .	0.1661	0.1597	0.0933	0.0296	0.0525	
0.0166	1	.							
5087	CG	CG	. TYR TYR TYR B B 235 235 .	0.1651	0.1190	0.1562	-0.0229	0.0416	-
0.0079	1	.							
5088	CD1	CD1	. TYR TYR TYR B B 235 235 .	0.1844	0.1200	0.1394	0.0424	0.0011	
0.0039	1	.							
5089	CE1	CE1	. TYR TYR TYR B B 235 235 .	0.1784	0.1756	0.1794	-0.0162	0.0251	
0.0170	1	.							
5090	CZ	CZ	. TYR TYR TYR B B 235 235 .	0.1525	0.1710	0.1960	0.0240	0.0325	
0.0173	1	.							
5091	OH	OH	. TYR TYR TYR B B 235 235 .	0.2422	0.1547	0.1833	0.0181	0.0556	
0.0202	1	.							
5092	CE2	CE2	. TYR TYR TYR B B 235 235 .	0.1724	0.1716	0.2112	0.0209	0.0248	
0.0292	1	.							





5153	CE	CE	. MET MET MET B B 243 243 .	0.1485	0.1535	0.1601	-0.0713	0.0108	-
0.0268	1	.							
5154	C	C	. MET MET MET B B 243 243 .	0.0958	0.0902	0.0775	0.0032	-0.0080	
0.0013	1	.							
5155	O	O	. MET MET MET B B 243 243 .	0.1037	0.1058	0.1104	0.0106	-0.0209	
0.0069	1	.							
5156	N	N	. ASP ASP ASP B B 244 244 .	0.1173	0.0924	0.0778	0.0036	0.0032	-
0.0022	1	.							
5157	CA	CA	. ASP ASP ASP B B 244 244 .	0.1154	0.0769	0.0833	-0.0018	0.0074	
0.0200	1	.							
5158	CB	CB	. ASP ASP ASP B B 244 244 .	0.1403	0.0648	0.0766	-0.0020	0.0183	-
0.0064	1	.							
5159	CG	CG	. ASP ASP ASP B B 244 244 .	0.0572	0.0997	0.0869	-0.0007	0.0125	
0.0054	1	.							
5160	OD1	OD1	. ASP ASP ASP B B 244 244 .	0.1012	0.0918	0.0841	-0.0016	0.0146	-
0.0037	1	.							
5161	OD2	OD2	. ASP ASP ASP B B 244 244 .	0.1001	0.0974	0.0949	0.0068	0.0013	
0.0004	1	.							
5162	C	C	. ASP ASP ASP B B 244 244 .	0.0981	0.0929	0.0998	0.0080	-0.0186	
0.0029	1	.							
5163	O	O	. ASP ASP ASP B B 244 244 .	0.1156	0.1003	0.1008	0.0203	-0.0215	
0.0003	1	.							
5164	N	N	. VAL VAL VAL B B 245 245 .	0.0993	0.0805	0.0898	-0.0159	-0.0213	
0.0135	1	.							
5165	CA	CA	. VAL VAL VAL B B 245 245 .	0.1153	0.0888	0.0990	-0.0050	-0.0005	
0.0000	1	.							
5166	CB	CB	. VAL VAL VAL B B 245 245 .	0.1388	0.0805	0.0774	0.0003	-0.0010	
0.0094	1	.							
5167	CG1	CG1	. VAL VAL VAL B B 245 245 .	0.1442	0.0960	0.0838	-0.0174	0.0014	
0.0023	1	.							
5168	CG2	CG2	. VAL VAL VAL B B 245 245 .	0.1470	0.0862	0.1007	-0.0094	0.0187	-
0.0242	1	.							
5169	C	C	. VAL VAL VAL B B 245 245 .	0.0802	0.0836	0.0959	-0.0051	-0.0013	-
0.0060	1	.							
5170	O	O	. VAL VAL VAL B B 245 245 .	0.1008	0.1082	0.1035	-0.0082	-0.0118	-
0.0089	1	.							
5171	N	N	. ALA ALA ALA B B 246 246 .	0.0789	0.0932	0.0915	0.0044	0.0116	-
0.0058	1	.							
5172	CA	CA	. ALA ALA ALA B B 246 246 .	0.0931	0.0865	0.0567	0.0067	0.0075	-
0.0061	1	.							
5173	CB	CB	. ALA ALA ALA B B 246 246 .	0.1087	0.1136	0.0812	-0.0155	0.0119	
0.0247	1	.							
5174	C	C	. ALA ALA ALA B B 246 246 .	0.0719	0.0946	0.0633	0.0018	-0.0105	-
0.0058	1	.							
5175	O	O	. ALA ALA ALA B B 246 246 .	0.1171	0.0925	0.0975	-0.0070	-0.0065	-
0.0075	1	.							
5176	N	N	. ALA ALA ALA B B 247 247 .	0.1181	0.0820	0.0734	-0.0117	-0.0143	
0.0089	1	.							
5177	CA	CA	. ALA ALA ALA B B 247 247 .	0.1238	0.0844	0.0663	-0.0111	0.0226	
0.0160	1	.							
5178	CB	CB	. ALA ALA ALA B B 247 247 .	0.1206	0.0873	0.0753	-0.0005	0.0116	
0.0083	1	.							
5179	C	C	. ALA ALA ALA B B 247 247 .	0.1187	0.0970	0.0875	0.0127	0.0043	
0.0185	1	.							
5180	O	O	. ALA ALA ALA B B 247 247 .	0.1114	0.0914	0.1016	-0.0017	0.0013	
0.0000	1	.							
5181	N	N	. SER SER SER B B 248 248 .	0.1267	0.0858	0.1131	0.0049	-0.0015	-
0.0042	1	.							
5182	CA	CA	. SER SER SER B B 248 248 .	0.1067	0.0874	0.1106	0.0200	0.0049	-
0.0064	1	.							

5183	CB	CB	. SER SER SER B B 248 248 .	0.0934	0.1135	0.0782	0.0141	0.0080	
0.0021	1	.							
5184	OG	OG	. SER SER SER B B 248 248 .	0.0999	0.1067	0.0939	-0.0054	-0.0070	
0.0137	1	.							
5185	C	C	. SER SER SER B B 248 248 .	0.1133	0.0974	0.1123	-0.0021	-0.0043	
0.0134	1	.							
5186	O	O	. SER SER SER B B 248 248 .	0.1434	0.1258	0.1288	0.0131	-0.0167	-
0.0089	1	.							
5187	N	N	. GLU GLU GLU B B 249 249 .	0.1094	0.1143	0.0849	0.0007	-0.0066	
0.0070	1	.							
5188	CA	CA	. GLU GLU GLU B B 249 249 .	0.1236	0.1250	0.1045	-0.0297	-0.0140	
0.0029	1	.							
5189	CB	CB	. GLU GLU GLU B B 249 249 .	0.0915	0.1098	0.1134	-0.0281	-0.0224	
0.0127	1	.							
5190	CG	CG	. GLU GLU GLU B B 249 249 .	0.1316	0.1706	0.1131	-0.0115	0.0186	
0.0272	1	.							
5191	CD	CD	. GLU GLU GLU B B 249 249 .	0.1233	0.1666	0.1225	0.0149	-0.0261	-
0.0288	1	.							
5192	OE1	OE1	. GLU GLU GLU B B 249 249 .	0.2018	0.3447	0.1410	-0.0368	-0.0115	-
0.0633	1	.							
5193	OE2	OE2	. GLU GLU GLU B B 249 249 .	0.1453	0.1183	0.1483	-0.0005	-0.0227	-
0.0043	1	.							
5194	C	C	. GLU GLU GLU B B 249 249 .	0.1387	0.1258	0.1279	-0.0147	-0.0010	-
0.0093	1	.							
5195	O	O	. GLU GLU GLU B B 249 249 .	0.1649	0.1833	0.1353	-0.0581	-0.0212	-
0.0119	1	.							
5196	N	N	. PHE PHE PHE B B 250 250 .	0.1149	0.1235	0.0942	-0.0101	-0.0088	
0.0198	1	.							
5197	CA	CA	. PHE PHE PHE B B 250 250 .	0.1203	0.1113	0.1203	-0.0018	-0.0057	
0.0066	1	.							
5198	CB	CB	. PHE PHE PHE B B 250 250 .	0.1040	0.1198	0.1318	-0.0038	-0.0052	-
0.0079	1	.							
5199	CG	CG	. PHE PHE PHE B B 250 250 .	0.0724	0.1116	0.1198	-0.0042	-0.0117	
0.0095	1	.							
5200	CD1	CD1	. PHE PHE PHE B B 250 250 .	0.1101	0.1150	0.1069	-0.0059	-0.0210	
0.0012	1	.							
5201	CE1	CE1	. PHE PHE PHE B B 250 250 .	0.1005	0.1104	0.0978	-0.0037	0.0227	-
0.0015	1	.							
5202	CZ	CZ	. PHE PHE PHE B B 250 250 .	0.0959	0.1539	0.1206	0.0070	0.0120	
0.0287	1	.							
5203	CE2	CE2	. PHE PHE PHE B B 250 250 .	0.1341	0.1328	0.1460	0.0238	-0.0202	
0.0105	1	.							
5204	CD2	CD2	. PHE PHE PHE B B 250 250 .	0.1119	0.1102	0.0954	0.0081	-0.0187	
0.0053	1	.							
5205	C	C	. PHE PHE PHE B B 250 250 .	0.1044	0.1217	0.1213	-0.0066	0.0078	
0.0338	1	.							
5206	O	O	. PHE PHE PHE B B 250 250 .	0.1281	0.1278	0.1558	-0.0280	-0.0102	-
0.0006	1	.							
5207	N	N	. TYR TYR TYR B B 251 251 .	0.1265	0.1034	0.1129	-0.0038	-0.0141	
0.0235	1	.							
5208	CA	CA	. TYR TYR TYR B B 251 251 .	0.1163	0.1042	0.1292	0.0002	-0.0228	
0.0211	1	.							
5209	CB	CB	. TYR TYR TYR B B 251 251 .	0.1026	0.1341	0.1225	-0.0008	-0.0188	
0.0219	1	.							
5210	CG	CG	. TYR TYR TYR B B 251 251 .	0.1228	0.1132	0.1220	0.0219	0.0057	-
0.0042	1	.							
5211	CD1	CD1	. TYR TYR TYR B B 251 251 .	0.1479	0.1410	0.1377	-0.0251	-0.0182	
0.0197	1	.							
5212	CE1	CE1	. TYR TYR TYR B B 251 251 .	0.0953	0.1474	0.1679	0.0296	0.0100	
0.0072	1	.							



5243	CA	CA	. LYS LYS LYS B B 255 255 .	0.1379	0.1148	0.1519	-0.0093	0.0024	
0.0246	1	.							
5244	CB	CB	. LYS LYS LYS B B 255 255 .	0.1401	0.1130	0.1624	-0.0027	-0.0005	
0.0106	1	.							
5245	CG	CG	. LYS LYS LYS B B 255 255 .	0.1479	0.1585	0.1546	-0.0246	0.0099	
0.0215	1	.							
5246	CD	CD	. LYS LYS LYS B B 255 255 .	0.1757	0.1990	0.2359	-0.0161	0.0159	
0.0595	1	.							
5247	CE	CE	. LYS LYS LYS B B 255 255 .	0.2401	0.1995	0.3339	-0.0403	0.0584	
0.0539	1	.							
5248	NZ	NZ	. LYS LYS LYS B B 255 255 .	0.2664	0.3417	0.3739	-0.0197	0.0864	-
0.0051	1	.							
5249	C	C	. LYS LYS LYS B B 255 255 .	0.1533	0.1484	0.1381	-0.0098	-0.0007	
0.0135	1	.							
5250	O	O	. LYS LYS LYS B B 255 255 .	0.1459	0.1380	0.1372	-0.0009	0.0048	-
0.0137	1	.							
5251	N	N	. TYR TYR TYR B B 256 256 .	0.1190	0.1290	0.1309	-0.0092	0.0050	
0.0111	1	.							
5252	CA	CA	. TYR TYR TYR B B 256 256 .	0.1396	0.1373	0.1293	0.0085	-0.0258	
0.0144	1	.							
5253	CB	CB	. TYR TYR TYR B B 256 256 .	0.0763	0.1286	0.1210	0.0104	-0.0162	
0.0108	1	.							
5254	CG	CG	. TYR TYR TYR B B 256 256 .	0.0991	0.0978	0.1151	0.0013	-0.0318	
0.0155	1	.							
5255	CD1	CD1	. TYR TYR TYR B B 256 256 .	0.0915	0.1020	0.1156	0.0004	-0.0038	
0.0115	1	.							
5256	CE1	CE1	. TYR TYR TYR B B 256 256 .	0.0802	0.0664	0.0859	-0.0124	-0.0354	-
0.0059	1	.							
5257	CZ	CZ	. TYR TYR TYR B B 256 256 .	0.0780	0.0724	0.1082	0.0021	-0.0052	
0.0033	1	.							
5258	OH	OH	. TYR TYR TYR B B 256 256 .	0.0945	0.0853	0.1129	0.0020	-0.0017	-
0.0128	1	.							
5259	CE2	CE2	. TYR TYR TYR B B 256 256 .	0.1229	0.0894	0.1317	-0.0182	0.0074	
0.0044	1	.							
5260	CD2	CD2	. TYR TYR TYR B B 256 256 .	0.1039	0.0987	0.0861	0.0141	-0.0119	
0.0018	1	.							
5261	C	C	. TYR TYR TYR B B 256 256 .	0.1170	0.1565	0.1254	-0.0076	-0.0139	
0.0096	1	.							
5262	O	O	. TYR TYR TYR B B 256 256 .	0.1351	0.1604	0.1176	-0.0097	-0.0180	-
0.0066	1	.							
5263	N	N	. ASP ASP ASP B B 257 257 .	0.1483	0.2052	0.1595	-0.0043	-0.0202	
0.0154	1	.							
5264	CA	CA	. ASP ASP ASP B B 257 257 .	0.1360	0.1800	0.1527	-0.0026	-0.0128	
0.0033	1	.							
5265	CB	CB	. ASP ASP ASP B B 257 257 .	0.1288	0.1750	0.1800	-0.0164	-0.0432	-
0.0248	1	.							
5266	CG	CG	. ASP ASP ASP B B 257 257 .	0.1192	0.1652	0.1295	-0.0080	-0.0006	
0.0039	1	.							
5267	OD1	OD1	. ASP ASP ASP B B 257 257 .	0.1373	0.1763	0.1730	0.0093	-0.0260	-
0.0255	1	.							
5268	OD2	OD2	. ASP ASP ASP B B 257 257 .	0.1589	0.1699	0.1753	-0.0005	-0.0173	-
0.0143	1	.							
5269	C	C	. ASP ASP ASP B B 257 257 .	0.1047	0.1519	0.1544	0.0012	-0.0176	
0.0075	1	.							
5270	O	O	. ASP ASP ASP B B 257 257 .	0.1253	0.1887	0.1528	0.0008	-0.0192	
0.0138	1	.							
5271	N	N	. LEU LEU LEU B B 258 258 .	0.1738	0.1816	0.1440	-0.0322	-0.0275	-
0.0263	1	.							
5272	CA	CA	. LEU LEU LEU B B 258 258 .	0.1687	0.1853	0.1657	-0.0036	0.0159	-
0.0256	1	.							







5333	C	C	. ASP ASP ASP B B 265 265 .	0.2856	0.2714	0.2981	0.0131	-0.0326	-
0.0187	1	.							
5334	O	O	. ASP ASP ASP B B 265 265 .	0.2401	0.1932	0.3378	0.0454	-0.0455	-
0.0367	1	.							
5335	N	N	. PRO PRO PRO B B 266 266 .	0.2790	0.2791	0.3085	0.0125	-0.0165	-
0.0276	1	.							
5336	CA	CA	. PRO PRO PRO B B 266 266 .	0.2955	0.2837	0.3021	-0.0175	-0.0169	-
0.0310	1	.							
5337	CB	CB	. PRO PRO PRO B B 266 266 .	0.2803	0.2688	0.3069	-0.0170	-0.0361	-
0.0254	1	.							
5338	CG	CG	. PRO PRO PRO B B 266 266 .	0.2949	0.2749	0.3159	-0.0152	-0.0185	-
0.0110	1	.							
5339	CD	CD	. PRO PRO PRO B B 266 266 .	0.2751	0.2682	0.3374	0.0012	-0.0268	-
0.0357	1	.							
5340	C	C	. PRO PRO PRO B B 266 266 .	0.2958	0.2951	0.3293	-0.0164	-0.0104	-
0.0402	1	.							
5341	O	O	. PRO PRO PRO B B 266 266 .	0.2815	0.3182	0.3077	-0.0540	-0.0381	-
0.0379	1	.							
5342	N	N	. SER SER SER B B 267 267 .	0.2915	0.2982	0.3201	-0.0117	-0.0298	-
0.0469	1	.							
5343	CA	CA	. SER SER SER B B 267 267 .	0.2805	0.2922	0.3271	-0.0140	-0.0220	-
0.0244	1	.							
5344	CB	CB	. SER SER SER B B 267 267 .	0.2779	0.3124	0.3561	-0.0345	-0.0386	-
0.0112	1	.							
5345	OG	OG	. SER SER SER B B 267 267 .	0.3004	0.3479	0.3295	0.0127	-0.0513	-
0.0011	1	.							
5346	C	C	. SER SER SER B B 267 267 .	0.2895	0.2684	0.2929	-0.0130	-0.0101	-
0.0143	1	.							
5347	O	O	. SER SER SER B B 267 267 .	0.2983	0.2684	0.2989	-0.0290	0.0111	-
0.0176	1	.							
5348	N	N	. ARG ARG ARG B B 268 268 .	0.2463	0.2013	0.2684	-0.0144	-0.0138	-
0.0111	1	.							
5349	CA	CA	. ARG ARG ARG B B 268 268 .	0.2392	0.2381	0.2241	0.0040	-0.0137	-
0.0252	1	.							
5350	CB	CB	. ARG ARG ARG B B 268 268 .	0.2484	0.2394	0.2480	0.0004	-0.0052	-
0.0149	1	.							
5351	CG	CG	. ARG ARG ARG B B 268 268 .	0.2613	0.1693	0.1815	0.0433	-0.0305	-
0.0580	1	.							
5352	CD	CD	. ARG ARG ARG B B 268 268 .	0.2583	0.2381	0.2131	0.0177	-0.0111	-
0.0732	1	.							
5353	NE	NE	. ARG ARG ARG B B 268 268 .	0.2486	0.2591	0.2509	0.0109	0.0241	-
0.0521	1	.							
5354	CZ	CZ	. ARG ARG ARG B B 268 268 .	0.1429	0.1485	0.2348	-0.0398	-0.0728	-
0.0316	1	.							
5355	NH1	NH1	. ARG ARG ARG B B 268 268 .	0.2235	0.2752	0.3661	-0.0220	-0.0970	-
0.0834	1	.							
5356	NH2	NH2	. ARG ARG ARG B B 268 268 .	0.2533	0.1405	0.2172	0.0419	-0.0791	-
0.0326	1	.							
5357	C	C	. ARG ARG ARG B B 268 268 .	0.1796	0.2195	0.2092	-0.0182	-0.0152	-
0.0123	1	.							
5358	O	O	. ARG ARG ARG B B 268 268 .	0.1784	0.2696	0.2514	-0.0142	-0.0183	-
0.0169	1	.							
5359	N	N	. TYR TYR TYR B B 269 269 .	0.1983	0.2408	0.1883	-0.0443	0.0010	-
0.0217	1	.							
5360	CA	CA	. TYR TYR TYR B B 269 269 .	0.1663	0.1975	0.1586	-0.0445	-0.0058	-
0.0218	1	.							
5361	CB	CB	. TYR TYR TYR B B 269 269 .	0.1766	0.1679	0.1788	-0.0520	-0.0200	-
0.0237	1	.							
5362	CG	CG	. TYR TYR TYR B B 269 269 .	0.1588	0.1217	0.1766	-0.0330	-0.0201	-
0.0069	1	.							



5393	CG	CG	. ASP ASP ASP B B 273 273 .	0.2635	0.2298	0.2695	-0.0010	0.0151	
0.0092	1	.							
5394	OD1	OD1	. ASP ASP ASP B B 273 273 .	0.3055	0.2752	0.3820	-0.0816	0.0548	
0.0120	1	.							
5395	OD2	OD2	. ASP ASP ASP B B 273 273 .	0.3440	0.3066	0.2708	-0.0163	0.0384	-
0.0478	1	.							
5396	C	C	. ASP ASP ASP B B 273 273 .	0.1853	0.1570	0.1572	0.0114	0.0008	
0.0099	1	.							
5397	O	O	. ASP ASP ASP B B 273 273 .	0.1911	0.1488	0.1323	0.0192	0.0009	
0.0050	1	.							
5398	N	N	. GLN GLN GLN B B 274 274 .	0.1544	0.1225	0.1529	0.0072	0.0042	-
0.0012	1	.							
5399	CA	CA	. GLN GLN GLN B B 274 274 .	0.1435	0.1460	0.1605	-0.0008	0.0007	
0.0137	1	.							
5400	CB	CB	. GLN GLN GLN B B 274 274 .	0.1634	0.1447	0.1722	-0.0172	-0.0129	
0.0187	1	.							
5401	CG	CG	. GLN GLN GLN B B 274 274 .	0.2050	0.1808	0.2137	-0.0066	0.0079	
0.0194	1	.							
5402	CD	CD	. GLN GLN GLN B B 274 274 .	0.2468	0.2047	0.2641	-0.0297	0.0279	-
0.0157	1	.							
5403	OE1	OE1	. GLN GLN GLN B B 274 274 .	0.2037	0.1966	0.1908	-0.0122	0.0453	
0.0103	1	.							
5404	NE2	NE2	. GLN GLN GLN B B 274 274 .	0.2561	0.3045	0.3566	-0.0483	0.0221	-
0.0668	1	.							
5405	C	C	. GLN GLN GLN B B 274 274 .	0.1521	0.1285	0.1568	0.0084	0.0250	
0.0025	1	.							
5406	O	O	. GLN GLN GLN B B 274 274 .	0.1566	0.1197	0.1422	0.0098	0.0045	
0.0065	1	.							
5407	N	N	. LEU LEU LEU B B 275 275 .	0.1160	0.1001	0.1373	0.0030	0.0064	-
0.0014	1	.							
5408	CA	CA	. LEU LEU LEU B B 275 275 .	0.1134	0.1330	0.1205	0.0090	0.0182	-
0.0138	1	.							
5409	CB	CB	. LEU LEU LEU B B 275 275 .	0.1384	0.1619	0.1614	0.0326	0.0309	
0.0063	1	.							
5410	CG	CG	. LEU LEU LEU B B 275 275 .	0.1474	0.1891	0.1423	0.0463	0.0160	
0.0220	1	.							
5411	CD1	CD1	. LEU LEU LEU B B 275 275 .	0.1342	0.2172	0.1593	0.0665	0.0180	
0.0843	1	.							
5412	CD2	CD2	. LEU LEU LEU B B 275 275 .	0.1451	0.1947	0.1299	0.0693	0.0139	
0.0023	1	.							
5413	C	C	. LEU LEU LEU B B 275 275 .	0.1469	0.1406	0.1491	0.0090	0.0090	-
0.0053	1	.							
5414	O	O	. LEU LEU LEU B B 275 275 .	0.1361	0.1422	0.1420	0.0138	0.0187	
0.0051	1	.							
5415	N	N	. GLY GLY GLY B B 276 276 .	0.1313	0.1064	0.1124	-0.0209	0.0056	
0.0112	1	.							
5416	CA	CA	. GLY GLY GLY B B 276 276 .	0.1331	0.1040	0.1014	0.0110	0.0011	-
0.0046	1	.							
5417	C	C	. GLY GLY GLY B B 276 276 .	0.1478	0.1252	0.1096	0.0058	0.0182	
0.0079	1	.							
5418	O	O	. GLY GLY GLY B B 276 276 .	0.1606	0.1143	0.1092	0.0013	0.0166	-
0.0043	1	.							
5419	N	N	. ALA ALA ALA B B 277 277 .	0.1356	0.0947	0.1221	0.0186	0.0330	
0.0193	1	.							
5420	CA	CA	. ALA ALA ALA B B 277 277 .	0.1152	0.1163	0.1039	0.0101	0.0206	
0.0124	1	.							
5421	CB	CB	. ALA ALA ALA B B 277 277 .	0.1364	0.1183	0.1534	0.0072	0.0656	
0.0287	1	.							
5422	C	C	. ALA ALA ALA B B 277 277 .	0.1344	0.1118	0.1326	0.0161	0.0188	
0.0051	1	.							

5423	O	O	. ALA ALA ALA B B 277 277 .	0.1830	0.1182	0.1595	0.0099	0.0393	-
0.0002	1	.							
5424	N	N	. LEU LEU LEU B B 278 278 .	0.1118	0.1079	0.1180	0.0132	0.0059	
0.0141	1	.							
5425	CA	CA	. LEU LEU LEU B B 278 278 .	0.0978	0.1119	0.1216	0.0207	-0.0113	
0.0047	1	.							
5426	CB	CB	. LEU LEU LEU B B 278 278 .	0.1196	0.1324	0.1277	0.0136	0.0075	-
0.0051	1	.							
5427	CG	CG	. LEU LEU LEU B B 278 278 .	0.1601	0.1598	0.1503	0.0057	0.0089	-
0.0269	1	.							
5428	CD1	CD1	. LEU LEU LEU B B 278 278 .	0.1353	0.2325	0.2443	0.0135	-0.0523	-
0.0408	1	.							
5429	CD2	CD2	. LEU LEU LEU B B 278 278 .	0.2035	0.1951	0.1320	0.0138	-0.0056	-
0.0742	1	.							
5430	C	C	. LEU LEU LEU B B 278 278 .	0.0969	0.1041	0.1255	0.0204	-0.0075	
0.0039	1	.							
5431	O	O	. LEU LEU LEU B B 278 278 .	0.1519	0.1057	0.1049	0.0299	0.0088	-
0.0075	1	.							
5432	N	N	. TYR TYR TYR B B 279 279 .	0.0937	0.1164	0.1049	0.0077	0.0194	
0.0186	1	.							
5433	CA	CA	. TYR TYR TYR B B 279 279 .	0.0905	0.0986	0.1098	0.0077	-0.0007	-
0.0091	1	.							
5434	CB	CB	. TYR TYR TYR B B 279 279 .	0.1032	0.0998	0.1073	0.0082	-0.0066	-
0.0102	1	.							
5435	CG	CG	. TYR TYR TYR B B 279 279 .	0.0944	0.0812	0.0808	0.0269	0.0043	-
0.0038	1	.							
5436	CD1	CD1	. TYR TYR TYR B B 279 279 .	0.1264	0.0918	0.0966	0.0197	-0.0004	-
0.0206	1	.							
5437	CE1	CE1	. TYR TYR TYR B B 279 279 .	0.1063	0.1044	0.0818	0.0103	-0.0048	-
0.0162	1	.							
5438	CZ	CZ	. TYR TYR TYR B B 279 279 .	0.1260	0.1126	0.0956	0.0155	-0.0091	-
0.0081	1	.							
5439	OH	OH	. TYR TYR TYR B B 279 279 .	0.1352	0.1057	0.0976	0.0182	0.0000	
0.0044	1	.							
5440	CE2	CE2	. TYR TYR TYR B B 279 279 .	0.1045	0.0984	0.0748	0.0106	0.0075	-
0.0237	1	.							
5441	CD2	CD2	. TYR TYR TYR B B 279 279 .	0.1141	0.0755	0.0958	0.0040	0.0161	-
0.0097	1	.							
5442	C	C	. TYR TYR TYR B B 279 279 .	0.1152	0.1062	0.1027	0.0225	0.0133	
0.0001	1	.							
5443	O	O	. TYR TYR TYR B B 279 279 .	0.1161	0.1097	0.1144	0.0063	-0.0007	-
0.0045	1	.							
5444	N	N	. GLN GLN GLN B B 280 280 .	0.1405	0.1149	0.0994	0.0037	0.0179	-
0.0023	1	.							
5445	CA	CA	. GLN GLN GLN B B 280 280 .	0.1395	0.1163	0.1157	0.0184	0.0112	-
0.0063	1	.							
5446	CB	CB	. GLN GLN GLN B B 280 280 .	0.1399	0.1622	0.0981	0.0449	0.0260	-
0.0001	1	.							
5447	CG	CG	. GLN GLN GLN B B 280 280 .	0.2232	0.1715	0.1818	0.0752	-0.0160	-
0.0421	1	.							
5448	CD	CD	. GLN GLN GLN B B 280 280 .	0.4596	0.3861	0.3698	0.0108	-0.0762	-
0.0140	1	.							
5449	OE1	OE1	. GLN GLN GLN B B 280 280 .	0.5776	0.4008	0.4865	0.0062	-0.0187	
0.0346	1	.							
5450	NE2	NE2	. GLN GLN GLN B B 280 280 .	0.5598	0.3728	0.4064	0.0422	-0.0580	
0.0748	1	.							
5451	C	C	. GLN GLN GLN B B 280 280 .	0.1318	0.1244	0.1112	0.0168	0.0222	-
0.0089	1	.							
5452	O	O	. GLN GLN GLN B B 280 280 .	0.1720	0.1123	0.1104	0.0095	0.0085	-
0.0121	1	.							

5453	N	N	. ASP ASP ASP B B 281 281 .	0.1331	0.1483	0.0959	0.0134	0.0105	
0.0099	1	.							
5454	CA	CA	. ASP ASP ASP B B 281 281 .	0.1361	0.1285	0.1413	0.0041	0.0123	
0.0128	1	.							
5455	CB	CB	. ASP ASP ASP B B 281 281 .	0.1374	0.1518	0.1391	0.0063	0.0181	
0.0272	1	.							
5456	CG	CG	. ASP ASP ASP B B 281 281 .	0.2107	0.2043	0.2373	0.0130	-0.0194	
0.0224	1	.							
5457	OD1	OD1	. ASP ASP ASP B B 281 281 .	0.2504	0.2771	0.2474	0.0063	0.0737	
0.0161	1	.							
5458	OD2	OD2	. ASP ASP ASP B B 281 281 .	0.2870	0.2858	0.4477	-0.0760	0.0043	-
0.0148	1	.							
5459	C	C	. ASP ASP ASP B B 281 281 .	0.1421	0.1314	0.1308	0.0016	0.0200	
0.0080	1	.							
5460	O	O	. ASP ASP ASP B B 281 281 .	0.1424	0.1268	0.1352	0.0142	0.0131	-
0.0176	1	.							
5461	N	N	. PHE PHE PHE B B 282 282 .	0.1002	0.1212	0.1063	-0.0117	0.0079	
0.0088	1	.							
5462	CA	CA	. PHE PHE PHE B B 282 282 .	0.1269	0.1148	0.1211	-0.0024	0.0043	
0.0054	1	.							
5463	CB	CB	. PHE PHE PHE B B 282 282 .	0.1208	0.1065	0.1343	-0.0158	0.0130	
0.0075	1	.							
5464	CG	CG	. PHE PHE PHE B B 282 282 .	0.1524	0.1171	0.1183	-0.0093	-0.0020	
0.0529	1	.							
5465	CD1	CD1	. PHE PHE PHE B B 282 282 .	0.2539	0.1104	0.1207	-0.0215	0.0063	
0.0217	1	.							
5466	CE1	CE1	. PHE PHE PHE B B 282 282 .	0.2198	0.1261	0.1476	-0.0111	-0.0176	
0.0222	1	.							
5467	CZ	CZ	. PHE PHE PHE B B 282 282 .	0.2132	0.1364	0.1317	-0.0302	-0.0137	
0.0262	1	.							
5468	CE2	CE2	. PHE PHE PHE B B 282 282 .	0.2413	0.1601	0.1820	0.0224	-0.0285	-
0.0020	1	.							
5469	CD2	CD2	. PHE PHE PHE B B 282 282 .	0.1295	0.1006	0.1314	0.0165	-0.0088	
0.0027	1	.							
5470	C	C	. PHE PHE PHE B B 282 282 .	0.1140	0.0969	0.1076	0.0136	0.0053	-
0.0066	1	.							
5471	O	O	. PHE PHE PHE B B 282 282 .	0.1304	0.1202	0.0991	0.0069	-0.0143	
0.0034	1	.							
5472	N	N	. VAL VAL VAL B B 283 283 .	0.1176	0.1160	0.0863	-0.0021	-0.0029	-
0.0089	1	.							
5473	CA	CA	. VAL VAL VAL B B 283 283 .	0.0936	0.1011	0.0914	0.0119	-0.0080	-
0.0021	1	.							
5474	CB	CB	. VAL VAL VAL B B 283 283 .	0.0819	0.1048	0.0824	0.0070	-0.0099	
0.0067	1	.							
5475	CG1	CG1	. VAL VAL VAL B B 283 283 .	0.1610	0.1312	0.1148	0.0177	-0.0114	-
0.0161	1	.							
5476	CG2	CG2	. VAL VAL VAL B B 283 283 .	0.1313	0.1195	0.1463	0.0283	0.0257	
0.0232	1	.							
5477	C	C	. VAL VAL VAL B B 283 283 .	0.1010	0.0864	0.0978	0.0035	0.0025	
0.0126	1	.							
5478	O	O	. VAL VAL VAL B B 283 283 .	0.1636	0.0893	0.1089	0.0018	0.0070	-
0.0047	1	.							
5479	N	N	. ARG ARG ARG B B 284 284 .	0.1216	0.1147	0.0865	0.0082	0.0170	-
0.0065	1	.							
5480	CA	CA	. ARG ARG ARG B B 284 284 .	0.1201	0.1080	0.1271	0.0150	0.0091	-
0.0077	1	.							
5481	CB	CB	. ARG ARG ARG B B 284 284 .	0.1544	0.1257	0.1206	0.0036	0.0419	-
0.0027	1	.							
5482	CG	CG	. ARG ARG ARG B B 284 284 .	0.1502	0.1321	0.1451	0.0042	-0.0025	-
0.0204	1	.							



5513	CG	CG	. PRO PRO PRO B B 287 287 .	0.1622	0.1248	0.1937	0.0214	0.0103	
0.0374	1	.							
5514	CD	CD	. PRO PRO PRO B B 287 287 .	0.1245	0.1111	0.1294	0.0319	0.0118	
0.0216	1	.							
5515	C	C	. PRO PRO PRO B B 287 287 .	0.1535	0.1135	0.1210	0.0020	0.0269	-
0.0095	1	.							
5516	O	O	. PRO PRO PRO B B 287 287 .	0.1341	0.1063	0.1253	0.0042	0.0215	
0.0045	1	.							
5517	N	N	. VAL VAL VAL B B 288 288 .	0.1430	0.1075	0.1209	0.0079	0.0062	
0.0151	1	.							
5518	CA	CA	. VAL VAL VAL B B 288 288 .	0.1298	0.1125	0.1237	-0.0106	0.0154	
0.0049	1	.							
5519	CB	CB	. VAL VAL VAL B B 288 288 .	0.1340	0.1049	0.1178	0.0182	0.0196	
0.0054	1	.							
5520	CG1	CG1	. VAL VAL VAL B B 288 288 .	0.1503	0.0891	0.1203	0.0435	0.0298	-
0.0107	1	.							
5521	CG2	CG2	. VAL VAL VAL B B 288 288 .	0.1167	0.1416	0.1353	-0.0033	0.0339	
0.0040	1	.							
5522	C	C	. VAL VAL VAL B B 288 288 .	0.1192	0.1000	0.0820	0.0257	0.0134	
0.0077	1	.							
5523	O	O	. VAL VAL VAL B B 288 288 .	0.1679	0.1486	0.1067	0.0090	0.0085	
0.0388	1	.							
5524	N	N	. VAL VAL VAL B B 289 289 .	0.1131	0.0806	0.0923	0.0096	-0.0011	-
0.0043	1	.							
5525	CA	CA	. VAL VAL VAL B B 289 289 .	0.1025	0.0896	0.1108	0.0108	0.0017	
0.0005	1	.							
5526	CB	CB	. VAL VAL VAL B B 289 289 .	0.1535	0.0958	0.1129	0.0148	-0.0042	-
0.0026	1	.							
5527	CG1	CG1	. VAL VAL VAL B B 289 289 .	0.1475	0.1248	0.1539	0.0389	0.0087	-
0.0142	1	.							
5528	CG2	CG2	. VAL VAL VAL B B 289 289 .	0.1633	0.1285	0.1552	0.0040	0.0331	
0.0122	1	.							
5529	C	C	. VAL VAL VAL B B 289 289 .	0.0906	0.1059	0.0738	0.0069	0.0072	-
0.0088	1	.							
5530	O	O	. VAL VAL VAL B B 289 289 .	0.1405	0.0940	0.1098	0.0052	-0.0021	
0.0128	1	.							
5531	N	N	. SER SER SER B B 290 290 .	0.1164	0.0815	0.0869	0.0118	0.0145	-
0.0120	1	.							
5532	CA	CA	. SER SER SER B B 290 290 .	0.1109	0.0836	0.0922	0.0125	-0.0004	
0.0049	1	.							
5533	CB	CB	. SER SER SER B B 290 290 .	0.1538	0.0878	0.1131	-0.0024	0.0188	-
0.0060	1	.							
5534	OG	OG	. SER SER SER B B 290 290 .	0.1353	0.0882	0.1109	0.0128	0.0134	
0.0194	1	.							
5535	C	C	. SER SER SER B B 290 290 .	0.0953	0.0842	0.0819	0.0131	-0.0044	-
0.0041	1	.							
5536	O	O	. SER SER SER B B 290 290 .	0.1136	0.0854	0.0720	0.0026	-0.0193	-
0.0083	1	.							
5537	N	N	. ILE ILE ILE B B 291 291 .	0.0956	0.0843	0.0728	0.0114	0.0024	-
0.0053	1	.							
5538	CA	CA	. ILE ILE ILE B B 291 291 .	0.0931	0.0867	0.0904	-0.0072	0.0123	-
0.0018	1	.							
5539	CB	CB	. ILE ILE ILE B B 291 291 .	0.0696	0.0615	0.0810	-0.0001	0.0225	-
0.0129	1	.							
5540	CG1	CG1	. ILE ILE ILE B B 291 291 .	0.0773	0.1184	0.0948	0.0380	0.0348	
0.0029	1	.							
5541	CD	CD	. ILE ILE ILE B B 291 291 .	0.1356	0.1366	0.0953	0.0139	0.0517	-
0.0117	1	.							
5542	CG2	CG2	. ILE ILE ILE B B 291 291 .	0.1156	0.0739	0.1077	-0.0072	-0.0021	-
0.0351	1	.							



5543	C	C	. ILE ILE ILE B B 291 291 .	0.0893	0.0811	0.0680	0.0012	-0.0162	
0.0066	1	.							
5544	O	O	. ILE ILE ILE B B 291 291 .	0.0940	0.0834	0.0725	-0.0007	-0.0058	-
0.0056	1	.							
5545	N	N	. GLU GLU GLU B B 292 292 .	0.1178	0.0760	0.0760	0.0050	0.0288	-
0.0166	1	.							
5546	CA	CA	. GLU GLU GLU B B 292 292 .	0.0722	0.0811	0.0610	-0.0089	0.0165	-
0.0076	1	.							
5547	CB	CB	. GLU GLU GLU B B 292 292 .	0.0840	0.0921	0.0544	0.0128	0.0090	
0.0104	1	.							
5548	CG	CG	. GLU GLU GLU B B 292 292 .	0.0981	0.0862	0.0610	0.0046	-0.0009	
0.0246	1	.							
5549	CD	CD	. GLU GLU GLU B B 292 292 .	0.0905	0.0957	0.0874	0.0164	-0.0167	
0.0087	1	.							
5550	OE1	OE1	. GLU GLU GLU B B 292 292 .	0.1295	0.0877	0.0928	0.0092	0.0107	-
0.0055	1	.							
5551	OE2	OE2	. GLU GLU GLU B B 292 292 .	0.1459	0.1023	0.1169	0.0105	0.0112	
0.0145	1	.							
5552	C	C	. GLU GLU GLU B B 292 292 .	0.0818	0.0657	0.0801	0.0068	-0.0085	
0.0167	1	.							
5553	O	O	. GLU GLU GLU B B 292 292 .	0.0990	0.0760	0.0771	0.0089	-0.0185	
0.0021	1	.							
5554	N	N	. ASP ASP ASP B B 293 293 .	0.0703	0.0587	0.0697	0.0158	0.0002	
0.0074	1	.							
5555	CA	CA	. ASP ASP ASP B B 293 293 .	0.0907	0.0746	0.0622	0.0031	-0.0065	-
0.0051	1	.							
5556	CB	CB	. ASP ASP ASP B B 293 293 .	0.0811	0.0982	0.0807	-0.0007	0.0074	
0.0047	1	.							
5557	CG	CG	. ASP ASP ASP B B 293 293 .	0.0856	0.0867	0.0763	0.0244	-0.0002	
0.0078	1	.							
5558	OD1	OD1	. ASP ASP ASP B B 293 293 .	0.0992	0.1090	0.0896	-0.0042	0.0071	
0.0049	1	.							
5559	OD2	OD2	. ASP ASP ASP B B 293 293 .	0.1000	0.0981	0.0774	0.0157	0.0058	-
0.0069	1	.							
5560	C	C	. ASP ASP ASP B B 293 293 .	0.0866	0.0606	0.0855	0.0091	0.0001	
0.0007	1	.							
5561	O	O	. ASP ASP ASP B B 293 293 .	0.0878	0.0835	0.0623	-0.0011	0.0015	-
0.0006	1	.							
5562	N	N	. PRO PRO PRO B B 294 294 .	0.0965	0.0680	0.0856	-0.0116	-0.0030	
0.0142	1	.							
5563	CA	CA	. PRO PRO PRO B B 294 294 .	0.1014	0.0751	0.0843	-0.0049	0.0097	-
0.0177	1	.							
5564	CB	CB	. PRO PRO PRO B B 294 294 .	0.1000	0.0879	0.0869	0.0039	-0.0040	-
0.0326	1	.							
5565	CG	CG	. PRO PRO PRO B B 294 294 .	0.1038	0.0752	0.0706	-0.0283	0.0294	
0.0186	1	.							
5566	CD	CD	. PRO PRO PRO B B 294 294 .	0.1306	0.1088	0.0653	-0.0056	-0.0007	
0.0150	1	.							
5567	C	C	. PRO PRO PRO B B 294 294 .	0.0799	0.0718	0.0729	-0.0003	-0.0064	
0.0059	1	.							
5568	O	O	. PRO PRO PRO B B 294 294 .	0.0984	0.0867	0.0914	0.0061	0.0083	-
0.0076	1	.							
5569	N	N	. PHE PHE PHE B B 295 295 .	0.1000	0.0618	0.0912	0.0075	-0.0036	
0.0014	1	.							
5570	CA	CA	. PHE PHE PHE B B 295 295 .	0.1054	0.0670	0.0692	-0.0011	0.0027	-
0.0109	1	.							
5571	CB	CB	. PHE PHE PHE B B 295 295 .	0.1018	0.1148	0.0745	0.0059	0.0008	
0.0138	1	.							
5572	CG	CG	. PHE PHE PHE B B 295 295 .	0.0782	0.0980	0.0977	-0.0027	-0.0107	
0.0099	1	.							



5603	C	C	. ASP ASP ASP B B 298 298 .	0.1084	0.0859	0.0915	-0.0030	0.0088	
0.0065	1	.							
5604	O	O	. ASP ASP ASP B B 298 298 .	0.1008	0.0854	0.0908	0.0221	-0.0081	
0.0068	1	.							
5605	N	N	. ASP ASP ASP B B 299 299 .	0.1064	0.0825	0.0835	0.0004	0.0085	-
0.0045	1	.							
5606	CA	CA	. ASP ASP ASP B B 299 299 .	0.0881	0.0762	0.0854	-0.0154	0.0101	-
0.0013	1	.							
5607	CB	CB	. ASP ASP ASP B B 299 299 .	0.0952	0.0798	0.0817	-0.0019	0.0085	
0.0033	1	.							
5608	CG	CG	. ASP ASP ASP B B 299 299 .	0.1109	0.0912	0.1128	0.0026	-0.0167	-
0.0053	1	.							
5609	OD1	OD1	. ASP ASP ASP B B 299 299 .	0.1029	0.0747	0.0833	0.0003	0.0037	
0.0051	1	.							
5610	OD2	OD2	. ASP ASP ASP B B 299 299 .	0.1190	0.0933	0.1266	0.0115	-0.0010	
0.0168	1	.							
5611	C	C	. ASP ASP ASP B B 299 299 .	0.0809	0.0931	0.0990	-0.0140	0.0071	-
0.0070	1	.							
5612	O	O	. ASP ASP ASP B B 299 299 .	0.1081	0.0935	0.1076	0.0070	0.0016	
0.0066	1	.							
5613	N	N	. TRP TRP TRP B B 300 300 .	0.0901	0.0806	0.0868	0.0126	-0.0044	-
0.0035	1	.							
5614	CA	CA	. TRP TRP TRP B B 300 300 .	0.0802	0.0980	0.1051	0.0130	0.0095	-
0.0059	1	.							
5615	CB	CB	. TRP TRP TRP B B 300 300 .	0.0698	0.1118	0.0879	0.0246	-0.0082	-
0.0105	1	.							
5616	CG	CG	. TRP TRP TRP B B 300 300 .	0.1088	0.0817	0.0991	0.0077	-0.0007	
0.0063	1	.							
5617	CD1	CD1	. TRP TRP TRP B B 300 300 .	0.1404	0.1054	0.1318	0.0114	-0.0120	-
0.0017	1	.							
5618	NE1	NE1	. TRP TRP TRP B B 300 300 .	0.1458	0.1078	0.1473	-0.0050	-0.0174	-
0.0153	1	.							
5619	CE2	CE2	. TRP TRP TRP B B 300 300 .	0.1171	0.0790	0.1167	-0.0093	-0.0097	
0.0121	1	.							
5620	CD2	CD2	. TRP TRP TRP B B 300 300 .	0.1174	0.1042	0.1214	-0.0002	0.0119	
0.0151	1	.							
5621	CE3	CE3	. TRP TRP TRP B B 300 300 .	0.1434	0.1010	0.1084	-0.0128	0.0010	
0.0108	1	.							
5622	CZ3	CZ3	. TRP TRP TRP B B 300 300 .	0.1721	0.1246	0.1102	-0.0384	0.0054	
0.0080	1	.							
5623	CH2	CH2	. TRP TRP TRP B B 300 300 .	0.1182	0.1094	0.1086	-0.0013	-0.0107	
0.0124	1	.							
5624	CZ2	CZ2	. TRP TRP TRP B B 300 300 .	0.1246	0.1160	0.1238	0.0216	0.0092	
0.0062	1	.							
5625	C	C	. TRP TRP TRP B B 300 300 .	0.1050	0.0989	0.1105	0.0005	0.0050	-
0.0083	1	.							
5626	O	O	. TRP TRP TRP B B 300 300 .	0.1202	0.0882	0.0909	-0.0025	0.0061	-
0.0146	1	.							
5627	N	N	. ALA ALA ALA B B 301 301 .	0.1039	0.0846	0.0706	0.0074	0.0084	
0.0063	1	.							
5628	CA	CA	. ALA ALA ALA B B 301 301 .	0.1101	0.0778	0.0866	0.0053	0.0214	
0.0044	1	.							
5629	CB	CB	. ALA ALA ALA B B 301 301 .	0.1066	0.0778	0.0841	-0.0015	0.0045	
0.0080	1	.							
5630	C	C	. ALA ALA ALA B B 301 301 .	0.1082	0.0846	0.0918	-0.0022	0.0038	
0.0119	1	.							
5631	O	O	. ALA ALA ALA B B 301 301 .	0.1199	0.0763	0.0924	-0.0018	-0.0044	
0.0110	1	.							
5632	N	N	. ALA ALA ALA B B 302 302 .	0.0882	0.0942	0.0819	0.0070	0.0018	
0.0124	1	.							

5633	CA	CA	. ALA ALA ALA B B 302 302 .	0.1070	0.0888	0.1038	0.0051	-0.0009	
0.0107	1	.							
5634	CB	CB	. ALA ALA ALA B B 302 302 .	0.0957	0.0711	0.0804	0.0021	-0.0221	-
0.0117	1	.							
5635	C	C	. ALA ALA ALA B B 302 302 .	0.1362	0.0865	0.0925	0.0027	0.0073	
0.0052	1	.							
5636	O	O	. ALA ALA ALA B B 302 302 .	0.1099	0.0933	0.0835	0.0118	0.0140	-
0.0002	1	.							
5637	N	N	. TRP TRP TRP B B 303 303 .	0.1000	0.0776	0.0996	-0.0070	-0.0073	
0.0008	1	.							
5638	CA	CA	. TRP TRP TRP B B 303 303 .	0.1188	0.0824	0.0985	-0.0143	0.0062	-
0.0048	1	.							
5639	CB	CB	. TRP TRP TRP B B 303 303 .	0.0978	0.0729	0.0755	-0.0015	-0.0116	
0.0110	1	.							
5640	CG	CG	. TRP TRP TRP B B 303 303 .	0.1203	0.0711	0.0599	0.0044	-0.0103	-
0.0022	1	.							
5641	CD1	CD1	. TRP TRP TRP B B 303 303 .	0.1097	0.0774	0.0584	0.0092	-0.0132	-
0.0067	1	.							
5642	NE1	NE1	. TRP TRP TRP B B 303 303 .	0.0873	0.0793	0.0846	-0.0020	-0.0014	
0.0116	1	.							
5643	CE2	CE2	. TRP TRP TRP B B 303 303 .	0.0850	0.0557	0.0736	0.0146	-0.0008	
0.0105	1	.							
5644	CD2	CD2	. TRP TRP TRP B B 303 303 .	0.1091	0.0663	0.0888	-0.0011	0.0082	-
0.0063	1	.							
5645	CE3	CE3	. TRP TRP TRP B B 303 303 .	0.1235	0.0527	0.0846	-0.0057	-0.0071	
0.0191	1	.							
5646	CZ3	CZ3	. TRP TRP TRP B B 303 303 .	0.1080	0.1054	0.0754	-0.0135	0.0000	
0.0229	1	.							
5647	CH2	CH2	. TRP TRP TRP B B 303 303 .	0.0769	0.0771	0.0719	-0.0122	-0.0041	-
0.0093	1	.							
5648	CZ2	CZ2	. TRP TRP TRP B B 303 303 .	0.0975	0.0747	0.1136	0.0009	0.0139	
0.0056	1	.							
5649	C	C	. TRP TRP TRP B B 303 303 .	0.1064	0.0938	0.0954	-0.0022	0.0017	
0.0035	1	.							
5650	O	O	. TRP TRP TRP B B 303 303 .	0.1463	0.0820	0.0847	-0.0133	0.0114	-
0.0060	1	.							
5651	N	N	. SER SER SER B B 304 304 .	0.1258	0.0979	0.0783	-0.0049	-0.0073	
0.0116	1	.							
5652	CA	CA	. SER SER SER B B 304 304 .	0.1239	0.1037	0.0956	0.0192	-0.0052	-
0.0019	1	.							
5653	CB	CB	. SER SER SER B B 304 304 .	0.1107	0.1192	0.1129	0.0466	-0.0083	
0.0014	1	.							
5654	OG	OG	. SER SER SER B B 304 304 .	0.1417	0.1424	0.1197	0.0146	0.0081	
0.0107	1	.							
5655	C	C	. SER SER SER B B 304 304 .	0.1202	0.0973	0.0731	0.0053	-0.0046	
0.0038	1	.							
5656	O	O	. SER SER SER B B 304 304 .	0.1535	0.0882	0.1016	-0.0122	0.0042	-
0.0075	1	.							
5657	N	N	. LYS LYS LYS B B 305 305 .	0.1127	0.0960	0.0816	0.0129	0.0108	
0.0019	1	.							
5658	CA	CA	. LYS LYS LYS B B 305 305 .	0.1211	0.1046	0.0903	-0.0018	0.0070	
0.0106	1	.							
5659	CB	CB	. LYS LYS LYS B B 305 305 .	0.1239	0.1196	0.1306	-0.0046	0.0009	
0.0143	1	.							
5660	CG	CG	. LYS LYS LYS B B 305 305 .	0.1935	0.1972	0.1726	-0.0078	0.0296	-
0.0416	1	.							
5661	CD	CD	. LYS LYS LYS B B 305 305 .	0.2025	0.2598	0.2531	-0.0865	0.0663	-
0.0085	1	.							
5662	CE	CE	. LYS LYS LYS B B 305 305 .	0.3546	0.3316	0.3803	-0.1172	0.0859	
0.0109	1	.							



5693	OD1	OD1	. ASN ASN ASN B B 309 309 .	0.4014	0.2844	0.3534	-0.0590	-0.0442	
0.0660	1	.							
5694	ND2	ND2	. ASN ASN ASN B B 309 309 .	0.3074	0.2338	0.3653	-0.0734	0.0865	-
0.0463	1	.							
5695	C	C	. ASN ASN ASN B B 309 309 .	0.1139	0.1075	0.0882	-0.0016	-0.0050	-
0.0201	1	.							
5696	O	O	. ASN ASN ASN B B 309 309 .	0.1465	0.1585	0.1574	-0.0083	0.0112	
0.0099	1	.							
5697	N	N	. VAL VAL VAL B B 310 310 .	0.1417	0.0904	0.0935	-0.0113	-0.0089	-
0.0149	1	.							
5698	CA	CA	. VAL VAL VAL B B 310 310 .	0.1462	0.0972	0.0847	-0.0152	-0.0288	-
0.0129	1	.							
5699	CB	CB	. VAL VAL VAL B B 310 310 .	0.1239	0.1313	0.1050	-0.0168	-0.0199	
0.0144	1	.							
5700	CG1	CG1	. VAL VAL VAL B B 310 310 .	0.1913	0.1752	0.1817	-0.0159	-0.0246	-
0.0148	1	.							
5701	CG2	CG2	. VAL VAL VAL B B 310 310 .	0.2252	0.1087	0.1298	0.0208	-0.0033	
0.0059	1	.							
5702	C	C	. VAL VAL VAL B B 310 310 .	0.1125	0.1082	0.0955	0.0083	-0.0115	-
0.0052	1	.							
5703	O	O	. VAL VAL VAL B B 310 310 .	0.1072	0.1101	0.1187	-0.0009	0.0119	-
0.0121	1	.							
5704	N	N	. GLY GLY GLY B B 311 311 .	0.1405	0.1075	0.0914	-0.0036	-0.0032	-
0.0075	1	.							
5705	CA	CA	. GLY GLY GLY B B 311 311 .	0.1321	0.1269	0.0752	-0.0257	-0.0037	-
0.0067	1	.							
5706	C	C	. GLY GLY GLY B B 311 311 .	0.1217	0.1314	0.0968	-0.0243	-0.0022	
0.0056	1	.							
5707	O	O	. GLY GLY GLY B B 311 311 .	0.1729	0.1255	0.1176	-0.0389	-0.0100	-
0.0039	1	.							
5708	N	N	. ILE ILE ILE B B 312 312 .	0.1186	0.0962	0.0842	-0.0064	0.0023	
0.0055	1	.							
5709	CA	CA	. ILE ILE ILE B B 312 312 .	0.1256	0.1228	0.0943	-0.0102	0.0042	
0.0043	1	.							
5710	CB	CB	. ILE ILE ILE B B 312 312 .	0.0885	0.1156	0.1054	0.0005	-0.0048	
0.0056	1	.							
5711	CG1	CG1	. ILE ILE ILE B B 312 312 .	0.1306	0.1271	0.0983	-0.0072	-0.0248	
0.0080	1	.							
5712	CD	CD	. ILE ILE ILE B B 312 312 .	0.1832	0.1889	0.1147	-0.0183	-0.0435	-
0.0219	1	.							
5713	CG2	CG2	. ILE ILE ILE B B 312 312 .	0.1196	0.1225	0.1275	-0.0020	0.0283	
0.0094	1	.							
5714	C	C	. ILE ILE ILE B B 312 312 .	0.1108	0.0924	0.0926	0.0103	0.0038	
0.0021	1	.							
5715	O	O	. ILE ILE ILE B B 312 312 .	0.1429	0.1105	0.0981	0.0106	0.0116	
0.0120	1	.							
5716	N	N	. GLN GLN GLN B B 313 313 .	0.0976	0.0841	0.0743	-0.0054	0.0089	
0.0070	1	.							
5717	CA	CA	. GLN GLN GLN B B 313 313 .	0.1131	0.0710	0.0859	0.0046	0.0258	
0.0136	1	.							
5718	CB	CB	. GLN GLN GLN B B 313 313 .	0.1091	0.0820	0.0722	0.0128	0.0165	
0.0311	1	.							
5719	CG	CG	. GLN GLN GLN B B 313 313 .	0.1355	0.1103	0.1294	-0.0107	0.0418	
0.0127	1	.							
5720	CD	CD	. GLN GLN GLN B B 313 313 .	0.1305	0.0942	0.0930	-0.0092	0.0105	
0.0111	1	.							
5721	OE1	OE1	. GLN GLN GLN B B 313 313 .	0.1708	0.1438	0.1173	-0.0145	-0.0055	
0.0074	1	.							
5722	NE2	NE2	. GLN GLN GLN B B 313 313 .	0.1270	0.1042	0.1141	0.0133	-0.0173	-
0.0066	1	.							



5753	CA	CA	. ASP ASP ASP B B 318 318 .	0.0785	0.0776	0.0824	0.0131	-0.0113	
0.0007	1	.							
5754	CB	CB	. ASP ASP ASP B B 318 318 .	0.0894	0.0836	0.0764	0.0127	-0.0166	-
0.0043	1	.							
5755	CG	CG	. ASP ASP ASP B B 318 318 .	0.1076	0.1075	0.0781	0.0048	0.0062	-
0.0105	1	.							
5756	OD1	OD1	. ASP ASP ASP B B 318 318 .	0.0972	0.0978	0.0830	0.0178	0.0010	
0.0020	1	.							
5757	OD2	OD2	. ASP ASP ASP B B 318 318 .	0.1176	0.1295	0.1103	0.0142	-0.0107	-
0.0034	1	.							
5758	C	C	. ASP ASP ASP B B 318 318 .	0.1017	0.0825	0.0586	0.0125	0.0137	
0.0142	1	.							
5759	O	O	. ASP ASP ASP B B 318 318 .	0.1062	0.0888	0.0984	0.0066	0.0054	-
0.0001	1	.							
5760	N	N	. LEU LEU LEU B B 319 319 .	0.1164	0.1007	0.0713	-0.0036	-0.0004	
0.0061	1	.							
5761	CA	CA	. LEU LEU LEU B B 319 319 .	0.0724	0.0718	0.0847	0.0151	0.0071	
0.0142	1	.							
5762	CB	CB	. LEU LEU LEU B B 319 319 .	0.0889	0.0998	0.0582	0.0047	-0.0225	-
0.0100	1	.							
5763	CG	CG	. LEU LEU LEU B B 319 319 .	0.1003	0.0749	0.0799	0.0175	-0.0244	
0.0003	1	.							
5764	CD1	CD1	. LEU LEU LEU B B 319 319 .	0.1177	0.0795	0.1037	-0.0092	-0.0041	
0.0067	1	.							
5765	CD2	CD2	. LEU LEU LEU B B 319 319 .	0.1241	0.0886	0.0947	0.0159	0.0048	-
0.0141	1	.							
5766	C	C	. LEU LEU LEU B B 319 319 .	0.0770	0.0891	0.0842	0.0111	-0.0063	
0.0147	1	.							
5767	O	O	. LEU LEU LEU B B 319 319 .	0.1209	0.0806	0.0958	0.0231	0.0226	-
0.0054	1	.							
5768	N	N	. THR THR THR B B 320 320 .	0.0746	0.0728	0.0643	0.0022	0.0101	
0.0087	1	.							
5769	CA	CA	. THR THR THR B B 320 320 .	0.0922	0.0666	0.0899	0.0064	0.0078	
0.0035	1	.							
5770	CB	CB	. THR THR THR B B 320 320 .	0.0920	0.0882	0.0770	0.0124	-0.0155	-
0.0175	1	.							
5771	OG1	OG1	. THR THR THR B B 320 320 .	0.1054	0.0959	0.0920	0.0086	-0.0026	-
0.0035	1	.							
5772	CG2	CG2	. THR THR THR B B 320 320 .	0.0893	0.1243	0.0848	-0.0203	0.0049	
0.0122	1	.							
5773	C	C	. THR THR THR B B 320 320 .	0.0918	0.0794	0.0987	0.0163	0.0040	
0.0140	1	.							
5774	O	O	. THR THR THR B B 320 320 .	0.0924	0.1167	0.0875	0.0129	0.0057	
0.0152	1	.							
5775	N	N	. VAL VAL VAL B B 321 321 .	0.0893	0.0874	0.0637	0.0043	-0.0136	
0.0094	1	.							
5776	CA	CA	. VAL VAL VAL B B 321 321 .	0.0842	0.0788	0.0798	-0.0060	-0.0014	-
0.0125	1	.							
5777	CB	CB	. VAL VAL VAL B B 321 321 .	0.1078	0.0811	0.1091	0.0051	-0.0140	
0.0223	1	.							
5778	CG1	CG1	. VAL VAL VAL B B 321 321 .	0.0876	0.1112	0.1019	0.0030	-0.0009	
0.0126	1	.							
5779	CG2	CG2	. VAL VAL VAL B B 321 321 .	0.1198	0.1299	0.1262	0.0447	-0.0355	
0.0328	1	.							
5780	C	C	. VAL VAL VAL B B 321 321 .	0.0848	0.0976	0.1058	-0.0020	0.0088	
0.0044	1	.							
5781	O	O	. VAL VAL VAL B B 321 321 .	0.1008	0.0953	0.0849	-0.0011	0.0027	
0.0074	1	.							
5782	N	N	. THR THR THR B B 322 322 .	0.0984	0.0940	0.0801	-0.0065	-0.0091	
0.0077	1	.							



5783	CA	CA	. THR THR THR B B 322 322 .	0.0923	0.0941	0.0836	0.0032	-0.0028	
0.0163	1	.							
5784	CB	CB	. THR THR THR B B 322 322 .	0.0954	0.1141	0.0863	-0.0119	0.0238	
0.0259	1	.							
5785	OG1	OG1	. THR THR THR B B 322 322 .	0.1105	0.1043	0.1093	0.0234	0.0047	
0.0103	1	.							
5786	CG2	CG2	. THR THR THR B B 322 322 .	0.0915	0.1200	0.1216	-0.0224	0.0016	-
0.0002	1	.							
5787	C	C	. THR THR THR B B 322 322 .	0.0937	0.0933	0.0896	0.0139	0.0130	
0.0033	1	.							
5788	O	O	. THR THR THR B B 322 322 .	0.1013	0.1156	0.1176	0.0000	-0.0018	
0.0159	1	.							
5789	N	N	. ASN ASN ASN B B 323 323 .	0.0935	0.1034	0.0997	0.0200	0.0044	
0.0098	1	.							
5790	CA	CA	. ASN ASN ASN B B 323 323 .	0.1145	0.1064	0.1116	0.0347	-0.0155	
0.0081	1	.							
5791	CB	CB	. ASN ASN ASN B B 323 323 .	0.1224	0.1002	0.1164	0.0403	-0.0190	-
0.0141	1	.							
5792	CG	CG	. ASN ASN ASN B B 323 323 .	0.1311	0.1475	0.1333	0.0390	-0.0069	-
0.0315	1	.							
5793	OD1	OD1	. ASN ASN ASN B B 323 323 .	0.2182	0.1441	0.1861	0.0666	-0.0497	-
0.0196	1	.							
5794	ND2	ND2	. ASN ASN ASN B B 323 323 .	0.1594	0.1312	0.1271	0.0058	-0.0045	-
0.0194	1	.							
5795	C	C	. ASN ASN ASN B B 323 323 .	0.0985	0.1038	0.1148	0.0157	-0.0035	
0.0007	1	.							
5796	O	O	. ASN ASN ASN B B 323 323 .	0.1109	0.1252	0.1117	0.0305	-0.0036	
0.0129	1	.							
5797	N	N	. PRO PRO PRO B B 324 324 .	0.1151	0.1252	0.1038	-0.0032	0.0046	
0.0154	1	.							
5798	CA	CA	. PRO PRO PRO B B 324 324 .	0.1088	0.1324	0.1228	-0.0113	-0.0062	
0.0100	1	.							
5799	CB	CB	. PRO PRO PRO B B 324 324 .	0.0871	0.1510	0.1245	-0.0019	-0.0141	
0.0331	1	.							
5800	CG	CG	. PRO PRO PRO B B 324 324 .	0.1318	0.1487	0.1507	-0.0091	-0.0254	
0.0308	1	.							
5801	CD	CD	. PRO PRO PRO B B 324 324 .	0.1008	0.1610	0.1241	-0.0141	0.0160	
0.0227	1	.							
5802	C	C	. PRO PRO PRO B B 324 324 .	0.1016	0.1349	0.1175	0.0012	-0.0017	-
0.0063	1	.							
5803	O	O	. PRO PRO PRO B B 324 324 .	0.1204	0.1558	0.1287	0.0082	-0.0162	
0.0122	1	.							
5804	N	N	. LYS LYS LYS B B 325 325 .	0.1133	0.1210	0.1424	0.0183	-0.0032	
0.0192	1	.							
5805	CA	CA	. LYS LYS LYS B B 325 325 .	0.1395	0.1389	0.1544	0.0093	0.0135	
0.0198	1	.							
5806	CB	CB	. LYS LYS LYS B B 325 325 .	0.1579	0.1622	0.2152	0.0448	0.0049	-
0.0021	1	.							
5807	CG	CG	. LYS LYS LYS B B 325 325 .	0.2400	0.2674	0.2914	0.0066	0.0203	
0.0257	1	.							
5808	CD	CD	. LYS LYS LYS B B 325 325 .	0.4494	0.3712	0.3977	-0.0010	-0.0226	-
0.0928	1	.							
5809	CE	CE	. LYS LYS LYS B B 325 325 .	0.5931	0.4452	0.4445	-0.0289	-0.0279	-
0.0713	1	.							
5810	NZ	NZ	. LYS LYS LYS B B 325 325 .	0.6992	0.5021	0.4844	-0.0583	-0.0257	-
0.0940	1	.							
5811	C	C	. LYS LYS LYS B B 325 325 .	0.1375	0.1405	0.1516	0.0246	0.0101	
0.0162	1	.							
5812	O	O	. LYS LYS LYS B B 325 325 .	0.1551	0.1725	0.1406	0.0072	-0.0108	
0.0364	1	.							

5813	N	N	. ARG ARG ARG B B 326 326 .	0.1039	0.1086	0.1289	0.0092	-0.0087	
0.0098	1	.							
5814	CA	CA	. ARG ARG ARG B B 326 326 .	0.1315	0.1218	0.1203	0.0046	-0.0015	-
0.0007	1	.							
5815	CB	CB	. ARG ARG ARG B B 326 326 .	0.1513	0.1241	0.1646	0.0070	-0.0032	-
0.0270	1	.							
5816	CG	CG	. ARG ARG ARG B B 326 326 .	0.2135	0.2178	0.1928	-0.0046	-0.0284	-
0.0734	1	.							
5817	CD	CD	. ARG ARG ARG B B 326 326 .	0.1208	0.2035	0.3499	0.0046	0.0989	-
0.0733	1	.							
5818	NE	NE	. ARG ARG ARG B B 326 326 .	0.0968	0.1227	0.1583	0.0189	0.0109	-
0.0331	1	.							
5819	CZ	CZ	. ARG ARG ARG B B 326 326 .	0.1335	0.1098	0.1425	0.0115	-0.0033	-
0.0003	1	.							
5820	NH1	NH1	. ARG ARG ARG B B 326 326 .	0.1959	0.1023	0.2260	0.0172	-0.0535	-
0.0050	1	.							
5821	NH2	NH2	. ARG ARG ARG B B 326 326 .	0.1495	0.1317	0.1312	0.0225	0.0255	
0.0019	1	.							
5822	C	C	. ARG ARG ARG B B 326 326 .	0.1079	0.1117	0.1139	0.0000	0.0047	
0.0090	1	.							
5823	O	O	. ARG ARG ARG B B 326 326 .	0.1286	0.1116	0.1178	-0.0151	-0.0103	
0.0077	1	.							
5824	N	N	. ILE ILE ILE B B 327 327 .	0.1081	0.0958	0.1160	0.0201	-0.0068	
0.0043	1	.							
5825	CA	CA	. ILE ILE ILE B B 327 327 .	0.1143	0.1053	0.0988	0.0001	-0.0052	
0.0141	1	.							
5826	CB	CB	. ILE ILE ILE B B 327 327 .	0.1237	0.1040	0.1150	-0.0281	-0.0176	
0.0194	1	.							
5827	CG1	CG1	. ILE ILE ILE B B 327 327 .	0.1259	0.1236	0.1047	-0.0080	-0.0003	
0.0297	1	.							
5828	CD	CD	. ILE ILE ILE B B 327 327 .	0.1121	0.1742	0.1627	-0.0086	0.0205	
0.0417	1	.							
5829	CG2	CG2	. ILE ILE ILE B B 327 327 .	0.1508	0.1283	0.1617	-0.0078	0.0212	-
0.0108	1	.							
5830	C	C	. ILE ILE ILE B B 327 327 .	0.1190	0.1176	0.1208	0.0035	-0.0119	-
0.0019	1	.							
5831	O	O	. ILE ILE ILE B B 327 327 .	0.1268	0.1262	0.1210	0.0065	-0.0077	
0.0132	1	.							
5832	N	N	. GLU GLU GLU B B 328 328 .	0.1573	0.1443	0.1392	0.0100	-0.0163	
0.0266	1	.							
5833	CA	CA	. GLU GLU GLU B B 328 328 .	0.1565	0.1664	0.1345	0.0064	-0.0118	
0.0238	1	.							
5834	CB	CB	. GLU GLU GLU B B 328 328 .	0.1408	0.1850	0.1397	0.0082	-0.0396	
0.0373	1	.							
5835	CG	CG	. GLU GLU GLU B B 328 328 .	0.2404	0.2700	0.2485	-0.0077	-0.0278	
0.0640	1	.							
5836	CD	CD	. GLU GLU GLU B B 328 328 .	0.3811	0.5129	0.3543	-0.0034	-0.0558	
0.0076	1	.							
5837	OE1	OE1	. GLU GLU GLU B B 328 328 .	0.4158	0.6080	0.3644	0.0473	-0.0699	
0.0333	1	.							
5838	OE2	OE2	. GLU GLU GLU B B 328 328 .	0.3540	0.5589	0.4234	0.0153	-0.0656	
0.0263	1	.							
5839	C	C	. GLU GLU GLU B B 328 328 .	0.1452	0.1225	0.1314	0.0104	-0.0185	
0.0075	1	.							
5840	O	O	. GLU GLU GLU B B 328 328 .	0.1517	0.1478	0.1444	0.0224	-0.0111	
0.0144	1	.							
5841	N	N	. ARG ARG ARG B B 329 329 .	0.1393	0.1242	0.1309	0.0047	-0.0288	
0.0303	1	.							
5842	CA	CA	. ARG ARG ARG B B 329 329 .	0.1457	0.1103	0.1378	0.0043	-0.0023	
0.0248	1	.							

5843	CB	CB	. ARG ARG ARG B B 329 329 .	0.1523	0.1072	0.1314	0.0069	-0.0029	
0.0234	1	.							
5844	CG	CG	. ARG ARG ARG B B 329 329 .	0.1509	0.1059	0.1487	0.0131	-0.0051	
0.0092	1	.							
5845	CD	CD	. ARG ARG ARG B B 329 329 .	0.1465	0.1356	0.1626	0.0114	0.0212	-
0.0019	1	.							
5846	NE	NE	. ARG ARG ARG B B 329 329 .	0.1529	0.1260	0.1894	-0.0075	-0.0126	
0.0199	1	.							
5847	CZ	CZ	. ARG ARG ARG B B 329 329 .	0.1659	0.1473	0.1456	0.0065	-0.0124	
0.0312	1	.							
5848	NH1	NH1	. ARG ARG ARG B B 329 329 .	0.1703	0.1481	0.1672	0.0425	-0.0129	-
0.0080	1	.							
5849	NH2	NH2	. ARG ARG ARG B B 329 329 .	0.1568	0.1379	0.1800	0.0268	0.0016	
0.0278	1	.							
5850	C	C	. ARG ARG ARG B B 329 329 .	0.1332	0.1101	0.1181	0.0092	0.0142	
0.0286	1	.							
5851	O	O	. ARG ARG ARG B B 329 329 .	0.1461	0.1231	0.1071	0.0256	-0.0064	
0.0265	1	.							
5852	N	N	. ALA ALA ALA B B 330 330 .	0.1366	0.1207	0.1160	0.0234	-0.0108	
0.0033	1	.							
5853	CA	CA	. ALA ALA ALA B B 330 330 .	0.1152	0.1154	0.1195	0.0110	-0.0112	
0.0094	1	.							
5854	CB	CB	. ALA ALA ALA B B 330 330 .	0.1092	0.1172	0.0861	0.0111	-0.0341	
0.0090	1	.							
5855	C	C	. ALA ALA ALA B B 330 330 .	0.1199	0.1152	0.1341	0.0017	-0.0044	-
0.0111	1	.							
5856	O	O	. ALA ALA ALA B B 330 330 .	0.1402	0.1559	0.1060	0.0107	-0.0183	-
0.0011	1	.							
5857	N	N	. VAL VAL VAL B B 331 331 .	0.1307	0.1082	0.1185	0.0147	-0.0223	
0.0054	1	.							
5858	CA	CA	. VAL VAL VAL B B 331 331 .	0.1389	0.1343	0.1283	-0.0050	-0.0105	-
0.0086	1	.							
5859	CB	CB	. VAL VAL VAL B B 331 331 .	0.1405	0.1578	0.1336	-0.0238	-0.0106	
0.0065	1	.							
5860	CG1	CG1	. VAL VAL VAL B B 331 331 .	0.1997	0.1603	0.1719	-0.0009	-0.0033	-
0.0264	1	.							
5861	CG2	CG2	. VAL VAL VAL B B 331 331 .	0.1603	0.1328	0.1361	-0.0379	-0.0082	
0.0046	1	.							
5862	C	C	. VAL VAL VAL B B 331 331 .	0.1418	0.1545	0.1348	-0.0011	-0.0220	-
0.0113	1	.							
5863	O	O	. VAL VAL VAL B B 331 331 .	0.1463	0.1797	0.1530	-0.0067	-0.0141	-
0.0151	1	.							
5864	N	N	. GLU GLU GLU B B 332 332 .	0.1507	0.1551	0.1271	-0.0100	-0.0378	
0.0074	1	.							
5865	CA	CA	. GLU GLU GLU B B 332 332 .	0.1693	0.1412	0.1298	0.0069	-0.0230	
0.0319	1	.							
5866	CB	CB	. GLU GLU GLU B B 332 332 .	0.1986	0.1642	0.1454	0.0289	0.0067	
0.0588	1	.							
5867	CG	CG	. GLU GLU GLU B B 332 332 .	0.2903	0.2646	0.2860	0.0364	-0.0113	
0.0927	1	.							
5868	CD	CD	. GLU GLU GLU B B 332 332 .	0.4686	0.3835	0.5243	0.0364	-0.0032	
0.0412	1	.							
5869	OE1	OE1	. GLU GLU GLU B B 332 332 .	0.5385	0.5370	0.6578	0.0659	0.0062	
0.0352	1	.							
5870	OE2	OE2	. GLU GLU GLU B B 332 332 .	0.5045	0.4684	0.6174	0.1411	0.0120	
0.0113	1	.							
5871	C	C	. GLU GLU GLU B B 332 332 .	0.1616	0.1678	0.1423	0.0319	-0.0172	
0.0160	1	.							
5872	O	O	. GLU GLU GLU B B 332 332 .	0.1863	0.2321	0.1540	0.0200	-0.0313	
0.0341	1	.							

5873	N	N	. GLU GLU GLU B B 333 333 .	0.1445	0.1202	0.1439	0.0164	-0.0237	
0.0266	1	.							
5874	CA	CA	. GLU GLU GLU B B 333 333 .	0.1426	0.1387	0.1547	0.0348	-0.0058	
0.0122	1	.							
5875	CB	CB	. GLU GLU GLU B B 333 333 .	0.1682	0.1207	0.1701	0.0261	0.0166	-
0.0069	1	.							
5876	CG	CG	. GLU GLU GLU B B 333 333 .	0.2047	0.1309	0.1905	0.0456	-0.0308	
0.0030	1	.							
5877	CD	CD	. GLU GLU GLU B B 333 333 .	0.1793	0.1941	0.1560	-0.0137	0.0165	
0.0058	1	.							
5878	OE1	OE1	. GLU GLU GLU B B 333 333 .	0.2309	0.1461	0.1697	0.0098	0.0013	
0.0043	1	.							
5879	OE2	OE2	. GLU GLU GLU B B 333 333 .	0.2016	0.1784	0.1781	0.0312	-0.0134	-
0.0014	1	.							
5880	C	C	. GLU GLU GLU B B 333 333 .	0.1455	0.1318	0.1084	0.0147	-0.0082	
0.0125	1	.							
5881	O	O	. GLU GLU GLU B B 333 333 .	0.1588	0.1369	0.1462	-0.0015	0.0010	-
0.0045	1	.							
5882	N	N	. LYS LYS LYS B B 334 334 .	0.1492	0.1387	0.0876	0.0150	-0.0149	
0.0082	1	.							
5883	CA	CA	. LYS LYS LYS B B 334 334 .	0.1228	0.1427	0.1065	0.0229	0.0096	-
0.0154	1	.							
5884	CB	CB	. LYS LYS LYS B B 334 334 .	0.1434	0.1382	0.0924	0.0026	-0.0016	-
0.0087	1	.							
5885	CG	CG	. LYS LYS LYS B B 334 334 .	0.1857	0.2148	0.1732	0.0004	-0.0211	-
0.0081	1	.							
5886	CD	CD	. LYS LYS LYS B B 334 334 .	0.2115	0.2921	0.1365	-0.0022	-0.0441	-
0.0515	1	.							
5887	CE	CE	. LYS LYS LYS B B 334 334 .	0.3559	0.3704	0.3289	-0.0947	-0.0795	-
0.0647	1	.							
5888	NZ	NZ	. LYS LYS LYS B B 334 334 .	0.4131	0.3940	0.4580	-0.1139	-0.0569	-
0.0523	1	.							
5889	C	C	. LYS LYS LYS B B 334 334 .	0.1215	0.0999	0.1019	-0.0078	0.0016	-
0.0135	1	.							
5890	O	O	. LYS LYS LYS B B 334 334 .	0.1305	0.1135	0.1062	-0.0060	-0.0013	-
0.0079	1	.							
5891	N	N	. ALA ALA ALA B B 335 335 .	0.1164	0.1221	0.0949	-0.0108	-0.0115	-
0.0005	1	.							
5892	CA	CA	. ALA ALA ALA B B 335 335 .	0.1159	0.1046	0.0947	0.0136	-0.0281	-
0.0015	1	.							
5893	CB	CB	. ALA ALA ALA B B 335 335 .	0.1458	0.1297	0.1183	0.0125	0.0096	-
0.0155	1	.							
5894	C	C	. ALA ALA ALA B B 335 335 .	0.1162	0.1042	0.0833	0.0043	-0.0027	-
0.0032	1	.							
5895	O	O	. ALA ALA ALA B B 335 335 .	0.1277	0.1052	0.1124	0.0076	-0.0169	-
0.0174	1	.							
5896	N	N	. CYS CYS CYS B B 336 336 .	0.1299	0.1007	0.0879	-0.0057	-0.0028	
0.0011	1	.							
5897	CA	CA	. CYS CYS CYS B B 336 336 .	0.1006	0.0824	0.0728	-0.0150	-0.0119	
0.0155	1	.							
5898	CB	CB	. CYS CYS CYS B B 336 336 .	0.1096	0.0839	0.0978	-0.0083	0.0009	
0.0167	1	.							
5899	SG	SG	. CYS CYS CYS B B 336 336 .	0.1407	0.1138	0.1229	0.0037	0.0010	
0.0025	1	.							
5900	C	C	. CYS CYS CYS B B 336 336 .	0.1073	0.0885	0.0863	0.0067	-0.0227	
0.0087	1	.							
5901	O	O	. CYS CYS CYS B B 336 336 .	0.1553	0.1107	0.1363	0.0033	-0.0376	
0.0080	1	.							
5902	N	N	. ASN ASN ASN B B 337 337 .	0.1020	0.0899	0.1033	-0.0062	0.0032	
0.0093	1	.							

5903	CA	CA	. ASN ASN ASN B B 337 337 .	0.1156	0.0646	0.0846	0.0025	0.0012	-
0.0114	1	.							
5904	CB	CB	. ASN ASN ASN B B 337 337 .	0.1083	0.0965	0.0861	0.0225	0.0039	-
0.0220	1	.							
5905	CG	CG	. ASN ASN ASN B B 337 337 .	0.1237	0.0734	0.0852	0.0227	0.0019	-
0.0112	1	.							
5906	OD1	OD1	. ASN ASN ASN B B 337 337 .	0.1277	0.1005	0.0908	0.0167	-0.0046	-
0.0026	1	.							
5907	ND2	ND2	. ASN ASN ASN B B 337 337 .	0.1516	0.1456	0.1265	0.0045	0.0234	-
0.0222	1	.							
5908	C	C	. ASN ASN ASN B B 337 337 .	0.0997	0.1047	0.0935	-0.0017	-0.0027	-
0.0129	1	.							
5909	O	O	. ASN ASN ASN B B 337 337 .	0.1435	0.1209	0.1259	-0.0135	0.0018	
0.0036	1	.							
5910	N	N	. CYS CYS CYS B B 338 338 .	0.0997	0.1174	0.0881	0.0085	0.0080	-
0.0081	1	.							
5911	CA	CA	. CYS CYS CYS B B 338 338 .	0.1150	0.0984	0.0884	-0.0018	0.0018	
0.0037	1	.							
5912	CB	CB	. CYS CYS CYS B B 338 338 .	0.1316	0.0863	0.0756	0.0198	-0.0244	
0.0261	1	.							
5913	SG	SG	. CYS CYS CYS B B 338 338 .	0.1310	0.1273	0.1297	-0.0028	-0.0148	
0.0161	1	.							
5914	C	C	. CYS CYS CYS B B 338 338 .	0.1177	0.0877	0.0947	-0.0064	-0.0009	
0.0046	1	.							
5915	O	O	. CYS CYS CYS B B 338 338 .	0.1183	0.0923	0.1018	-0.0202	0.0020	
0.0015	1	.							
5916	N	N	. LEU LEU LEU B B 339 339 .	0.0905	0.0863	0.0702	0.0140	-0.0021	
0.0007	1	.							
5917	CA	CA	. LEU LEU LEU B B 339 339 .	0.0925	0.0980	0.0818	0.0121	0.0091	
0.0132	1	.							
5918	CB	CB	. LEU LEU LEU B B 339 339 .	0.0917	0.1196	0.0812	-0.0102	-0.0032	-
0.0133	1	.							
5919	CG	CG	. LEU LEU LEU B B 339 339 .	0.0914	0.0875	0.0961	0.0043	-0.0063	-
0.0138	1	.							
5920	CD1	CD1	. LEU LEU LEU B B 339 339 .	0.1425	0.0958	0.0944	0.0065	-0.0160	-
0.0250	1	.							
5921	CD2	CD2	. LEU LEU LEU B B 339 339 .	0.0951	0.1305	0.1318	0.0011	0.0157	-
0.0021	1	.							
5922	C	C	. LEU LEU LEU B B 339 339 .	0.1225	0.1066	0.0736	-0.0038	0.0124	-
0.0031	1	.							
5923	O	O	. LEU LEU LEU B B 339 339 .	0.1241	0.1036	0.0831	-0.0085	-0.0122	-
0.0013	1	.							
5924	N	N	. LEU LEU LEU B B 340 340 .	0.0941	0.0961	0.0679	0.0047	-0.0143	
0.0134	1	.							
5925	CA	CA	. LEU LEU LEU B B 340 340 .	0.1015	0.0841	0.0799	-0.0104	-0.0032	
0.0148	1	.							
5926	CB	CB	. LEU LEU LEU B B 340 340 .	0.0824	0.0684	0.0797	-0.0120	-0.0331	
0.0123	1	.							
5927	CG	CG	. LEU LEU LEU B B 340 340 .	0.0966	0.0653	0.1045	0.0111	-0.0248	-
0.0065	1	.							
5928	CD1	CD1	. LEU LEU LEU B B 340 340 .	0.1117	0.0894	0.1089	0.0244	-0.0075	
0.0082	1	.							
5929	CD2	CD2	. LEU LEU LEU B B 340 340 .	0.0852	0.0812	0.1367	-0.0135	0.0006	-
0.0394	1	.							
5930	C	C	. LEU LEU LEU B B 340 340 .	0.0975	0.0874	0.0859	0.0176	-0.0015	
0.0101	1	.							
5931	O	O	. LEU LEU LEU B B 340 340 .	0.1180	0.0962	0.0974	0.0016	-0.0004	
0.0065	1	.							
5932	N	N	. LEU LEU LEU B B 341 341 .	0.0742	0.0880	0.0806	0.0001	0.0056	
0.0114	1	.							

5933	CA	CA	. LEU LEU LEU B B	341 341	. 0.0995 0.1006 0.0769 -0.0043 0.0073	-
0.0041	1	.				
5934	CB	CB	. LEU LEU LEU B B	341 341	. 0.0844 0.0745 0.1271 0.0077 0.0198	-
0.0103	1	.				
5935	CG	CG	. LEU LEU LEU B B	341 341	. 0.0952 0.1072 0.1289 0.0141 -0.0041	
0.0298	1	.				
5936	CD1	CD1	. LEU LEU LEU B B	341 341	. 0.1633 0.1740 0.1618 0.0081 -0.0430	
0.0366	1	.				
5937	CD2	CD2	. LEU LEU LEU B B	341 341	. 0.1438 0.1429 0.1852 -0.0230 0.0024	
0.0181	1	.				
5938	C	C	. LEU LEU LEU B B	341 341	. 0.1167 0.0919 0.0749 0.0044 0.0028	
0.0033	1	.				
5939	O	O	. LEU LEU LEU B B	341 341	. 0.1084 0.0990 0.0916 0.0242 0.0077	-
0.0035	1	.				
5940	N	N	. LYS LYS LYS B B	342 342	. 0.1077 0.0810 0.0734 0.0032 -0.0010	
0.0038	1	.				
5941	CA	CA	. LYS LYS LYS B B	342 342	. 0.1162 0.1049 0.0874 -0.0080 0.0001	
0.0095	1	.				
5942	CB	CB	. LYS LYS LYS B B	342 342	. 0.1135 0.1007 0.0866 0.0010 -0.0125	-
0.0185	1	.				
5943	CG	CG	. LYS LYS LYS B B	342 342	. 0.0974 0.1267 0.1048 0.0107 -0.0119	-
0.0040	1	.				
5944	CD	CD	. LYS LYS LYS B B	342 342	. 0.1027 0.1207 0.1291 -0.0084 0.0273	
0.0075	1	.				
5945	CE	CE	. LYS LYS LYS B B	342 342	. 0.1349 0.1287 0.1445 0.0133 0.0090	
0.0256	1	.				
5946	NZ	NZ	. LYS LYS LYS B B	342 342	. 0.1352 0.1642 0.1386 -0.0104 -0.0020	-
0.0261	1	.				
5947	C	C	. LYS LYS LYS B B	342 342	. 0.1255 0.0958 0.1002 0.0099 0.0072	
0.0079	1	.				
5948	O	O	. LYS LYS LYS B B	342 342	. 0.1253 0.1109 0.0970 0.0263 0.0008	
0.0050	1	.				
5949	N	N	. VAL VAL VAL B B	343 343	. 0.1187 0.1172 0.1085 -0.0002 -0.0038	
0.0147	1	.				
5950	CA	CA	. VAL VAL VAL B B	343 343	. 0.1154 0.1074 0.1190 -0.0057 0.0002	
0.0180	1	.				
5951	CB	CB	. VAL VAL VAL B B	343 343	. 0.1146 0.1216 0.1240 -0.0134 -0.0033	
0.0255	1	.				
5952	CG1	CG1	. VAL VAL VAL B B	343 343	. 0.2012 0.1327 0.1499 0.0165 0.0018	-
0.0204	1	.				
5953	CG2	CG2	. VAL VAL VAL B B	343 343	. 0.1406 0.1273 0.1177 -0.0012 -0.0132	
0.0235	1	.				
5954	C	C	. VAL VAL VAL B B	343 343	. 0.1103 0.1120 0.1146 0.0117 0.0028	
0.0056	1	.				
5955	O	O	. VAL VAL VAL B B	343 343	. 0.1003 0.1136 0.1200 0.0150 -0.0023	-
0.0115	1	.				
5956	N	N	. ASN ASN ASN B B	344 344	. 0.1112 0.0997 0.1047 0.0100 0.0001	
0.0012	1	.				
5957	CA	CA	. ASN ASN ASN B B	344 344	. 0.1187 0.0937 0.0918 0.0178 -0.0178	
0.0076	1	.				
5958	CB	CB	. ASN ASN ASN B B	344 344	. 0.0989 0.1227 0.0922 0.0029 -0.0166	
0.0085	1	.				
5959	CG	CG	. ASN ASN ASN B B	344 344	. 0.1127 0.0658 0.0729 0.0019 0.0041	
0.0219	1	.				
5960	OD1	OD1	. ASN ASN ASN B B	344 344	. 0.1000 0.0936 0.1135 0.0183 0.0164	-
0.0135	1	.				
5961	ND2	ND2	. ASN ASN ASN B B	344 344	. 0.1334 0.1093 0.1221 -0.0010 -0.0416	
0.0086	1	.				
5962	C	C	. ASN ASN ASN B B	344 344	. 0.0935 0.0918 0.0979 0.0035 0.0052	-
0.0050	1	.				

5963	O	O	. ASN ASN ASN B B 344 344 .	0.1332	0.0932	0.0978	0.0126	0.0101	-
0.0003	1	.							
5964	N	N	. GLN GLN GLN B B 345 345 .	0.0950	0.0832	0.0841	0.0128	0.0066	
0.0238	1	.							
5965	CA	CA	. GLN GLN GLN B B 345 345 .	0.1032	0.0770	0.1008	0.0185	0.0308	
0.0251	1	.							
5966	CB	CB	. GLN GLN GLN B B 345 345 .	0.0755	0.1022	0.0866	0.0070	0.0300	
0.0006	1	.							
5967	CG	CG	. GLN GLN GLN B B 345 345 .	0.0883	0.0795	0.0779	0.0008	0.0038	
0.0184	1	.							
5968	CD	CD	. GLN GLN GLN B B 345 345 .	0.1043	0.1087	0.1001	0.0139	-0.0074	-
0.0036	1	.							
5969	OE1	OE1	. GLN GLN GLN B B 345 345 .	0.1513	0.1308	0.1366	-0.0013	0.0020	-
0.0023	1	.							
5970	NE2	NE2	. GLN GLN GLN B B 345 345 .	0.0652	0.0552	0.0673	0.0239	-0.0084	
0.0097	1	.							
5971	C	C	. GLN GLN GLN B B 345 345 .	0.0929	0.0789	0.0933	-0.0072	0.0062	-
0.0005	1	.							
5972	O	O	. GLN GLN GLN B B 345 345 .	0.1235	0.1033	0.1053	0.0044	-0.0099	
0.0054	1	.							
5973	N	N	. ILE ILE ILE B B 346 346 .	0.0740	0.1022	0.1110	0.0108	0.0060	-
0.0015	1	.							
5974	CA	CA	. ILE ILE ILE B B 346 346 .	0.1045	0.1124	0.1118	0.0240	-0.0018	
0.0040	1	.							
5975	CB	CB	. ILE ILE ILE B B 346 346 .	0.1400	0.1144	0.1157	0.0150	-0.0394	
0.0041	1	.							
5976	CG1	CG1	. ILE ILE ILE B B 346 346 .	0.1034	0.1342	0.1211	0.0256	-0.0186	
0.0291	1	.							
5977	CD	CD	. ILE ILE ILE B B 346 346 .	0.1329	0.1356	0.1583	-0.0059	0.0053	
0.0026	1	.							
5978	CG2	CG2	. ILE ILE ILE B B 346 346 .	0.1011	0.0833	0.1192	0.0187	0.0041	-
0.0149	1	.							
5979	C	C	. ILE ILE ILE B B 346 346 .	0.0860	0.0837	0.0969	0.0147	0.0010	
0.0075	1	.							
5980	O	O	. ILE ILE ILE B B 346 346 .	0.1270	0.1136	0.1138	0.0247	0.0072	
0.0118	1	.							
5981	N	N	. GLY GLY GLY B B 347 347 .	0.1140	0.1218	0.1087	0.0134	0.0144	
0.0151	1	.							
5982	CA	CA	. GLY GLY GLY B B 347 347 .	0.1119	0.1325	0.1115	0.0130	0.0187	-
0.0031	1	.							
5983	C	C	. GLY GLY GLY B B 347 347 .	0.1174	0.1017	0.0995	-0.0002	0.0114	-
0.0017	1	.							
5984	O	O	. GLY GLY GLY B B 347 347 .	0.1070	0.1339	0.1246	0.0104	0.0148	-
0.0112	1	.							
5985	N	N	. SER SER SER B B 348 348 .	0.0891	0.1005	0.1090	-0.0007	0.0108	
0.0004	1	.							
5986	CA	CA	. SER SER SER B B 348 348 .	0.1083	0.1038	0.1299	-0.0015	0.0024	
0.0015	1	.							
5987	CB	CB	. SER SER SER B B 348 348 .	0.1011	0.1362	0.1131	0.0157	-0.0058	
0.0113	1	.							
5988	OG	OG	. SER SER SER B B 348 348 .	0.1244	0.1319	0.1424	0.0139	-0.0204	
0.0149	1	.							
5989	C	C	. SER SER SER B B 348 348 .	0.1085	0.0983	0.1051	0.0094	0.0024	
0.0072	1	.							
5990	O	O	. SER SER SER B B 348 348 .	0.1074	0.1166	0.1135	0.0094	0.0004	
0.0168	1	.							
5991	N	N	. VAL VAL VAL B B 349 349 .	0.1304	0.1028	0.1127	0.0050	-0.0112	
0.0106	1	.							
5992	CA	CA	. VAL VAL VAL B B 349 349 .	0.1316	0.1125	0.1121	0.0061	-0.0008	-
0.0006	1	.							

5993	CB	CB	. VAL VAL VAL B B	349 349	. 0.1244 0.1140 0.1194 0.0073 -0.0064
0.0184	1	.			
5994	CG1	CG1	. VAL VAL VAL B B	349 349	. 0.1526 0.1578 0.1859 -0.0047 -0.0204 -
0.0163	1	.			
5995	CG2	CG2	. VAL VAL VAL B B	349 349	. 0.1792 0.1182 0.1064 0.0096 0.0045
0.0084	1	.			
5996	C	C	. VAL VAL VAL B B	349 349	. 0.1016 0.1298 0.1203 0.0080 0.0024
0.0115	1	.			
5997	O	O	. VAL VAL VAL B B	349 349	. 0.1243 0.1372 0.1237 0.0281 -0.0160
0.0113	1	.			
5998	N	N	. THR THR THR B B	350 350	. 0.1156 0.1208 0.1365 0.0145 -0.0042
0.0002	1	.			
5999	CA	CA	. THR THR THR B B	350 350	. 0.1189 0.1429 0.1327 0.0100 0.0086
0.0110	1	.			
6000	CB	CB	. THR THR THR B B	350 350	. 0.1125 0.1379 0.1414 0.0159 0.0023
0.0248	1	.			
6001	OG1	OG1	. THR THR THR B B	350 350	. 0.1112 0.1681 0.1532 0.0027 0.0023
0.0213	1	.			
6002	CG2	CG2	. THR THR THR B B	350 350	. 0.1713 0.1830 0.1740 0.0320 -0.0017
0.0374	1	.			
6003	C	C	. THR THR THR B B	350 350	. 0.1242 0.1168 0.1247 0.0077 -0.0063
0.0063	1	.			
6004	O	O	. THR THR THR B B	350 350	. 0.1250 0.1382 0.1284 0.0108 0.0177
0.0112	1	.			
6005	N	N	. GLU GLU GLU B B	351 351	. 0.1014 0.1170 0.1274 -0.0079 -0.0121
0.0109	1	.			
6006	CA	CA	. GLU GLU GLU B B	351 351	. 0.1101 0.1190 0.1211 0.0059 -0.0127
0.0037	1	.			
6007	CB	CB	. GLU GLU GLU B B	351 351	. 0.1047 0.1107 0.1415 0.0046 0.0061 -
0.0070	1	.			
6008	CG	CG	. GLU GLU GLU B B	351 351	. 0.1265 0.1235 0.1485 0.0033 0.0322
0.0032	1	.			
6009	CD	CD	. GLU GLU GLU B B	351 351	. 0.1212 0.1480 0.1341 0.0055 -0.0091
0.0060	1	.			
6010	OE1	OE1	. GLU GLU GLU B B	351 351	. 0.1535 0.1447 0.1369 0.0150 -0.0026 -
0.0079	1	.			
6011	OE2	OE2	. GLU GLU GLU B B	351 351	. 0.1810 0.1656 0.2090 0.0111 0.0050
0.0455	1	.			
6012	C	C	. GLU GLU GLU B B	351 351	. 0.1293 0.1332 0.1324 0.0000 0.0048
0.0156	1	.			
6013	O	O	. GLU GLU GLU B B	351 351	. 0.1272 0.1354 0.1090 0.0041 -0.0083 -
0.0053	1	.			
6014	N	N	. ALA ALA ALA B B	352 352	. 0.1040 0.1337 0.1310 0.0039 -0.0124
0.0069	1	.			
6015	CA	CA	. ALA ALA ALA B B	352 352	. 0.1116 0.1108 0.1127 0.0216 -0.0107
0.0050	1	.			
6016	CB	CB	. ALA ALA ALA B B	352 352	. 0.1352 0.1167 0.1002 0.0175 -0.0037 -
0.0112	1	.			
6017	C	C	. ALA ALA ALA B B	352 352	. 0.1144 0.1036 0.1268 0.0131 0.0000
0.0129	1	.			
6018	O	O	. ALA ALA ALA B B	352 352	. 0.1176 0.1410 0.1065 0.0122 -0.0074
0.0037	1	.			
6019	N	N	. ILE ILE ILE B B	353 353	. 0.1171 0.1391 0.1302 -0.0168 -0.0012 -
0.0005	1	.			
6020	CA	CA	. ILE ILE ILE B B	353 353	. 0.1165 0.1210 0.1041 -0.0113 0.0020
0.0101	1	.			
6021	CB	CB	. ILE ILE ILE B B	353 353	. 0.1136 0.1465 0.1294 -0.0130 -0.0011
0.0020	1	.			
6022	CG1	CG1	. ILE ILE ILE B B	353 353	. 0.1431 0.1485 0.1645 -0.0432 -0.0163
0.0113	1	.			



6023	CD	CD	. ILE ILE ILE B B 353 353 .	0.1861	0.1714	0.1862	-0.0838	0.0054	
0.0040	1	.							
6024	CG2	CG2	. ILE ILE ILE B B 353 353 .	0.1316	0.1580	0.1833	-0.0389	-0.0088	-
0.0272	1	.							
6025	C	C	. ILE ILE ILE B B 353 353 .	0.1242	0.1149	0.1257	0.0078	0.0021	
0.0158	1	.							
6026	O	O	. ILE ILE ILE B B 353 353 .	0.1285	0.1327	0.1201	0.0173	-0.0218	
0.0004	1	.							
6027	N	N	. GLN GLN GLN B B 354 354 .	0.1012	0.1209	0.1283	-0.0079	0.0049	
0.0011	1	.							
6028	CA	CA	. GLN GLN GLN B B 354 354 .	0.1340	0.1270	0.1191	0.0007	-0.0013	
0.0033	1	.							
6029	CB	CB	. GLN GLN GLN B B 354 354 .	0.1371	0.1290	0.1670	0.0257	-0.0083	
0.0337	1	.							
6030	CG	CG	. GLN GLN GLN B B 354 354 .	0.2547	0.2469	0.2497	0.0489	0.0127	
0.0398	1	.							
6031	CD	CD	. GLN GLN GLN B B 354 354 .	0.3361	0.2981	0.3624	0.0780	-0.0093	
0.0186	1	.							
6032	OE1	OE1	. GLN GLN GLN B B 354 354 .	0.3680	0.4618	0.4283	0.1650	-0.0146	-
0.0352	1	.							
6033	NE2	NE2	. GLN GLN GLN B B 354 354 .	0.3385	0.3436	0.3240	0.0223	-0.0228	
0.0423	1	.							
6034	C	C	. GLN GLN GLN B B 354 354 .	0.1516	0.1476	0.1493	-0.0002	-0.0169	
0.0089	1	.							
6035	O	O	. GLN GLN GLN B B 354 354 .	0.1199	0.1560	0.1385	-0.0012	-0.0128	
0.0151	1	.							
6036	N	N	. ALA ALA ALA B B 355 355 .	0.1223	0.1252	0.1350	0.0158	-0.0184	
0.0072	1	.							
6037	CA	CA	. ALA ALA ALA B B 355 355 .	0.1260	0.1104	0.1323	0.0097	-0.0028	-
0.0014	1	.							
6038	CB	CB	. ALA ALA ALA B B 355 355 .	0.1073	0.1115	0.1017	0.0334	-0.0223	-
0.0093	1	.							
6039	C	C	. ALA ALA ALA B B 355 355 .	0.1042	0.1243	0.1054	0.0058	0.0249	
0.0132	1	.							
6040	O	O	. ALA ALA ALA B B 355 355 .	0.1163	0.1283	0.0953	-0.0037	-0.0151	
0.0092	1	.							
6041	N	N	. CYS CYS CYS B B 356 356 .	0.1113	0.1054	0.1254	-0.0012	-0.0095	
0.0062	1	.							
6042	CA	CA	. CYS CYS CYS B B 356 356 .	0.1159	0.1157	0.1030	0.0034	0.0000	
0.0141	1	.							
6043	CB	CB	. CYS CYS CYS B B 356 356 .	0.1223	0.1245	0.1417	0.0022	0.0240	
0.0095	1	.							
6044	SG	SG	. CYS CYS CYS B B 356 356 .	0.1584	0.1325	0.1342	0.0000	-0.0071	
0.0154	1	.							
6045	C	C	. CYS CYS CYS B B 356 356 .	0.1402	0.1244	0.1397	0.0161	0.0021	-
0.0030	1	.							
6046	O	O	. CYS CYS CYS B B 356 356 .	0.1494	0.1224	0.1187	0.0222	-0.0044	
0.0183	1	.							
6047	N	N	. LYS LYS LYS B B 357 357 .	0.1219	0.1222	0.1193	-0.0040	-0.0320	-
0.0018	1	.							
6048	CA	CA	. LYS LYS LYS B B 357 357 .	0.1422	0.1754	0.1374	-0.0009	-0.0174	-
0.0067	1	.							
6049	CB	CB	. LYS LYS LYS B B 357 357 .	0.1336	0.1752	0.1346	-0.0178	-0.0166	
0.0160	1	.							
6050	CG	CG	. LYS LYS LYS B B 357 357 .	0.1733	0.1952	0.2217	-0.0465	-0.0164	
0.0402	1	.							
6051	CD	CD	. LYS LYS LYS B B 357 357 .	0.2279	0.2896	0.2738	-0.0580	-0.0254	
0.0250	1	.							
6052	CE	CE	. LYS LYS LYS B B 357 357 .	0.2825	0.4159	0.3329	-0.0718	-0.1055	
0.0651	1	.							

6053	NZ	NZ	. LYS LYS LYS B B 357 357 .	0.3120	0.4319	0.3663	-0.0846	-0.0830	
0.0755	1	.							
6054	C	C	. LYS LYS LYS B B 357 357 .	0.1427	0.1191	0.1250	0.0215	-0.0259	-
0.0023	1	.							
6055	O	O	. LYS LYS LYS B B 357 357 .	0.1751	0.1761	0.1307	-0.0059	-0.0246	
0.0103	1	.							
6056	N	N	. LEU LEU LEU B B 358 358 .	0.1130	0.1354	0.1482	0.0126	-0.0172	
0.0128	1	.							
6057	CA	CA	. LEU LEU LEU B B 358 358 .	0.1644	0.1369	0.1340	0.0083	-0.0117	
0.0121	1	.							
6058	CB	CB	. LEU LEU LEU B B 358 358 .	0.1585	0.1483	0.1567	-0.0067	-0.0185	
0.0174	1	.							
6059	CG	CG	. LEU LEU LEU B B 358 358 .	0.1517	0.1620	0.1601	0.0119	-0.0376	
0.0220	1	.							
6060	CD1	CD1	. LEU LEU LEU B B 358 358 .	0.2425	0.2044	0.2100	0.0018	-0.1274	-
0.0058	1	.							
6061	CD2	CD2	. LEU LEU LEU B B 358 358 .	0.2184	0.1602	0.2005	-0.0033	-0.0131	-
0.0296	1	.							
6062	C	C	. LEU LEU LEU B B 358 358 .	0.1638	0.1528	0.1380	0.0060	-0.0197	
0.0101	1	.							
6063	O	O	. LEU LEU LEU B B 358 358 .	0.1643	0.1820	0.1155	0.0103	-0.0253	
0.0043	1	.							
6064	N	N	. ALA ALA ALA B B 359 359 .	0.1152	0.1288	0.1277	0.0143	-0.0198	
0.0003	1	.							
6065	CA	CA	. ALA ALA ALA B B 359 359 .	0.1301	0.1400	0.1246	0.0113	-0.0260	
0.0020	1	.							
6066	CB	CB	. ALA ALA ALA B B 359 359 .	0.1252	0.1532	0.0995	0.0238	-0.0298	
0.0015	1	.							
6067	C	C	. ALA ALA ALA B B 359 359 .	0.1485	0.1189	0.1160	-0.0008	0.0063	-
0.0025	1	.							
6068	O	O	. ALA ALA ALA B B 359 359 .	0.1550	0.1655	0.1106	0.0095	-0.0200	
0.0027	1	.							
6069	N	N	. GLN GLN GLN B B 360 360 .	0.1487	0.1270	0.1210	0.0007	-0.0064	
0.0072	1	.							
6070	CA	CA	. GLN GLN GLN B B 360 360 .	0.1471	0.1397	0.1384	0.0042	-0.0070	
0.0011	1	.							
6071	CB	CB	. GLN GLN GLN B B 360 360 .	0.1579	0.1206	0.1420	-0.0120	-0.0274	-
0.0021	1	.							
6072	CG	CG	. GLN GLN GLN B B 360 360 .	0.1938	0.1562	0.1670	-0.0086	-0.0383	
0.0104	1	.							
6073	CD	CD	. GLN GLN GLN B B 360 360 .	0.1768	0.1533	0.1596	0.0064	-0.0078	-
0.0024	1	.							
6074	OE1	OE1	. GLN GLN GLN B B 360 360 .	0.2035	0.1750	0.1670	-0.0010	0.0060	
0.0169	1	.							
6075	NE2	NE2	. GLN GLN GLN B B 360 360 .	0.1958	0.1590	0.1848	0.0111	-0.0340	-
0.0247	1	.							
6076	C	C	. GLN GLN GLN B B 360 360 .	0.1586	0.1480	0.1379	-0.0065	-0.0065	-
0.0067	1	.							
6077	O	O	. GLN GLN GLN B B 360 360 .	0.1791	0.1686	0.1317	0.0000	-0.0261	-
0.0266	1	.							
6078	N	N	. GLU GLU GLU B B 361 361 .	0.1383	0.1566	0.1249	-0.0192	-0.0190	-
0.0014	1	.							
6079	CA	CA	. GLU GLU GLU B B 361 361 .	0.1673	0.1943	0.1359	-0.0209	-0.0242	
0.0003	1	.							
6080	CB	CB	. GLU GLU GLU B B 361 361 .	0.1368	0.2943	0.1624	-0.0158	-0.0249	
0.0176	1	.							
6081	CG	CG	. GLU GLU GLU B B 361 361 .	0.2834	0.3495	0.3333	-0.0200	-0.0247	
0.0385	1	.							
6082	CD	CD	. GLU GLU GLU B B 361 361 .	0.3974	0.4948	0.4880	0.0174	0.0050	
0.0263	1	.							

6083	OE1	OE1	. GLU GLU GLU B B 361 361 .	0.3571	0.5142	0.6017	0.1068	-0.0734	
0.0850	1	.							
6084	OE2	OE2	. GLU GLU GLU B B 361 361 .	0.4243	0.5903	0.4944	-0.0290	-0.0212	
0.0684	1	.							
6085	C	C	. GLU GLU GLU B B 361 361 .	0.1923	0.1757	0.1504	-0.0378	-0.0402	
0.0136	1	.							
6086	O	O	. GLU GLU GLU B B 361 361 .	0.2088	0.2384	0.1529	-0.0263	-0.0577	
0.0002	1	.							
6087	N	N	. ASN ASN ASN B B 362 362 .	0.1516	0.1695	0.1439	-0.0202	-0.0238	
0.0075	1	.							
6088	CA	CA	. ASN ASN ASN B B 362 362 .	0.1777	0.1576	0.1443	-0.0104	-0.0250	
0.0116	1	.							
6089	CB	CB	. ASN ASN ASN B B 362 362 .	0.1436	0.1494	0.1351	-0.0225	-0.0268	
0.0113	1	.							
6090	CG	CG	. ASN ASN ASN B B 362 362 .	0.1891	0.1454	0.1644	-0.0109	-0.0327	
0.0075	1	.							
6091	OD1	OD1	. ASN ASN ASN B B 362 362 .	0.2933	0.2318	0.1378	-0.0127	-0.0465	
0.0600	1	.							
6092	ND2	ND2	. ASN ASN ASN B B 362 362 .	0.2979	0.2182	0.1811	-0.0031	-0.0179	
0.0313	1	.							
6093	C	C	. ASN ASN ASN B B 362 362 .	0.1922	0.1922	0.1389	-0.0108	-0.0363	
0.0080	1	.							
6094	O	O	. ASN ASN ASN B B 362 362 .	0.2338	0.2485	0.1966	-0.0349	-0.0175	
0.0230	1	.							
6095	N	N	. GLY GLY GLY B B 363 363 .	0.1967	0.1750	0.1306	-0.0121	-0.0521	-
0.0048	1	.							
6096	CA	CA	. GLY GLY GLY B B 363 363 .	0.2088	0.2281	0.1772	0.0001	-0.0424	-
0.0070	1	.							
6097	C	C	. GLY GLY GLY B B 363 363 .	0.1746	0.2016	0.1569	0.0137	-0.0344	-
0.0257	1	.							
6098	O	O	. GLY GLY GLY B B 363 363 .	0.1734	0.2745	0.1599	0.0015	-0.0277	-
0.0401	1	.							
6099	N	N	. TRP TRP TRP B B 364 364 .	0.1657	0.1369	0.1402	-0.0150	-0.0152	-
0.0074	1	.							
6100	CA	CA	. TRP TRP TRP B B 364 364 .	0.1331	0.1207	0.1046	0.0111	-0.0190	-
0.0042	1	.							
6101	CB	CB	. TRP TRP TRP B B 364 364 .	0.1450	0.1035	0.1243	0.0048	-0.0332	-
0.0076	1	.							
6102	CG	CG	. TRP TRP TRP B B 364 364 .	0.1429	0.1329	0.1034	-0.0176	-0.0126	-
0.0029	1	.							
6103	CD1	CD1	. TRP TRP TRP B B 364 364 .	0.1536	0.1562	0.1428	-0.0165	-0.0206	-
0.0220	1	.							
6104	NE1	NE1	. TRP TRP TRP B B 364 364 .	0.1563	0.1296	0.1313	0.0047	-0.0345	-
0.0102	1	.							
6105	CE2	CE2	. TRP TRP TRP B B 364 364 .	0.1684	0.1123	0.1182	0.0383	-0.0109	-
0.0046	1	.							
6106	CD2	CD2	. TRP TRP TRP B B 364 364 .	0.1330	0.1084	0.1184	0.0158	-0.0110	-
0.0157	1	.							
6107	CE3	CE3	. TRP TRP TRP B B 364 364 .	0.1160	0.1253	0.1115	0.0437	-0.0059	-
0.0287	1	.							
6108	CZ3	CZ3	. TRP TRP TRP B B 364 364 .	0.1557	0.1069	0.1362	0.0011	0.0100	-
0.0023	1	.							
6109	CH2	CH2	. TRP TRP TRP B B 364 364 .	0.1580	0.1095	0.1240	0.0282	-0.0294	-
0.0281	1	.							
6110	CZ2	CZ2	. TRP TRP TRP B B 364 364 .	0.1365	0.1409	0.1261	0.0104	-0.0163	-
0.0069	1	.							
6111	C	C	. TRP TRP TRP B B 364 364 .	0.1365	0.1069	0.1182	-0.0137	0.0091	-
0.0165	1	.							
6112	O	O	. TRP TRP TRP B B 364 364 .	0.1570	0.1540	0.1623	-0.0338	-0.0014	-
0.0014	1	.							

6113	N	N	. GLY GLY GLY B B 365 365 .	0.1296	0.1023	0.0778	0.0126	-0.0065	
0.0089	1	.							
6114	CA	CA	. GLY GLY GLY B B 365 365 .	0.1448	0.0881	0.0906	-0.0026	-0.0054	-
0.0022	1	.							
6115	C	C	. GLY GLY GLY B B 365 365 .	0.1121	0.0988	0.1060	0.0001	-0.0150	-
0.0038	1	.							
6116	O	O	. GLY GLY GLY B B 365 365 .	0.1304	0.1134	0.0999	-0.0112	-0.0184	
0.0045	1	.							
6117	N	N	. VAL VAL VAL B B 366 366 .	0.1014	0.1026	0.1012	-0.0059	-0.0041	-
0.0021	1	.							
6118	CA	CA	. VAL VAL VAL B B 366 366 .	0.1056	0.1062	0.0913	0.0048	-0.0021	
0.0016	1	.							
6119	CB	CB	. VAL VAL VAL B B 366 366 .	0.0902	0.1480	0.0883	0.0110	0.0049	
0.0020	1	.							
6120	CG1	CG1	. VAL VAL VAL B B 366 366 .	0.1275	0.1254	0.0657	0.0195	-0.0004	
0.0133	1	.							
6121	CG2	CG2	. VAL VAL VAL B B 366 366 .	0.1478	0.1342	0.0920	0.0157	-0.0105	
0.0155	1	.							
6122	C	C	. VAL VAL VAL B B 366 366 .	0.1070	0.1041	0.0998	0.0034	-0.0056	
0.0001	1	.							
6123	O	O	. VAL VAL VAL B B 366 366 .	0.1109	0.1075	0.1189	-0.0178	-0.0090	
0.0114	1	.							
6124	N	N	. MET MET MET B B 367 367 .	0.0822	0.0852	0.0842	-0.0145	-0.0146	
0.0165	1	.							
6125	CA	CA	. MET MET MET B B 367 367 .	0.0990	0.0753	0.0822	0.0011	-0.0019	
0.0209	1	.							
6126	CB	CB	. MET MET MET B B 367 367 .	0.0918	0.0964	0.0906	0.0025	-0.0185	-
0.0076	1	.							
6127	CG	CG	. MET MET MET B B 367 367 .	0.0657	0.1153	0.0702	-0.0117	-0.0152	
0.0196	1	.							
6128	SD	SD	. MET MET MET B B 367 367 .	0.1130	0.1138	0.1052	-0.0042	0.0005	-
0.0039	1	.							
6129	CE	CE	. MET MET MET B B 367 367 .	0.1634	0.1926	0.1371	-0.0206	0.0284	-
0.0475	1	.							
6130	C	C	. MET MET MET B B 367 367 .	0.0937	0.0696	0.0702	-0.0124	-0.0121	
0.0020	1	.							
6131	O	O	. MET MET MET B B 367 367 .	0.1242	0.0817	0.0932	0.0104	-0.0200	
0.0051	1	.							
6132	N	N	. VAL VAL VAL B B 368 368 .	0.1036	0.0722	0.0730	-0.0071	-0.0124	
0.0000	1	.							
6133	CA	CA	. VAL VAL VAL B B 368 368 .	0.0851	0.1005	0.0893	0.0071	-0.0089	
0.0036	1	.							
6134	CB	CB	. VAL VAL VAL B B 368 368 .	0.0827	0.0846	0.0845	-0.0036	0.0010	-
0.0041	1	.							
6135	CG1	CG1	. VAL VAL VAL B B 368 368 .	0.1214	0.1081	0.0889	0.0004	0.0144	-
0.0108	1	.							
6136	CG2	CG2	. VAL VAL VAL B B 368 368 .	0.1002	0.0958	0.1254	0.0022	-0.0361	-
0.0023	1	.							
6137	C	C	. VAL VAL VAL B B 368 368 .	0.0869	0.0769	0.0952	0.0102	-0.0105	-
0.0077	1	.							
6138	O	O	. VAL VAL VAL B B 368 368 .	0.1049	0.1034	0.0888	0.0176	-0.0024	
0.0087	1	.							
6139	N	N	. SER SER SER B B 369 369 .	0.0700	0.0643	0.0648	-0.0159	-0.0169	-
0.0031	1	.							
6140	CA	CA	. SER SER SER B B 369 369 .	0.0671	0.0870	0.0742	-0.0142	0.0005	
0.0103	1	.							
6141	CB	CB	. SER SER SER B B 369 369 .	0.1101	0.0779	0.0937	-0.0254	-0.0308	
0.0162	1	.							
6142	OG	OG	. SER SER SER B B 369 369 .	0.1015	0.1000	0.0925	-0.0057	-0.0037	
0.0097	1	.							

6143	C	C	. SER SER SER B B 369 369 .	0.0895	0.0792	0.0847	0.0063	0.0005	
0.0102	1	.							
6144	O	O	. SER SER SER B B 369 369 .	0.0980	0.1190	0.0942	0.0197	-0.0068	-
0.0039	1	.							
6145	N	N	. HIS HIS HIS B B 370 370 .	0.0824	0.0859	0.0596	-0.0003	-0.0115	
0.0121	1	.							
6146	CA	CA	. HIS HIS HIS B B 370 370 .	0.0999	0.0854	0.0727	0.0128	-0.0090	-
0.0063	1	.							
6147	CB	CB	. HIS HIS HIS B B 370 370 .	0.1173	0.0925	0.0885	0.0264	0.0175	-
0.0039	1	.							
6148	CG	CG	. HIS HIS HIS B B 370 370 .	0.0672	0.0735	0.0903	0.0209	-0.0232	
0.0046	1	.							
6149	ND1	ND1	. HIS HIS HIS B B 370 370 .	0.0804	0.0790	0.0921	0.0186	-0.0199	
0.0042	1	.							
6150	CE1	CE1	. HIS HIS HIS B B 370 370 .	0.1499	0.0675	0.1194	-0.0142	-0.0017	
0.0054	1	.							
6151	NE2	NE2	. HIS HIS HIS B B 370 370 .	0.0884	0.1123	0.0877	0.0214	-0.0080	-
0.0048	1	.							
6152	CD2	CD2	. HIS HIS HIS B B 370 370 .	0.0518	0.0759	0.1163	-0.0120	0.0036	
0.0088	1	.							
6153	C	C	. HIS HIS HIS B B 370 370 .	0.0727	0.0899	0.0638	-0.0164	0.0032	-
0.0111	1	.							
6154	O	O	. HIS HIS HIS B B 370 370 .	0.1079	0.0889	0.0990	-0.0041	0.0020	
0.0009	1	.							
6155	N	N	. ARG ARG ARG B B 371 371 .	0.0854	0.0883	0.0592	-0.0048	-0.0003	-
0.0117	1	.							
6156	CA	CA	. ARG ARG ARG B B 371 371 .	0.0687	0.0687	0.0826	0.0107	0.0008	-
0.0066	1	.							
6157	CB	CB	. ARG ARG ARG B B 371 371 .	0.0659	0.0916	0.0778	0.0144	0.0156	-
0.0057	1	.							
6158	CG	CG	. ARG ARG ARG B B 371 371 .	0.0607	0.0795	0.0569	0.0047	0.0025	
0.0044	1	.							
6159	CD	CD	. ARG ARG ARG B B 371 371 .	0.0652	0.0712	0.0625	-0.0092	0.0176	
0.0157	1	.							
6160	NE	NE	. ARG ARG ARG B B 371 371 .	0.0959	0.0619	0.0907	0.0172	-0.0079	
0.0238	1	.							
6161	CZ	CZ	. ARG ARG ARG B B 371 371 .	0.0803	0.0668	0.0990	0.0075	-0.0133	
0.0045	1	.							
6162	NH1	NH1	. ARG ARG ARG B B 371 371 .	0.0941	0.0896	0.0861	-0.0018	0.0144	-
0.0012	1	.							
6163	NH2	NH2	. ARG ARG ARG B B 371 371 .	0.0917	0.0890	0.1010	-0.0028	-0.0016	
0.0139	1	.							
6164	C	C	. ARG ARG ARG B B 371 371 .	0.0984	0.0829	0.0620	-0.0024	0.0043	
0.0190	1	.							
6165	O	O	. ARG ARG ARG B B 371 371 .	0.0923	0.0674	0.0910	0.0045	-0.0046	
0.0069	1	.							
6166	N	N	. SER SER SER B B 372 372 .	0.0802	0.0844	0.0917	0.0042	0.0017	-
0.0146	1	.							
6167	CA	CA	. SER SER SER B B 372 372 .	0.0843	0.0914	0.0789	0.0048	0.0047	
0.0080	1	.							
6168	CB	CB	. SER SER SER B B 372 372 .	0.0912	0.0815	0.1020	-0.0009	-0.0008	
0.0062	1	.							
6169	OG	OG	. SER SER SER B B 372 372 .	0.0776	0.1069	0.0808	0.0039	0.0070	-
0.0178	1	.							
6170	C	C	. SER SER SER B B 372 372 .	0.0895	0.0816	0.0856	0.0152	-0.0127	-
0.0043	1	.							
6171	O	O	. SER SER SER B B 372 372 .	0.0827	0.0860	0.0827	0.0138	-0.0184	-
0.0030	1	.							
6172	N	N	. GLY GLY GLY B B 373 373 .	0.0954	0.0784	0.0699	-0.0089	0.0063	-
0.0071	1	.							



6203	CB	CB	. ASP ASP ASP B B 377 377 .	0.0992	0.1178	0.1422	-0.0049	-0.0239	
0.0081	1	.							
6204	CG	CG	. ASP ASP ASP B B 377 377 .	0.1184	0.1631	0.1340	0.0362	-0.0016	-
0.0079	1	.							
6205	OD1	OD1	. ASP ASP ASP B B 377 377 .	0.1410	0.1593	0.1549	-0.0078	0.0000	-
0.0237	1	.							
6206	OD2	OD2	. ASP ASP ASP B B 377 377 .	0.1244	0.1574	0.1967	-0.0249	0.0251	-
0.0358	1	.							
6207	C	C	. ASP ASP ASP B B 377 377 .	0.0988	0.1064	0.0979	-0.0087	-0.0006	
0.0108	1	.							
6208	O	O	. ASP ASP ASP B B 377 377 .	0.1165	0.1371	0.1393	-0.0155	0.0089	-
0.0063	1	.							
6209	N	N	. THR THR THR B B 378 378 .	0.1157	0.0946	0.0775	-0.0068	-0.0016	-
0.0159	1	.							
6210	CA	CA	. THR THR THR B B 378 378 .	0.0908	0.0971	0.0730	0.0089	-0.0065	
0.0000	1	.							
6211	CB	CB	. THR THR THR B B 378 378 .	0.1071	0.1069	0.0981	-0.0009	-0.0186	-
0.0002	1	.							
6212	OG1	OG1	. THR THR THR B B 378 378 .	0.1402	0.1423	0.1343	0.0146	-0.0009	
0.0031	1	.							
6213	CG2	CG2	. THR THR THR B B 378 378 .	0.1187	0.1072	0.1106	0.0045	-0.0450	-
0.0026	1	.							
6214	C	C	. THR THR THR B B 378 378 .	0.0948	0.0971	0.0964	-0.0116	-0.0017	
0.0088	1	.							
6215	O	O	. THR THR THR B B 378 378 .	0.1111	0.1024	0.1056	-0.0042	0.0001	-
0.0001	1	.							
6216	N	N	. PHE PHE PHE B B 379 379 .	0.0754	0.1043	0.0966	0.0021	-0.0003	-
0.0059	1	.							
6217	CA	CA	. PHE PHE PHE B B 379 379 .	0.0957	0.0811	0.0795	0.0063	-0.0131	-
0.0162	1	.							
6218	CB	CB	. PHE PHE PHE B B 379 379 .	0.0861	0.0934	0.1086	0.0409	-0.0091	
0.0145	1	.							
6219	CG	CG	. PHE PHE PHE B B 379 379 .	0.1295	0.1215	0.1304	0.0148	-0.0091	-
0.0115	1	.							
6220	CD1	CD1	. PHE PHE PHE B B 379 379 .	0.1478	0.1727	0.1442	0.0378	-0.0074	
0.0063	1	.							
6221	CE1	CE1	. PHE PHE PHE B B 379 379 .	0.1453	0.1618	0.1377	0.0332	-0.0035	-
0.0065	1	.							
6222	CZ	CZ	. PHE PHE PHE B B 379 379 .	0.1513	0.1636	0.1692	-0.0094	-0.0159	-
0.0409	1	.							
6223	CE2	CE2	. PHE PHE PHE B B 379 379 .	0.1287	0.1573	0.1958	0.0082	-0.0155	-
0.0016	1	.							
6224	CD2	CD2	. PHE PHE PHE B B 379 379 .	0.1295	0.1255	0.1730	0.0324	-0.0153	
0.0205	1	.							
6225	C	C	. PHE PHE PHE B B 379 379 .	0.0917	0.0862	0.0828	-0.0043	-0.0050	-
0.0131	1	.							
6226	O	O	. PHE PHE PHE B B 379 379 .	0.1061	0.1011	0.0992	-0.0200	-0.0140	-
0.0024	1	.							
6227	N	N	. ILE ILE ILE B B 380 380 .	0.0923	0.0883	0.0976	0.0108	0.0079	-
0.0057	1	.							
6228	CA	CA	. ILE ILE ILE B B 380 380 .	0.0917	0.0852	0.0830	-0.0039	-0.0112	-
0.0007	1	.							
6229	CB	CB	. ILE ILE ILE B B 380 380 .	0.0784	0.0775	0.1146	0.0160	-0.0240	
0.0244	1	.							
6230	CG1	CG1	. ILE ILE ILE B B 380 380 .	0.0728	0.0948	0.0920	-0.0017	-0.0260	
0.0149	1	.							
6231	CD	CD	. ILE ILE ILE B B 380 380 .	0.1210	0.1192	0.0696	-0.0250	0.0098	
0.0008	1	.							
6232	CG2	CG2	. ILE ILE ILE B B 380 380 .	0.1054	0.0614	0.1335	0.0277	-0.0363	
0.0010	1	.							

6233	C	C	. ILE ILE ILE B B 380 380 .	0.0941	0.0949	0.0935	0.0003	0.0107	
0.0129	1	.							
6234	O	O	. ILE ILE ILE B B 380 380 .	0.1198	0.1122	0.1048	0.0027	-0.0297	-
0.0066	1	.							
6235	N	N	. ALA ALA ALA B B 381 381 .	0.1038	0.0702	0.0958	-0.0022	-0.0177	-
0.0082	1	.							
6236	CA	CA	. ALA ALA ALA B B 381 381 .	0.0775	0.0796	0.0961	-0.0029	0.0008	-
0.0005	1	.							
6237	CB	CB	. ALA ALA ALA B B 381 381 .	0.1429	0.1026	0.0959	0.0126	0.0043	
0.0217	1	.							
6238	C	C	. ALA ALA ALA B B 381 381 .	0.1275	0.0871	0.1210	0.0043	-0.0053	
0.0037	1	.							
6239	O	O	. ALA ALA ALA B B 381 381 .	0.1035	0.0986	0.0992	-0.0013	0.0011	
0.0087	1	.							
6240	N	N	. ASP ASP ASP B B 382 382 .	0.1090	0.0959	0.1111	-0.0034	-0.0147	
0.0031	1	.							
6241	CA	CA	. ASP ASP ASP B B 382 382 .	0.0872	0.1038	0.1142	-0.0068	-0.0048	
0.0067	1	.							
6242	CB	CB	. ASP ASP ASP B B 382 382 .	0.1165	0.1116	0.1246	-0.0216	0.0148	
0.0271	1	.							
6243	CG	CG	. ASP ASP ASP B B 382 382 .	0.1896	0.1576	0.1407	-0.0022	-0.0198	
0.0217	1	.							
6244	OD1	OD1	. ASP ASP ASP B B 382 382 .	0.1323	0.1696	0.1629	-0.0083	-0.0111	
0.0419	1	.							
6245	OD2	OD2	. ASP ASP ASP B B 382 382 .	0.1449	0.1760	0.2032	0.0043	0.0030	
0.0248	1	.							
6246	C	C	. ASP ASP ASP B B 382 382 .	0.0938	0.0964	0.0897	-0.0242	-0.0102	
0.0064	1	.							
6247	O	O	. ASP ASP ASP B B 382 382 .	0.1400	0.1001	0.1016	-0.0071	-0.0227	-
0.0007	1	.							
6248	N	N	. LEU LEU LEU B B 383 383 .	0.1164	0.0753	0.1070	-0.0056	-0.0061	
0.0123	1	.							
6249	CA	CA	. LEU LEU LEU B B 383 383 .	0.1075	0.0934	0.0861	0.0041	0.0047	-
0.0086	1	.							
6250	CB	CB	. LEU LEU LEU B B 383 383 .	0.1216	0.0882	0.1286	0.0021	-0.0306	-
0.0022	1	.							
6251	CG	CG	. LEU LEU LEU B B 383 383 .	0.1112	0.0831	0.1114	0.0114	0.0029	
0.0065	1	.							
6252	CD1	CD1	. LEU LEU LEU B B 383 383 .	0.1202	0.1075	0.1201	0.0223	0.0139	
0.0022	1	.							
6253	CD2	CD2	. LEU LEU LEU B B 383 383 .	0.1331	0.1320	0.1343	-0.0254	-0.0001	
0.0124	1	.							
6254	C	C	. LEU LEU LEU B B 383 383 .	0.1077	0.0907	0.0964	0.0153	-0.0070	-
0.0165	1	.							
6255	O	O	. LEU LEU LEU B B 383 383 .	0.1341	0.1145	0.1229	-0.0190	-0.0182	-
0.0031	1	.							
6256	N	N	. VAL VAL VAL B B 384 384 .	0.0938	0.0957	0.0950	-0.0067	-0.0030	
0.0026	1	.							
6257	CA	CA	. VAL VAL VAL B B 384 384 .	0.0986	0.0887	0.0976	0.0031	0.0048	
0.0026	1	.							
6258	CB	CB	. VAL VAL VAL B B 384 384 .	0.0892	0.0985	0.0955	0.0132	0.0094	
0.0250	1	.							
6259	CG1	CG1	. VAL VAL VAL B B 384 384 .	0.1322	0.0925	0.1060	0.0307	0.0199	
0.0383	1	.							
6260	CG2	CG2	. VAL VAL VAL B B 384 384 .	0.1324	0.1316	0.0764	-0.0110	0.0169	-
0.0126	1	.							
6261	C	C	. VAL VAL VAL B B 384 384 .	0.1184	0.0956	0.0902	-0.0197	-0.0096	
0.0124	1	.							
6262	O	O	. VAL VAL VAL B B 384 384 .	0.1479	0.1097	0.1103	-0.0078	-0.0013	
0.0126	1	.							



6263	N	N	. VAL VAL VAL B B 385 385 .	0.1583	0.0826	0.1082	-0.0071	-0.0160	
0.0026	1	.							
6264	CA	CA	. VAL VAL VAL B B 385 385 .	0.1370	0.1011	0.1077	-0.0173	-0.0194	
0.0108	1	.							
6265	CB	CB	. VAL VAL VAL B B 385 385 .	0.1153	0.0707	0.0957	-0.0021	-0.0218	
0.0000	1	.							
6266	CG1	CG1	. VAL VAL VAL B B 385 385 .	0.1493	0.1002	0.1251	-0.0457	-0.0243	-
0.0354	1	.							
6267	CG2	CG2	. VAL VAL VAL B B 385 385 .	0.0981	0.1292	0.1369	0.0103	-0.0204	
0.0201	1	.							
6268	C	C	. VAL VAL VAL B B 385 385 .	0.1306	0.1049	0.1159	-0.0158	-0.0038	-
0.0097	1	.							
6269	O	O	. VAL VAL VAL B B 385 385 .	0.1655	0.1507	0.1289	-0.0263	-0.0176	
0.0019	1	.							
6270	N	N	. GLY GLY GLY B B 386 386 .	0.1111	0.1234	0.1423	-0.0119	0.0027	
0.0150	1	.							
6271	CA	CA	. GLY GLY GLY B B 386 386 .	0.0933	0.1316	0.1508	-0.0175	-0.0328	
0.0121	1	.							
6272	C	C	. GLY GLY GLY B B 386 386 .	0.1028	0.1312	0.1490	-0.0167	-0.0296	
0.0268	1	.							
6273	O	O	. GLY GLY GLY B B 386 386 .	0.1225	0.1634	0.1489	-0.0187	-0.0477	
0.0079	1	.							
6274	N	N	. LEU LEU LEU B B 387 387 .	0.1109	0.1219	0.1278	-0.0198	-0.0099	
0.0310	1	.							
6275	CA	CA	. LEU LEU LEU B B 387 387 .	0.1308	0.1278	0.1251	-0.0088	-0.0203	
0.0097	1	.							
6276	CB	CB	. LEU LEU LEU B B 387 387 .	0.1693	0.1366	0.1408	-0.0041	-0.0239	-
0.0017	1	.							
6277	CG	CG	. LEU LEU LEU B B 387 387 .	0.1196	0.1759	0.1585	-0.0165	-0.0234	
0.0022	1	.							
6278	CD1	CD1	. LEU LEU LEU B B 387 387 .	0.2440	0.1780	0.1205	-0.0501	-0.0376	
0.0335	1	.							
6279	CD2	CD2	. LEU LEU LEU B B 387 387 .	0.1529	0.1581	0.2150	0.0085	-0.0270	
0.0184	1	.							
6280	C	C	. LEU LEU LEU B B 387 387 .	0.1462	0.1276	0.1337	-0.0031	-0.0146	
0.0081	1	.							
6281	O	O	. LEU LEU LEU B B 387 387 .	0.1903	0.1563	0.1458	0.0049	-0.0172	
0.0164	1	.							
6282	N	N	. CYS CYS CYS B B 388 388 .	0.1513	0.1383	0.1632	-0.0081	0.0057	-
0.0015	1	.							
6283	CA	CA	. CYS CYS CYS B B 388 388 .	0.1652	0.1636	0.1632	-0.0098	-0.0060	-
0.0028	1	.							
6284	CB	CB	. CYS CYS CYS B B 388 388 .	0.2024	0.1851	0.2077	-0.0252	0.0058	-
0.0317	1	.							
6285	SG	SG	. CYS CYS CYS B B 388 388 .	0.3713	0.3466	0.3688	-0.0563	-0.0208	-
0.0103	1	.							
6286	C	C	. CYS CYS CYS B B 388 388 .	0.1864	0.1583	0.1415	-0.0093	-0.0044	
0.0092	1	.							
6287	O	O	. CYS CYS CYS B B 388 388 .	0.2000	0.1972	0.1605	-0.0201	-0.0191	
0.0116	1	.							
6288	N	N	. THR THR THR B B 389 389 .	0.1594	0.1293	0.1198	-0.0084	0.0039	
0.0016	1	.							
6289	CA	CA	. THR THR THR B B 389 389 .	0.1565	0.1373	0.1463	-0.0231	-0.0084	-
0.0044	1	.							
6290	CB	CB	. THR THR THR B B 389 389 .	0.1461	0.1279	0.1327	-0.0129	-0.0270	-
0.0047	1	.							
6291	OG1	OG1	. THR THR THR B B 389 389 .	0.1295	0.1447	0.1193	-0.0129	-0.0440	
0.0269	1	.							
6292	CG2	CG2	. THR THR THR B B 389 389 .	0.1756	0.1312	0.1714	0.0294	-0.0103	
0.0228	1	.							

6293	C	C	. THR THR THR B B 389 389 .	0.1555	0.1370	0.1207	-0.0016	-0.0138	
0.0062	1	.							
6294	O	O	. THR THR THR B B 389 389 .	0.1867	0.1588	0.1640	-0.0177	0.0037	-
0.0085	1	.							
6295	N	N	. GLY GLY GLY B B 390 390 .	0.1423	0.1004	0.1360	0.0063	-0.0319	-
0.0182	1	.							
6296	CA	CA	. GLY GLY GLY B B 390 390 .	0.1105	0.1258	0.1298	0.0006	-0.0200	-
0.0283	1	.							
6297	C	C	. GLY GLY GLY B B 390 390 .	0.1128	0.1147	0.1009	0.0073	-0.0244	-
0.0091	1	.							
6298	O	O	. GLY GLY GLY B B 390 390 .	0.1218	0.1128	0.0795	-0.0133	0.0012	
0.0003	1	.							
6299	N	N	. GLN GLN GLN B B 391 391 .	0.1185	0.1008	0.0948	0.0011	-0.0105	
0.0041	1	.							
6300	CA	CA	. GLN GLN GLN B B 391 391 .	0.0987	0.0850	0.0825	-0.0181	0.0031	
0.0136	1	.							
6301	CB	CB	. GLN GLN GLN B B 391 391 .	0.1500	0.1468	0.1380	-0.0252	-0.0033	
0.0247	1	.							
6302	CG	CG	. GLN GLN GLN B B 391 391 .	0.2044	0.1846	0.1738	-0.0351	-0.0028	
0.0793	1	.							
6303	CD	CD	. GLN GLN GLN B B 391 391 .	0.1582	0.1465	0.1656	-0.0243	-0.0103	
0.0319	1	.							
6304	OE1	OE1	. GLN GLN GLN B B 391 391 .	0.1816	0.1630	0.1097	-0.0160	-0.0054	
0.0254	1	.							
6305	NE2	NE2	. GLN GLN GLN B B 391 391 .	0.1749	0.1497	0.1919	0.0088	-0.0377	
0.0083	1	.							
6306	C	C	. GLN GLN GLN B B 391 391 .	0.0784	0.0763	0.0834	0.0222	-0.0072	-
0.0083	1	.							
6307	O	O	. GLN GLN GLN B B 391 391 .	0.0928	0.0908	0.0999	0.0059	-0.0140	-
0.0146	1	.							
6308	N	N	. ILE ILE ILE B B 392 392 .	0.1200	0.0837	0.0820	-0.0056	-0.0165	-
0.0055	1	.							
6309	CA	CA	. ILE ILE ILE B B 392 392 .	0.0931	0.0919	0.0814	-0.0078	0.0011	-
0.0018	1	.							
6310	CB	CB	. ILE ILE ILE B B 392 392 .	0.1050	0.0666	0.0867	0.0011	0.0052	-
0.0093	1	.							
6311	CG1	CG1	. ILE ILE ILE B B 392 392 .	0.1218	0.1019	0.0570	0.0052	0.0095	-
0.0113	1	.							
6312	CD	CD	. ILE ILE ILE B B 392 392 .	0.1042	0.1365	0.1165	-0.0324	0.0047	-
0.0077	1	.							
6313	CG2	CG2	. ILE ILE ILE B B 392 392 .	0.1206	0.0972	0.1472	0.0029	-0.0145	-
0.0240	1	.							
6314	C	C	. ILE ILE ILE B B 392 392 .	0.0880	0.0906	0.0821	0.0147	0.0024	-
0.0104	1	.							
6315	O	O	. ILE ILE ILE B B 392 392 .	0.0945	0.0981	0.1269	0.0179	-0.0035	-
0.0109	1	.							
6316	N	N	. LYS LYS LYS B B 393 393 .	0.0763	0.0599	0.0713	-0.0060	-0.0114	-
0.0045	1	.							
6317	CA	CA	. LYS LYS LYS B B 393 393 .	0.0814	0.0821	0.0488	-0.0261	0.0060	-
0.0004	1	.							
6318	CB	CB	. LYS LYS LYS B B 393 393 .	0.1212	0.0571	0.1032	-0.0090	0.0135	
0.0035	1	.							
6319	CG	CG	. LYS LYS LYS B B 393 393 .	0.0874	0.0787	0.0868	0.0064	0.0007	
0.0219	1	.							
6320	CD	CD	. LYS LYS LYS B B 393 393 .	0.0963	0.0811	0.1223	0.0056	0.0189	
0.0060	1	.							
6321	CE	CE	. LYS LYS LYS B B 393 393 .	0.1328	0.0661	0.0989	-0.0176	-0.0032	-
0.0100	1	.							
6322	NZ	NZ	. LYS LYS LYS B B 393 393 .	0.0945	0.0761	0.1173	0.0045	-0.0047	
0.0171	1	.							

6323	C	C	. LYS LYS LYS B B 393 393 .	0.0955	0.0655	0.0818	0.0073	0.0023	
0.0067	1	.							
6324	O	O	. LYS LYS LYS B B 393 393 .	0.0944	0.0991	0.0749	0.0178	0.0065	-
0.0082	1	.							
6325	N	N	. THR THR THR B B 394 394 .	0.0638	0.0839	0.0524	-0.0070	-0.0117	
0.0099	1	.							
6326	CA	CA	. THR THR THR B B 394 394 .	0.0608	0.0941	0.0679	0.0048	0.0019	
0.0010	1	.							
6327	CB	CB	. THR THR THR B B 394 394 .	0.0841	0.0784	0.0878	-0.0148	0.0128	
0.0015	1	.							
6328	OG1	OG1	. THR THR THR B B 394 394 .	0.0820	0.0869	0.0741	0.0015	0.0097	
0.0077	1	.							
6329	CG2	CG2	. THR THR THR B B 394 394 .	0.1211	0.0741	0.0906	0.0069	0.0001	
0.0091	1	.							
6330	C	C	. THR THR THR B B 394 394 .	0.0662	0.0842	0.0623	0.0077	0.0085	
0.0004	1	.							
6331	O	O	. THR THR THR B B 394 394 .	0.0784	0.0903	0.0866	0.0000	0.0118	
0.0173	1	.							
6332	N	N	. GLY GLY GLY B B 395 395 .	0.0814	0.0741	0.0791	-0.0054	-0.0083	-
0.0065	1	.							
6333	CA	CA	. GLY GLY GLY B B 395 395 .	0.0841	0.0927	0.0894	0.0107	0.0034	-
0.0003	1	.							
6334	C	C	. GLY GLY GLY B B 395 395 .	0.0901	0.0866	0.0995	0.0045	0.0062	
0.0040	1	.							
6335	O	O	. GLY GLY GLY B B 395 395 .	0.0919	0.0775	0.0859	-0.0035	-0.0109	
0.0068	1	.							
6336	N	N	. ALA ALA ALA B B 396 396 .	0.0865	0.0786	0.0785	0.0066	-0.0063	
0.0134	1	.							
6337	CA	CA	. ALA ALA ALA B B 396 396 .	0.0710	0.0685	0.0870	-0.0013	-0.0018	
0.0188	1	.							
6338	CB	CB	. ALA ALA ALA B B 396 396 .	0.0603	0.1004	0.1105	-0.0106	-0.0091	
0.0100	1	.							
6339	C	C	. ALA ALA ALA B B 396 396 .	0.0875	0.0796	0.1032	0.0102	0.0073	
0.0112	1	.							
6340	O	O	. ALA ALA ALA B B 396 396 .	0.0924	0.0935	0.0848	-0.0015	-0.0005	
0.0080	1	.							
6341	N	N	. PRO PRO PRO B B 397 397 .	0.0836	0.0583	0.0852	0.0085	0.0260	
0.0014	1	.							
6342	CA	CA	. PRO PRO PRO B B 397 397 .	0.1166	0.0965	0.0886	0.0011	0.0073	
0.0118	1	.							
6343	CB	CB	. PRO PRO PRO B B 397 397 .	0.0809	0.1067	0.1047	0.0092	0.0173	
0.0152	1	.							
6344	CG	CG	. PRO PRO PRO B B 397 397 .	0.0906	0.0951	0.1172	-0.0113	0.0138	
0.0250	1	.							
6345	CD	CD	. PRO PRO PRO B B 397 397 .	0.0886	0.0838	0.1020	0.0060	0.0446	-
0.0013	1	.							
6346	C	C	. PRO PRO PRO B B 397 397 .	0.1106	0.0970	0.0952	0.0089	0.0036	
0.0060	1	.							
6347	O	O	. PRO PRO PRO B B 397 397 .	0.1207	0.1057	0.0879	0.0184	0.0065	
0.0029	1	.							
6348	N	N	. CYS CYS CYS B B 398 398 .	0.0859	0.0790	0.0578	-0.0017	0.0033	
0.0088	1	.							
6349	CA	CA	. CYS CYS CYS B B 398 398 .	0.0939	0.0791	0.0618	0.0131	0.0018	-
0.0027	1	.							
6350	CB	CB	. CYS CYS CYS B B 398 398 .	0.1154	0.0955	0.0674	-0.0062	0.0068	-
0.0018	1	.							
6351	SG	SG	. CYS CYS CYS B B 398 398 .	0.0996	0.1297	0.1027	-0.0019	-0.0009	
0.0034	1	.							
6352	C	C	. CYS CYS CYS B B 398 398 .	0.0796	0.0899	0.0665	0.0185	0.0086	
0.0097	1	.							

6353	O	O	. CYS CYS CYS B B 398 398 .	0.1161	0.0778	0.0934	0.0065	0.0117	
0.0158	1	.							
6354	N	N	. ARG ARG ARG B B 399 399 .	0.0770	0.0641	0.0605	-0.0075	0.0147	-
0.0092	1	.							
6355	CA	CA	. ARG ARG ARG B B 399 399 .	0.0737	0.0548	0.0759	0.0048	0.0214	-
0.0079	1	.							
6356	CB	CB	. ARG ARG ARG B B 399 399 .	0.0725	0.0447	0.0887	-0.0043	-0.0038	
0.0262	1	.							
6357	CG	CG	. ARG ARG ARG B B 399 399 .	0.0748	0.0719	0.0994	0.0019	-0.0056	-
0.0076	1	.							
6358	CD	CD	. ARG ARG ARG B B 399 399 .	0.0786	0.0582	0.0698	0.0300	0.0116	-
0.0131	1	.							
6359	NE	NE	. ARG ARG ARG B B 399 399 .	0.0654	0.0740	0.0536	0.0151	-0.0057	-
0.0116	1	.							
6360	CZ	CZ	. ARG ARG ARG B B 399 399 .	0.0641	0.0710	0.0487	-0.0065	-0.0046	
0.0124	1	.							
6361	NH1	NH1	. ARG ARG ARG B B 399 399 .	0.0736	0.0932	0.1027	-0.0086	0.0029	
0.0160	1	.							
6362	NH2	NH2	. ARG ARG ARG B B 399 399 .	0.0937	0.0921	0.0767	0.0212	-0.0044	-
0.0097	1	.							
6363	C	C	. ARG ARG ARG B B 399 399 .	0.0774	0.0639	0.0733	0.0013	0.0061	
0.0000	1	.							
6364	O	O	. ARG ARG ARG B B 399 399 .	0.0795	0.0750	0.0857	0.0020	-0.0005	
0.0047	1	.							
6365	N	N	. SER SER SER B B 400 400 .	0.0754	0.0615	0.0682	0.0053	0.0073	
0.0050	1	.							
6366	CA	CA	. SER SER SER B B 400 400 .	0.0625	0.0583	0.0647	0.0084	-0.0033	
0.0063	1	.							
6367	CB	CB	. SER SER SER B B 400 400 .	0.0832	0.0769	0.1062	0.0122	0.0045	
0.0213	1	.							
6368	OG	OG	. SER SER SER B B 400 400 .	0.0804	0.0830	0.0962	-0.0021	-0.0004	
0.0012	1	.							
6369	C	C	. SER SER SER B B 400 400 .	0.0672	0.0734	0.0737	-0.0026	0.0051	-
0.0089	1	.							
6370	O	O	. SER SER SER B B 400 400 .	0.0799	0.1029	0.0866	-0.0154	-0.0114	-
0.0095	1	.							
6371	N	N	. GLU GLU GLU B B 401 401 .	0.0659	0.0893	0.0840	0.0083	0.0054	
0.0047	1	.							
6372	CA	CA	. GLU GLU GLU B B 401 401 .	0.0871	0.0658	0.0662	0.0191	-0.0086	
0.0045	1	.							
6373	CB	CB	. GLU GLU GLU B B 401 401 .	0.0892	0.0621	0.0835	-0.0168	0.0033	
0.0012	1	.							
6374	CG	CG	. GLU GLU GLU B B 401 401 .	0.0792	0.0795	0.0935	-0.0086	-0.0112	
0.0274	1	.							
6375	CD	CD	. GLU GLU GLU B B 401 401 .	0.0737	0.0931	0.1019	0.0246	0.0138	
0.0123	1	.							
6376	OE1	OE1	. GLU GLU GLU B B 401 401 .	0.0898	0.0827	0.0693	0.0012	0.0008	
0.0125	1	.							
6377	OE2	OE2	. GLU GLU GLU B B 401 401 .	0.0936	0.0834	0.0884	0.0076	0.0046	
0.0104	1	.							
6378	C	C	. GLU GLU GLU B B 401 401 .	0.0891	0.0868	0.0877	0.0062	-0.0015	
0.0108	1	.							
6379	O	O	. GLU GLU GLU B B 401 401 .	0.0874	0.1038	0.0880	0.0162	-0.0008	-
0.0033	1	.							
6380	N	N	. ARG ARG ARG B B 402 402 .	0.0806	0.0859	0.0623	0.0087	0.0096	
0.0062	1	.							
6381	CA	CA	. ARG ARG ARG B B 402 402 .	0.0683	0.0775	0.0806	-0.0080	0.0050	-
0.0046	1	.							
6382	CB	CB	. ARG ARG ARG B B 402 402 .	0.0712	0.0745	0.0590	0.0001	0.0139	-
0.0199	1	.							

6383	CG	CG	. ARG ARG ARG B B 402 402 .	0.0942	0.0722	0.0852	0.0113	-0.0219	
0.0016	1	.							
6384	CD	CD	. ARG ARG ARG B B 402 402 .	0.0795	0.0509	0.1140	0.0091	0.0099	-
0.0112	1	.							
6385	NE	NE	. ARG ARG ARG B B 402 402 .	0.0733	0.0679	0.0949	-0.0076	0.0062	
0.0022	1	.							
6386	CZ	CZ	. ARG ARG ARG B B 402 402 .	0.0611	0.0554	0.0848	-0.0084	0.0155	-
0.0060	1	.							
6387	NH1	NH1	. ARG ARG ARG B B 402 402 .	0.1035	0.0832	0.0816	-0.0045	-0.0090	
0.0012	1	.							
6388	NH2	NH2	. ARG ARG ARG B B 402 402 .	0.0656	0.0837	0.0728	-0.0085	0.0253	-
0.0036	1	.							
6389	C	C	. ARG ARG ARG B B 402 402 .	0.0724	0.0775	0.0854	0.0025	0.0007	-
0.0087	1	.							
6390	O	O	. ARG ARG ARG B B 402 402 .	0.0747	0.0704	0.0750	-0.0029	0.0014	
0.0035	1	.							
6391	N	N	. LEU LEU LEU B B 403 403 .	0.0862	0.0830	0.0868	0.0022	0.0122	
0.0045	1	.							
6392	CA	CA	. LEU LEU LEU B B 403 403 .	0.0858	0.0932	0.0954	-0.0022	-0.0074	-
0.0008	1	.							
6393	CB	CB	. LEU LEU LEU B B 403 403 .	0.0816	0.0900	0.1017	0.0003	-0.0009	
0.0277	1	.							
6394	CG	CG	. LEU LEU LEU B B 403 403 .	0.1041	0.0969	0.0962	-0.0140	-0.0002	-
0.0376	1	.							
6395	CD1	CD1	. LEU LEU LEU B B 403 403 .	0.1168	0.1166	0.0612	0.0120	0.0333	-
0.0209	1	.							
6396	CD2	CD2	. LEU LEU LEU B B 403 403 .	0.0914	0.0685	0.1259	-0.0103	-0.0193	-
0.0164	1	.							
6397	C	C	. LEU LEU LEU B B 403 403 .	0.0730	0.0767	0.0617	-0.0057	0.0110	-
0.0011	1	.							
6398	O	O	. LEU LEU LEU B B 403 403 .	0.0868	0.0730	0.0985	0.0153	-0.0145	-
0.0088	1	.							
6399	N	N	. ALA ALA ALA B B 404 404 .	0.0663	0.0892	0.0971	-0.0002	0.0121	
0.0012	1	.							
6400	CA	CA	. ALA ALA ALA B B 404 404 .	0.0786	0.0826	0.0720	-0.0174	0.0054	-
0.0056	1	.							
6401	CB	CB	. ALA ALA ALA B B 404 404 .	0.1097	0.0765	0.1158	-0.0051	0.0112	-
0.0270	1	.							
6402	C	C	. ALA ALA ALA B B 404 404 .	0.0626	0.0730	0.0825	0.0136	-0.0024	
0.0120	1	.							
6403	O	O	. ALA ALA ALA B B 404 404 .	0.0881	0.0931	0.0919	0.0055	-0.0094	
0.0008	1	.							
6404	N	N	. LYS LYS LYS B B 405 405 .	0.0811	0.0724	0.0800	-0.0021	0.0068	
0.0083	1	.							
6405	CA	CA	. LYS LYS LYS B B 405 405 .	0.0710	0.0629	0.0865	-0.0007	-0.0122	-
0.0018	1	.							
6406	CB	CB	. LYS LYS LYS B B 405 405 .	0.0923	0.0715	0.0836	-0.0012	0.0020	-
0.0020	1	.							
6407	CG	CG	. LYS LYS LYS B B 405 405 .	0.1141	0.0728	0.0822	0.0080	0.0010	-
0.0153	1	.							
6408	CD	CD	. LYS LYS LYS B B 405 405 .	0.1258	0.0832	0.0917	0.0267	-0.0229	-
0.0088	1	.							
6409	CE	CE	. LYS LYS LYS B B 405 405 .	0.1035	0.0635	0.0782	0.0307	-0.0199	-
0.0166	1	.							
6410	NZ	NZ	. LYS LYS LYS B B 405 405 .	0.1150	0.0732	0.0690	0.0104	0.0040	-
0.0019	1	.							
6411	C	C	. LYS LYS LYS B B 405 405 .	0.0778	0.0732	0.0687	0.0016	-0.0032	
0.0082	1	.							
6412	O	O	. LYS LYS LYS B B 405 405 .	0.0828	0.0726	0.0815	-0.0034	-0.0072	
0.0040	1	.							

6413	N	N	. TYR TYR TYR B B 406 406 .	0.0742	0.0645	0.0808	0.0117	0.0119	-
0.0083	1	.							
6414	CA	CA	. TYR TYR TYR B B 406 406 .	0.0800	0.0636	0.0676	0.0015	0.0089	-
0.0148	1	.							
6415	CB	CB	. TYR TYR TYR B B 406 406 .	0.0845	0.0858	0.0812	-0.0135	0.0200	
0.0131	1	.							
6416	CG	CG	. TYR TYR TYR B B 406 406 .	0.0664	0.0449	0.0550	0.0034	0.0026	-
0.0055	1	.							
6417	CD1	CD1	. TYR TYR TYR B B 406 406 .	0.0876	0.0583	0.0789	0.0232	0.0039	
0.0015	1	.							
6418	CE1	CE1	. TYR TYR TYR B B 406 406 .	0.0728	0.0927	0.0798	-0.0008	0.0012	
0.0213	1	.							
6419	CZ	CZ	. TYR TYR TYR B B 406 406 .	0.0755	0.0865	0.0768	-0.0138	0.0065	
0.0170	1	.							
6420	OH	OH	. TYR TYR TYR B B 406 406 .	0.1026	0.0749	0.0975	0.0026	0.0017	
0.0046	1	.							
6421	CE2	CE2	. TYR TYR TYR B B 406 406 .	0.1015	0.0866	0.0813	-0.0040	0.0056	-
0.0039	1	.							
6422	CD2	CD2	. TYR TYR TYR B B 406 406 .	0.0963	0.0958	0.0933	-0.0159	-0.0034	-
0.0015	1	.							
6423	C	C	. TYR TYR TYR B B 406 406 .	0.0935	0.0929	0.0705	0.0017	0.0071	-
0.0042	1	.							
6424	O	O	. TYR TYR TYR B B 406 406 .	0.1090	0.0893	0.0827	-0.0105	0.0015	-
0.0077	1	.							
6425	N	N	. ASN ASN ASN B B 407 407 .	0.0915	0.0903	0.0698	0.0072	0.0046	
0.0037	1	.							
6426	CA	CA	. ASN ASN ASN B B 407 407 .	0.0680	0.0740	0.0656	-0.0122	0.0020	
0.0001	1	.							
6427	CB	CB	. ASN ASN ASN B B 407 407 .	0.0585	0.0901	0.0802	0.0034	-0.0067	-
0.0002	1	.							
6428	CG	CG	. ASN ASN ASN B B 407 407 .	0.0665	0.0729	0.0769	0.0010	0.0174	
0.0080	1	.							
6429	OD1	OD1	. ASN ASN ASN B B 407 407 .	0.0786	0.0805	0.0807	0.0099	0.0104	
0.0100	1	.							
6430	ND2	ND2	. ASN ASN ASN B B 407 407 .	0.1093	0.0806	0.0894	0.0096	-0.0109	-
0.0010	1	.							
6431	C	C	. ASN ASN ASN B B 407 407 .	0.0871	0.0779	0.0710	-0.0093	-0.0035	
0.0129	1	.							
6432	O	O	. ASN ASN ASN B B 407 407 .	0.0994	0.0784	0.0929	-0.0177	-0.0082	-
0.0052	1	.							
6433	N	N	. GLN GLN GLN B B 408 408 .	0.0716	0.0898	0.0803	0.0067	0.0044	
0.0105	1	.							
6434	CA	CA	. GLN GLN GLN B B 408 408 .	0.0779	0.0783	0.0921	0.0172	-0.0027	-
0.0117	1	.							
6435	CB	CB	. GLN GLN GLN B B 408 408 .	0.0709	0.0631	0.1070	0.0229	-0.0125	
0.0080	1	.							
6436	CG	CG	. GLN GLN GLN B B 408 408 .	0.0878	0.1084	0.1239	-0.0197	-0.0035	
0.0337	1	.							
6437	CD	CD	. GLN GLN GLN B B 408 408 .	0.1135	0.1799	0.1128	-0.0015	0.0062	
0.0455	1	.							
6438	OE1	OE1	. GLN GLN GLN B B 408 408 .	0.1012	0.1675	0.1923	-0.0219	0.0037	
0.0426	1	.							
6439	NE2	NE2	. GLN GLN GLN B B 408 408 .	0.1282	0.2106	0.1632	-0.0179	-0.0072	
0.0480	1	.							
6440	C	C	. GLN GLN GLN B B 408 408 .	0.0803	0.0901	0.0910	0.0004	-0.0065	
0.0137	1	.							
6441	O	O	. GLN GLN GLN B B 408 408 .	0.1116	0.0738	0.1027	-0.0178	-0.0039	
0.0175	1	.							
6442	N	N	. LEU LEU LEU B B 409 409 .	0.0850	0.0792	0.0688	-0.0017	0.0065	
0.0036	1	.							



6473	CD	CD	. ILE ILE ILE B B 412 412 .	0.1349	0.0853	0.1282	0.0171	-0.0065	
0.0308	1	.							
6474	CG2	CG2	. ILE ILE ILE B B 412 412 .	0.1222	0.1664	0.1407	-0.0134	-0.0246	
0.0079	1	.							
6475	C	C	. ILE ILE ILE B B 412 412 .	0.1229	0.1168	0.1222	-0.0088	-0.0031	
0.0135	1	.							
6476	O	O	. ILE ILE ILE B B 412 412 .	0.1377	0.1333	0.1438	-0.0515	-0.0027	-
0.0083	1	.							
6477	N	N	. GLU GLU GLU B B 413 413 .	0.1271	0.1186	0.1032	0.0035	-0.0030	
0.0052	1	.							
6478	CA	CA	. GLU GLU GLU B B 413 413 .	0.1238	0.0923	0.1198	-0.0224	0.0196	-
0.0040	1	.							
6479	CB	CB	. GLU GLU GLU B B 413 413 .	0.1322	0.1316	0.1221	-0.0126	-0.0035	-
0.0121	1	.							
6480	CG	CG	. GLU GLU GLU B B 413 413 .	0.1259	0.1256	0.1441	-0.0247	0.0200	-
0.0367	1	.							
6481	CD	CD	. GLU GLU GLU B B 413 413 .	0.1602	0.1257	0.1539	-0.0053	0.0104	-
0.0287	1	.							
6482	OE1	OE1	. GLU GLU GLU B B 413 413 .	0.1482	0.1834	0.1961	-0.0290	-0.0155	
0.0102	1	.							
6483	OE2	OE2	. GLU GLU GLU B B 413 413 .	0.1612	0.1646	0.1558	-0.0201	-0.0154	-
0.0213	1	.							
6484	C	C	. GLU GLU GLU B B 413 413 .	0.1606	0.1161	0.1326	-0.0232	-0.0078	
0.0126	1	.							
6485	O	O	. GLU GLU GLU B B 413 413 .	0.1534	0.1252	0.1213	-0.0542	0.0070	
0.0044	1	.							
6486	N	N	. GLU GLU GLU B B 414 414 .	0.1611	0.1067	0.1265	-0.0290	0.0016	
0.0159	1	.							
6487	CA	CA	. GLU GLU GLU B B 414 414 .	0.1770	0.1028	0.1212	-0.0234	0.0074	
0.0087	1	.							
6488	CB	CB	. GLU GLU GLU B B 414 414 .	0.1802	0.1030	0.1159	-0.0299	0.0131	
0.0164	1	.							
6489	CG	CG	. GLU GLU GLU B B 414 414 .	0.2670	0.1668	0.1573	-0.0254	0.0183	
0.0139	1	.							
6490	CD	CD	. GLU GLU GLU B B 414 414 .	0.2142	0.1805	0.1452	-0.0004	0.0029	
0.0145	1	.							
6491	OE1	OE1	. GLU GLU GLU B B 414 414 .	0.2768	0.2470	0.2323	0.0339	-0.0021	-
0.0398	1	.							
6492	OE2	OE2	. GLU GLU GLU B B 414 414 .	0.2611	0.2243	0.2305	-0.0006	-0.0074	
0.0070	1	.							
6493	C	C	. GLU GLU GLU B B 414 414 .	0.1810	0.1195	0.1454	-0.0294	-0.0040	
0.0095	1	.							
6494	O	O	. GLU GLU GLU B B 414 414 .	0.2450	0.1458	0.1533	-0.0604	-0.0178	-
0.0151	1	.							
6495	N	N	. GLU GLU GLU B B 415 415 .	0.1551	0.1561	0.1816	-0.0477	0.0112	-
0.0043	1	.							
6496	CA	CA	. GLU GLU GLU B B 415 415 .	0.1826	0.1793	0.1882	-0.0458	0.0014	-
0.0210	1	.							
6497	CB	CB	. GLU GLU GLU B B 415 415 .	0.1865	0.1981	0.2178	-0.0394	0.0356	-
0.0091	1	.							
6498	CG	CG	. GLU GLU GLU B B 415 415 .	0.3200	0.4063	0.3835	-0.0297	-0.0166	-
0.0281	1	.							
6499	CD	CD	. GLU GLU GLU B B 415 415 .	0.4764	0.5357	0.4501	-0.0778	-0.0058	-
0.0109	1	.							
6500	OE1	OE1	. GLU GLU GLU B B 415 415 .	0.7069	0.6603	0.4954	-0.0579	-0.1097	-
0.0598	1	.							
6501	OE2	OE2	. GLU GLU GLU B B 415 415 .	0.4894	0.6041	0.5914	-0.1294	-0.0482	-
0.0676	1	.							
6502	C	C	. GLU GLU GLU B B 415 415 .	0.1992	0.2117	0.1861	-0.0625	0.0042	-
0.0053	1	.							



6503	O	O	. GLU GLU GLU B B 415 415 .	0.2204	0.2339	0.2275	-0.0887	-0.0070	-
0.0330	1	.							
6504	N	N	. LEU LEU LEU B B 416 416 .	0.2040	0.2068	0.1584	-0.0600	-0.0034	-
0.0026	1	.							
6505	CA	CA	. LEU LEU LEU B B 416 416 .	0.2096	0.2035	0.1749	-0.0482	-0.0354	-
0.0173	1	.							
6506	CB	CB	. LEU LEU LEU B B 416 416 .	0.2006	0.1964	0.1836	-0.0194	-0.0338	-
0.0045	1	.							
6507	CG	CG	. LEU LEU LEU B B 416 416 .	0.2108	0.2205	0.1792	-0.0073	-0.0278	-
0.0245	1	.							
6508	CD1	CD1	. LEU LEU LEU B B 416 416 .	0.2878	0.2206	0.2133	0.0012	-0.0143	-
0.0000	1	.							
6509	CD2	CD2	. LEU LEU LEU B B 416 416 .	0.2129	0.2981	0.2211	-0.0223	0.0043	-
0.0346	1	.							
6510	C	C	. LEU LEU LEU B B 416 416 .	0.2247	0.2205	0.2004	-0.0304	-0.0411	-
0.0289	1	.							
6511	O	O	. LEU LEU LEU B B 416 416 .	0.2829	0.2641	0.2211	-0.0747	-0.0784	-
0.0243	1	.							
6512	N	N	. GLY GLY GLY B B 417 417 .	0.2606	0.2146	0.1946	-0.0315	-0.0031	-
0.0255	1	.							
6513	CA	CA	. GLY GLY GLY B B 417 417 .	0.3274	0.2380	0.2522	-0.0301	-0.0025	-
0.0272	1	.							
6514	C	C	. GLY GLY GLY B B 417 417 .	0.3635	0.2926	0.2842	-0.0340	0.0074	-
0.0307	1	.							
6515	O	O	. GLY GLY GLY B B 417 417 .	0.3562	0.2818	0.2500	-0.0274	0.0289	-
0.0314	1	.							
6516	N	N	. ASP ASP ASP B B 418 418 .	0.4125	0.3219	0.3333	-0.0491	-0.0024	-
0.0332	1	.							
6517	CA	CA	. ASP ASP ASP B B 418 418 .	0.4298	0.3830	0.3668	-0.0494	-0.0135	-
0.0344	1	.							
6518	CB	CB	. ASP ASP ASP B B 418 418 .	0.4536	0.3963	0.4084	-0.0532	-0.0149	-
0.0444	1	.							
6519	CG	CG	. ASP ASP ASP B B 418 418 .	0.5192	0.5184	0.5010	-0.0227	0.0061	-
0.0362	1	.							
6520	OD1	OD1	. ASP ASP ASP B B 418 418 .	0.5170	0.5866	0.6690	-0.0127	0.0452	-
0.0308	1	.							
6521	OD2	OD2	. ASP ASP ASP B B 418 418 .	0.5517	0.6187	0.6385	-0.0291	-0.0374	-
0.0324	1	.							
6522	C	C	. ASP ASP ASP B B 418 418 .	0.3991	0.3815	0.3658	-0.0529	-0.0133	-
0.0326	1	.							
6523	O	O	. ASP ASP ASP B B 418 418 .	0.4323	0.4042	0.3256	-0.0758	-0.0285	-
0.0431	1	.							
6524	N	N	. GLU GLU GLU B B 419 419 .	0.3644	0.3591	0.3586	-0.0551	-0.0444	-
0.0344	1	.							
6525	CA	CA	. GLU GLU GLU B B 419 419 .	0.3417	0.3663	0.3562	-0.0361	-0.0310	-
0.0014	1	.							
6526	CB	CB	. GLU GLU GLU B B 419 419 .	0.3723	0.4012	0.3869	-0.0193	-0.0170	-
0.0000	1	.							
6527	CG	CG	. GLU GLU GLU B B 419 419 .	0.4638	0.4793	0.4870	-0.0002	-0.0093	-
0.0005	1	.							
6528	CD	CD	. GLU GLU GLU B B 419 419 .	0.5180	0.5915	0.6001	-0.0071	0.0118	-
0.0479	1	.							
6529	OE1	OE1	. GLU GLU GLU B B 419 419 .	0.5853	0.5978	0.6376	-0.0826	0.0126	-
0.0452	1	.							
6530	OE2	OE2	. GLU GLU GLU B B 419 419 .	0.5631	0.6171	0.5732	0.0220	0.0010	-
0.0906	1	.							
6531	C	C	. GLU GLU GLU B B 419 419 .	0.3263	0.3268	0.3340	-0.0231	-0.0317	-
0.0176	1	.							
6532	O	O	. GLU GLU GLU B B 419 419 .	0.2984	0.3346	0.3466	-0.0192	-0.0689	-
0.0432	1	.							

6533	N	N	. ALA ALA ALA B B 420 420 .	0.3086	0.2916	0.2837	-0.0385	-0.0216	
0.0127	1	.							
6534	CA	CA	. ALA ALA ALA B B 420 420 .	0.2728	0.2539	0.2480	-0.0255	0.0042	-
0.0005	1	.							
6535	CB	CB	. ALA ALA ALA B B 420 420 .	0.2766	0.2237	0.2419	-0.0282	0.0054	-
0.0160	1	.							
6536	C	C	. ALA ALA ALA B B 420 420 .	0.2695	0.2453	0.2340	-0.0176	0.0114	-
0.0038	1	.							
6537	O	O	. ALA ALA ALA B B 420 420 .	0.3063	0.2504	0.2193	-0.0378	0.0104	
0.0047	1	.							
6538	N	N	. ARG ARG ARG B B 421 421 .	0.2100	0.2383	0.1975	-0.0337	0.0025	-
0.0232	1	.							
6539	CA	CA	. ARG ARG ARG B B 421 421 .	0.2201	0.2254	0.2273	-0.0486	0.0015	-
0.0064	1	.							
6540	CB	CB	. ARG ARG ARG B B 421 421 .	0.2399	0.2542	0.2256	-0.0679	-0.0107	-
0.0018	1	.							
6541	CG	CG	. ARG ARG ARG B B 421 421 .	0.3048	0.3325	0.3670	-0.0990	0.0339	-
0.0354	1	.							
6542	CD	CD	. ARG ARG ARG B B 421 421 .	0.4467	0.5270	0.5297	-0.0262	0.0381	-
0.0315	1	.							
6543	NE	NE	. ARG ARG ARG B B 421 421 .	0.5560	0.6264	0.5482	-0.0349	0.0922	-
0.0237	1	.							
6544	CZ	CZ	. ARG ARG ARG B B 421 421 .	0.5828	0.6400	0.5750	-0.0343	0.0805	-
0.0083	1	.							
6545	NH1	NH1	. ARG ARG ARG B B 421 421 .	0.5889	0.6217	0.5348	-0.0161	0.0983	-
0.0008	1	.							
6546	NH2	NH2	. ARG ARG ARG B B 421 421 .	0.4833	0.6418	0.5469	-0.0268	0.1093	
0.0283	1	.							
6547	C	C	. ARG ARG ARG B B 421 421 .	0.1873	0.1801	0.1853	-0.0287	0.0000	-
0.0313	1	.							
6548	O	O	. ARG ARG ARG B B 421 421 .	0.2379	0.1972	0.2188	-0.0261	-0.0004	-
0.0381	1	.							
6549	N	N	. PHE PHE PHE B B 422 422 .	0.1669	0.1366	0.1584	-0.0443	0.0006	-
0.0081	1	.							
6550	CA	CA	. PHE PHE PHE B B 422 422 .	0.1597	0.1303	0.1437	-0.0313	-0.0034	-
0.0147	1	.							
6551	CB	CB	. PHE PHE PHE B B 422 422 .	0.1646	0.1633	0.1625	-0.0186	0.0039	-
0.0116	1	.							
6552	CG	CG	. PHE PHE PHE B B 422 422 .	0.1665	0.0948	0.1183	-0.0156	0.0234	
0.0002	1	.							
6553	CD1	CD1	. PHE PHE PHE B B 422 422 .	0.1481	0.0860	0.1031	0.0029	0.0216	-
0.0031	1	.							
6554	CE1	CE1	. PHE PHE PHE B B 422 422 .	0.1514	0.1116	0.1179	0.0025	0.0058	
0.0308	1	.							
6555	CZ	CZ	. PHE PHE PHE B B 422 422 .	0.1686	0.1134	0.1260	0.0046	0.0116	
0.0146	1	.							
6556	CE2	CE2	. PHE PHE PHE B B 422 422 .	0.1628	0.1592	0.1434	-0.0015	0.0003	-
0.0141	1	.							
6557	CD2	CD2	. PHE PHE PHE B B 422 422 .	0.1430	0.1415	0.1433	0.0132	0.0180	-
0.0030	1	.							
6558	C	C	. PHE PHE PHE B B 422 422 .	0.1881	0.1358	0.1354	-0.0043	0.0061	-
0.0052	1	.							
6559	O	O	. PHE PHE PHE B B 422 422 .	0.2156	0.1269	0.1495	-0.0151	0.0147	-
0.0047	1	.							
6560	N	N	. ALA ALA ALA B B 423 423 .	0.1460	0.1180	0.1143	-0.0127	0.0007	
0.0100	1	.							
6561	CA	CA	. ALA ALA ALA B B 423 423 .	0.1574	0.1026	0.1025	-0.0301	0.0141	-
0.0053	1	.							
6562	CB	CB	. ALA ALA ALA B B 423 423 .	0.1904	0.1123	0.1385	-0.0032	0.0163	-
0.0145	1	.							

6563	C	C	. ALA ALA ALA B B 423 423 .	0.1552	0.1202	0.1374	-0.0139	0.0110	-
0.0095	1	.							
6564	O	O	. ALA ALA ALA B B 423 423 .	0.1735	0.1591	0.1134	-0.0234	-0.0199	-
0.0110	1	.							
6565	N	N	. GLY GLY GLY B B 424 424 .	0.1665	0.1231	0.1232	-0.0211	0.0112	-
0.0097	1	.							
6566	CA	CA	. GLY GLY GLY B B 424 424 .	0.1802	0.1100	0.1583	-0.0217	0.0159	-
0.0004	1	.							
6567	C	C	. GLY GLY GLY B B 424 424 .	0.2321	0.1442	0.1462	-0.0156	0.0349	-
0.0050	1	.							
6568	O	O	. GLY GLY GLY B B 424 424 .	0.2266	0.1603	0.1582	-0.0233	0.0304	-
0.0020	1	.							
6569	N	N	. HIS HIS HIS B B 425 425 .	0.2396	0.1809	0.1502	-0.0133	0.0521	-
0.0133	1	.							
6570	CA	CA	. HIS HIS HIS B B 425 425 .	0.2511	0.1799	0.1497	-0.0037	0.0454	-
0.0131	1	.							
6571	CB	CB	. HIS HIS HIS B B 425 425 .	0.2572	0.2134	0.1249	0.0038	0.0453	-
0.0359	1	.							
6572	CG	CG	. HIS HIS HIS B B 425 425 .	0.2821	0.2467	0.1383	0.0138	0.0472	-
0.0160	1	.							
6573	ND1	ND1	. HIS HIS HIS B B 425 425 .	0.3181	0.2857	0.2203	0.0290	0.0246	-
0.0017	1	.							
6574	CE1	CE1	. HIS HIS HIS B B 425 425 .	0.3232	0.3019	0.1921	0.0222	0.0563	-
0.0096	1	.							
6575	NE2	NE2	. HIS HIS HIS B B 425 425 .	0.3471	0.3146	0.1809	0.0264	0.0419	-
0.0006	1	.							
6576	CD2	CD2	. HIS HIS HIS B B 425 425 .	0.2658	0.3178	0.1375	0.0356	-0.0045	-
0.0290	1	.							
6577	C	C	. HIS HIS HIS B B 425 425 .	0.2617	0.2133	0.1769	-0.0165	0.0245	-
0.0108	1	.							
6578	O	O	. HIS HIS HIS B B 425 425 .	0.3199	0.2137	0.1924	-0.0172	0.0363	-
0.0084	1	.							
6579	N	N	. ASN ASN ASN B B 426 426 .	0.2501	0.2354	0.1832	0.0119	0.0127	-
0.0372	1	.							
6580	CA	CA	. ASN ASN ASN B B 426 426 .	0.2371	0.2312	0.1897	-0.0160	-0.0004	-
0.0058	1	.							
6581	CB	CB	. ASN ASN ASN B B 426 426 .	0.2640	0.2591	0.1975	-0.0159	-0.0236	-
0.0519	1	.							
6582	CG	CG	. ASN ASN ASN B B 426 426 .	0.3574	0.3353	0.2465	-0.0164	-0.0163	-
0.0417	1	.							
6583	OD1	OD1	. ASN ASN ASN B B 426 426 .	0.4398	0.5326	0.3250	-0.0383	0.0246	-
0.0354	1	.							
6584	ND2	ND2	. ASN ASN ASN B B 426 426 .	0.4098	0.3650	0.3323	-0.0046	-0.0383	-
0.0876	1	.							
6585	C	C	. ASN ASN ASN B B 426 426 .	0.2017	0.1849	0.1810	-0.0145	0.0117	-
0.0107	1	.							
6586	O	O	. ASN ASN ASN B B 426 426 .	0.2239	0.1868	0.1896	-0.0324	-0.0281	-
0.0059	1	.							
6587	N	N	. PHE PHE PHE B B 427 427 .	0.1834	0.1529	0.1294	-0.0090	0.0018	-
0.0051	1	.							
6588	CA	CA	. PHE PHE PHE B B 427 427 .	0.1797	0.1379	0.1564	0.0098	0.0026	-
0.0077	1	.							
6589	CB	CB	. PHE PHE PHE B B 427 427 .	0.1570	0.1575	0.1514	0.0016	0.0136	-
0.0101	1	.							
6590	CG	CG	. PHE PHE PHE B B 427 427 .	0.2020	0.1680	0.1674	0.0004	-0.0144	-
0.0074	1	.							
6591	CD1	CD1	. PHE PHE PHE B B 427 427 .	0.2158	0.2330	0.2386	-0.0226	0.0670	-
0.0333	1	.							
6592	CE1	CE1	. PHE PHE PHE B B 427 427 .	0.2621	0.2544	0.3343	-0.0222	0.0431	-
0.0397	1	.							

6593	CZ	CZ	. PHE PHE PHE B B 427 427 .	0.2080	0.2752	0.2140	-0.0423	0.0086	
0.0683	1	.							
6594	CE2	CE2	. PHE PHE PHE B B 427 427 .	0.2401	0.1999	0.2101	-0.0458	-0.0250	
0.0425	1	.							
6595	CD2	CD2	. PHE PHE PHE B B 427 427 .	0.2695	0.1722	0.1757	-0.0482	-0.0242	
0.0347	1	.							
6596	C	C	. PHE PHE PHE B B 427 427 .	0.1745	0.1340	0.1526	-0.0036	0.0254	
0.0137	1	.							
6597	O	O	. PHE PHE PHE B B 427 427 .	0.1719	0.1243	0.1712	-0.0226	-0.0018	-
0.0003	1	.							
6598	N	N	. ARG ARG ARG B B 428 428 .	0.1986	0.1524	0.1781	-0.0298	0.0059	
0.0073	1	.							
6599	CA	CA	. ARG ARG ARG B B 428 428 .	0.1916	0.1705	0.1704	-0.0112	-0.0080	
0.0041	1	.							
6600	CB	CB	. ARG ARG ARG B B 428 428 .	0.2157	0.2136	0.1971	-0.0337	0.0041	
0.0030	1	.							
6601	CG	CG	. ARG ARG ARG B B 428 428 .	0.1946	0.2108	0.1841	-0.0530	-0.0048	-
0.0214	1	.							
6602	CD	CD	. ARG ARG ARG B B 428 428 .	0.2575	0.1692	0.1433	-0.0291	-0.0064	-
0.0181	1	.							
6603	NE	NE	. ARG ARG ARG B B 428 428 .	0.2158	0.2083	0.1816	-0.0421	-0.0001	
0.0214	1	.							
6604	CZ	CZ	. ARG ARG ARG B B 428 428 .	0.1984	0.1981	0.1563	-0.0121	-0.0023	-
0.0106	1	.							
6605	NH1	NH1	. ARG ARG ARG B B 428 428 .	0.2001	0.1306	0.1367	-0.0244	-0.0204	-
0.0209	1	.							
6606	NH2	NH2	. ARG ARG ARG B B 428 428 .	0.2468	0.1721	0.1587	-0.0018	-0.0088	-
0.0121	1	.							
6607	C	C	. ARG ARG ARG B B 428 428 .	0.2125	0.1790	0.2101	0.0054	-0.0180	-
0.0008	1	.							
6608	O	O	. ARG ARG ARG B B 428 428 .	0.2697	0.2370	0.2525	0.0355	-0.0282	-
0.0383	1	.							
6609	N	N	. ASN ASN ASN B B 429 429 .	0.2362	0.1887	0.2035	-0.0192	-0.0468	
0.0050	1	.							
6610	CA	CA	. ASN ASN ASN B B 429 429 .	0.2486	0.2102	0.2011	-0.0317	-0.0237	
0.0044	1	.							
6611	CB	CB	. ASN ASN ASN B B 429 429 .	0.2765	0.2322	0.2355	-0.0206	-0.0166	
0.0191	1	.							
6612	CG	CG	. ASN ASN ASN B B 429 429 .	0.2858	0.2893	0.2528	-0.0150	-0.0116	
0.0027	1	.							
6613	OD1	OD1	. ASN ASN ASN B B 429 429 .	0.4360	0.3488	0.2522	-0.0767	0.0401	-
0.0013	1	.							
6614	ND2	ND2	. ASN ASN ASN B B 429 429 .	0.2944	0.2346	0.2305	0.0213	-0.0126	-
0.0192	1	.							
6615	C	C	. ASN ASN ASN B B 429 429 .	0.2680	0.2329	0.2222	-0.0324	-0.0102	-
0.0136	1	.							
6616	O	O	. ASN ASN ASN B B 429 429 .	0.3108	0.2295	0.2238	-0.0341	-0.0246	-
0.0266	1	.							
6617	N	N	. PRO PRO PRO B B 430 430 .	0.2630	0.2214	0.2075	-0.0313	-0.0093	-
0.0162	1	.							
6618	CA	CA	. PRO PRO PRO B B 430 430 .	0.2955	0.2742	0.2473	-0.0463	-0.0080	-
0.0066	1	.							
6619	CB	CB	. PRO PRO PRO B B 430 430 .	0.3221	0.2705	0.2339	-0.0308	-0.0060	
0.0026	1	.							
6620	CG	CG	. PRO PRO PRO B B 430 430 .	0.2807	0.2760	0.1452	-0.0717	-0.0327	-
0.0286	1	.							
6621	CD	CD	. PRO PRO PRO B B 430 430 .	0.2518	0.2586	0.2020	-0.0443	0.0049	-
0.0370	1	.							
6622	C	C	. PRO PRO PRO B B 430 430 .	0.3082	0.2812	0.3006	-0.0528	-0.0121	
0.0063	1	.							

























```

6953 O      O      . HOH HOH HOH S . 304 304 . 0.2964 0.3334 0.2065 0.0503 -0.0647 -
0.1082 1 .
6954 O      O      . HOH HOH HOH S . 305 305 . 0.1510 0.7225 1.6565 -0.1103 -0.4083
0.7865 1 .
6955 O      O      . HOH HOH HOH S . 306 306 . 0.2865 0.3317 0.4217 0.0965 0.0265 -
0.0364 1 .
6956 O      O      . HOH HOH HOH S . 307 307 . 0.3453 0.3454 0.3446 -0.0001 -0.0324 -
0.0653 1 .
6957 O      O      . HOH HOH HOH S . 308 308 . 0.2938 0.4344 0.2254 0.0042 0.0066 -
0.0131 1 .
6958 O      O      . HOH HOH HOH S . 309 309 . 0.3514 0.2153 0.5348 -0.0058 -0.1237 -
0.0318 1 .
6959 O      O      . HOH HOH HOH S . 310 310 . 0.2686 0.2897 0.3704 -0.0591 0.0056 -
0.1145 1 .
6960 O      O      . HOH HOH HOH S . 311 311 . 0.4841 0.2339 0.3702 0.0942 0.1050
0.0909 1 .
6961 O      O      . HOH HOH HOH S . 312 312 . 0.2364 0.2615 0.2079 0.0101 -0.0251
0.0538 1 .
6962 O      O      . HOH HOH HOH S . 313 313 . 0.3980 0.1475 0.3331 -0.0618 0.0283
0.0285 1 .
6963 O      O      . HOH HOH HOH S . 314 314 . 0.3633 0.3521 0.2341 -0.0753 -0.0256
0.0182 1 .
6964 O      O      . HOH HOH HOH S . 315 315 . 0.3475 0.4263 0.2681 0.0441 0.0402
0.0577 1 .
6965 O      O      . HOH HOH HOH S . 316 316 . 0.3205 0.2866 0.2778 -0.0284 0.0403 -
0.0212 1 .
6966 O      O      . HOH HOH HOH S . 317 317 . 0.3125 0.3022 0.2542 -0.0301 -0.0439 -
0.0573 1 .
6967 O      O      . HOH HOH HOH S . 318 318 . 0.3676 0.3014 0.2957 0.0363 -0.0007 -
0.0915 1 .
6968 O      O      . HOH HOH HOH S . 319 319 . 0.3538 0.2560 0.3677 0.0294 -0.0101
0.0178 1 .
6969 O      O      . HOH HOH HOH S . 320 320 . 0.2733 0.3227 0.2559 -0.0366 -0.0240
0.0045 1 .
6970 O      O      . HOH HOH HOH S . 321 321 . 0.2439 0.3085 0.2391 0.0198 0.0487
0.0205 1 .
6971 O      O      . HOH HOH HOH S . 322 322 . 0.2270 0.3061 0.3129 0.1052 -0.0400
0.0582 1 .
6972 O      O      . HOH HOH HOH S . 323 323 . 0.3971 0.4566 0.4491 0.0290 -0.0102 -
0.0767 1 .
6973 O      O      . HOH HOH HOH S . 324 324 . 0.3298 0.3197 0.2986 -0.0442 0.0034
0.0388 1 .
6974 O      O      . HOH HOH HOH S . 325 325 . 0.2669 0.3120 0.3241 -0.0304 -0.0547
0.1500 1 .
6975 O      O      . HOH HOH HOH S . 326 326 . 0.2785 0.3384 0.3147 -0.0163 -0.0139 -
0.0449 1 .

```

```

#
_atom_sites.entry_id      UNNAMED
_atom_sites.fract_transf_matrix[1][1]  0.009460
_atom_sites.fract_transf_matrix[1][2]  0.000000
_atom_sites.fract_transf_matrix[1][3]  0.000000
_atom_sites.fract_transf_matrix[2][1]  0.000000
_atom_sites.fract_transf_matrix[2][2]  0.008430
_atom_sites.fract_transf_matrix[2][3]  0.000000
_atom_sites.fract_transf_matrix[3][1]  0.000000
_atom_sites.fract_transf_matrix[3][2]  0.000000
_atom_sites.fract_transf_matrix[3][3]  0.014797
_atom_sites.fract_transf_vector[1]     0.000000
_atom_sites.fract_transf_vector[2]     0.000000
_atom_sites.fract_transf_vector[3]     0.000000

```



```

#
_cell.length_a      105.708
_cell.length_b      118.623
_cell.length_c       67.579
_cell.angle_alpha   90.000
_cell.angle_beta    90.000
_cell.angle_gamma   90.000
_cell.entry_id      UNNAMED
#
_computing.entry_id          UNNAMED
_computing.structure_refinement  'REFMAC 5.5.0109'
_computing.structure_solution   ?
_computing.pdbx_data_reduction_ds  HKL
_computing.pdbx_data_reduction_ii  HKL
_computing.cell_refinement        HKL
#
_data_extraction.software        pdb_extract
_data_extraction.extraction_date  'Fri Oct 21 12:10:52 2011'
_data_extraction.version         3.10
_data_extraction.release_date     'June 10, 2010'
_data_extraction.location         http://sw-tools.rcsb.org/apps/PDB_EXTRACT/
#
loop_
_database_2.database_id
_database_2.database_code
PDB UNNAMED
RCSB UNNAMED
#
_database_PDB_remark.id      3
_database_PDB_remark.text
;
REMARK 3
REMARK 3 REFINEMENT.
REMARK 3 PROGRAM : REFMAC 5.5.0109
REMARK 3 AUTHORS : MURSHUDOV,VAGIN,DODSON
REMARK 3
REMARK 3 REFINEMENT TARGET : MAXIMUM LIKELIHOOD
REMARK 3
REMARK 3 DATA USED IN REFINEMENT.
REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS) : 1.41
REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS) : 78.92
REMARK 3 DATA CUTOFF (SIGMA(F)) : NONE
REMARK 3 COMPLETENESS FOR RANGE (%) : 94.05
REMARK 3 NUMBER OF REFLECTIONS : 145027
REMARK 3
REMARK 3 FIT TO DATA USED IN REFINEMENT.
REMARK 3 CROSS-VALIDATION METHOD : THROUGHOUT
REMARK 3 FREE R VALUE TEST SET SELECTION : RANDOM
REMARK 3 R VALUE (WORKING + TEST SET) : 0.16321
REMARK 3 R VALUE (WORKING SET) : 0.16144
REMARK 3 FREE R VALUE : 0.19730
REMARK 3 FREE R VALUE TEST SET SIZE (%) : 5.0
REMARK 3 FREE R VALUE TEST SET COUNT : 7677
REMARK 3
REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK 3 TOTAL NUMBER OF BINS USED : 20
REMARK 3 BIN RESOLUTION RANGE HIGH : 1.414
REMARK 3 BIN RESOLUTION RANGE LOW : 1.450
REMARK 3 REFLECTION IN BIN (WORKING SET) : 5532
REMARK 3 BIN COMPLETENESS (WORKING+TEST) (%) : 49.70

```

REMARK 3 BIN R VALUE (WORKING SET) : 0.327  
REMARK 3 BIN FREE R VALUE SET COUNT : 312  
REMARK 3 BIN FREE R VALUE : 0.382  
REMARK 3  
REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.  
REMARK 3 ALL ATOMS : 6980  
REMARK 3  
REMARK 3 B VALUES.  
REMARK 3 FROM WILSON PLOT (A\*\*2) : NULL  
REMARK 3 MEAN B VALUE (OVERALL, A\*\*2) : 13.184  
REMARK 3 OVERALL ANISOTROPIC B VALUE.  
REMARK 3 B11 (A\*\*2) : 0.36  
REMARK 3 B22 (A\*\*2) : -0.32  
REMARK 3 B33 (A\*\*2) : -0.04  
REMARK 3 B12 (A\*\*2) : 0.00  
REMARK 3 B13 (A\*\*2) : 0.00  
REMARK 3 B23 (A\*\*2) : 0.00  
REMARK 3  
REMARK 3 ESTIMATED OVERALL COORDINATE ERROR.  
REMARK 3 ESU BASED ON R VALUE (A) : 0.069  
REMARK 3 ESU BASED ON FREE R VALUE (A) : 0.064  
REMARK 3 ESU BASED ON MAXIMUM LIKELIHOOD (A) : 0.036  
REMARK 3 ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A\*\*2) : 2.019  
REMARK 3  
REMARK 3 CORRELATION COEFFICIENTS.  
REMARK 3 CORRELATION COEFFICIENT FO-FC : 0.964  
REMARK 3 CORRELATION COEFFICIENT FO-FC FREE : 0.951  
REMARK 3  
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES COUNT RMS WEIGHT  
REMARK 3 BOND LENGTHS REFINED ATOMS (A) : 6754 ; 0.026 ; 0.022  
REMARK 3 BOND ANGLES REFINED ATOMS (DEGREES) : 9139 ; 2.131 ; 1.970  
REMARK 3 TORSION ANGLES, PERIOD 1 (DEGREES) : 864 ; 6.017 ; 5.000  
REMARK 3 TORSION ANGLES, PERIOD 2 (DEGREES) : 308 ; 40.444 ; 25.000  
REMARK 3 TORSION ANGLES, PERIOD 3 (DEGREES) : 1162 ; 13.968 ; 15.000  
REMARK 3 TORSION ANGLES, PERIOD 4 (DEGREES) : 40 ; 21.789 ; 15.000  
REMARK 3 CHIRAL-CENTER RESTRAINTS (A\*\*3) : 1025 ; 0.159 ; 0.200  
REMARK 3 GENERAL PLANES REFINED ATOMS (A) : 5116 ; 0.013 ; 0.021  
REMARK 3  
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT  
REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A\*\*2) : 4280 ; 2.275 ; 1.500  
REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A\*\*2) : 6843 ; 3.192 ; 2.000  
REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A\*\*2) : 2474 ; 5.146 ; 3.000  
REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A\*\*2) : 2296 ; 7.670 ; 4.500  
REMARK 3  
REMARK 3 ANISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT  
REMARK 3 RIGID-BOND RESTRAINTS (A\*\*2) : 6754 ; 2.761 ; 3.000  
REMARK 3  
REMARK 3 NCS RESTRAINTS STATISTICS  
REMARK 3 NUMBER OF NCS GROUPS : NULL  
REMARK 3  
REMARK 3 TWIN DETAILS  
REMARK 3 NUMBER OF TWIN DOMAINS : NULL  
REMARK 3  
REMARK 3  
REMARK 3 TLS DETAILS  
REMARK 3 NUMBER OF TLS GROUPS : NULL  
REMARK 3  
REMARK 3  
REMARK 3 BULK SOLVENT MODELLING.  
REMARK 3 METHOD USED : MASK

```

REMARK 3 PARAMETERS FOR MASK CALCULATION
REMARK 3 VDW PROBE RADIUS : 1.40
REMARK 3 ION PROBE RADIUS : 0.80
REMARK 3 SHRINKAGE RADIUS : 0.80
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS:
REMARK 3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
REMARK 3 U VALUES : REFINED INDIVIDUALLY
REMARK 3

```

```

;
#
_entity_poly.entity_id 1
_entity_poly.pdbx_seq_one_letter_code
;SIQKIWAREILDSRGNPTVEVDLYTAKGLFRAAVPSGASTGIYEALELRDGDQRYLGKG
VLKAVDHNSTIAPALISSGLSVVEQEKLDNLMLELDGTENKSKFGANAILGVSLAVCKA
GAAERELPLYRHIAQLAGNSDLILPVPAFNIVINGGSHAGNKLAMQEFMILPVGAEFRDA
MRLGAEVYHTLKGVIKDKYGKDATNVGDEGGFAPNILENSEALELVKEAIDKAGYTEKIV
IGMDVAASEFYRDGKYDLDFKSPTDPSRYITGDQLGALYQDFVRDYPVVSIEDPFDQDDW
AAWSKFTANVGIQIVGDDLTVTNPKRIERAVEREAKACNCLLLKVNQIGSVTEAIQACKLAQ
ENGGWVMVSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEELGDEA
RFAGHNFRNPSVL

```

```

;
_entity_poly.pdbx_strand_id A,B
_entity_poly.type 'polypeptide(L)'
_entity_poly.pdbx_target_identifier ?
#

```

```

_entry.id UNNAMED
#

```

```

_exptl.crystals_number 1
_exptl.entry_id UNNAMED
_exptl.method 'X-RAY DIFFRACTION'
#

```

```

_exptl_crystal.id 1
_exptl_crystal.pdbx_mosaicity 0.523
_exptl_crystal.pdbx_mosaicity_esd ?
_exptl_crystal.density_Matthews ?
_exptl_crystal.density_diffn ?
_exptl_crystal.density_meas ?
_exptl_crystal.density_meas_temp ?
_exptl_crystal.density_percent_sol ?
_exptl_crystal.size_max ?
_exptl_crystal.size_mid ?
_exptl_crystal.size_min ?
_exptl_crystal.size_rad ?
#

```

```

_refine.entry_id UNNAMED
_refine.pdbx_refine_id 'X-RAY DIFFRACTION'
_refine.ls_d_res_high 1.4100
_refine.ls_d_res_low 78.9200
_refine.pdbx_ls_sigma_F 0.000
_refine.pdbx_data_cutoff_high_absF ?
_refine.pdbx_data_cutoff_low_absF ?
_refine.ls_percent_reflns_obs 94.0500
_refine.ls_number_reflns_obs 152704
_refine.ls_number_reflns_all ?
_refine.pdbx_ls_cross_valid_method THROUGHOUT
_refine.ls_matrix_type ?
_refine.pdbx_R_Free_selection_details RANDOM
_refine.details

```

```

' HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS U VALUES      : REFINED
INDIVIDUALLY '
_refine.ls_R_factor_all                ?
_refine.ls_R_factor_obs                0.1632
_refine.ls_R_factor_R_work            0.1614
_refine.ls_wR_factor_R_work           0.1530
_refine.ls_R_factor_R_free            0.1973
_refine.ls_wR_factor_R_free           0.1790
_refine.ls_percent_reflns_R_free      5.0000
_refine.ls_number_reflns_R_free       7677
_refine.ls_number_reflns_R_work       145027
_refine.ls_R_factor_R_free_error      ?
_refine.B_iso_mean                    13.1624
_refine.solvent_model_param_bsol      ?
_refine.solvent_model_param_ksol      ?
_refine.pdbx_isotropic_thermal_model  ?
_refine.aniso_B[1][1]                 0.3600
_refine.aniso_B[2][2]                 -0.3200
_refine.aniso_B[3][3]                 -0.0400
_refine.aniso_B[1][2]                 0.0000
_refine.aniso_B[1][3]                 0.0000
_refine.aniso_B[2][3]                 0.0000
_refine.correlation_coeff_Fo_to_Fc    0.9640
_refine.correlation_coeff_Fo_to_Fc_free 0.9510
_refine.overall_SU_R_Cruickshank_DPI  0.0690
_refine.pdbx_overall_SU_R_free_Cruickshank_DPI ?
_refine.pdbx_overall_SU_R_Blow_DPI    ?
_refine.pdbx_overall_SU_R_free_Blow_DPI ?
_refine.overall_SU_R_free             0.0635
_refine.pdbx_overall_ESU_R            0.0690
_refine.pdbx_overall_ESU_R_Free       0.0640
_refine.overall_SU_ML                 0.0360
_refine.overall_SU_B                  2.0190
_refine.solvent_model_details         MASK
_refine.pdbx_solvent_vdw_probe_radii  1.4000
_refine.pdbx_solvent_ion_probe_radii  0.8000
_refine.pdbx_solvent_shrinkage_radii  0.8000
_refine.ls_number_parameters          ?
_refine.ls_number_restraints          ?
_refine.pdbx_starting_model           ?
_refine.pdbx_method_to_determine_struct ?
_refine.pdbx_stereochemistry_target_values 'MAXIMUM LIKELIHOOD'
_refine.pdbx_stereochem_target_val_spec_case ?
_refine.overall_FOM_work_R_set        0.9010
_refine.B_iso_max                     258.630
_refine.B_iso_min                     4.380
_refine.pdbx_overall_phase_error      ?
_refine.occupancy_max                 1.000
_refine.occupancy_min                 1.000
#
loop_
_refine_ls_restr.pdbx_refine_id
_refine_ls_restr.type
_refine_ls_restr.number
_refine_ls_restr.dev_ideal
_refine_ls_restr.dev_ideal_target
_refine_ls_restr.weight
_refine_ls_restr.pdbx_restraint_function
'X-RAY DIFFRACTION' r_bond_refined_d    6754 0.026  0.022  ? ?
'X-RAY DIFFRACTION' r_angle_refined_deg  9139 2.131  1.970  ? ?

```

'X-RAY DIFFRACTION'	r_dihedral_angle_1_deg	864	6.017	5.000	??
'X-RAY DIFFRACTION'	r_dihedral_angle_2_deg	308	40.444	25.000	??
'X-RAY DIFFRACTION'	r_dihedral_angle_3_deg	1162	13.968	15.000	??
'X-RAY DIFFRACTION'	r_dihedral_angle_4_deg	40	21.789	15.000	??
'X-RAY DIFFRACTION'	r_chiral_restr	1025	0.159	0.200	??
'X-RAY DIFFRACTION'	r_gen_planes_refined	5116	0.013	0.021	??
'X-RAY DIFFRACTION'	r_mcbond_it	4280	2.275	1.500	??
'X-RAY DIFFRACTION'	r_mcbond_it	6843	3.192	2.000	??
'X-RAY DIFFRACTION'	r_scbond_it	2474	5.146	3.000	??
'X-RAY DIFFRACTION'	r_scangle_it	2296	7.670	4.500	??
'X-RAY DIFFRACTION'	r_rigid_bond_restr	6754	2.761	3.000	??
#					
	_refine_ls_shell.d_res_high		1.4140		
	_refine_ls_shell.d_res_low		1.4500		
	_refine_ls_shell.pdbx_total_number_of_bins_used		20		
	_refine_ls_shell.percent_reflns_obs		49.7000		
	_refine_ls_shell.number_reflns_R_work		5532		
	_refine_ls_shell.R_factor_all		?		
	_refine_ls_shell.R_factor_R_work		0.3270		
	_refine_ls_shell.R_factor_R_free		0.3820		
	_refine_ls_shell.percent_reflns_R_free		?		
	_refine_ls_shell.number_reflns_R_free		312		
	_refine_ls_shell.R_factor_R_free_error		?		
	_refine_ls_shell.number_reflns_all		5844		
	_refine_ls_shell.number_reflns_obs		?		
	_refine_ls_shell.pdbx_refine_id		'X-RAY DIFFRACTION'		
#					
	_reflns.entry_id	UNNAMED			
	_reflns.d_resolution_high	1.410			
	_reflns.d_resolution_low	50.000			
	_reflns.pdbx_number_measured_all	959533			
	_reflns.number_obs	153055			
	_reflns.pdbx_Rmerge_I_obs	0.067			
	_reflns.pdbx_netI_over_av_sigmaI	21.307			
	_reflns.pdbx_netI_over_sigmaI	9.600			
	_reflns.pdbx_chi_squared	0.824			
	_reflns.pdbx_redundancy	6.300			
	_reflns.percent_possible_obs	94.300			
	_reflns.pdbx_Rmeas_mean	0.067			
	_reflns.pdbx_average_I_obs	2086.000			
	_reflns.pdbx_average_sigmaI_obs	97.900			
#					
loop_					
	_reflns_shell.d_res_high				
	_reflns_shell.d_res_low				
	_reflns_shell.number_measured_obs				
	_reflns_shell.number_measured_all				
	_reflns_shell.number_unique_obs				
	_reflns_shell.pdbx_rejects				
	_reflns_shell.Rmerge_I_obs				
	_reflns_shell.meanI_over_sigI_obs				
	_reflns_shell.pdbx_Rsym_value				
	_reflns_shell.pdbx_chi_squared				
	_reflns_shell.pdbx_redundancy				
	_reflns_shell.percent_possible_obs				
	_reflns_shell.pdbx_Rmeas_mean				
	_reflns_shell.pdbx_netI_over_sigmaI_obs				
	_reflns_shell.pdbx_number_centric				
	_reflns_shell.pdbx_number_anomalous				
	_reflns_shell.pdbx_Rmerge_I_anomalous				

```

_reflns_shell.pdbx_meanI_over_sigI_anomalous
_reflns_shell.pdbx_PCV_mean
_reflns_shell.number_possible
_reflns_shell.number_unique_all
_reflns_shell.Rmerge_F_all
_reflns_shell.Rmerge_F_obs
_reflns_shell.Rmerge_I_all
_reflns_shell.meanI_over_sigI_all
_reflns_shell.percent_possible_all
_reflns_shell.pdbx_Rrim_I_all
_reflns_shell.pdbx_Rpim_I_all
1.410 1.460 ? ? ? ? 0.554 ? ? 0.601 2.300 ? ? ? ? ? ? ? ? ? ? 9215 ? ? ? ? 57.500 ?
?
1.460 1.520 ? ? ? ? 0.483 ? ? 0.621 3.800 ? ? ? ? ? ? ? ? ? ? 14496 ? ? ? ? 90.400 ?
?
1.520 1.590 ? ? ? ? 0.398 ? ? 0.642 5.600 ? ? ? ? ? ? ? ? ? ? 15758 ? ? ? ? 97.900 ?
?
1.590 1.670 ? ? ? ? 0.300 ? ? 0.658 6.400 ? ? ? ? ? ? ? ? ? ? 15895 ? ? ? ? 98.800 ?
?
1.670 1.780 ? ? ? ? 0.223 ? ? 0.660 6.700 ? ? ? ? ? ? ? ? ? ? 16006 ? ? ? ? 99.200 ?
?
1.780 1.910 ? ? ? ? 0.149 ? ? 0.677 7.000 ? ? ? ? ? ? ? ? ? ? 16078 ? ? ? ? 99.500 ?
?
1.910 2.110 ? ? ? ? 0.091 ? ? 0.717 7.200 ? ? ? ? ? ? ? ? ? ? 16152 ? ? ? ? 99.700 ?
?
2.110 2.410 ? ? ? ? 0.064 ? ? 0.857 7.300 ? ? ? ? ? ? ? ? ? ? 16245 ? ? ? ? 99.900 ?
?
2.410 3.040 ? ? ? ? 0.053 ? ? 1.236 7.300 ? ? ? ? ? ? ? ? ? ? 16370 ? ? ? ? 100.000 ?
?
3.040 50.000 ? ? ? ? 0.030 ? ? 1.146 7.100 ? ? ? ? ? ? ? ? ? ? 16840 ? ? ? ? 99.900 ?
?
#
loop_
_software.pdbx_ordinal
_software.name
_software.version
_software.date
_software.type
_software.contact_author
_software.contact_author_email
_software.classification
_software.location
_software.language
1 HKL ? ? package 'Zbyszek Otwinowski' hkl@hkl-xray.com
'data reduction' http://www.hkl-xray.com/ ?
2 REFMAC5 ? ? program 'Garib N. Murshudov' garib@ysbl.york.ac.uk
refinement http://www.ccp4.ac.uk/dist/html/refmac5.html Fortran_77
3 pdb_extract 3.10 'June 10, 2010' package PDB
deposit@deposit.rcsb.org
'data extraction' http://sw-tools.pdb.org/apps/PDB_EXTRACT/ C++
#
_struct_biol.id 1
_struct_biol.details ?
#
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ATOM 7249 O O . HOH HOH HOH S . 603 603 . 75.482 85.657 33.928 1.00 30.21 1
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ATOM 7250 O O . HOH HOH HOH S . 605 605 . 69.752 105.869 22.065 1.00 25.18 1
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ATOM 7251 O O . HOH HOH HOH S . 606 606 . 86.991 126.721 0.880 1.00 29.71 1
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ATOM 7252 O O . HOH HOH HOH S . 609 609 . 82.466 114.175 21.857 1.00 39.35 1
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ATOM 7253 O O . HOH HOH HOH S . 610 610 . 96.523 106.702 -20.892 1.00 33.52 1
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ATOM 7254 O O . HOH HOH HOH S . 613 613 . 88.298 81.611 4.017 1.00 30.74 1
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ATOM 7255 O O . HOH HOH HOH S . 615 615 . 101.510 102.123 45.474 1.00 26.37 1
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7 N N . ILE ILE ILE A A 2 2 . 0.0929 0.0844 0.0991 -0.0045 0.0119 -
0.0001 1 .
8 CA CA . ILE ILE ILE A A 2 2 . 0.0763 0.0807 0.0867 -0.0040 -0.0016
0.0018 1 .
9 CB CB . ILE ILE ILE A A 2 2 . 0.0402 0.0531 0.0474 -0.0007 -0.0040 -
0.0110 1 .
10 CG1 CG1 . ILE ILE ILE A A 2 2 . 0.0454 0.0686 0.0557 -0.0036 -0.0130 -
0.0266 1 .
11 CD1 CD1 . ILE ILE ILE A A 2 2 . 0.0406 0.0744 0.0452 0.0007 -0.0029
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12 CG2 CG2 . ILE ILE ILE A A 2 2 . 0.0428 0.0487 0.0308 -0.0179 -0.0041 -
0.0004 1 .

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1003	CD1	CD1	. ILE ILE ILE A A 133 133 .	0.0586	0.0289	0.0436	-0.0045	0.0155	
0.0037	1	.							
1004	CG2	CG2	. ILE ILE ILE A A 133 133 .	0.0253	0.0254	0.0254	0.0000	0.0000	
0.0001	1	.							
1005	C	C	. ILE ILE ILE A A 133 133 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1006	O	O	. ILE ILE ILE A A 133 133 .	0.0283	0.0283	0.0274	0.0029	0.0025	
0.0025	1	.							
1007	N	N	. ALA ALA ALA A A 134 134 .	0.0255	0.0262	0.0257	-0.0003	0.0002	-
0.0005	1	.							
1008	CA	CA	. ALA ALA ALA A A 134 134 .	0.0329	0.0281	0.0266	-0.0046	0.0032	-
0.0019	1	.							
1009	CB	CB	. ALA ALA ALA A A 134 134 .	0.0300	0.0288	0.0330	0.0040	0.0060	
0.0051	1	.							
1010	C	C	. ALA ALA ALA A A 134 134 .	0.0456	0.0483	0.0398	-0.0071	0.0088	-
0.0007	1	.							
1011	O	O	. ALA ALA ALA A A 134 134 .	0.0496	0.0482	0.0496	0.0013	0.0085	
0.0162	1	.							
1012	N	N	. GLN GLN GLN A A 135 135 .	0.0393	0.0516	0.0351	-0.0091	0.0065	
0.0073	1	.							
1013	CA	CA	. GLN GLN GLN A A 135 135 .	0.0602	0.0535	0.0504	-0.0129	0.0075	
0.0102	1	.							
1014	CB	CB	. GLN GLN GLN A A 135 135 .	0.0640	0.0763	0.0518	-0.0160	0.0136	
0.0014	1	.							
1015	CG	CG	. GLN GLN GLN A A 135 135 .	0.1119	0.0878	0.0955	-0.0077	-0.0103	
0.0000	1	.							
1016	CD	CD	. GLN GLN GLN A A 135 135 .	0.1498	0.1649	0.1919	-0.0065	0.0150	-
0.0059	1	.							
1017	OE1	OE1	. GLN GLN GLN A A 135 135 .	0.2128	0.1690	0.2036	-0.0131	-0.0041	
0.0280	1	.							
1018	NE2	NE2	. GLN GLN GLN A A 135 135 .	0.1203	0.1843	0.1416	-0.0287	0.0075	-
0.0275	1	.							
1019	C	C	. GLN GLN GLN A A 135 135 .	0.0484	0.0422	0.0427	-0.0190	-0.0019	-
0.0029	1	.							
1020	O	O	. GLN GLN GLN A A 135 135 .	0.0800	0.0650	0.0451	0.0011	0.0153	
0.0088	1	.							
1021	N	N	. LEU LEU LEU A A 136 136 .	0.0422	0.0313	0.0317	-0.0044	0.0079	
0.0015	1	.							
1022	CA	CA	. LEU LEU LEU A A 136 136 .	0.0704	0.0570	0.0510	0.0016	0.0007	
0.0069	1	.							
1023	CB	CB	. LEU LEU LEU A A 136 136 .	0.0374	0.0313	0.0568	-0.0023	0.0177	
0.0015	1	.							
1024	CG	CG	. LEU LEU LEU A A 136 136 .	0.0374	0.0314	0.0468	-0.0011	0.0045	
0.0104	1	.							
1025	CD1	CD1	. LEU LEU LEU A A 136 136 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1026	CD2	CD2	. LEU LEU LEU A A 136 136 .	0.0561	0.0467	0.0433	-0.0227	0.0155	-
0.0046	1	.							
1027	C	C	. LEU LEU LEU A A 136 136 .	0.0723	0.0493	0.0542	-0.0021	0.0025	
0.0030	1	.							
1028	O	O	. LEU LEU LEU A A 136 136 .	0.1124	0.1046	0.0963	0.0016	-0.0103	
0.0069	1	.							
1029	N	N	. ALA ALA ALA A A 137 137 .	0.0902	0.0668	0.0434	-0.0110	0.0069	
0.0064	1	.							
1030	CA	CA	. ALA ALA ALA A A 137 137 .	0.0735	0.0780	0.0624	-0.0082	0.0144	
0.0052	1	.							
1031	CB	CB	. ALA ALA ALA A A 137 137 .	0.0860	0.0659	0.0691	-0.0126	0.0050	
0.0070	1	.							
1032	C	C	. ALA ALA ALA A A 137 137 .	0.0896	0.1008	0.0819	0.0010	0.0023	
0.0001	1	.							

1033	O	O	. ALA ALA ALA A A	137 137	. 0.1165 0.1322 0.0950 0.0113 0.0011
0.0198	1	.			
1034	N	N	. GLY GLY GLY A A	138 138	. 0.1000 0.1021 0.0868 -0.0026 0.0130
0.0023	1	.			
1035	CA	CA	. GLY GLY GLY A A	138 138	. 0.1315 0.1152 0.1029 0.0042 0.0121
0.0054	1	.			
1036	C	C	. GLY GLY GLY A A	138 138	. 0.1336 0.1295 0.1184 -0.0109 0.0000
0.0008	1	.			
1037	O	O	. GLY GLY GLY A A	138 138	. 0.1847 0.1548 0.1669 -0.0057 -0.0074
0.0039	1	.			
1038	N	N	. ASN ASN ASN A A	139 139	. 0.1235 0.1372 0.1369 -0.0069 -0.0059 -
0.0019	1	.			
1039	CA	CA	. ASN ASN ASN A A	139 139	. 0.1386 0.1386 0.1389 -0.0024 0.0049
0.0063	1	.			
1040	CB	CB	. ASN ASN ASN A A	139 139	. 0.1175 0.1284 0.0930 -0.0071 0.0088
0.0179	1	.			
1041	CG	CG	. ASN ASN ASN A A	139 139	. 0.1256 0.1120 0.1115 0.0055 0.0087
0.0156	1	.			
1042	OD1	OD1	. ASN ASN ASN A A	139 139	. 0.2187 0.2211 0.1207 0.0266 0.0055
0.0078	1	.			
1043	ND2	ND2	. ASN ASN ASN A A	139 139	. 0.1302 0.1033 0.1002 0.0109 0.0050 -
0.0173	1	.			
1044	C	C	. ASN ASN ASN A A	139 139	. 0.1530 0.1651 0.1559 -0.0073 0.0014
0.0016	1	.			
1045	O	O	. ASN ASN ASN A A	139 139	. 0.1741 0.1738 0.1512 -0.0026 0.0200 -
0.0062	1	.			
1046	N	N	. SER SER SER A A	140 140	. 0.2091 0.2029 0.2051 0.0054 0.0053
0.0033	1	.			
1047	CA	CA	. SER SER SER A A	140 140	. 0.2462 0.2527 0.2534 0.0008 0.0077
0.0006	1	.			
1048	CB	CB	. SER SER SER A A	140 140	. 0.2452 0.2609 0.2593 0.0046 0.0107 -
0.0015	1	.			
1049	OG	OG	. SER SER SER A A	140 140	. 0.3172 0.3262 0.3389 0.0128 0.0297 -
0.0030	1	.			
1050	C	C	. SER SER SER A A	140 140	. 0.2584 0.2582 0.2545 0.0069 0.0036 -
0.0006	1	.			
1051	O	O	. SER SER SER A A	140 140	. 0.2610 0.2734 0.2831 0.0143 0.0079 -
0.0094	1	.			
1052	N	N	. ASP ASP ASP A A	141 141	. 0.2519 0.2512 0.2384 -0.0033 0.0069 -
0.0056	1	.			
1053	CA	CA	. ASP ASP ASP A A	141 141	. 0.2394 0.2462 0.2379 -0.0019 0.0098
0.0022	1	.			
1054	CB	CB	. ASP ASP ASP A A	141 141	. 0.2443 0.2571 0.2465 0.0016 -0.0049 -
0.0025	1	.			
1055	CG	CG	. ASP ASP ASP A A	141 141	. 0.3177 0.3086 0.3228 -0.0166 0.0081
0.0123	1	.			
1056	OD1	OD1	. ASP ASP ASP A A	141 141	. 0.4182 0.4481 0.3678 -0.0379 -0.0511
0.0268	1	.			
1057	OD2	OD2	. ASP ASP ASP A A	141 141	. 0.3347 0.3384 0.3757 0.0207 0.0192
0.0191	1	.			
1058	C	C	. ASP ASP ASP A A	141 141	. 0.2139 0.2069 0.2089 -0.0028 -0.0037
0.0046	1	.			
1059	O	O	. ASP ASP ASP A A	141 141	. 0.2166 0.2160 0.2303 -0.0185 -0.0081
0.0065	1	.			
1060	N	N	. LEU LEU LEU A A	142 142	. 0.1589 0.1612 0.1522 -0.0135 -0.0009 -
0.0022	1	.			
1061	CA	CA	. LEU LEU LEU A A	142 142	. 0.0980 0.0952 0.1030 -0.0106 0.0012
0.0002	1	.			
1062	CB	CB	. LEU LEU LEU A A	142 142	. 0.0912 0.0465 0.0500 -0.0213 0.0072 -
0.0016	1	.			

1063	CG	CG	. LEU LEU LEU A A 142 142 .	0.1022	0.1327	0.1392	-0.0417	0.0067	
0.0156	1	.							
1064	CD1	CD1	. LEU LEU LEU A A 142 142 .	0.1975	0.1750	0.1631	-0.0273	0.0254	
0.0450	1	.							
1065	CD2	CD2	. LEU LEU LEU A A 142 142 .	0.1135	0.1644	0.1701	-0.0372	0.0384	-
0.0067	1	.							
1066	C	C	. LEU LEU LEU A A 142 142 .	0.0930	0.0953	0.0867	-0.0051	0.0012	-
0.0171	1	.							
1067	O	O	. LEU LEU LEU A A 142 142 .	0.0864	0.1072	0.1075	-0.0014	0.0129	-
0.0200	1	.							
1068	N	N	. ILE ILE ILE A A 143 143 .	0.0550	0.0770	0.0805	-0.0153	-0.0033	-
0.0030	1	.							
1069	CA	CA	. ILE ILE ILE A A 143 143 .	0.0677	0.0640	0.0522	-0.0047	-0.0051	
0.0098	1	.							
1070	CB	CB	. ILE ILE ILE A A 143 143 .	0.0983	0.1195	0.0953	-0.0086	-0.0014	
0.0214	1	.							
1071	CG1	CG1	. ILE ILE ILE A A 143 143 .	0.1744	0.1879	0.1281	0.0082	0.0086	
0.0020	1	.							
1072	CD1	CD1	. ILE ILE ILE A A 143 143 .	0.2131	0.1716	0.2067	-0.0181	-0.0146	-
0.0389	1	.							
1073	CG2	CG2	. ILE ILE ILE A A 143 143 .	0.1437	0.1894	0.1203	0.0249	-0.0172	
0.0485	1	.							
1074	C	C	. ILE ILE ILE A A 143 143 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1075	O	O	. ILE ILE ILE A A 143 143 .	0.0378	0.0550	0.0432	-0.0011	0.0088	
0.0178	1	.							
1076	N	N	. LEU LEU LEU A A 144 144 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1077	CA	CA	. LEU LEU LEU A A 144 144 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1078	CB	CB	. LEU LEU LEU A A 144 144 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1079	CG	CG	. LEU LEU LEU A A 144 144 .	0.0254	0.0263	0.0253	0.0003	0.0000	
0.0000	1	.							
1080	CD1	CD1	. LEU LEU LEU A A 144 144 .	0.0561	0.0323	0.0317	0.0146	-0.0133	-
0.0066	1	.							
1081	CD2	CD2	. LEU LEU LEU A A 144 144 .	0.0455	0.0350	0.0304	-0.0009	0.0027	-
0.0005	1	.							
1082	C	C	. LEU LEU LEU A A 144 144 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1083	O	O	. LEU LEU LEU A A 144 144 .	0.0262	0.0259	0.0256	-0.0007	0.0005	-
0.0004	1	.							
1084	N	N	. PRO PRO PRO A A 145 145 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1085	CA	CA	. PRO PRO PRO A A 145 145 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1086	CB	CB	. PRO PRO PRO A A 145 145 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1087	CG	CG	. PRO PRO PRO A A 145 145 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1088	CD	CD	. PRO PRO PRO A A 145 145 .	0.0254	0.0267	0.0268	-0.0003	0.0003	-
0.0014	1	.							
1089	C	C	. PRO PRO PRO A A 145 145 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1090	O	O	. PRO PRO PRO A A 145 145 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1091	N	N	. VAL VAL VAL A A 146 146 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1092	CA	CA	. VAL VAL VAL A A 146 146 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							









1183	C	C	. GLY GLY GLY A A 159 159 .	0.0717	0.0573	0.0646	-0.0098	-0.0037	-
0.0037	1	.							
1184	O	O	. GLY GLY GLY A A 159 159 .	0.0981	0.1141	0.1189	-0.0116	0.0111	-
0.0005	1	.							
1185	N	N	. ASN ASN ASN A A 160 160 .	0.0487	0.0361	0.0559	-0.0118	-0.0082	-
0.0033	1	.							
1186	CA	CA	. ASN ASN ASN A A 160 160 .	0.0545	0.0609	0.0534	0.0001	0.0015	-
0.0060	1	.							
1187	CB	CB	. ASN ASN ASN A A 160 160 .	0.0353	0.0384	0.0398	0.0016	0.0118	-
0.0043	1	.							
1188	CG	CG	. ASN ASN ASN A A 160 160 .	0.0253	0.0253	0.0253	0.0000	0.0000	-
0.0000	1	.							
1189	OD1	OD1	. ASN ASN ASN A A 160 160 .	0.0335	0.0264	0.0409	0.0028	0.0108	-
0.0032	1	.							
1190	ND2	ND2	. ASN ASN ASN A A 160 160 .	0.0389	0.0282	0.0393	-0.0063	0.0138	-
0.0063	1	.							
1191	C	C	. ASN ASN ASN A A 160 160 .	0.0376	0.0324	0.0344	-0.0076	0.0002	-
0.0044	1	.							
1192	O	O	. ASN ASN ASN A A 160 160 .	0.0427	0.0598	0.0555	0.0144	0.0103	-
0.0097	1	.							
1193	N	N	. LYS LYS LYS A A 161 161 .	0.0518	0.0558	0.0434	0.0072	0.0052	-
0.0125	1	.							
1194	CA	CA	. LYS LYS LYS A A 161 161 .	0.0455	0.0522	0.0459	-0.0079	-0.0021	-
0.0165	1	.							
1195	CB	CB	. LYS LYS LYS A A 161 161 .	0.0602	0.0596	0.0784	-0.0266	0.0026	-
0.0020	1	.							
1196	CG	CG	. LYS LYS LYS A A 161 161 .	0.0816	0.0646	0.0807	0.0023	0.0064	-
0.0005	1	.							
1197	CD	CD	. LYS LYS LYS A A 161 161 .	0.1280	0.1798	0.1754	-0.0095	-0.0128	-
0.0136	1	.							
1198	CE	CE	. LYS LYS LYS A A 161 161 .	0.2286	0.2350	0.2332	-0.0155	0.0085	-
0.0099	1	.							
1199	NZ	NZ	. LYS LYS LYS A A 161 161 .	0.2209	0.2605	0.2787	-0.0492	0.0076	-
0.0341	1	.							
1200	C	C	. LYS LYS LYS A A 161 161 .	0.0391	0.0356	0.0558	0.0015	0.0048	-
0.0002	1	.							
1201	O	O	. LYS LYS LYS A A 161 161 .	0.0478	0.0655	0.0544	-0.0004	0.0028	-
0.0090	1	.							
1202	N	N	. LEU LEU LEU A A 162 162 .	0.0370	0.0582	0.0466	0.0003	0.0079	-
0.0044	1	.							
1203	CA	CA	. LEU LEU LEU A A 162 162 .	0.0321	0.0291	0.0363	0.0024	0.0018	-
0.0061	1	.							
1204	CB	CB	. LEU LEU LEU A A 162 162 .	0.0328	0.0328	0.0505	-0.0063	0.0105	-
0.0041	1	.							
1205	CG	CG	. LEU LEU LEU A A 162 162 .	0.0282	0.0358	0.0444	-0.0054	0.0038	-
0.0093	1	.							
1206	CD1	CD1	. LEU LEU LEU A A 162 162 .	0.0396	0.0484	0.0410	0.0018	0.0012	-
0.0187	1	.							
1207	CD2	CD2	. LEU LEU LEU A A 162 162 .	0.0331	0.0368	0.0491	-0.0009	-0.0033	-
0.0156	1	.							
1208	C	C	. LEU LEU LEU A A 162 162 .	0.0496	0.0529	0.0476	-0.0067	-0.0045	-
0.0030	1	.							
1209	O	O	. LEU LEU LEU A A 162 162 .	0.0642	0.0379	0.0473	-0.0054	-0.0062	-
0.0093	1	.							
1210	N	N	. ALA ALA ALA A A 163 163 .	0.0285	0.0311	0.0381	-0.0024	-0.0030	-
0.0085	1	.							
1211	CA	CA	. ALA ALA ALA A A 163 163 .	0.0260	0.0255	0.0274	0.0003	-0.0012	-
0.0006	1	.							
1212	CB	CB	. ALA ALA ALA A A 163 163 .	0.0487	0.0455	0.0661	0.0070	-0.0001	-
0.0095	1	.							











1363	CZ	CZ	. ARG ARG ARG A A 182 182 .	0.1692	0.1825	0.1637	-0.0017	0.0315	-
0.0249	1	.							
1364	NH1	NH1	. ARG ARG ARG A A 182 182 .	0.1780	0.1379	0.1752	0.0129	-0.0080	-
0.0510	1	.							
1365	NH2	NH2	. ARG ARG ARG A A 182 182 .	0.1357	0.1752	0.1676	-0.0009	-0.0470	-
0.0237	1	.							
1366	C	C	. ARG ARG ARG A A 182 182 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1367	O	O	. ARG ARG ARG A A 182 182 .	0.0253	0.0257	0.0266	0.0000	0.0000	
0.0007	1	.							
1368	N	N	. LEU LEU LEU A A 183 183 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1369	CA	CA	. LEU LEU LEU A A 183 183 .	0.0254	0.0266	0.0297	0.0003	-0.0006	-
0.0024	1	.							
1370	CB	CB	. LEU LEU LEU A A 183 183 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1371	CG	CG	. LEU LEU LEU A A 183 183 .	0.0307	0.0316	0.0325	0.0058	-0.0062	-
0.0067	1	.							
1372	CD1	CD1	. LEU LEU LEU A A 183 183 .	0.0299	0.0285	0.0350	0.0038	-0.0067	-
0.0055	1	.							
1373	CD2	CD2	. LEU LEU LEU A A 183 183 .	0.0485	0.0254	0.0253	-0.0019	0.0000	
0.0000	1	.							
1374	C	C	. LEU LEU LEU A A 183 183 .	0.0284	0.0279	0.0268	-0.0028	0.0021	-
0.0019	1	.							
1375	O	O	. LEU LEU LEU A A 183 183 .	0.0274	0.0306	0.0256	-0.0033	-0.0008	
0.0013	1	.							
1376	N	N	. GLY GLY GLY A A 184 184 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1377	CA	CA	. GLY GLY GLY A A 184 184 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1378	C	C	. GLY GLY GLY A A 184 184 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1379	O	O	. GLY GLY GLY A A 184 184 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1380	N	N	. ALA ALA ALA A A 185 185 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1381	CA	CA	. ALA ALA ALA A A 185 185 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1382	CB	CB	. ALA ALA ALA A A 185 185 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1383	C	C	. ALA ALA ALA A A 185 185 .	0.0273	0.0260	0.0278	-0.0011	0.0022	-
0.0013	1	.							
1384	O	O	. ALA ALA ALA A A 185 185 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1385	N	N	. GLU GLU GLU A A 186 186 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1386	CA	CA	. GLU GLU GLU A A 186 186 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1387	CB	CB	. GLU GLU GLU A A 186 186 .	0.0261	0.0257	0.0254	-0.0005	0.0003	-
0.0002	1	.							
1388	CG	CG	. GLU GLU GLU A A 186 186 .	0.0262	0.0421	0.0336	0.0039	-0.0028	-
0.0118	1	.							
1389	CD	CD	. GLU GLU GLU A A 186 186 .	0.0468	0.0532	0.0462	0.0087	-0.0061	-
0.0241	1	.							
1390	OE1	OE1	. GLU GLU GLU A A 186 186 .	0.0674	0.0903	0.0792	0.0106	0.0024	-
0.0355	1	.							
1391	OE2	OE2	. GLU GLU GLU A A 186 186 .	0.0525	0.0459	0.0576	-0.0011	0.0078	-
0.0251	1	.							
1392	C	C	. GLU GLU GLU A A 186 186 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							













1543	C	C	. ASN ASN ASN A A 205 205 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1544	O	O	. ASN ASN ASN A A 205 205 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1545	N	N	. VAL VAL VAL A A 206 206 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1546	CA	CA	. VAL VAL VAL A A 206 206 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1547	CB	CB	. VAL VAL VAL A A 206 206 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1548	CG1	CG1	. VAL VAL VAL A A 206 206 .	0.0313	0.0258	0.0307	0.0017	0.0057	
0.0016	1	.							
1549	CG2	CG2	. VAL VAL VAL A A 206 206 .	0.0256	0.0303	0.0356	0.0013	0.0019	
0.0072	1	.							
1550	C	C	. VAL VAL VAL A A 206 206 .	0.0261	0.0281	0.0258	-0.0015	0.0006	-
0.0011	1	.							
1551	O	O	. VAL VAL VAL A A 206 206 .	0.0329	0.0300	0.0339	-0.0059	0.0080	-
0.0063	1	.							
1552	N	N	. GLY GLY GLY A A 207 207 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1553	CA	CA	. GLY GLY GLY A A 207 207 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1554	C	C	. GLY GLY GLY A A 207 207 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1555	O	O	. GLY GLY GLY A A 207 207 .	0.0263	0.0265	0.0269	-0.0011	0.0012	-
0.0014	1	.							
1556	N	N	. ASP ASP ASP A A 208 208 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1557	CA	CA	. ASP ASP ASP A A 208 208 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1558	CB	CB	. ASP ASP ASP A A 208 208 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1559	CG	CG	. ASP ASP ASP A A 208 208 .	0.0625	0.0726	0.0519	0.0217	0.0029	
0.0114	1	.							
1560	OD1	OD1	. ASP ASP ASP A A 208 208 .	0.0657	0.0679	0.0441	0.0149	0.0036	
0.0061	1	.							
1561	OD2	OD2	. ASP ASP ASP A A 208 208 .	0.0673	0.0499	0.0552	0.0249	0.0041	-
0.0144	1	.							
1562	C	C	. ASP ASP ASP A A 208 208 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1563	O	O	. ASP ASP ASP A A 208 208 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1564	N	N	. GLU GLU GLU A A 209 209 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1565	CA	CA	. GLU GLU GLU A A 209 209 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1566	CB	CB	. GLU GLU GLU A A 209 209 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1567	CG	CG	. GLU GLU GLU A A 209 209 .	0.0254	0.0253	0.0377	0.0000	0.0011	
0.0000	1	.							
1568	CD	CD	. GLU GLU GLU A A 209 209 .	0.0746	0.0659	0.0371	0.0042	0.0059	-
0.0045	1	.							
1569	OE1	OE1	. GLU GLU GLU A A 209 209 .	0.0436	0.0542	0.0607	0.0063	0.0084	-
0.0011	1	.							
1570	OE2	OE2	. GLU GLU GLU A A 209 209 .	0.0680	0.0617	0.1019	-0.0033	-0.0108	
0.0016	1	.							
1571	C	C	. GLU GLU GLU A A 209 209 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1572	O	O	. GLU GLU GLU A A 209 209 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							









1663	C	C	. ALA ALA ALA A A 222 222 .	0.0313	0.0254	0.0351	-0.0009	-0.0077	
0.0012	1	.							
1664	O	O	. ALA ALA ALA A A 222 222 .	0.0395	0.0413	0.0324	0.0005	-0.0013	-
0.0054	1	.							
1665	N	N	. LEU LEU LEU A A 223 223 .	0.0463	0.0472	0.0429	-0.0104	0.0027	
0.0156	1	.							
1666	CA	CA	. LEU LEU LEU A A 223 223 .	0.0610	0.0527	0.0560	-0.0059	-0.0027	-
0.0022	1	.							
1667	CB	CB	. LEU LEU LEU A A 223 223 .	0.0571	0.0643	0.0773	-0.0028	-0.0073	
0.0090	1	.							
1668	CG	CG	. LEU LEU LEU A A 223 223 .	0.0637	0.0672	0.0825	0.0003	-0.0016	
0.0026	1	.							
1669	CD1	CD1	. LEU LEU LEU A A 223 223 .	0.0970	0.0738	0.0653	-0.0270	-0.0179	-
0.0130	1	.							
1670	CD2	CD2	. LEU LEU LEU A A 223 223 .	0.0489	0.0438	0.0416	-0.0117	0.0111	-
0.0174	1	.							
1671	C	C	. LEU LEU LEU A A 223 223 .	0.0441	0.0402	0.0587	0.0027	0.0081	-
0.0086	1	.							
1672	O	O	. LEU LEU LEU A A 223 223 .	0.0451	0.0392	0.0600	-0.0006	0.0029	-
0.0126	1	.							
1673	N	N	. GLU GLU GLU A A 224 224 .	0.0755	0.0667	0.0766	0.0060	0.0037	-
0.0018	1	.							
1674	CA	CA	. GLU GLU GLU A A 224 224 .	0.0783	0.0758	0.0721	-0.0051	-0.0032	-
0.0059	1	.							
1675	CB	CB	. GLU GLU GLU A A 224 224 .	0.1021	0.1102	0.1055	-0.0159	0.0064	-
0.0110	1	.							
1676	CG	CG	. GLU GLU GLU A A 224 224 .	0.2378	0.1912	0.2474	0.0053	-0.0045	
0.0097	1	.							
1677	CD	CD	. GLU GLU GLU A A 224 224 .	0.3489	0.3366	0.3141	0.0010	0.0092	-
0.0273	1	.							
1678	OE1	OE1	. GLU GLU GLU A A 224 224 .	0.3974	0.3331	0.4012	0.0411	-0.0199	-
0.0225	1	.							
1679	OE2	OE2	. GLU GLU GLU A A 224 224 .	0.3573	0.3349	0.3600	0.0079	-0.0413	
0.0107	1	.							
1680	C	C	. GLU GLU GLU A A 224 224 .	0.0475	0.0478	0.0665	0.0001	-0.0011	-
0.0114	1	.							
1681	O	O	. GLU GLU GLU A A 224 224 .	0.0600	0.0745	0.0733	-0.0111	0.0049	-
0.0176	1	.							
1682	N	N	. LEU LEU LEU A A 225 225 .	0.0469	0.0416	0.0364	-0.0053	0.0043	
0.0045	1	.							
1683	CA	CA	. LEU LEU LEU A A 225 225 .	0.0260	0.0283	0.0312	-0.0015	0.0021	-
0.0042	1	.							
1684	CB	CB	. LEU LEU LEU A A 225 225 .	0.0287	0.0397	0.0331	-0.0069	0.0051	-
0.0106	1	.							
1685	CG	CG	. LEU LEU LEU A A 225 225 .	0.0484	0.0375	0.0636	0.0094	0.0245	
0.0202	1	.							
1686	CD1	CD1	. LEU LEU LEU A A 225 225 .	0.0772	0.0689	0.1044	-0.0444	0.0341	-
0.0115	1	.							
1687	CD2	CD2	. LEU LEU LEU A A 225 225 .	0.0627	0.0424	0.0741	0.0016	0.0190	
0.0200	1	.							
1688	C	C	. LEU LEU LEU A A 225 225 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1689	O	O	. LEU LEU LEU A A 225 225 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1690	N	N	. VAL VAL VAL A A 226 226 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1691	CA	CA	. VAL VAL VAL A A 226 226 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1692	CB	CB	. VAL VAL VAL A A 226 226 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							





1753	O	O	. GLY GLY GLY A A 234 234 .	0.0774	0.0484	0.0691	-0.0227	0.0179	-
0.0110	1	.							
1754	N	N	. TYR TYR TYR A A 235 235 .	0.0265	0.0254	0.0255	-0.0003	0.0005	-
0.0001	1	.							
1755	CA	CA	. TYR TYR TYR A A 235 235 .	0.0268	0.0264	0.0274	-0.0012	0.0017	-
0.0015	1	.							
1756	CB	CB	. TYR TYR TYR A A 235 235 .	0.0253	0.0253	0.0253	0.0000	0.0000	-
0.0000	1	.							
1757	CG	CG	. TYR TYR TYR A A 235 235 .	0.0326	0.0283	0.0256	-0.0047	-0.0015	-
0.0010	1	.							
1758	CD1	CD1	. TYR TYR TYR A A 235 235 .	0.0282	0.0334	0.0265	-0.0035	0.0019	-
0.0022	1	.							
1759	CE1	CE1	. TYR TYR TYR A A 235 235 .	0.0256	0.0391	0.0307	-0.0021	0.0013	-
0.0086	1	.							
1760	CZ	CZ	. TYR TYR TYR A A 235 235 .	0.0891	0.0919	0.0845	0.0091	0.0009	-
0.0183	1	.							
1761	OH	OH	. TYR TYR TYR A A 235 235 .	0.0901	0.0733	0.0595	0.0015	0.0008	-
0.0068	1	.							
1762	CE2	CE2	. TYR TYR TYR A A 235 235 .	0.0607	0.0522	0.0485	-0.0131	-0.0127	-
0.0057	1	.							
1763	CD2	CD2	. TYR TYR TYR A A 235 235 .	0.0483	0.0363	0.0409	0.0086	0.0011	-
0.0105	1	.							
1764	C	C	. TYR TYR TYR A A 235 235 .	0.0436	0.0389	0.0414	-0.0125	-0.0011	-
0.0081	1	.							
1765	O	O	. TYR TYR TYR A A 235 235 .	0.0363	0.0260	0.0258	-0.0028	-0.0023	-
0.0006	1	.							
1766	N	N	. THR THR THR A A 236 236 .	0.0461	0.0471	0.0437	-0.0153	0.0022	-
0.0140	1	.							
1767	CA	CA	. THR THR THR A A 236 236 .	0.0745	0.0414	0.0624	-0.0051	0.0001	-
0.0079	1	.							
1768	CB	CB	. THR THR THR A A 236 236 .	0.0660	0.0851	0.0926	-0.0205	-0.0049	-
0.0050	1	.							
1769	OG1	OG1	. THR THR THR A A 236 236 .	0.1257	0.1525	0.0994	-0.0357	-0.0092	-
0.0181	1	.							
1770	CG2	CG2	. THR THR THR A A 236 236 .	0.0833	0.0472	0.0443	-0.0120	0.0020	-
0.0084	1	.							
1771	C	C	. THR THR THR A A 236 236 .	0.0887	0.0914	0.0815	-0.0082	-0.0013	-
0.0145	1	.							
1772	O	O	. THR THR THR A A 236 236 .	0.0758	0.0704	0.0723	-0.0002	-0.0039	-
0.0024	1	.							
1773	N	N	. GLU GLU GLU A A 237 237 .	0.0900	0.0898	0.0906	0.0089	-0.0160	-
0.0170	1	.							
1774	CA	CA	. GLU GLU GLU A A 237 237 .	0.1687	0.1602	0.1672	-0.0059	0.0053	-
0.0110	1	.							
1775	CB	CB	. GLU GLU GLU A A 237 237 .	0.2194	0.1977	0.2052	0.0008	0.0095	-
0.0143	1	.							
1776	CG	CG	. GLU GLU GLU A A 237 237 .	0.2874	0.2772	0.3082	-0.0173	0.0035	-
0.0126	1	.							
1777	CD	CD	. GLU GLU GLU A A 237 237 .	0.3959	0.4152	0.3905	0.0044	-0.0310	-
0.0021	1	.							
1778	OE1	OE1	. GLU GLU GLU A A 237 237 .	0.4170	0.3977	0.4546	0.0262	-0.0122	-
0.0173	1	.							
1779	OE2	OE2	. GLU GLU GLU A A 237 237 .	0.4048	0.4399	0.4029	0.0094	-0.0146	-
0.0161	1	.							
1780	C	C	. GLU GLU GLU A A 237 237 .	0.1683	0.1524	0.1468	-0.0132	-0.0048	-
0.0009	1	.							
1781	O	O	. GLU GLU GLU A A 237 237 .	0.1945	0.2093	0.1687	-0.0172	0.0007	-
0.0219	1	.							
1782	N	N	. LYS LYS LYS A A 238 238 .	0.1352	0.1220	0.1116	-0.0125	0.0056	-
0.0126	1	.							



1813	O	O	. ILE ILE ILE A A 241 241 .	0.0578	0.0390	0.0367	-0.0091	0.0020	-
0.0118	1	.							
1814	N	N	. GLY GLY GLY A A 242 242 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1815	CA	CA	. GLY GLY GLY A A 242 242 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1816	C	C	. GLY GLY GLY A A 242 242 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1817	O	O	. GLY GLY GLY A A 242 242 .	0.0316	0.0301	0.0270	0.0055	-0.0032	-
0.0028	1	.							
1818	N	N	. MET MET MET A A 243 243 .	0.0299	0.0254	0.0276	-0.0008	0.0032	-
0.0006	1	.							
1819	CA	CA	. MET MET MET A A 243 243 .	0.0481	0.0403	0.0522	0.0035	0.0132	-
0.0093	1	.							
1820	CB	CB	. MET MET MET A A 243 243 .	0.0573	0.0645	0.0656	-0.0002	-0.0004	-
0.0045	1	.							
1821	CG	CG	. MET MET MET A A 243 243 .	0.0786	0.0717	0.1265	0.0052	0.0165	-
0.0030	1	.							
1822	SD	SD	. MET MET MET A A 243 243 .	0.1178	0.0931	0.1247	-0.0200	-0.0054	-
0.0202	1	.							
1823	CE	CE	. MET MET MET A A 243 243 .	0.1638	0.2103	0.1877	0.0020	0.0447	
0.0078	1	.							
1824	C	C	. MET MET MET A A 243 243 .	0.0316	0.0367	0.0290	-0.0015	0.0034	
0.0036	1	.							
1825	O	O	. MET MET MET A A 243 243 .	0.0592	0.0496	0.0596	-0.0028	-0.0158	
0.0059	1	.							
1826	N	N	. ASP ASP ASP A A 244 244 .	0.0255	0.0256	0.0255	0.0002	-0.0002	-
0.0002	1	.							
1827	CA	CA	. ASP ASP ASP A A 244 244 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1828	CB	CB	. ASP ASP ASP A A 244 244 .	0.0253	0.0253	0.0255	0.0000	-0.0001	
0.0000	1	.							
1829	CG	CG	. ASP ASP ASP A A 244 244 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1830	OD1	OD1	. ASP ASP ASP A A 244 244 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1831	OD2	OD2	. ASP ASP ASP A A 244 244 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1832	C	C	. ASP ASP ASP A A 244 244 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1833	O	O	. ASP ASP ASP A A 244 244 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1834	N	N	. VAL VAL VAL A A 245 245 .	0.0260	0.0254	0.0261	-0.0003	0.0007	-
0.0003	1	.							
1835	CA	CA	. VAL VAL VAL A A 245 245 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1836	CB	CB	. VAL VAL VAL A A 245 245 .	0.0271	0.0261	0.0322	-0.0012	0.0035	-
0.0023	1	.							
1837	CG1	CG1	. VAL VAL VAL A A 245 245 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
1838	CG2	CG2	. VAL VAL VAL A A 245 245 .	0.0260	0.0262	0.0264	-0.0008	0.0009	-
0.0010	1	.							
1839	C	C	. VAL VAL VAL A A 245 245 .	0.0259	0.0282	0.0260	-0.0012	0.0006	-
0.0014	1	.							
1840	O	O	. VAL VAL VAL A A 245 245 .	0.0271	0.0253	0.0323	0.0000	-0.0018	
0.0001	1	.							
1841	N	N	. ALA ALA ALA A A 246 246 .	0.0320	0.0258	0.0281	0.0018	-0.0043	-
0.0012	1	.							
1842	CA	CA	. ALA ALA ALA A A 246 246 .	0.0279	0.0264	0.0285	0.0017	-0.0028	-
0.0019	1	.							









1933	N	N	. ASP ASP ASP A A 257 257 .	0.0883	0.0959	0.0974	0.0020	0.0017	
0.0013	1	.							
1934	CA	CA	. ASP ASP ASP A A 257 257 .	0.0883	0.0920	0.1039	0.0019	0.0030	-
0.0008	1	.							
1935	CB	CB	. ASP ASP ASP A A 257 257 .	0.0955	0.1069	0.1153	0.0101	-0.0043	-
0.0083	1	.							
1936	CG	CG	. ASP ASP ASP A A 257 257 .	0.0713	0.0968	0.1009	0.0199	0.0002	-
0.0044	1	.							
1937	OD1	OD1	. ASP ASP ASP A A 257 257 .	0.0650	0.1094	0.1131	-0.0186	0.0067	-
0.0087	1	.							
1938	OD2	OD2	. ASP ASP ASP A A 257 257 .	0.0881	0.0982	0.1012	-0.0122	-0.0218	
0.0002	1	.							
1939	C	C	. ASP ASP ASP A A 257 257 .	0.0858	0.0947	0.0862	0.0034	-0.0044	-
0.0001	1	.							
1940	O	O	. ASP ASP ASP A A 257 257 .	0.0514	0.0659	0.0953	-0.0065	-0.0027	-
0.0003	1	.							
1941	N	N	. LEU LEU LEU A A 258 258 .	0.0704	0.0677	0.0811	-0.0116	-0.0066	
0.0006	1	.							
1942	CA	CA	. LEU LEU LEU A A 258 258 .	0.0916	0.0928	0.0876	-0.0029	0.0075	
0.0031	1	.							
1943	CB	CB	. LEU LEU LEU A A 258 258 .	0.1013	0.0845	0.0943	-0.0155	-0.0026	
0.0024	1	.							
1944	CG	CG	. LEU LEU LEU A A 258 258 .	0.1050	0.0976	0.1107	-0.0201	-0.0006	-
0.0048	1	.							
1945	CD1	CD1	. LEU LEU LEU A A 258 258 .	0.0874	0.0948	0.0763	0.0021	-0.0050	-
0.0173	1	.							
1946	CD2	CD2	. LEU LEU LEU A A 258 258 .	0.0591	0.0653	0.0952	-0.0085	-0.0119	-
0.0009	1	.							
1947	C	C	. LEU LEU LEU A A 258 258 .	0.0900	0.0831	0.0852	-0.0111	0.0048	
0.0016	1	.							
1948	O	O	. LEU LEU LEU A A 258 258 .	0.1003	0.1148	0.1071	-0.0139	0.0216	
0.0198	1	.							
1949	N	N	. ASP ASP ASP A A 259 259 .	0.0604	0.0799	0.0952	-0.0145	0.0039	-
0.0063	1	.							
1950	CA	CA	. ASP ASP ASP A A 259 259 .	0.0901	0.0920	0.0917	-0.0033	0.0022	-
0.0029	1	.							
1951	CB	CB	. ASP ASP ASP A A 259 259 .	0.0783	0.0785	0.0937	0.0054	0.0047	-
0.0107	1	.							
1952	CG	CG	. ASP ASP ASP A A 259 259 .	0.1619	0.1601	0.1423	-0.0053	0.0044	-
0.0017	1	.							
1953	OD1	OD1	. ASP ASP ASP A A 259 259 .	0.1779	0.1718	0.2150	-0.0096	0.0009	
0.0313	1	.							
1954	OD2	OD2	. ASP ASP ASP A A 259 259 .	0.1942	0.2107	0.2228	-0.0502	-0.0065	
0.0152	1	.							
1955	C	C	. ASP ASP ASP A A 259 259 .	0.0974	0.0837	0.0936	-0.0049	0.0073	-
0.0019	1	.							
1956	O	O	. ASP ASP ASP A A 259 259 .	0.0925	0.0977	0.1078	-0.0089	0.0207	
0.0098	1	.							
1957	N	N	. PHE PHE PHE A A 260 260 .	0.0758	0.0690	0.0883	-0.0051	0.0125	-
0.0020	1	.							
1958	CA	CA	. PHE PHE PHE A A 260 260 .	0.0696	0.0711	0.0626	-0.0036	0.0118	
0.0022	1	.							
1959	CB	CB	. PHE PHE PHE A A 260 260 .	0.0640	0.0766	0.0567	-0.0066	0.0083	
0.0061	1	.							
1960	CG	CG	. PHE PHE PHE A A 260 260 .	0.0312	0.0299	0.0258	0.0028	0.0015	
0.0000	1	.							
1961	CD1	CD1	. PHE PHE PHE A A 260 260 .	0.0420	0.0627	0.0729	-0.0057	0.0193	
0.0156	1	.							
1962	CE1	CE1	. PHE PHE PHE A A 260 260 .	0.0375	0.0290	0.0622	0.0066	-0.0160	-
0.0100	1	.							





2023	NE	NE	. ARG ARG ARG A A 268 268 .	0.0859	0.1392	0.1405	0.0150	0.0082	-
0.0234	1	.							
2024	CZ	CZ	. ARG ARG ARG A A 268 268 .	0.1426	0.1504	0.1550	-0.0029	0.0107	-
0.0101	1	.							
2025	NH1	NH1	. ARG ARG ARG A A 268 268 .	0.1460	0.1613	0.2026	0.0168	0.0414	-
0.0147	1	.							
2026	NH2	NH2	. ARG ARG ARG A A 268 268 .	0.1258	0.1444	0.1195	0.0127	0.0358	
0.0066	1	.							
2027	C	C	. ARG ARG ARG A A 268 268 .	0.1631	0.1539	0.1723	-0.0091	0.0023	-
0.0013	1	.							
2028	O	O	. ARG ARG ARG A A 268 268 .	0.1471	0.1564	0.2044	-0.0237	0.0088	
0.0103	1	.							
2029	N	N	. TYR TYR TYR A A 269 269 .	0.1366	0.1549	0.1754	-0.0042	-0.0087	
0.0125	1	.							
2030	CA	CA	. TYR TYR TYR A A 269 269 .	0.1413	0.1506	0.1520	0.0034	0.0035	
0.0003	1	.							
2031	CB	CB	. TYR TYR TYR A A 269 269 .	0.1423	0.1436	0.1458	0.0056	0.0045	
0.0160	1	.							
2032	CG	CG	. TYR TYR TYR A A 269 269 .	0.1098	0.1532	0.1663	0.0013	0.0213	
0.0014	1	.							
2033	CD1	CD1	. TYR TYR TYR A A 269 269 .	0.1471	0.1742	0.1740	-0.0135	0.0020	
0.0134	1	.							
2034	CE1	CE1	. TYR TYR TYR A A 269 269 .	0.1161	0.1919	0.1828	0.0133	0.0222	-
0.0109	1	.							
2035	CZ	CZ	. TYR TYR TYR A A 269 269 .	0.1684	0.2247	0.2207	-0.0335	0.0128	
0.0122	1	.							
2036	OH	OH	. TYR TYR TYR A A 269 269 .	0.2347	0.3050	0.2785	-0.0123	0.0416	-
0.0391	1	.							
2037	CE2	CE2	. TYR TYR TYR A A 269 269 .	0.1434	0.1758	0.1908	-0.0192	0.0191	
0.0019	1	.							
2038	CD2	CD2	. TYR TYR TYR A A 269 269 .	0.1553	0.1748	0.1770	-0.0181	0.0046	
0.0039	1	.							
2039	C	C	. TYR TYR TYR A A 269 269 .	0.1281	0.1426	0.1346	0.0047	-0.0015	
0.0062	1	.							
2040	O	O	. TYR TYR TYR A A 269 269 .	0.1423	0.1581	0.1551	-0.0179	-0.0085	-
0.0147	1	.							
2041	N	N	. ILE ILE ILE A A 270 270 .	0.0933	0.1350	0.1145	-0.0060	-0.0124	
0.0114	1	.							
2042	CA	CA	. ILE ILE ILE A A 270 270 .	0.0930	0.1051	0.1028	-0.0062	0.0007	
0.0000	1	.							
2043	CB	CB	. ILE ILE ILE A A 270 270 .	0.0849	0.1095	0.1058	-0.0066	-0.0020	
0.0040	1	.							
2044	CG1	CG1	. ILE ILE ILE A A 270 270 .	0.0600	0.0889	0.0743	0.0040	0.0029	
0.0017	1	.							
2045	CD1	CD1	. ILE ILE ILE A A 270 270 .	0.0919	0.0939	0.1417	-0.0279	-0.0123	-
0.0088	1	.							
2046	CG2	CG2	. ILE ILE ILE A A 270 270 .	0.0814	0.1214	0.1236	0.0089	0.0001	
0.0049	1	.							
2047	C	C	. ILE ILE ILE A A 270 270 .	0.1086	0.1050	0.1182	0.0003	-0.0103	
0.0017	1	.							
2048	O	O	. ILE ILE ILE A A 270 270 .	0.1209	0.1102	0.1330	-0.0013	-0.0094	-
0.0032	1	.							
2049	N	N	. THR THR THR A A 271 271 .	0.0902	0.0940	0.1104	-0.0082	0.0031	-
0.0057	1	.							
2050	CA	CA	. THR THR THR A A 271 271 .	0.1192	0.1231	0.1272	0.0079	-0.0028	
0.0023	1	.							
2051	CB	CB	. THR THR THR A A 271 271 .	0.1186	0.1309	0.1341	0.0096	0.0018	-
0.0056	1	.							
2052	OG1	OG1	. THR THR THR A A 271 271 .	0.1276	0.1648	0.2049	-0.0099	-0.0224	-
0.0273	1	.							



2083	C	C	. LEU LEU LEU A A 275 275 .	0.0817	0.0855	0.0916	0.0028	-0.0123	-
0.0051	1	.							
2084	O	O	. LEU LEU LEU A A 275 275 .	0.1199	0.1049	0.1109	0.0065	-0.0148	-
0.0059	1	.							
2085	N	N	. GLY GLY GLY A A 276 276 .	0.0630	0.0865	0.0694	-0.0028	0.0019	-
0.0017	1	.							
2086	CA	CA	. GLY GLY GLY A A 276 276 .	0.0865	0.0965	0.0877	0.0060	-0.0077	-
0.0116	1	.							
2087	C	C	. GLY GLY GLY A A 276 276 .	0.0878	0.0871	0.0908	-0.0039	-0.0034	-
0.0013	1	.							
2088	O	O	. GLY GLY GLY A A 276 276 .	0.0748	0.0984	0.1038	-0.0098	-0.0019	-
0.0237	1	.							
2089	N	N	. ALA ALA ALA A A 277 277 .	0.0565	0.0947	0.0805	-0.0109	0.0020	-
0.0071	1	.							
2090	CA	CA	. ALA ALA ALA A A 277 277 .	0.0670	0.0771	0.0885	-0.0026	0.0133	-
0.0085	1	.							
2091	CB	CB	. ALA ALA ALA A A 277 277 .	0.0841	0.1041	0.1025	-0.0114	-0.0055	-
0.0096	1	.							
2092	C	C	. ALA ALA ALA A A 277 277 .	0.0606	0.0760	0.0696	-0.0012	-0.0127	-
0.0112	1	.							
2093	O	O	. ALA ALA ALA A A 277 277 .	0.0897	0.1208	0.1189	0.0057	-0.0133	-
0.0067	1	.							
2094	N	N	. LEU LEU LEU A A 278 278 .	0.0877	0.0964	0.1078	-0.0083	0.0095	-
0.0134	1	.							
2095	CA	CA	. LEU LEU LEU A A 278 278 .	0.0728	0.1085	0.0817	-0.0018	0.0008	-
0.0005	1	.							
2096	CB	CB	. LEU LEU LEU A A 278 278 .	0.1321	0.1436	0.1288	-0.0106	0.0066	-
0.0066	1	.							
2097	CG	CG	. LEU LEU LEU A A 278 278 .	0.1699	0.1391	0.1542	-0.0198	0.0123	-
0.0038	1	.							
2098	CD1	CD1	. LEU LEU LEU A A 278 278 .	0.1965	0.1588	0.2294	-0.0586	0.0028	-
0.0068	1	.							
2099	CD2	CD2	. LEU LEU LEU A A 278 278 .	0.2235	0.2162	0.1761	0.0255	0.0297	-
0.0195	1	.							
2100	C	C	. LEU LEU LEU A A 278 278 .	0.0663	0.0754	0.0546	-0.0039	0.0000	-
0.0027	1	.							
2101	O	O	. LEU LEU LEU A A 278 278 .	0.0686	0.0664	0.0588	-0.0120	-0.0004	-
0.0135	1	.							
2102	N	N	. TYR TYR TYR A A 279 279 .	0.0423	0.0510	0.0397	-0.0028	-0.0031	-
0.0008	1	.							
2103	CA	CA	. TYR TYR TYR A A 279 279 .	0.0452	0.0551	0.0336	-0.0020	-0.0038	-
0.0056	1	.							
2104	CB	CB	. TYR TYR TYR A A 279 279 .	0.0474	0.0502	0.0547	-0.0034	0.0119	-
0.0145	1	.							
2105	CG	CG	. TYR TYR TYR A A 279 279 .	0.0476	0.0442	0.0363	-0.0074	0.0117	-
0.0049	1	.							
2106	CD1	CD1	. TYR TYR TYR A A 279 279 .	0.0349	0.0338	0.0272	0.0006	-0.0029	-
0.0023	1	.							
2107	CE1	CE1	. TYR TYR TYR A A 279 279 .	0.0423	0.0412	0.0510	-0.0162	-0.0066	-
0.0039	1	.							
2108	CZ	CZ	. TYR TYR TYR A A 279 279 .	0.0355	0.0340	0.0522	0.0094	-0.0030	-
0.0029	1	.							
2109	OH	OH	. TYR TYR TYR A A 279 279 .	0.0354	0.0476	0.0360	0.0007	-0.0086	-
0.0093	1	.							
2110	CE2	CE2	. TYR TYR TYR A A 279 279 .	0.0253	0.0253	0.0253	0.0000	0.0000	-
0.0000	1	.							
2111	CD2	CD2	. TYR TYR TYR A A 279 279 .	0.0253	0.0253	0.0253	0.0000	0.0000	-
0.0000	1	.							
2112	C	C	. TYR TYR TYR A A 279 279 .	0.0426	0.0511	0.0531	0.0009	-0.0035	-
0.0127	1	.							

2113	O	O	. TYR TYR TYR A A 279 279 .	0.0499	0.0471	0.0586	-0.0182	-0.0010	-
0.0140	1	.							
2114	N	N	. GLN GLN GLN A A 280 280 .	0.0457	0.0626	0.0401	-0.0007	-0.0068	-
0.0056	1	.							
2115	CA	CA	. GLN GLN GLN A A 280 280 .	0.0703	0.0782	0.0808	-0.0037	-0.0091	-
0.0109	1	.							
2116	CB	CB	. GLN GLN GLN A A 280 280 .	0.0864	0.0813	0.0609	0.0153	-0.0129	-
0.0025	1	.							
2117	CG	CG	. GLN GLN GLN A A 280 280 .	0.1217	0.1016	0.0906	-0.0025	-0.0182	-
0.0000	1	.							
2118	CD	CD	. GLN GLN GLN A A 280 280 .	0.1059	0.1316	0.1483	0.0044	-0.0111	-
0.0025	1	.							
2119	OE1	OE1	. GLN GLN GLN A A 280 280 .	0.1695	0.1494	0.1783	0.0123	-0.0341	-
0.0216	1	.							
2120	NE2	NE2	. GLN GLN GLN A A 280 280 .	0.1372	0.1426	0.0902	0.0330	0.0016	-
0.0031	1	.							
2121	C	C	. GLN GLN GLN A A 280 280 .	0.0713	0.0812	0.0740	-0.0036	-0.0029	-
0.0035	1	.							
2122	O	O	. GLN GLN GLN A A 280 280 .	0.0626	0.0633	0.0699	-0.0137	-0.0130	-
0.0240	1	.							
2123	N	N	. ASP ASP ASP A A 281 281 .	0.0678	0.0830	0.0672	-0.0122	-0.0044	-
0.0008	1	.							
2124	CA	CA	. ASP ASP ASP A A 281 281 .	0.0996	0.0919	0.0763	0.0072	-0.0069	-
0.0164	1	.							
2125	CB	CB	. ASP ASP ASP A A 281 281 .	0.1065	0.0990	0.1330	-0.0066	0.0008	-
0.0082	1	.							
2126	CG	CG	. ASP ASP ASP A A 281 281 .	0.1956	0.2047	0.1863	0.0128	-0.0149	-
0.0100	1	.							
2127	OD1	OD1	. ASP ASP ASP A A 281 281 .	0.2741	0.2813	0.2406	0.0111	-0.0076	-
0.0270	1	.							
2128	OD2	OD2	. ASP ASP ASP A A 281 281 .	0.2389	0.3847	0.3237	0.0187	0.0244	-
0.0074	1	.							
2129	C	C	. ASP ASP ASP A A 281 281 .	0.0769	0.0848	0.0801	0.0049	-0.0055	-
0.0113	1	.							
2130	O	O	. ASP ASP ASP A A 281 281 .	0.0833	0.0805	0.0669	0.0016	-0.0132	-
0.0242	1	.							
2131	N	N	. PHE PHE PHE A A 282 282 .	0.0716	0.0788	0.0744	-0.0028	-0.0057	-
0.0284	1	.							
2132	CA	CA	. PHE PHE PHE A A 282 282 .	0.0652	0.0641	0.0524	0.0038	0.0029	-
0.0060	1	.							
2133	CB	CB	. PHE PHE PHE A A 282 282 .	0.0802	0.0880	0.0955	-0.0095	-0.0042	-
0.0104	1	.							
2134	CG	CG	. PHE PHE PHE A A 282 282 .	0.1021	0.0998	0.1020	-0.0135	0.0066	-
0.0011	1	.							
2135	CD1	CD1	. PHE PHE PHE A A 282 282 .	0.1479	0.1316	0.1330	-0.0009	0.0053	-
0.0101	1	.							
2136	CE1	CE1	. PHE PHE PHE A A 282 282 .	0.1850	0.1662	0.1500	-0.0189	-0.0051	-
0.0243	1	.							
2137	CZ	CZ	. PHE PHE PHE A A 282 282 .	0.1431	0.1755	0.1342	0.0011	0.0286	-
0.0120	1	.							
2138	CE2	CE2	. PHE PHE PHE A A 282 282 .	0.1710	0.1815	0.1477	0.0147	0.0012	-
0.0099	1	.							
2139	CD2	CD2	. PHE PHE PHE A A 282 282 .	0.1113	0.1005	0.1258	0.0195	0.0174	-
0.0059	1	.							
2140	C	C	. PHE PHE PHE A A 282 282 .	0.0662	0.0725	0.0693	-0.0024	-0.0116	-
0.0127	1	.							
2141	O	O	. PHE PHE PHE A A 282 282 .	0.0585	0.0687	0.0742	-0.0002	0.0047	-
0.0087	1	.							
2142	N	N	. VAL VAL VAL A A 283 283 .	0.0481	0.0463	0.0350	-0.0179	0.0017	-
0.0095	1	.							

















2353	O	O	. THR THR THR A A 307 307 .	0.0742	0.0838	0.0706	0.0022	-0.0083	-
0.0031	1	.							
2354	N	N	. ALA ALA ALA A A 308 308 .	0.0871	0.0887	0.0692	0.0061	-0.0054	
0.0007	1	.							
2355	CA	CA	. ALA ALA ALA A A 308 308 .	0.1045	0.1022	0.0960	0.0051	-0.0022	
0.0010	1	.							
2356	CB	CB	. ALA ALA ALA A A 308 308 .	0.0631	0.0640	0.0750	0.0054	-0.0057	
0.0056	1	.							
2357	C	C	. ALA ALA ALA A A 308 308 .	0.1299	0.1207	0.1210	-0.0039	0.0024	-
0.0067	1	.							
2358	O	O	. ALA ALA ALA A A 308 308 .	0.1764	0.1320	0.1216	-0.0139	0.0060	
0.0046	1	.							
2359	N	N	. ASN ASN ASN A A 309 309 .	0.1539	0.1174	0.1293	-0.0030	0.0143	-
0.0122	1	.							
2360	CA	CA	. ASN ASN ASN A A 309 309 .	0.1490	0.1563	0.1492	-0.0031	-0.0034	-
0.0130	1	.							
2361	CB	CB	. ASN ASN ASN A A 309 309 .	0.1798	0.1863	0.1831	-0.0050	0.0014	-
0.0098	1	.							
2362	CG	CG	. ASN ASN ASN A A 309 309 .	0.2596	0.2642	0.2704	0.0217	-0.0168	-
0.0058	1	.							
2363	OD1	OD1	. ASN ASN ASN A A 309 309 .	0.3335	0.3490	0.3677	0.0361	-0.0011	-
0.0330	1	.							
2364	ND2	ND2	. ASN ASN ASN A A 309 309 .	0.2905	0.3425	0.2693	0.0178	-0.0146	-
0.0065	1	.							
2365	C	C	. ASN ASN ASN A A 309 309 .	0.1332	0.1147	0.1361	-0.0049	0.0015	-
0.0102	1	.							
2366	O	O	. ASN ASN ASN A A 309 309 .	0.1639	0.1681	0.1650	-0.0302	-0.0076	-
0.0091	1	.							
2367	N	N	. VAL VAL VAL A A 310 310 .	0.0982	0.0921	0.0822	-0.0049	-0.0060	-
0.0072	1	.							
2368	CA	CA	. VAL VAL VAL A A 310 310 .	0.0959	0.0898	0.0834	0.0024	-0.0056	-
0.0065	1	.							
2369	CB	CB	. VAL VAL VAL A A 310 310 .	0.1293	0.1162	0.1093	0.0057	-0.0081	-
0.0008	1	.							
2370	CG1	CG1	. VAL VAL VAL A A 310 310 .	0.1600	0.1701	0.1453	-0.0048	0.0121	
0.0072	1	.							
2371	CG2	CG2	. VAL VAL VAL A A 310 310 .	0.1492	0.1209	0.1421	-0.0047	-0.0288	
0.0012	1	.							
2372	C	C	. VAL VAL VAL A A 310 310 .	0.1008	0.0830	0.0814	-0.0071	-0.0044	
0.0000	1	.							
2373	O	O	. VAL VAL VAL A A 310 310 .	0.0986	0.1009	0.0938	-0.0164	-0.0095	
0.0086	1	.							
2374	N	N	. GLY GLY GLY A A 311 311 .	0.0674	0.0663	0.0391	-0.0045	-0.0101	-
0.0084	1	.							
2375	CA	CA	. GLY GLY GLY A A 311 311 .	0.0696	0.0530	0.0523	-0.0123	-0.0141	-
0.0193	1	.							
2376	C	C	. GLY GLY GLY A A 311 311 .	0.0558	0.0664	0.0652	0.0049	0.0005	
0.0025	1	.							
2377	O	O	. GLY GLY GLY A A 311 311 .	0.1088	0.1126	0.0950	-0.0006	-0.0108	-
0.0164	1	.							
2378	N	N	. ILE ILE ILE A A 312 312 .	0.0585	0.0479	0.0445	-0.0018	-0.0107	-
0.0028	1	.							
2379	CA	CA	. ILE ILE ILE A A 312 312 .	0.0538	0.0465	0.0469	-0.0003	-0.0126	-
0.0004	1	.							
2380	CB	CB	. ILE ILE ILE A A 312 312 .	0.0540	0.0483	0.0657	-0.0038	0.0005	-
0.0082	1	.							
2381	CG1	CG1	. ILE ILE ILE A A 312 312 .	0.0621	0.0556	0.0641	0.0064	0.0058	-
0.0281	1	.							
2382	CD1	CD1	. ILE ILE ILE A A 312 312 .	0.1486	0.0897	0.1022	0.0014	0.0057	-
0.0319	1	.							















2563	CB	CB	. ALA ALA ALA A A 335 335 .	0.0762	0.0653	0.0733	0.0161	-0.0046	-
0.0086	1	.							
2564	C	C	. ALA ALA ALA A A 335 335 .	0.0565	0.0652	0.0804	-0.0028	-0.0057	
0.0040	1	.							
2565	O	O	. ALA ALA ALA A A 335 335 .	0.1033	0.1015	0.0835	0.0082	-0.0244	
0.0082	1	.							
2566	N	N	. CYS CYS CYS A A 336 336 .	0.0753	0.0721	0.0532	0.0133	-0.0068	
0.0005	1	.							
2567	CA	CA	. CYS CYS CYS A A 336 336 .	0.0393	0.0557	0.0443	0.0146	-0.0012	
0.0002	1	.							
2568	CB	CB	. CYS CYS CYS A A 336 336 .	0.0409	0.0469	0.0339	0.0146	-0.0115	-
0.0101	1	.							
2569	SG	SG	. CYS CYS CYS A A 336 336 .	0.0788	0.0658	0.0668	0.0042	-0.0020	
0.0037	1	.							
2570	C	C	. CYS CYS CYS A A 336 336 .	0.0621	0.0437	0.0325	0.0127	0.0090	
0.0011	1	.							
2571	O	O	. CYS CYS CYS A A 336 336 .	0.0833	0.0658	0.0679	0.0058	0.0035	-
0.0053	1	.							
2572	N	N	. ASN ASN ASN A A 337 337 .	0.0546	0.0628	0.0346	0.0140	-0.0045	
0.0023	1	.							
2573	CA	CA	. ASN ASN ASN A A 337 337 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2574	CB	CB	. ASN ASN ASN A A 337 337 .	0.0275	0.0259	0.0261	-0.0002	-0.0011	-
0.0002	1	.							
2575	CG	CG	. ASN ASN ASN A A 337 337 .	0.0709	0.0602	0.0624	0.0038	-0.0203	
0.0220	1	.							
2576	OD1	OD1	. ASN ASN ASN A A 337 337 .	0.1022	0.0886	0.0950	-0.0279	-0.0112	
0.0068	1	.							
2577	ND2	ND2	. ASN ASN ASN A A 337 337 .	0.0260	0.0260	0.0255	-0.0007	0.0004	-
0.0003	1	.							
2578	C	C	. ASN ASN ASN A A 337 337 .	0.0272	0.0279	0.0257	0.0022	0.0009	
0.0010	1	.							
2579	O	O	. ASN ASN ASN A A 337 337 .	0.0305	0.0283	0.0286	0.0039	-0.0041	-
0.0031	1	.							
2580	N	N	. CYS CYS CYS A A 338 338 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2581	CA	CA	. CYS CYS CYS A A 338 338 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2582	CB	CB	. CYS CYS CYS A A 338 338 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2583	SG	SG	. CYS CYS CYS A A 338 338 .	0.0305	0.0287	0.0279	0.0042	-0.0036	-
0.0029	1	.							
2584	C	C	. CYS CYS CYS A A 338 338 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2585	O	O	. CYS CYS CYS A A 338 338 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2586	N	N	. LEU LEU LEU A A 339 339 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2587	CA	CA	. LEU LEU LEU A A 339 339 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2588	CB	CB	. LEU LEU LEU A A 339 339 .	0.0337	0.0295	0.0256	0.0051	-0.0009	-
0.0010	1	.							
2589	CG	CG	. LEU LEU LEU A A 339 339 .	0.0280	0.0326	0.0253	-0.0044	0.0001	-
0.0002	1	.							
2590	CD1	CD1	. LEU LEU LEU A A 339 339 .	0.0304	0.0331	0.0298	0.0063	0.0047	
0.0059	1	.							
2591	CD2	CD2	. LEU LEU LEU A A 339 339 .	0.0271	0.0276	0.0294	-0.0020	-0.0026	
0.0030	1	.							
2592	C	C	. LEU LEU LEU A A 339 339 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							







2653	C	C	. GLY GLY GLY A A 347 347 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2654	O	O	. GLY GLY GLY A A 347 347 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2655	N	N	. SER SER SER A A 348 348 .	0.0305	0.0263	0.0253	0.0023	0.0005	
0.0002	1	.							
2656	CA	CA	. SER SER SER A A 348 348 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2657	CB	CB	. SER SER SER A A 348 348 .	0.0363	0.0270	0.0261	-0.0040	0.0021	-
0.0005	1	.							
2658	OG	OG	. SER SER SER A A 348 348 .	0.0714	0.0679	0.0497	-0.0212	-0.0143	-
0.0162	1	.							
2659	C	C	. SER SER SER A A 348 348 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2660	O	O	. SER SER SER A A 348 348 .	0.0347	0.0260	0.0343	-0.0020	0.0024	-
0.0020	1	.							
2661	N	N	. VAL VAL VAL A A 349 349 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2662	CA	CA	. VAL VAL VAL A A 349 349 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2663	CB	CB	. VAL VAL VAL A A 349 349 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2664	CG1	CG1	. VAL VAL VAL A A 349 349 .	0.0266	0.0255	0.0290	-0.0005	-0.0022	
0.0009	1	.							
2665	CG2	CG2	. VAL VAL VAL A A 349 349 .	0.0294	0.0255	0.0282	0.0009	-0.0034	-
0.0008	1	.							
2666	C	C	. VAL VAL VAL A A 349 349 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2667	O	O	. VAL VAL VAL A A 349 349 .	0.0349	0.0307	0.0385	0.0018	-0.0102	
0.0013	1	.							
2668	N	N	. THR THR THR A A 350 350 .	0.0408	0.0303	0.0350	0.0062	-0.0079	
0.0005	1	.							
2669	CA	CA	. THR THR THR A A 350 350 .	0.0295	0.0254	0.0271	-0.0005	0.0027	-
0.0003	1	.							
2670	CB	CB	. THR THR THR A A 350 350 .	0.0301	0.0304	0.0328	-0.0049	-0.0060	
0.0062	1	.							
2671	OG1	OG1	. THR THR THR A A 350 350 .	0.0499	0.0389	0.0390	-0.0118	0.0014	
0.0097	1	.							
2672	CG2	CG2	. THR THR THR A A 350 350 .	0.0606	0.0902	0.0588	-0.0333	0.0019	
0.0315	1	.							
2673	C	C	. THR THR THR A A 350 350 .	0.0281	0.0253	0.0253	0.0002	-0.0003	
0.0000	1	.							
2674	O	O	. THR THR THR A A 350 350 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2675	N	N	. GLU GLU GLU A A 351 351 .	0.0253	0.0262	0.0285	-0.0001	-0.0002	
0.0017	1	.							
2676	CA	CA	. GLU GLU GLU A A 351 351 .	0.0382	0.0276	0.0294	-0.0043	-0.0054	
0.0030	1	.							
2677	CB	CB	. GLU GLU GLU A A 351 351 .	0.0398	0.0255	0.0299	-0.0018	-0.0019	-
0.0001	1	.							
2678	CG	CG	. GLU GLU GLU A A 351 351 .	0.0384	0.0260	0.0636	0.0010	-0.0145	
0.0026	1	.							
2679	CD	CD	. GLU GLU GLU A A 351 351 .	0.0601	0.0444	0.0467	-0.0054	-0.0106	-
0.0058	1	.							
2680	OE1	OE1	. GLU GLU GLU A A 351 351 .	0.0593	0.0410	0.0440	-0.0019	-0.0148	-
0.0032	1	.							
2681	OE2	OE2	. GLU GLU GLU A A 351 351 .	0.0896	0.0773	0.1065	0.0043	-0.0029	
0.0024	1	.							
2682	C	C	. GLU GLU GLU A A 351 351 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							

2683	O	O	. GLU GLU GLU A A	351 351	. 0.0469 0.0349 0.0438 -0.0034 0.0024
0.0058	1	.			
2684	N	N	. ALA ALA ALA A A	352 352	. 0.0253 0.0253 0.0253 0.0000 0.0000
0.0000	1	.			
2685	CA	CA	. ALA ALA ALA A A	352 352	. 0.0253 0.0253 0.0253 0.0000 0.0000
0.0000	1	.			
2686	CB	CB	. ALA ALA ALA A A	352 352	. 0.0268 0.0311 0.0288 0.0002 0.0003 -
0.0043	1	.			
2687	C	C	. ALA ALA ALA A A	352 352	. 0.0253 0.0253 0.0253 0.0000 0.0000
0.0000	1	.			
2688	O	O	. ALA ALA ALA A A	352 352	. 0.0341 0.0376 0.0325 -0.0104 0.0080 -
0.0094	1	.			
2689	N	N	. ILE ILE ILE A A	353 353	. 0.0253 0.0253 0.0253 0.0000 0.0000
0.0000	1	.			
2690	CA	CA	. ILE ILE ILE A A	353 353	. 0.0284 0.0301 0.0253 0.0038 0.0003
0.0004	1	.			
2691	CB	CB	. ILE ILE ILE A A	353 353	. 0.0253 0.0253 0.0253 0.0000 0.0000
0.0000	1	.			
2692	CG1	CG1	. ILE ILE ILE A A	353 353	. 0.0813 0.0395 0.0662 0.0120 0.0110 -
0.0120	1	.			
2693	CD1	CD1	. ILE ILE ILE A A	353 353	. 0.1880 0.1620 0.1733 -0.0472 0.0265
0.0350	1	.			
2694	CG2	CG2	. ILE ILE ILE A A	353 353	. 0.0493 0.0518 0.0641 0.0211 0.0052
0.0154	1	.			
2695	C	C	. ILE ILE ILE A A	353 353	. 0.0253 0.0253 0.0253 0.0000 0.0000
0.0000	1	.			
2696	O	O	. ILE ILE ILE A A	353 353	. 0.0565 0.0318 0.0291 -0.0051 0.0047 -
0.0049	1	.			
2697	N	N	. GLN GLN GLN A A	354 354	. 0.0339 0.0254 0.0255 -0.0008 0.0014 -
0.0001	1	.			
2698	CA	CA	. GLN GLN GLN A A	354 354	. 0.0583 0.0518 0.0484 0.0008 -0.0094 -
0.0042	1	.			
2699	CB	CB	. GLN GLN GLN A A	354 354	. 0.0779 0.0518 0.0660 -0.0035 0.0012
0.0060	1	.			
2700	CG	CG	. GLN GLN GLN A A	354 354	. 0.1085 0.1434 0.1676 -0.0111 -0.0179 -
0.0171	1	.			
2701	CD	CD	. GLN GLN GLN A A	354 354	. 0.2275 0.1934 0.2532 -0.0049 -0.0107 -
0.0027	1	.			
2702	OE1	OE1	. GLN GLN GLN A A	354 354	. 0.3316 0.2471 0.2863 -0.0301 -0.0052
0.0023	1	.			
2703	NE2	NE2	. GLN GLN GLN A A	354 354	. 0.2932 0.1875 0.3020 0.0119 0.0401 -
0.0257	1	.			
2704	C	C	. GLN GLN GLN A A	354 354	. 0.0533 0.0541 0.0457 -0.0047 0.0045 -
0.0010	1	.			
2705	O	O	. GLN GLN GLN A A	354 354	. 0.0786 0.0484 0.0527 0.0134 -0.0103 -
0.0113	1	.			
2706	N	N	. ALA ALA ALA A A	355 355	. 0.0591 0.0309 0.0277 -0.0136 -0.0058
0.0026	1	.			
2707	CA	CA	. ALA ALA ALA A A	355 355	. 0.0264 0.0394 0.0257 0.0040 0.0006
0.0024	1	.			
2708	CB	CB	. ALA ALA ALA A A	355 355	. 0.0253 0.0253 0.0253 0.0000 0.0000
0.0000	1	.			
2709	C	C	. ALA ALA ALA A A	355 355	. 0.0253 0.0253 0.0253 0.0000 0.0000
0.0000	1	.			
2710	O	O	. ALA ALA ALA A A	355 355	. 0.0390 0.0323 0.0308 -0.0022 -0.0053
0.0056	1	.			
2711	N	N	. CYS CYS CYS A A	356 356	. 0.0346 0.0258 0.0253 -0.0021 0.0003
0.0000	1	.			
2712	CA	CA	. CYS CYS CYS A A	356 356	. 0.0253 0.0253 0.0253 0.0000 0.0000
0.0000	1	.			















2893	CE2	CE2	.	PHE	PHE	PHE	A	A	379	379	.	0.0383	0.0338	0.0353	0.0042	0.0007
0.0086	1	.														
2894	CD2	CD2	.	PHE	PHE	PHE	A	A	379	379	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2895	C	C	.	PHE	PHE	PHE	A	A	379	379	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2896	O	O	.	PHE	PHE	PHE	A	A	379	379	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2897	N	N	.	ILE	ILE	ILE	A	A	380	380	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2898	CA	CA	.	ILE	ILE	ILE	A	A	380	380	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2899	CB	CB	.	ILE	ILE	ILE	A	A	380	380	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2900	CG1	CG1	.	ILE	ILE	ILE	A	A	380	380	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2901	CD1	CD1	.	ILE	ILE	ILE	A	A	380	380	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2902	CG2	CG2	.	ILE	ILE	ILE	A	A	380	380	.	0.0257	0.0258	0.0259	0.0004	0.0005
0.0005	1	.														
2903	C	C	.	ILE	ILE	ILE	A	A	380	380	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2904	O	O	.	ILE	ILE	ILE	A	A	380	380	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2905	N	N	.	ALA	ALA	ALA	A	A	381	381	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2906	CA	CA	.	ALA	ALA	ALA	A	A	381	381	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2907	CB	CB	.	ALA	ALA	ALA	A	A	381	381	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2908	C	C	.	ALA	ALA	ALA	A	A	381	381	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2909	O	O	.	ALA	ALA	ALA	A	A	381	381	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2910	N	N	.	ASP	ASP	ASP	A	A	382	382	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2911	CA	CA	.	ASP	ASP	ASP	A	A	382	382	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2912	CB	CB	.	ASP	ASP	ASP	A	A	382	382	.	0.0309	0.0253	0.0267	0.0000	-0.0027
0.0000	1	.														
2913	CG	CG	.	ASP	ASP	ASP	A	A	382	382	.	0.0260	0.0341	0.0314	0.0020	-0.0003
0.0035	1	.														
2914	OD1	OD1	.	ASP	ASP	ASP	A	A	382	382	.	0.0673	0.0622	0.0755	-0.0227	0.0072
0.0109	1	.														
2915	OD2	OD2	.	ASP	ASP	ASP	A	A	382	382	.	0.0676	0.0524	0.0749	-0.0073	0.0090
0.0165	1	.														
2916	C	C	.	ASP	ASP	ASP	A	A	382	382	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2917	O	O	.	ASP	ASP	ASP	A	A	382	382	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2918	N	N	.	LEU	LEU	LEU	A	A	383	383	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2919	CA	CA	.	LEU	LEU	LEU	A	A	383	383	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2920	CB	CB	.	LEU	LEU	LEU	A	A	383	383	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2921	CG	CG	.	LEU	LEU	LEU	A	A	383	383	.	0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.														
2922	CD1	CD1	.	LEU	LEU	LEU	A	A	383	383	.	0.0276	0.0259	0.0260	-0.0012	0.0013
0.0007	1	.														

2923	CD2	CD2	. LEU LEU LEU A A 383 383 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2924	C	C	. LEU LEU LEU A A 383 383 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2925	O	O	. LEU LEU LEU A A 383 383 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2926	N	N	. VAL VAL VAL A A 384 384 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2927	CA	CA	. VAL VAL VAL A A 384 384 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2928	CB	CB	. VAL VAL VAL A A 384 384 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2929	CG1	CG1	. VAL VAL VAL A A 384 384 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2930	CG2	CG2	. VAL VAL VAL A A 384 384 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2931	C	C	. VAL VAL VAL A A 384 384 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2932	O	O	. VAL VAL VAL A A 384 384 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2933	N	N	. VAL VAL VAL A A 385 385 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2934	CA	CA	. VAL VAL VAL A A 385 385 .	0.0253	0.0280	0.0263	0.0000	0.0000	
0.0016	1	.							
2935	CB	CB	. VAL VAL VAL A A 385 385 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2936	CG1	CG1	. VAL VAL VAL A A 385 385 .	0.0255	0.0329	0.0270	0.0013	-0.0006	-
0.0036	1	.							
2937	CG2	CG2	. VAL VAL VAL A A 385 385 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2938	C	C	. VAL VAL VAL A A 385 385 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2939	O	O	. VAL VAL VAL A A 385 385 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2940	N	N	. GLY GLY GLY A A 386 386 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2941	CA	CA	. GLY GLY GLY A A 386 386 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2942	C	C	. GLY GLY GLY A A 386 386 .	0.0261	0.0253	0.0263	0.0001	0.0009	
0.0001	1	.							
2943	O	O	. GLY GLY GLY A A 386 386 .	0.0551	0.0602	0.0391	0.0003	0.0087	
0.0198	1	.							
2944	N	N	. LEU LEU LEU A A 387 387 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2945	CA	CA	. LEU LEU LEU A A 387 387 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2946	CB	CB	. LEU LEU LEU A A 387 387 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
2947	CG	CG	. LEU LEU LEU A A 387 387 .	0.0281	0.0256	0.0253	-0.0009	0.0001	
0.0000	1	.							
2948	CD1	CD1	. LEU LEU LEU A A 387 387 .	0.0549	0.0649	0.0456	0.0275	-0.0004	-
0.0173	1	.							
2949	CD2	CD2	. LEU LEU LEU A A 387 387 .	0.0624	0.0336	0.0603	-0.0159	0.0014	-
0.0077	1	.							
2950	C	C	. LEU LEU LEU A A 387 387 .	0.0269	0.0259	0.0300	-0.0009	0.0027	-
0.0016	1	.							
2951	O	O	. LEU LEU LEU A A 387 387 .	0.0254	0.0253	0.0254	0.0000	-0.0001	
0.0000	1	.							
2952	N	N	. CYS CYS CYS A A 388 388 .	0.0254	0.0282	0.0290	-0.0005	-0.0005	
0.0032	1	.							



















3193	O	O	. ASP ASP ASP A A 418 418 .	0.3963	0.4059	0.3930	0.0008	-0.0103	-
0.0114	1	.							
3194	N	N	. GLU GLU GLU A A 419 419 .	0.3466	0.3648	0.3606	-0.0013	0.0020	-
0.0005	1	.							
3195	CA	CA	. GLU GLU GLU A A 419 419 .	0.3343	0.3448	0.3431	0.0018	0.0057	
0.0006	1	.							
3196	CB	CB	. GLU GLU GLU A A 419 419 .	0.3483	0.3636	0.3568	-0.0019	-0.0035	
0.0035	1	.							
3197	CG	CG	. GLU GLU GLU A A 419 419 .	0.4216	0.4374	0.4200	0.0126	0.0081	-
0.0067	1	.							
3198	CD	CD	. GLU GLU GLU A A 419 419 .	0.5204	0.4919	0.5267	-0.0140	-0.0001	
0.0003	1	.							
3199	OE1	OE1	. GLU GLU GLU A A 419 419 .	0.5517	0.5355	0.5401	0.0245	-0.0064	
0.0065	1	.							
3200	OE2	OE2	. GLU GLU GLU A A 419 419 .	0.5451	0.5359	0.5837	0.0198	0.0081	
0.0116	1	.							
3201	C	C	. GLU GLU GLU A A 419 419 .	0.3036	0.3067	0.3054	-0.0042	0.0040	
0.0025	1	.							
3202	O	O	. GLU GLU GLU A A 419 419 .	0.2891	0.3098	0.2928	0.0077	0.0059	-
0.0016	1	.							
3203	N	N	. ALA ALA ALA A A 420 420 .	0.2710	0.2771	0.2805	-0.0041	0.0049	-
0.0092	1	.							
3204	CA	CA	. ALA ALA ALA A A 420 420 .	0.2450	0.2422	0.2419	-0.0085	0.0013	-
0.0005	1	.							
3205	CB	CB	. ALA ALA ALA A A 420 420 .	0.2049	0.2001	0.2211	-0.0319	0.0124	-
0.0045	1	.							
3206	C	C	. ALA ALA ALA A A 420 420 .	0.2346	0.2407	0.2424	-0.0031	-0.0026	
0.0027	1	.							
3207	O	O	. ALA ALA ALA A A 420 420 .	0.2584	0.2661	0.2772	-0.0111	-0.0096	-
0.0012	1	.							
3208	N	N	. ARG ARG ARG A A 421 421 .	0.2231	0.2213	0.2321	-0.0133	0.0039	-
0.0059	1	.							
3209	CA	CA	. ARG ARG ARG A A 421 421 .	0.1646	0.1872	0.1773	0.0001	0.0067	
0.0019	1	.							
3210	CB	CB	. ARG ARG ARG A A 421 421 .	0.1849	0.1728	0.2009	0.0050	0.0229	
0.0035	1	.							
3211	CG	CG	. ARG ARG ARG A A 421 421 .	0.2663	0.2331	0.2241	-0.0060	-0.0047	-
0.0046	1	.							
3212	CD	CD	. ARG ARG ARG A A 421 421 .	0.3000	0.2862	0.3252	0.0214	0.0092	
0.0217	1	.							
3213	NE	NE	. ARG ARG ARG A A 421 421 .	0.3812	0.4009	0.3850	-0.0010	0.0020	-
0.0103	1	.							
3214	CZ	CZ	. ARG ARG ARG A A 421 421 .	0.4145	0.4073	0.4392	0.0286	0.0026	
0.0002	1	.							
3215	NH1	NH1	. ARG ARG ARG A A 421 421 .	0.4426	0.4449	0.4305	0.0273	0.0068	-
0.0058	1	.							
3216	NH2	NH2	. ARG ARG ARG A A 421 421 .	0.4439	0.3967	0.4389	0.0134	0.0047	
0.0135	1	.							
3217	C	C	. ARG ARG ARG A A 421 421 .	0.1208	0.1259	0.1285	-0.0093	0.0077	-
0.0015	1	.							
3218	O	O	. ARG ARG ARG A A 421 421 .	0.1430	0.1542	0.1753	-0.0229	0.0349	-
0.0125	1	.							
3219	N	N	. PHE PHE PHE A A 422 422 .	0.0409	0.0445	0.0406	0.0043	0.0025	
0.0082	1	.							
3220	CA	CA	. PHE PHE PHE A A 422 422 .	0.0255	0.0258	0.0257	0.0003	0.0002	
0.0004	1	.							
3221	CB	CB	. PHE PHE PHE A A 422 422 .	0.0279	0.0333	0.0402	0.0013	0.0058	-
0.0009	1	.							
3222	CG	CG	. PHE PHE PHE A A 422 422 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							



3253	OD1	OD1	. ASN ASN ASN A A 426 426 .	0.1234	0.0996	0.0945	0.0128	-0.0140	
0.0122	1	.							
3254	ND2	ND2	. ASN ASN ASN A A 426 426 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3255	C	C	. ASN ASN ASN A A 426 426 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3256	O	O	. ASN ASN ASN A A 426 426 .	0.0484	0.0355	0.0362	-0.0084	0.0007	-
0.0091	1	.							
3257	N	N	. PHE PHE PHE A A 427 427 .	0.0277	0.0263	0.0262	-0.0015	0.0014	-
0.0009	1	.							
3258	CA	CA	. PHE PHE PHE A A 427 427 .	0.0510	0.0446	0.0408	0.0004	0.0006	
0.0008	1	.							
3259	CB	CB	. PHE PHE PHE A A 427 427 .	0.0562	0.0393	0.0268	-0.0120	0.0062	-
0.0008	1	.							
3260	CG	CG	. PHE PHE PHE A A 427 427 .	0.0626	0.0565	0.0661	0.0074	-0.0017	
0.0042	1	.							
3261	CD1	CD1	. PHE PHE PHE A A 427 427 .	0.0745	0.0617	0.0562	0.0030	-0.0186	
0.0092	1	.							
3262	CE1	CE1	. PHE PHE PHE A A 427 427 .	0.0685	0.0602	0.0583	-0.0074	-0.0148	
0.0143	1	.							
3263	CZ	CZ	. PHE PHE PHE A A 427 427 .	0.0927	0.1102	0.0872	-0.0007	-0.0075	
0.0002	1	.							
3264	CE2	CE2	. PHE PHE PHE A A 427 427 .	0.0581	0.0488	0.0729	-0.0004	0.0133	-
0.0166	1	.							
3265	CD2	CD2	. PHE PHE PHE A A 427 427 .	0.1010	0.1182	0.1355	0.0035	-0.0033	-
0.0155	1	.							
3266	C	C	. PHE PHE PHE A A 427 427 .	0.0300	0.0275	0.0294	-0.0010	0.0029	-
0.0028	1	.							
3267	O	O	. PHE PHE PHE A A 427 427 .	0.0518	0.0340	0.0380	-0.0152	0.0051	-
0.0034	1	.							
3268	N	N	. ARG ARG ARG A A 428 428 .	0.0284	0.0338	0.0416	0.0003	-0.0032	-
0.0108	1	.							
3269	CA	CA	. ARG ARG ARG A A 428 428 .	0.0741	0.0600	0.0551	-0.0028	-0.0098	-
0.0017	1	.							
3270	CB	CB	. ARG ARG ARG A A 428 428 .	0.0488	0.0568	0.0730	0.0030	-0.0082	
0.0039	1	.							
3271	CG	CG	. ARG ARG ARG A A 428 428 .	0.0933	0.1016	0.0867	-0.0278	0.0069	-
0.0052	1	.							
3272	CD	CD	. ARG ARG ARG A A 428 428 .	0.1495	0.2048	0.1186	-0.0033	-0.0187	
0.0101	1	.							
3273	NE	NE	. ARG ARG ARG A A 428 428 .	0.2053	0.1440	0.1561	0.0292	-0.0143	-
0.0115	1	.							
3274	CZ	CZ	. ARG ARG ARG A A 428 428 .	0.2035	0.2062	0.2346	0.0042	-0.0204	-
0.0077	1	.							
3275	NH1	NH1	. ARG ARG ARG A A 428 428 .	0.1572	0.1758	0.1714	0.0013	-0.0066	-
0.0287	1	.							
3276	NH2	NH2	. ARG ARG ARG A A 428 428 .	0.2192	0.2184	0.1955	0.0101	-0.0505	
0.0227	1	.							
3277	C	C	. ARG ARG ARG A A 428 428 .	0.0972	0.0913	0.0993	-0.0014	-0.0052	-
0.0033	1	.							
3278	O	O	. ARG ARG ARG A A 428 428 .	0.1742	0.1298	0.1392	0.0137	0.0067	-
0.0039	1	.							
3279	N	N	. ASN ASN ASN A A 429 429 .	0.1135	0.1223	0.1042	-0.0040	-0.0115	
0.0076	1	.							
3280	CA	CA	. ASN ASN ASN A A 429 429 .	0.1303	0.1461	0.1129	-0.0075	-0.0010	
0.0074	1	.							
3281	CB	CB	. ASN ASN ASN A A 429 429 .	0.1729	0.1939	0.1528	0.0002	-0.0232	
0.0306	1	.							
3282	CG	CG	. ASN ASN ASN A A 429 429 .	0.2669	0.2862	0.2357	0.0013	-0.0124	-
0.0172	1	.							

3283	OD1	OD1	. ASN ASN ASN A A 429 429 .	0.3085	0.2961	0.3026	0.0241	-0.0512	
0.0243	1	.							
3284	ND2	ND2	. ASN ASN ASN A A 429 429 .	0.3772	0.4468	0.3373	0.0304	-0.0618	
0.0243	1	.							
3285	C	C	. ASN ASN ASN A A 429 429 .	0.1096	0.1116	0.0942	0.0012	-0.0023	
0.0065	1	.							
3286	O	O	. ASN ASN ASN A A 429 429 .	0.0919	0.0869	0.0798	-0.0052	0.0100	
0.0016	1	.							
3287	N	N	. PRO PRO PRO A A 430 430 .	0.0906	0.0847	0.0660	-0.0115	0.0017	
0.0062	1	.							
3288	CA	CA	. PRO PRO PRO A A 430 430 .	0.0874	0.0968	0.0667	-0.0109	0.0027	-
0.0007	1	.							
3289	CB	CB	. PRO PRO PRO A A 430 430 .	0.0963	0.0837	0.0728	-0.0086	-0.0114	
0.0145	1	.							
3290	CG	CG	. PRO PRO PRO A A 430 430 .	0.1167	0.0964	0.0718	0.0090	0.0063	
0.0000	1	.							
3291	CD	CD	. PRO PRO PRO A A 430 430 .	0.0775	0.0630	0.0688	-0.0050	0.0111	-
0.0213	1	.							
3292	C	C	. PRO PRO PRO A A 430 430 .	0.0796	0.0825	0.0692	-0.0158	-0.0027	-
0.0109	1	.							
3293	O	O	. PRO PRO PRO A A 430 430 .	0.0924	0.0996	0.0676	-0.0252	0.0024	-
0.0052	1	.							
3294	N	N	. SER SER SER A A 431 431 .	0.0961	0.1255	0.0836	-0.0145	-0.0099	
0.0005	1	.							
3295	CA	CA	. SER SER SER A A 431 431 .	0.1697	0.1751	0.1588	-0.0110	0.0008	
0.0037	1	.							
3296	CB	CB	. SER SER SER A A 431 431 .	0.1756	0.1824	0.1637	-0.0048	0.0019	
0.0053	1	.							
3297	OG	OG	. SER SER SER A A 431 431 .	0.2593	0.2598	0.2500	-0.0348	-0.0220	
0.0231	1	.							
3298	C	C	. SER SER SER A A 431 431 .	0.1783	0.1912	0.1741	-0.0109	-0.0015	
0.0044	1	.							
3299	O	O	. SER SER SER A A 431 431 .	0.2096	0.2490	0.1841	-0.0023	0.0023	
0.0005	1	.							
3300	N	N	. VAL VAL VAL A A 432 432 .	0.1784	0.1778	0.1684	-0.0124	-0.0060	
0.0014	1	.							
3301	CA	CA	. VAL VAL VAL A A 432 432 .	0.1657	0.1650	0.1606	-0.0141	-0.0026	-
0.0013	1	.							
3302	CB	CB	. VAL VAL VAL A A 432 432 .	0.1567	0.1772	0.1522	-0.0193	-0.0153	-
0.0018	1	.							
3303	CG1	CG1	. VAL VAL VAL A A 432 432 .	0.1739	0.1735	0.0981	-0.0061	-0.0012	-
0.0708	1	.							
3304	CG2	CG2	. VAL VAL VAL A A 432 432 .	0.1234	0.1432	0.1234	-0.0363	-0.0458	
0.0068	1	.							
3305	C	C	. VAL VAL VAL A A 432 432 .	0.1663	0.1851	0.1655	-0.0096	0.0070	
0.0001	1	.							
3306	O	O	. VAL VAL VAL A A 432 432 .	0.1927	0.2158	0.1702	-0.0208	0.0109	-
0.0203	1	.							
3307	N	N	. LEU LEU LEU A A 433 433 .	0.1515	0.1539	0.1359	-0.0099	-0.0050	
0.0061	1	.							
3308	CA	CA	. LEU LEU LEU A A 433 433 .	0.1642	0.1633	0.1358	-0.0047	0.0093	
0.0037	1	.							
3309	CB	CB	. LEU LEU LEU A A 433 433 .	0.1712	0.1375	0.1274	-0.0150	0.0063	
0.0267	1	.							
3310	CG	CG	. LEU LEU LEU A A 433 433 .	0.1555	0.1799	0.1523	-0.0112	0.0055	-
0.0099	1	.							
3311	CD1	CD1	. LEU LEU LEU A A 433 433 .	0.1401	0.1368	0.1302	-0.0333	-0.0276	
0.0059	1	.							
3312	CD2	CD2	. LEU LEU LEU A A 433 433 .	0.1687	0.1163	0.1489	-0.0545	0.0044	
0.0093	1	.							

3313	C	C	. LEU LEU LEU A A 433 433 .	0.1695	0.1610	0.1317	-0.0137	0.0063	
0.0227	1	.							
3314	O	O	. LEU LEU LEU A A 433 433 .	0.2111	0.1969	0.1876	-0.0143	0.0169	-
0.0374	1	.							
3315	MG+2	MG+2	. MG2 MG2 MG2 A . 599 599 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3316	MG+2	MG+2	. MG2 MG2 MG2 A . 600 600 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3317	O4P	O4P	. 2PG 2PG 2PG A . 601 601 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3318	P	P	. 2PG 2PG 2PG A . 601 601 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3319	O2P	O2P	. 2PG 2PG 2PG A . 601 601 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3320	O3P	O3P	. 2PG 2PG 2PG A . 601 601 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3321	O1P	O1P	. 2PG 2PG 2PG A . 601 601 .	0.0283	0.0258	0.0255	-0.0012	0.0008	-
0.0003	1	.							
3322	C2	C2	. 2PG 2PG 2PG A . 601 601 .	0.0924	0.1098	0.0682	0.0118	0.0066	
0.0076	1	.							
3323	C1	C1	. 2PG 2PG 2PG A . 601 601 .	0.0576	0.0994	0.0640	0.0109	-0.0068	
0.0055	1	.							
3324	O2	O2	. 2PG 2PG 2PG A . 601 601 .	0.0850	0.0895	0.0869	0.0339	-0.0102	-
0.0172	1	.							
3325	O1	O1	. 2PG 2PG 2PG A . 601 601 .	0.0267	0.0269	0.0394	-0.0014	0.0044	-
0.0047	1	.							
3326	C3	C3	. 2PG 2PG 2PG A . 601 601 .	0.1408	0.1583	0.1650	0.0250	0.0301	-
0.0267	1	.							
3327	O3	O3	. 2PG 2PG 2PG A . 601 601 .	0.1859	0.2033	0.2256	0.0112	0.0314	-
0.0070	1	.							
3328	O	O	. HOH HOH HOH A . 446 446 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3329	O	O	. HOH HOH HOH A . 447 447 .	0.0308	0.0267	0.0297	-0.0027	-0.0049	
0.0024	1	.							
3330	O	O	. HOH HOH HOH A . 448 448 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3331	O3	O3	. TRS TRS TRS A . 460 460 .	0.3543	0.3704	0.4034	0.0197	0.0514	-
0.0231	1	.							
3332	C3	C3	. TRS TRS TRS A . 460 460 .	0.3259	0.3459	0.3532	0.0084	0.0166	-
0.0023	1	.							
3333	C	C	. TRS TRS TRS A . 460 460 .	0.3398	0.3385	0.3479	0.0017	0.0031	-
0.0035	1	.							
3334	N	N	. TRS TRS TRS A . 460 460 .	0.3267	0.3272	0.3344	-0.0026	0.0176	
0.0014	1	.							
3335	C2	C2	. TRS TRS TRS A . 460 460 .	0.3497	0.3480	0.3590	0.0104	0.0003	-
0.0003	1	.							
3336	O2	O2	. TRS TRS TRS A . 460 460 .	0.3467	0.3262	0.3878	0.0444	-0.0105	-
0.0415	1	.							
3337	C1	C1	. TRS TRS TRS A . 460 460 .	0.3212	0.3240	0.3259	0.0005	0.0102	
0.0033	1	.							
3338	O1	O1	. TRS TRS TRS A . 460 460 .	0.2503	0.2285	0.2858	-0.0018	-0.0350	-
0.0217	1	.							
3339	N	N	. SER SER SER B B 1 1 .	0.2584	0.2389	0.2776	-0.0244	-0.0078	
0.0045	1	.							
3340	CA	CA	. SER SER SER B B 1 1 .	0.2398	0.2498	0.2551	-0.0068	-0.0015	
0.0012	1	.							
3341	CB	CB	. SER SER SER B B 1 1 .	0.2595	0.2551	0.2768	-0.0090	-0.0064	
0.0074	1	.							
3342	OG	OG	. SER SER SER B B 1 1 .	0.2809	0.3408	0.2812	-0.0040	-0.0069	
0.0124	1	.							





3373	CB	CB	. ILE ILE ILE B B 5	5	. 0.0666	0.0631	0.0814	-0.0236	-0.0037
0.0123	1	.							
3374	CG1	CG1	. ILE ILE ILE B B 5	5	. 0.0840	0.0982	0.0746	0.0290	-0.0026
0.0075	1	.							-
3375	CD1	CD1	. ILE ILE ILE B B 5	5	. 0.0826	0.0684	0.0775	0.0190	0.0423
0.0277	1	.							
3376	CG2	CG2	. ILE ILE ILE B B 5	5	. 0.0886	0.0894	0.1034	-0.0112	0.0071
0.0199	1	.							
3377	C	C	. ILE ILE ILE B B 5	5	. 0.0531	0.0670	0.0590	0.0054	0.0029
0.0054	1	.							
3378	O	O	. ILE ILE ILE B B 5	5	. 0.0740	0.0895	0.1153	0.0019	-0.0029
0.0184	1	.							-
3379	N	N	. TRP TRP TRP B B 6	6	. 0.0382	0.0320	0.0337	0.0076	0.0058
0.0056	1	.							
3380	CA	CA	. TRP TRP TRP B B 6	6	. 0.0266	0.0455	0.0497	0.0037	0.0056
0.0128	1	.							
3381	CB	CB	. TRP TRP TRP B B 6	6	. 0.0548	0.0659	0.0555	-0.0026	-0.0063
0.0171	1	.							
3382	CG	CG	. TRP TRP TRP B B 6	6	. 0.0875	0.0818	0.0872	-0.0169	0.0150
0.0242	1	.							
3383	CD1	CD1	. TRP TRP TRP B B 6	6	. 0.1061	0.0843	0.1108	0.0006	-0.0280
0.0272	1	.							
3384	NE1	NE1	. TRP TRP TRP B B 6	6	. 0.1478	0.1523	0.1375	-0.0056	-0.0001
0.0025	1	.							
3385	CE2	CE2	. TRP TRP TRP B B 6	6	. 0.1317	0.1211	0.1326	-0.0106	0.0208
0.0044	1	.							-
3386	CD2	CD2	. TRP TRP TRP B B 6	6	. 0.0880	0.0886	0.0569	-0.0084	0.0122
0.0256	1	.							
3387	CE3	CE3	. TRP TRP TRP B B 6	6	. 0.1044	0.1217	0.0822	0.0066	0.0262
0.0089	1	.							
3388	CZ3	CZ3	. TRP TRP TRP B B 6	6	. 0.1491	0.1386	0.1652	0.0058	-0.0065
0.0148	1	.							-
3389	CH2	CH2	. TRP TRP TRP B B 6	6	. 0.1220	0.1855	0.1384	-0.0169	0.0171
0.0171	1	.							-
3390	CZ2	CZ2	. TRP TRP TRP B B 6	6	. 0.1504	0.1431	0.1769	-0.0144	-0.0041
0.0072	1	.							-
3391	C	C	. TRP TRP TRP B B 6	6	. 0.0263	0.0285	0.0327	0.0017	0.0027
0.0048	1	.							
3392	O	O	. TRP TRP TRP B B 6	6	. 0.0474	0.0488	0.0431	-0.0015	0.0108
0.0029	1	.							
3393	N	N	. ALA ALA ALA B B 7	7	. 0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.							
3394	CA	CA	. ALA ALA ALA B B 7	7	. 0.0253	0.0255	0.0255	0.0001	0.0001
0.0002	1	.							
3395	CB	CB	. ALA ALA ALA B B 7	7	. 0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.							
3396	C	C	. ALA ALA ALA B B 7	7	. 0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.							
3397	O	O	. ALA ALA ALA B B 7	7	. 0.0353	0.0335	0.0270	0.0090	0.0041
0.0037	1	.							
3398	N	N	. ARG ARG ARG B B 8	8	. 0.0261	0.0271	0.0255	0.0012	0.0004
0.0006	1	.							
3399	CA	CA	. ARG ARG ARG B B 8	8	. 0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.							
3400	CB	CB	. ARG ARG ARG B B 8	8	. 0.0253	0.0253	0.0253	0.0000	0.0000
0.0000	1	.							
3401	CG	CG	. ARG ARG ARG B B 8	8	. 0.0348	0.0330	0.0364	0.0085	0.0102
0.0092	1	.							
3402	CD	CD	. ARG ARG ARG B B 8	8	. 0.0369	0.0516	0.0480	0.0135	0.0075
0.0224	1	.							



3433	O	O	. LEU LEU LEU B B 11 11 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3434	N	N	. ASP ASP ASP B B 12 12 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3435	CA	CA	. ASP ASP ASP B B 12 12 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3436	CB	CB	. ASP ASP ASP B B 12 12 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3437	CG	CG	. ASP ASP ASP B B 12 12 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3438	OD1	OD1	. ASP ASP ASP B B 12 12 .	0.0285	0.0259	0.0349	-0.0002	0.0039	-
0.0019	1	.							
3439	OD2	OD2	. ASP ASP ASP B B 12 12 .	0.0445	0.0306	0.0262	-0.0003	-0.0041	-
0.0002	1	.							
3440	C	C	. ASP ASP ASP B B 12 12 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3441	O	O	. ASP ASP ASP B B 12 12 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3442	N	N	. SER SER SER B B 13 13 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3443	CA	CA	. SER SER SER B B 13 13 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3444	CB	CB	. SER SER SER B B 13 13 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3445	OG	OG	. SER SER SER B B 13 13 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3446	C	C	. SER SER SER B B 13 13 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3447	O	O	. SER SER SER B B 13 13 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3448	N	N	. ARG ARG ARG B B 14 14 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3449	CA	CA	. ARG ARG ARG B B 14 14 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3450	CB	CB	. ARG ARG ARG B B 14 14 .	0.0428	0.0293	0.0268	-0.0084	0.0051	-
0.0024	1	.							
3451	CG	CG	. ARG ARG ARG B B 14 14 .	0.1412	0.0803	0.1177	0.0179	0.0242	-
0.0169	1	.							
3452	CD	CD	. ARG ARG ARG B B 14 14 .	0.1168	0.1195	0.1349	0.0019	-0.0116	
0.0084	1	.							
3453	NE	NE	. ARG ARG ARG B B 14 14 .	0.1221	0.1220	0.1220	-0.0093	0.0265	
0.0278	1	.							
3454	CZ	CZ	. ARG ARG ARG B B 14 14 .	0.0375	0.0328	0.0368	-0.0086	-0.0011	-
0.0031	1	.							
3455	NH1	NH1	. ARG ARG ARG B B 14 14 .	0.0325	0.0253	0.0281	0.0006	-0.0044	-
0.0003	1	.							
3456	NH2	NH2	. ARG ARG ARG B B 14 14 .	0.0363	0.0269	0.0392	-0.0041	0.0108	-
0.0042	1	.							
3457	C	C	. ARG ARG ARG B B 14 14 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3458	O	O	. ARG ARG ARG B B 14 14 .	0.0295	0.0275	0.0257	-0.0030	-0.0013	
0.0009	1	.							
3459	N	N	. GLY GLY GLY B B 15 15 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3460	CA	CA	. GLY GLY GLY B B 15 15 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3461	C	C	. GLY GLY GLY B B 15 15 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
3462	O	O	. GLY GLY GLY B B 15 15 .	0.0282	0.0311	0.0328	0.0023	0.0032	
0.0065	1	.							



















3703	CD2	CD2	. LEU LEU LEU B B 48 48	. 0.0532 0.0518 0.0534 0.0257 0.0193
0.0114	1	.		
3704	C	C	. LEU LEU LEU B B 48 48	. 0.0406 0.0291 0.0366 -0.0037 0.0003
0.0020	1	.		
3705	O	O	. LEU LEU LEU B B 48 48	. 0.0565 0.0386 0.0546 0.0148 0.0155 -
0.0041	1	.		
3706	N	N	. ARG ARG ARG B B 49 49	. 0.0321 0.0457 0.0490 0.0060 -0.0054 -
0.0075	1	.		
3707	CA	CA	. ARG ARG ARG B B 49 49	. 0.0396 0.0321 0.0302 0.0016 0.0000 -
0.0056	1	.		
3708	CB	CB	. ARG ARG ARG B B 49 49	. 0.0405 0.0630 0.0536 0.0137 -0.0081 -
0.0222	1	.		
3709	CG	CG	. ARG ARG ARG B B 49 49	. 0.0897 0.1110 0.1245 0.0116 -0.0033 -
0.0225	1	.		
3710	CD	CD	. ARG ARG ARG B B 49 49	. 0.1565 0.0676 0.0964 -0.0070 0.0047
0.0045	1	.		
3711	NE	NE	. ARG ARG ARG B B 49 49	. 0.1317 0.0538 0.0729 0.0322 0.0124
0.0002	1	.		
3712	CZ	CZ	. ARG ARG ARG B B 49 49	. 0.1043 0.0643 0.0500 0.0163 0.0071
0.0096	1	.		
3713	NH1	NH1	. ARG ARG ARG B B 49 49	. 0.0511 0.0326 0.0372 0.0000 0.0052 -
0.0089	1	.		
3714	NH2	NH2	. ARG ARG ARG B B 49 49	. 0.0657 0.0586 0.0679 0.0135 0.0073 -
0.0178	1	.		
3715	C	C	. ARG ARG ARG B B 49 49	. 0.0464 0.0341 0.0330 0.0120 -0.0017 -
0.0047	1	.		
3716	O	O	. ARG ARG ARG B B 49 49	. 0.0964 0.0958 0.0814 0.0157 -0.0074
0.0030	1	.		
3717	N	N	. ASP ASP ASP B B 50 50	. 0.0320 0.0419 0.0257 0.0105 0.0015
0.0025	1	.		
3718	CA	CA	. ASP ASP ASP B B 50 50	. 0.0645 0.0422 0.0453 0.0017 0.0037 -
0.0018	1	.		
3719	CB	CB	. ASP ASP ASP B B 50 50	. 0.0584 0.0473 0.0300 0.0104 -0.0065
0.0059	1	.		
3720	CG	CG	. ASP ASP ASP B B 50 50	. 0.0850 0.0959 0.0859 0.0045 -0.0198
0.0021	1	.		
3721	OD1	OD1	. ASP ASP ASP B B 50 50	. 0.0449 0.0366 0.0403 0.0078 -0.0054
0.0083	1	.		
3722	OD2	OD2	. ASP ASP ASP B B 50 50	. 0.1056 0.0532 0.0784 0.0116 0.0126
0.0054	1	.		
3723	C	C	. ASP ASP ASP B B 50 50	. 0.0677 0.0746 0.0659 0.0046 -0.0059 -
0.0001	1	.		
3724	O	O	. ASP ASP ASP B B 50 50	. 0.0981 0.0771 0.0864 0.0124 0.0000 -
0.0158	1	.		
3725	N	N	. GLY GLY GLY B B 51 51	. 0.0970 0.0887 0.1028 0.0033 0.0034 -
0.0127	1	.		
3726	CA	CA	. GLY GLY GLY B B 51 51	. 0.1090 0.1150 0.1173 -0.0013 0.0126 -
0.0028	1	.		
3727	C	C	. GLY GLY GLY B B 51 51	. 0.1305 0.1204 0.1224 0.0020 -0.0022 -
0.0152	1	.		
3728	O	O	. GLY GLY GLY B B 51 51	. 0.1756 0.1185 0.1686 -0.0082 0.0015
0.0083	1	.		
3729	N	N	. ASP ASP ASP B B 52 52	. 0.1302 0.0973 0.1318 0.0017 0.0093 -
0.0118	1	.		
3730	CA	CA	. ASP ASP ASP B B 52 52	. 0.1435 0.1357 0.1433 0.0052 -0.0005 -
0.0104	1	.		
3731	CB	CB	. ASP ASP ASP B B 52 52	. 0.1549 0.1499 0.1483 0.0169 0.0017 -
0.0032	1	.		
3732	CG	CG	. ASP ASP ASP B B 52 52	. 0.1575 0.1669 0.1598 -0.0001 0.0122 -
0.0167	1	.		

3733	OD1	OD1	. ASP ASP ASP B B 52 52	. 0.2430 0.2151 0.2062 -0.0062 -0.0095 -
0.0227	1	.		
3734	OD2	OD2	. ASP ASP ASP B B 52 52	. 0.1891 0.1321 0.1668 0.0193 0.0128 -
0.0152	1	.		
3735	C	C	. ASP ASP ASP B B 52 52	. 0.1644 0.1611 0.1651 0.0068 0.0045 -
0.0006	1	.		
3736	O	O	. ASP ASP ASP B B 52 52	. 0.1924 0.1233 0.1600 0.0036 0.0049 -
0.0158	1	.		
3737	N	N	. LYS LYS LYS B B 53 53	. 0.1956 0.1775 0.1934 -0.0054 0.0012 -
0.0098	1	.		
3738	CA	CA	. LYS LYS LYS B B 53 53	. 0.2160 0.2173 0.2297 -0.0006 0.0021 -
0.0032	1	.		
3739	CB	CB	. LYS LYS LYS B B 53 53	. 0.2448 0.2482 0.2552 -0.0028 0.0095 -
0.0088	1	.		
3740	CG	CG	. LYS LYS LYS B B 53 53	. 0.3147 0.3303 0.3105 0.0111 -0.0095
0.0046	1	.		
3741	CD	CD	. LYS LYS LYS B B 53 53	. 0.3867 0.3543 0.4045 -0.0115 -0.0033
0.0122	1	.		
3742	CE	CE	. LYS LYS LYS B B 53 53	. 0.4430 0.4121 0.4120 0.0052 0.0038 -
0.0011	1	.		
3743	NZ	NZ	. LYS LYS LYS B B 53 53	. 0.4574 0.3449 0.4423 -0.0020 -0.0100 -
0.0284	1	.		
3744	C	C	. LYS LYS LYS B B 53 53	. 0.2204 0.2240 0.2391 -0.0043 -0.0011 -
0.0068	1	.		
3745	O	O	. LYS LYS LYS B B 53 53	. 0.2418 0.2086 0.2611 0.0084 -0.0111 -
0.0114	1	.		
3746	N	N	. GLN GLN GLN B B 54 54	. 0.2159 0.2051 0.2127 -0.0058 -0.0055 -
0.0106	1	.		
3747	CA	CA	. GLN GLN GLN B B 54 54	. 0.2315 0.2013 0.2256 -0.0040 -0.0025 -
0.0017	1	.		
3748	CB	CB	. GLN GLN GLN B B 54 54	. 0.2404 0.2324 0.2452 -0.0020 0.0041
0.0009	1	.		
3749	CG	CG	. GLN GLN GLN B B 54 54	. 0.3267 0.2689 0.3159 -0.0051 -0.0130 -
0.0029	1	.		
3750	CD	CD	. GLN GLN GLN B B 54 54	. 0.3677 0.3488 0.3976 -0.0260 -0.0016
0.0012	1	.		
3751	OE1	OE1	. GLN GLN GLN B B 54 54	. 0.4187 0.4136 0.4141 -0.0364 -0.0213 -
0.0155	1	.		
3752	NE2	NE2	. GLN GLN GLN B B 54 54	. 0.4445 0.4223 0.4019 -0.0285 -0.0115
0.0160	1	.		
3753	C	C	. GLN GLN GLN B B 54 54	. 0.2051 0.1851 0.1962 -0.0021 -0.0081 -
0.0050	1	.		
3754	O	O	. GLN GLN GLN B B 54 54	. 0.2251 0.1924 0.1847 0.0101 -0.0176 -
0.0215	1	.		
3755	N	N	. ARG ARG ARG B B 55 55	. 0.1699 0.1399 0.1546 -0.0006 -0.0004 -
0.0055	1	.		
3756	CA	CA	. ARG ARG ARG B B 55 55	. 0.0897 0.0837 0.0857 0.0013 -0.0007 -
0.0060	1	.		
3757	CB	CB	. ARG ARG ARG B B 55 55	. 0.0936 0.0922 0.0748 0.0067 0.0170
0.0032	1	.		
3758	CG	CG	. ARG ARG ARG B B 55 55	. 0.0646 0.0607 0.0576 -0.0223 0.0122 -
0.0079	1	.		
3759	CD	CD	. ARG ARG ARG B B 55 55	. 0.0738 0.1018 0.0699 0.0058 -0.0095 -
0.0015	1	.		
3760	NE	NE	. ARG ARG ARG B B 55 55	. 0.0474 0.0601 0.0505 0.0184 -0.0066 -
0.0061	1	.		
3761	CZ	CZ	. ARG ARG ARG B B 55 55	. 0.0276 0.0276 0.0369 0.0019 -0.0052 -
0.0042	1	.		
3762	NH1	NH1	. ARG ARG ARG B B 55 55	. 0.0479 0.0501 0.0373 0.0002 0.0160 -
0.0039	1	.		















































4363	CD1	CD1	. LEU LEU LEU B B 136 136 .	0.0762	0.0775	0.0368	-0.0059	-0.0240	
0.0000	1	.							
4364	CD2	CD2	. LEU LEU LEU B B 136 136 .	0.1009	0.1423	0.1108	0.0301	0.0031	-
0.0070	1	.							
4365	C	C	. LEU LEU LEU B B 136 136 .	0.1033	0.0818	0.0902	0.0029	0.0034	
0.0061	1	.							
4366	O	O	. LEU LEU LEU B B 136 136 .	0.0918	0.1142	0.0810	0.0214	-0.0162	
0.0159	1	.							
4367	N	N	. ALA ALA ALA B B 137 137 .	0.0530	0.0576	0.0575	0.0053	0.0033	
0.0173	1	.							
4368	CA	CA	. ALA ALA ALA B B 137 137 .	0.0820	0.1045	0.0726	0.0118	0.0035	
0.0119	1	.							
4369	CB	CB	. ALA ALA ALA B B 137 137 .	0.0886	0.0919	0.0725	-0.0179	0.0069	
0.0170	1	.							
4370	C	C	. ALA ALA ALA B B 137 137 .	0.1211	0.1271	0.1124	-0.0097	0.0008	
0.0055	1	.							
4371	O	O	. ALA ALA ALA B B 137 137 .	0.1474	0.1308	0.1108	-0.0083	0.0030	
0.0138	1	.							
4372	N	N	. GLY GLY GLY B B 138 138 .	0.1611	0.1468	0.1261	0.0040	-0.0060	
0.0042	1	.							
4373	CA	CA	. GLY GLY GLY B B 138 138 .	0.1885	0.1904	0.1765	-0.0011	-0.0087	-
0.0003	1	.							
4374	C	C	. GLY GLY GLY B B 138 138 .	0.2026	0.2029	0.1931	0.0036	-0.0018	-
0.0079	1	.							
4375	O	O	. GLY GLY GLY B B 138 138 .	0.2358	0.2284	0.2030	0.0118	-0.0009	
0.0086	1	.							
4376	N	N	. ASN ASN ASN B B 139 139 .	0.2205	0.2041	0.2013	-0.0041	-0.0031	
0.0076	1	.							
4377	CA	CA	. ASN ASN ASN B B 139 139 .	0.2330	0.2327	0.2269	-0.0011	-0.0011	
0.0012	1	.							
4378	CB	CB	. ASN ASN ASN B B 139 139 .	0.2160	0.2093	0.2055	-0.0165	-0.0027	-
0.0010	1	.							
4379	CG	CG	. ASN ASN ASN B B 139 139 .	0.2421	0.2288	0.2244	-0.0125	-0.0198	
0.0187	1	.							
4380	OD1	OD1	. ASN ASN ASN B B 139 139 .	0.2636	0.2718	0.1963	0.0005	-0.0390	
0.0055	1	.							
4381	ND2	ND2	. ASN ASN ASN B B 139 139 .	0.2255	0.1829	0.1804	0.0078	-0.0356	
0.0165	1	.							
4382	C	C	. ASN ASN ASN B B 139 139 .	0.2547	0.2470	0.2528	-0.0105	-0.0016	-
0.0016	1	.							
4383	O	O	. ASN ASN ASN B B 139 139 .	0.2801	0.2512	0.2666	-0.0239	-0.0028	-
0.0181	1	.							
4384	N	N	. SER SER SER B B 140 140 .	0.2815	0.2892	0.2832	-0.0019	0.0041	
0.0004	1	.							
4385	CA	CA	. SER SER SER B B 140 140 .	0.3117	0.3027	0.3092	0.0014	0.0019	-
0.0016	1	.							
4386	CB	CB	. SER SER SER B B 140 140 .	0.3131	0.3071	0.3140	-0.0013	-0.0010	-
0.0001	1	.							
4387	OG	OG	. SER SER SER B B 140 140 .	0.3702	0.3406	0.3328	0.0172	0.0121	-
0.0019	1	.							
4388	C	C	. SER SER SER B B 140 140 .	0.3309	0.3254	0.3221	-0.0018	-0.0031	
0.0023	1	.							
4389	O	O	. SER SER SER B B 140 140 .	0.3587	0.3369	0.3515	-0.0005	-0.0026	
0.0032	1	.							
4390	N	N	. ASP ASP ASP B B 141 141 .	0.3396	0.3447	0.3410	-0.0015	0.0018	
0.0002	1	.							
4391	CA	CA	. ASP ASP ASP B B 141 141 .	0.3531	0.3491	0.3515	0.0037	-0.0038	-
0.0009	1	.							
4392	CB	CB	. ASP ASP ASP B B 141 141 .	0.3733	0.3823	0.3877	0.0056	0.0056	
0.0038	1	.							









4513	CB	CB	. LEU LEU LEU B B 162 162 .	0.0770	0.0733	0.0753	-0.0070	-0.0181	-
0.0034	1	.							
4514	CG	CG	. LEU LEU LEU B B 162 162 .	0.0699	0.0554	0.0578	-0.0264	0.0144	
0.0114	1	.							
4515	CD1	CD1	. LEU LEU LEU B B 162 162 .	0.1299	0.1082	0.0933	0.0081	0.0254	-
0.0107	1	.							
4516	CD2	CD2	. LEU LEU LEU B B 162 162 .	0.0318	0.0405	0.0382	0.0091	-0.0080	-
0.0139	1	.							
4517	C	C	. LEU LEU LEU B B 162 162 .	0.0591	0.0876	0.0691	0.0102	0.0027	
0.0078	1	.							
4518	O	O	. LEU LEU LEU B B 162 162 .	0.1125	0.1111	0.1138	0.0075	0.0061	
0.0034	1	.							
4519	N	N	. ALA ALA ALA B B 163 163 .	0.0645	0.0568	0.0889	0.0034	0.0015	-
0.0010	1	.							
4520	CA	CA	. ALA ALA ALA B B 163 163 .	0.0544	0.0630	0.0686	0.0002	-0.0167	-
0.0101	1	.							
4521	CB	CB	. ALA ALA ALA B B 163 163 .	0.0457	0.0429	0.0696	-0.0106	-0.0070	-
0.0187	1	.							
4522	C	C	. ALA ALA ALA B B 163 163 .	0.0513	0.0553	0.0499	-0.0006	0.0077	-
0.0111	1	.							
4523	O	O	. ALA ALA ALA B B 163 163 .	0.0377	0.0423	0.0576	-0.0076	-0.0105	-
0.0105	1	.							
4524	N	N	. MET MET MET B B 164 164 .	0.0664	0.0381	0.0475	-0.0041	-0.0107	-
0.0121	1	.							
4525	CA	CA	. MET MET MET B B 164 164 .	0.0258	0.0355	0.0262	-0.0022	0.0006	-
0.0030	1	.							
4526	CB	CB	. MET MET MET B B 164 164 .	0.0261	0.0266	0.0254	0.0010	-0.0003	-
0.0003	1	.							
4527	CG	CG	. MET MET MET B B 164 164 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4528	SD	SD	. MET MET MET B B 164 164 .	0.0738	0.0644	0.0560	0.0000	-0.0149	-
0.0135	1	.							
4529	CE	CE	. MET MET MET B B 164 164 .	0.0627	0.0266	0.0465	-0.0016	-0.0013	-
0.0050	1	.							
4530	C	C	. MET MET MET B B 164 164 .	0.0309	0.0289	0.0325	0.0045	-0.0064	-
0.0051	1	.							
4531	O	O	. MET MET MET B B 164 164 .	0.0575	0.0495	0.0569	0.0204	-0.0008	-
0.0006	1	.							
4532	N	N	. GLN GLN GLN B B 165 165 .	0.0319	0.0253	0.0269	-0.0006	0.0032	-
0.0003	1	.							
4533	CA	CA	. GLN GLN GLN B B 165 165 .	0.0280	0.0270	0.0255	0.0021	0.0008	
0.0006	1	.							
4534	CB	CB	. GLN GLN GLN B B 165 165 .	0.0253	0.0262	0.0253	-0.0002	0.0000	
0.0002	1	.							
4535	CG	CG	. GLN GLN GLN B B 165 165 .	0.0660	0.0578	0.0549	-0.0011	0.0154	
0.0099	1	.							
4536	CD	CD	. GLN GLN GLN B B 165 165 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4537	OE1	OE1	. GLN GLN GLN B B 165 165 .	0.0443	0.0303	0.0399	0.0094	-0.0166	-
0.0083	1	.							
4538	NE2	NE2	. GLN GLN GLN B B 165 165 .	0.0580	0.0450	0.0445	0.0159	-0.0031	-
0.0165	1	.							
4539	C	C	. GLN GLN GLN B B 165 165 .	0.0405	0.0285	0.0338	0.0067	-0.0062	-
0.0040	1	.							
4540	O	O	. GLN GLN GLN B B 165 165 .	0.0787	0.0606	0.0333	0.0216	-0.0086	
0.0001	1	.							
4541	N	N	. GLU GLU GLU B B 166 166 .	0.0303	0.0312	0.0275	0.0054	-0.0033	-
0.0036	1	.							
4542	CA	CA	. GLU GLU GLU B B 166 166 .	0.0284	0.0268	0.0254	0.0021	0.0006	
0.0004	1	.							







4603	N	N	. ALA ALA ALA B B	174 174	. 0.0616 0.0515 0.0418 0.0124 0.0110	-
0.0132	1	.				
4604	CA	CA	. ALA ALA ALA B B	174 174	. 0.0582 0.0346 0.0494 0.0161 0.0086	
0.0044	1	.				
4605	CB	CB	. ALA ALA ALA B B	174 174	. 0.0746 0.0493 0.0369 0.0187 -0.0108	-
0.0046	1	.				
4606	C	C	. ALA ALA ALA B B	174 174	. 0.0871 0.0744 0.0777 0.0070 -0.0055	
0.0008	1	.				
4607	O	O	. ALA ALA ALA B B	174 174	. 0.0878 0.0702 0.0613 0.0049 0.0088	-
0.0204	1	.				
4608	N	N	. GLU GLU GLU B B	175 175	. 0.1195 0.0846 0.0884 0.0091 0.0005	
0.0110	1	.				
4609	CA	CA	. GLU GLU GLU B B	175 175	. 0.1164 0.1065 0.1115 0.0055 0.0040	
0.0004	1	.				
4610	CB	CB	. GLU GLU GLU B B	175 175	. 0.1471 0.1262 0.1257 0.0099 0.0042	
0.0149	1	.				
4611	CG	CG	. GLU GLU GLU B B	175 175	. 0.2397 0.2586 0.2860 0.0060 0.0199	-
0.0011	1	.				
4612	CD	CD	. GLU GLU GLU B B	175 175	. 0.4264 0.3735 0.3904 0.0158 0.0034	
0.0338	1	.				
4613	OE1	OE1	. GLU GLU GLU B B	175 175	. 0.4667 0.4589 0.4655 -0.0050 0.0216	
0.0173	1	.				
4614	OE2	OE2	. GLU GLU GLU B B	175 175	. 0.4508 0.4245 0.4304 -0.0084 0.0015	
0.0419	1	.				
4615	C	C	. GLU GLU GLU B B	175 175	. 0.0989 0.0896 0.0893 0.0081 0.0034	
0.0030	1	.				
4616	O	O	. GLU GLU GLU B B	175 175	. 0.1304 0.0916 0.0853 0.0085 0.0081	-
0.0137	1	.				
4617	N	N	. SER SER SER B B	176 176	. 0.0810 0.0746 0.0685 0.0073 -0.0013	
0.0003	1	.				
4618	CA	CA	. SER SER SER B B	176 176	. 0.0555 0.0472 0.0422 -0.0069 0.0002	
0.0059	1	.				
4619	CB	CB	. SER SER SER B B	176 176	. 0.0840 0.0621 0.0794 0.0050 -0.0016	
0.0113	1	.				
4620	OG	OG	. SER SER SER B B	176 176	. 0.0508 0.0437 0.0372 -0.0182 -0.0087	-
0.0006	1	.				
4621	C	C	. SER SER SER B B	176 176	. 0.0253 0.0253 0.0253 0.0000 0.0000	
0.0000	1	.				
4622	O	O	. SER SER SER B B	176 176	. 0.0253 0.0253 0.0253 0.0000 0.0000	
0.0000	1	.				
4623	N	N	. PHE PHE PHE B B	177 177	. 0.0253 0.0253 0.0253 0.0000 0.0000	
0.0000	1	.				
4624	CA	CA	. PHE PHE PHE B B	177 177	. 0.0261 0.0253 0.0254 0.0001 0.0002	
0.0000	1	.				
4625	CB	CB	. PHE PHE PHE B B	177 177	. 0.0267 0.0259 0.0350 -0.0006 -0.0026	
0.0024	1	.				
4626	CG	CG	. PHE PHE PHE B B	177 177	. 0.0253 0.0253 0.0253 0.0000 0.0000	
0.0000	1	.				
4627	CD1	CD1	. PHE PHE PHE B B	177 177	. 0.0333 0.0269 0.0273 0.0036 0.0040	
0.0018	1	.				
4628	CE1	CE1	. PHE PHE PHE B B	177 177	. 0.0376 0.0357 0.0253 -0.0113 -0.0001	
0.0001	1	.				
4629	CZ	CZ	. PHE PHE PHE B B	177 177	. 0.0425 0.0370 0.0333 -0.0012 -0.0085	
0.0072	1	.				
4630	CE2	CE2	. PHE PHE PHE B B	177 177	. 0.0397 0.0253 0.0477 -0.0003 -0.0179	
0.0004	1	.				
4631	CD2	CD2	. PHE PHE PHE B B	177 177	. 0.0253 0.0253 0.0253 0.0000 0.0000	
0.0000	1	.				
4632	C	C	. PHE PHE PHE B B	177 177	. 0.0253 0.0253 0.0253 0.0000 0.0000	
0.0000	1	.				





4693	O	O	. ALA ALA ALA B B 185 185 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4694	N	N	. GLU GLU GLU B B 186 186 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4695	CA	CA	. GLU GLU GLU B B 186 186 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4696	CB	CB	. GLU GLU GLU B B 186 186 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4697	CG	CG	. GLU GLU GLU B B 186 186 .	0.0360	0.0258	0.0313	0.0022	0.0080	
0.0016	1	.							
4698	CD	CD	. GLU GLU GLU B B 186 186 .	0.0803	0.0595	0.0645	-0.0101	0.0314	-
0.0255	1	.							
4699	OE1	OE1	. GLU GLU GLU B B 186 186 .	0.1108	0.0721	0.0587	0.0115	0.0233	
0.0381	1	.							
4700	OE2	OE2	. GLU GLU GLU B B 186 186 .	0.0832	0.0376	0.0578	0.0042	0.0119	-
0.0009	1	.							
4701	C	C	. GLU GLU GLU B B 186 186 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4702	O	O	. GLU GLU GLU B B 186 186 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4703	N	N	. VAL VAL VAL B B 187 187 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4704	CA	CA	. VAL VAL VAL B B 187 187 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4705	CB	CB	. VAL VAL VAL B B 187 187 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4706	CG1	CG1	. VAL VAL VAL B B 187 187 .	0.0263	0.0260	0.0256	-0.0008	-0.0005	
0.0004	1	.							
4707	CG2	CG2	. VAL VAL VAL B B 187 187 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4708	C	C	. VAL VAL VAL B B 187 187 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4709	O	O	. VAL VAL VAL B B 187 187 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4710	N	N	. TYR TYR TYR B B 188 188 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4711	CA	CA	. TYR TYR TYR B B 188 188 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4712	CB	CB	. TYR TYR TYR B B 188 188 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4713	CG	CG	. TYR TYR TYR B B 188 188 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4714	CD1	CD1	. TYR TYR TYR B B 188 188 .	0.0267	0.0257	0.0270	-0.0007	0.0015	-
0.0008	1	.							
4715	CE1	CE1	. TYR TYR TYR B B 188 188 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4716	CZ	CZ	. TYR TYR TYR B B 188 188 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4717	OH	OH	. TYR TYR TYR B B 188 188 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4718	CE2	CE2	. TYR TYR TYR B B 188 188 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4719	CD2	CD2	. TYR TYR TYR B B 188 188 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4720	C	C	. TYR TYR TYR B B 188 188 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4721	O	O	. TYR TYR TYR B B 188 188 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
4722	N	N	. HIS HIS HIS B B 189 189 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							

















4933	CD1	CD1	. LEU LEU LEU B B 217 217 .	0.2027	0.1781	0.1542	-0.0120	-0.0434	-
0.0453	1	.							
4934	CD2	CD2	. LEU LEU LEU B B 217 217 .	0.2562	0.1888	0.1523	-0.0262	-0.0240	-
0.0302	1	.							
4935	C	C	. LEU LEU LEU B B 217 217 .	0.1542	0.1641	0.1461	-0.0028	-0.0076	-
0.0060	1	.							
4936	O	O	. LEU LEU LEU B B 217 217 .	0.1591	0.1574	0.1744	0.0122	-0.0310	-
0.0238	1	.							
4937	N	N	. GLU GLU GLU B B 218 218 .	0.1336	0.1359	0.1492	0.0109	-0.0158	-
0.0105	1	.							
4938	CA	CA	. GLU GLU GLU B B 218 218 .	0.1335	0.1298	0.1219	-0.0008	-0.0020	-
0.0019	1	.							
4939	CB	CB	. GLU GLU GLU B B 218 218 .	0.1573	0.1512	0.1765	0.0109	-0.0129	-
0.0037	1	.							
4940	CG	CG	. GLU GLU GLU B B 218 218 .	0.1970	0.1885	0.2096	-0.0158	-0.0041	-
0.0022	1	.							
4941	CD	CD	. GLU GLU GLU B B 218 218 .	0.3371	0.3018	0.3079	-0.0059	-0.0307	-
0.0452	1	.							
4942	OE1	OE1	. GLU GLU GLU B B 218 218 .	0.3929	0.3116	0.3499	-0.0146	-0.0595	-
0.0603	1	.							
4943	OE2	OE2	. GLU GLU GLU B B 218 218 .	0.4052	0.3690	0.3603	-0.0289	-0.0404	-
0.0480	1	.							
4944	C	C	. GLU GLU GLU B B 218 218 .	0.1180	0.1020	0.1077	0.0059	-0.0068	-
0.0061	1	.							
4945	O	O	. GLU GLU GLU B B 218 218 .	0.1055	0.0605	0.0829	0.0143	0.0063	-
0.0258	1	.							
4946	N	N	. ASN ASN ASN B B 219 219 .	0.0751	0.0553	0.0872	-0.0135	-0.0132	-
0.0134	1	.							
4947	CA	CA	. ASN ASN ASN B B 219 219 .	0.0582	0.0562	0.0569	0.0066	-0.0072	-
0.0015	1	.							
4948	CB	CB	. ASN ASN ASN B B 219 219 .	0.0763	0.0616	0.0686	0.0098	-0.0107	-
0.0213	1	.							
4949	CG	CG	. ASN ASN ASN B B 219 219 .	0.0460	0.0594	0.0586	0.0033	-0.0028	-
0.0153	1	.							
4950	OD1	OD1	. ASN ASN ASN B B 219 219 .	0.0653	0.0407	0.0614	0.0049	-0.0166	-
0.0144	1	.							
4951	ND2	ND2	. ASN ASN ASN B B 219 219 .	0.1307	0.1090	0.1226	0.0247	-0.0185	-
0.0166	1	.							
4952	C	C	. ASN ASN ASN B B 219 219 .	0.0468	0.0506	0.0531	-0.0032	-0.0049	-
0.0017	1	.							
4953	O	O	. ASN ASN ASN B B 219 219 .	0.0642	0.0480	0.0596	0.0119	-0.0068	-
0.0051	1	.							
4954	N	N	. SER SER SER B B 220 220 .	0.0573	0.0524	0.0467	0.0086	-0.0144	-
0.0061	1	.							
4955	CA	CA	. SER SER SER B B 220 220 .	0.0747	0.0796	0.0761	0.0111	-0.0105	-
0.0033	1	.							
4956	CB	CB	. SER SER SER B B 220 220 .	0.0899	0.0811	0.0784	0.0123	-0.0063	-
0.0064	1	.							
4957	OG	OG	. SER SER SER B B 220 220 .	0.1326	0.1135	0.1358	-0.0085	-0.0068	-
0.0133	1	.							
4958	C	C	. SER SER SER B B 220 220 .	0.0771	0.0658	0.0649	0.0034	-0.0025	-
0.0034	1	.							
4959	O	O	. SER SER SER B B 220 220 .	0.0834	0.0726	0.0440	0.0103	-0.0209	-
0.0016	1	.							
4960	N	N	. GLU GLU GLU B B 221 221 .	0.0756	0.0711	0.0817	0.0132	-0.0101	-
0.0083	1	.							
4961	CA	CA	. GLU GLU GLU B B 221 221 .	0.0811	0.0812	0.0751	0.0021	0.0018	-
0.0088	1	.							
4962	CB	CB	. GLU GLU GLU B B 221 221 .	0.1303	0.0967	0.0880	0.0042	0.0013	-
0.0017	1	.							







5023	O	O	. GLU GLU GLU B B 228 228 .	0.1209	0.1137	0.1087	0.0163	0.0056	-
0.0104	1	.							
5024	N	N	. ALA ALA ALA B B 229 229 .	0.0708	0.0787	0.0691	0.0053	0.0056	
0.0150	1	.							
5025	CA	CA	. ALA ALA ALA B B 229 229 .	0.0596	0.0676	0.0620	0.0080	0.0074	
0.0133	1	.							
5026	CB	CB	. ALA ALA ALA B B 229 229 .	0.0654	0.0563	0.0493	0.0241	0.0029	
0.0083	1	.							
5027	C	C	. ALA ALA ALA B B 229 229 .	0.0547	0.0471	0.0313	0.0064	0.0105	
0.0090	1	.							
5028	O	O	. ALA ALA ALA B B 229 229 .	0.0691	0.0529	0.0491	0.0085	0.0156	
0.0110	1	.							
5029	N	N	. ILE ILE ILE B B 230 230 .	0.0293	0.0472	0.0357	0.0068	0.0060	
0.0066	1	.							
5030	CA	CA	. ILE ILE ILE B B 230 230 .	0.0484	0.0366	0.0415	0.0013	0.0033	
0.0041	1	.							
5031	CB	CB	. ILE ILE ILE B B 230 230 .	0.0379	0.0455	0.0325	0.0046	-0.0002	-
0.0115	1	.							
5032	CG1	CG1	. ILE ILE ILE B B 230 230 .	0.0368	0.0280	0.0385	0.0055	-0.0046	-
0.0020	1	.							
5033	CD1	CD1	. ILE ILE ILE B B 230 230 .	0.0870	0.0807	0.0351	0.0276	-0.0069	-
0.0227	1	.							
5034	CG2	CG2	. ILE ILE ILE B B 230 230 .	0.0505	0.0356	0.0405	-0.0054	0.0152	-
0.0106	1	.							
5035	C	C	. ILE ILE ILE B B 230 230 .	0.0771	0.0718	0.0768	-0.0018	0.0116	
0.0012	1	.							
5036	O	O	. ILE ILE ILE B B 230 230 .	0.0863	0.0668	0.0736	0.0124	0.0161	
0.0027	1	.							
5037	N	N	. ASP ASP ASP B B 231 231 .	0.0991	0.0934	0.0985	0.0080	0.0078	
0.0009	1	.							
5038	CA	CA	. ASP ASP ASP B B 231 231 .	0.1290	0.1174	0.1271	0.0080	0.0136	
0.0009	1	.							
5039	CB	CB	. ASP ASP ASP B B 231 231 .	0.1656	0.1337	0.1514	0.0012	0.0199	
0.0188	1	.							
5040	CG	CG	. ASP ASP ASP B B 231 231 .	0.2445	0.2160	0.2325	0.0151	0.0279	-
0.0151	1	.							
5041	OD1	OD1	. ASP ASP ASP B B 231 231 .	0.3071	0.3096	0.2841	0.0279	0.0155	-
0.0437	1	.							
5042	OD2	OD2	. ASP ASP ASP B B 231 231 .	0.3813	0.3875	0.3724	-0.0096	-0.0226	-
0.0314	1	.							
5043	C	C	. ASP ASP ASP B B 231 231 .	0.1073	0.0971	0.1123	0.0031	0.0011	
0.0080	1	.							
5044	O	O	. ASP ASP ASP B B 231 231 .	0.1342	0.1042	0.1136	0.0112	-0.0011	-
0.0078	1	.							
5045	N	N	. LYS LYS LYS B B 232 232 .	0.0884	0.0665	0.0947	0.0080	0.0118	
0.0104	1	.							
5046	CA	CA	. LYS LYS LYS B B 232 232 .	0.1055	0.1078	0.0985	0.0053	0.0017	
0.0040	1	.							
5047	CB	CB	. LYS LYS LYS B B 232 232 .	0.1393	0.1312	0.1262	-0.0010	0.0006	-
0.0036	1	.							
5048	CG	CG	. LYS LYS LYS B B 232 232 .	0.1907	0.2188	0.2007	0.0236	0.0220	
0.0162	1	.							
5049	CD	CD	. LYS LYS LYS B B 232 232 .	0.2885	0.2861	0.2440	-0.0112	0.0178	
0.0030	1	.							
5050	CE	CE	. LYS LYS LYS B B 232 232 .	0.3533	0.3644	0.3687	-0.0038	-0.0086	-
0.0182	1	.							
5051	NZ	NZ	. LYS LYS LYS B B 232 232 .	0.4535	0.4291	0.3917	-0.0379	0.0058	-
0.0058	1	.							
5052	C	C	. LYS LYS LYS B B 232 232 .	0.0982	0.0931	0.1080	0.0068	-0.0021	
0.0035	1	.							











5203	NE	NE	. ARG ARG ARG B B 252 252 .	0.2142	0.1490	0.1716	0.0074	0.0024	-
0.0069	1	.							
5204	CZ	CZ	. ARG ARG ARG B B 252 252 .	0.1853	0.1767	0.1554	-0.0097	-0.0225	-
0.0006	1	.							
5205	NH1	NH1	. ARG ARG ARG B B 252 252 .	0.1199	0.1012	0.1227	0.0222	-0.0039	-
0.0220	1	.							
5206	NH2	NH2	. ARG ARG ARG B B 252 252 .	0.1428	0.1316	0.1439	0.0150	-0.0268	-
0.0088	1	.							
5207	C	C	. ARG ARG ARG B B 252 252 .	0.0935	0.0616	0.0809	-0.0012	0.0001	-
0.0062	1	.							
5208	O	O	. ARG ARG ARG B B 252 252 .	0.0837	0.0816	0.1090	-0.0189	-0.0086	-
0.0078	1	.							
5209	N	N	. ASP ASP ASP B B 253 253 .	0.1101	0.0982	0.1042	-0.0023	-0.0130	-
0.0057	1	.							
5210	CA	CA	. ASP ASP ASP B B 253 253 .	0.1116	0.0981	0.1114	-0.0093	-0.0089	-
0.0176	1	.							
5211	CB	CB	. ASP ASP ASP B B 253 253 .	0.1448	0.1444	0.1523	0.0010	-0.0027	-
0.0071	1	.							
5212	CG	CG	. ASP ASP ASP B B 253 253 .	0.2354	0.2176	0.1796	-0.0070	-0.0121	-
0.0037	1	.							
5213	OD1	OD1	. ASP ASP ASP B B 253 253 .	0.2652	0.2147	0.2832	0.0083	-0.0121	-
0.0089	1	.							
5214	OD2	OD2	. ASP ASP ASP B B 253 253 .	0.2679	0.2292	0.2441	0.0204	-0.0048	-
0.0038	1	.							
5215	C	C	. ASP ASP ASP B B 253 253 .	0.0995	0.0749	0.1143	0.0035	0.0046	-
0.0026	1	.							
5216	O	O	. ASP ASP ASP B B 253 253 .	0.0965	0.0754	0.1031	-0.0060	0.0176	-
0.0043	1	.							
5217	N	N	. GLY GLY GLY B B 254 254 .	0.0875	0.0650	0.0888	0.0049	-0.0072	-
0.0026	1	.							
5218	CA	CA	. GLY GLY GLY B B 254 254 .	0.0440	0.0408	0.0640	0.0119	-0.0002	-
0.0038	1	.							
5219	C	C	. GLY GLY GLY B B 254 254 .	0.0645	0.0527	0.0601	0.0075	0.0031	-
0.0090	1	.							
5220	O	O	. GLY GLY GLY B B 254 254 .	0.0771	0.0454	0.0488	0.0064	-0.0068	-
0.0149	1	.							
5221	N	N	. LYS LYS LYS B B 255 255 .	0.0533	0.0367	0.0469	0.0133	-0.0048	-
0.0125	1	.							
5222	CA	CA	. LYS LYS LYS B B 255 255 .	0.0387	0.0435	0.0517	0.0058	0.0055	-
0.0011	1	.							
5223	CB	CB	. LYS LYS LYS B B 255 255 .	0.0527	0.0586	0.0546	0.0041	0.0088	-
0.0031	1	.							
5224	CG	CG	. LYS LYS LYS B B 255 255 .	0.0564	0.0509	0.0349	-0.0065	-0.0054	-
0.0113	1	.							
5225	CD	CD	. LYS LYS LYS B B 255 255 .	0.1139	0.1680	0.1458	-0.0364	-0.0220	-
0.0239	1	.							
5226	CE	CE	. LYS LYS LYS B B 255 255 .	0.1916	0.1794	0.1683	-0.0342	-0.0306	-
0.0311	1	.							
5227	NZ	NZ	. LYS LYS LYS B B 255 255 .	0.1946	0.2248	0.2959	-0.0363	0.0226	-
0.0257	1	.							
5228	C	C	. LYS LYS LYS B B 255 255 .	0.0444	0.0419	0.0541	0.0024	0.0021	-
0.0070	1	.							
5229	O	O	. LYS LYS LYS B B 255 255 .	0.0506	0.0258	0.0509	0.0021	0.0027	-
0.0029	1	.							
5230	N	N	. TYR TYR TYR B B 256 256 .	0.0361	0.0261	0.0596	0.0016	0.0042	-
0.0036	1	.							
5231	CA	CA	. TYR TYR TYR B B 256 256 .	0.0259	0.0282	0.0333	0.0002	-0.0008	-
0.0047	1	.							
5232	CB	CB	. TYR TYR TYR B B 256 256 .	0.0261	0.0299	0.0326	0.0019	-0.0024	-
0.0058	1	.							





5263	OD2	OD2	. ASP ASP ASP B B 259 259 .	0.1912	0.2099	0.2242	0.0063	0.0339	-
0.0296	1	.							
5264	C	C	. ASP ASP ASP B B 259 259 .	0.1572	0.1644	0.1662	-0.0021	-0.0051	-
0.0142	1	.							
5265	O	O	. ASP ASP ASP B B 259 259 .	0.1611	0.1524	0.1409	0.0124	-0.0217	-
0.0005	1	.							
5266	N	N	. PHE PHE PHE B B 260 260 .	0.1612	0.1649	0.1663	0.0079	0.0045	-
0.0024	1	.							
5267	CA	CA	. PHE PHE PHE B B 260 260 .	0.1669	0.1507	0.1616	0.0110	0.0036	-
0.0030	1	.							
5268	CB	CB	. PHE PHE PHE B B 260 260 .	0.1499	0.1323	0.1388	-0.0115	-0.0036	-
0.0017	1	.							
5269	CG	CG	. PHE PHE PHE B B 260 260 .	0.1491	0.1362	0.1192	0.0092	-0.0099	-
0.0044	1	.							
5270	CD1	CD1	. PHE PHE PHE B B 260 260 .	0.1043	0.1383	0.1563	-0.0127	-0.0206	
0.0023	1	.							
5271	CE1	CE1	. PHE PHE PHE B B 260 260 .	0.1959	0.1635	0.1102	0.0106	0.0315	-
0.0119	1	.							
5272	CZ	CZ	. PHE PHE PHE B B 260 260 .	0.1439	0.0869	0.1586	-0.0013	-0.0112	-
0.0087	1	.							
5273	CE2	CE2	. PHE PHE PHE B B 260 260 .	0.1437	0.1343	0.1403	-0.0070	-0.0150	-
0.0124	1	.							
5274	CD2	CD2	. PHE PHE PHE B B 260 260 .	0.1379	0.1249	0.1576	-0.0001	-0.0326	
0.0142	1	.							
5275	C	C	. PHE PHE PHE B B 260 260 .	0.1721	0.1565	0.1626	0.0048	-0.0014	-
0.0033	1	.							
5276	O	O	. PHE PHE PHE B B 260 260 .	0.1625	0.1625	0.1723	-0.0029	-0.0018	-
0.0110	1	.							
5277	N	N	. LYS LYS LYS B B 261 261 .	0.1696	0.1561	0.1617	0.0009	-0.0041	-
0.0036	1	.							
5278	CA	CA	. LYS LYS LYS B B 261 261 .	0.1755	0.1528	0.1648	-0.0046	-0.0034	
0.0083	1	.							
5279	CB	CB	. LYS LYS LYS B B 261 261 .	0.1708	0.1723	0.1301	-0.0066	-0.0010	
0.0232	1	.							
5280	CG	CG	. LYS LYS LYS B B 261 261 .	0.1870	0.1208	0.1582	0.0016	-0.0061	
0.0068	1	.							
5281	CD	CD	. LYS LYS LYS B B 261 261 .	0.1280	0.0988	0.1106	-0.0228	0.0111	
0.0333	1	.							
5282	CE	CE	. LYS LYS LYS B B 261 261 .	0.1898	0.1527	0.1530	-0.0158	-0.0445	-
0.0191	1	.							
5283	NZ	NZ	. LYS LYS LYS B B 261 261 .	0.1553	0.1521	0.1663	0.0041	-0.0393	-
0.0161	1	.							
5284	C	C	. LYS LYS LYS B B 261 261 .	0.1787	0.1807	0.1766	0.0026	-0.0044	
0.0080	1	.							
5285	O	O	. LYS LYS LYS B B 261 261 .	0.1646	0.1666	0.1728	-0.0234	-0.0022	
0.0052	1	.							
5286	N	N	. SER SER SER B B 262 262 .	0.2014	0.1861	0.2071	-0.0038	-0.0003	
0.0112	1	.							
5287	CA	CA	. SER SER SER B B 262 262 .	0.2462	0.2465	0.2597	0.0012	-0.0076	-
0.0024	1	.							
5288	CB	CB	. SER SER SER B B 262 262 .	0.2530	0.2344	0.2430	-0.0055	0.0038	-
0.0056	1	.							
5289	OG	OG	. SER SER SER B B 262 262 .	0.2612	0.3211	0.2771	0.0069	-0.0265	-
0.0193	1	.							
5290	C	C	. SER SER SER B B 262 262 .	0.2807	0.2636	0.2837	-0.0001	-0.0061	-
0.0025	1	.							
5291	O	O	. SER SER SER B B 262 262 .	0.2823	0.2508	0.3090	0.0076	-0.0136	-
0.0074	1	.							
5292	N	N	. PRO PRO PRO B B 263 263 .	0.3047	0.2902	0.3031	-0.0025	-0.0083	-
0.0024	1	.							













5473	OD1	OD1	. ASP ASP ASP B B 285 285 .	0.2027	0.1623	0.1611	-0.0069	0.0208	-
0.0167	1	.							
5474	OD2	OD2	. ASP ASP ASP B B 285 285 .	0.1796	0.1493	0.1770	-0.0253	0.0172	-
0.0063	1	.							
5475	C	C	. ASP ASP ASP B B 285 285 .	0.0512	0.0272	0.0290	0.0044	-0.0016	-
0.0023	1	.							
5476	O	O	. ASP ASP ASP B B 285 285 .	0.0554	0.0553	0.0554	0.0195	-0.0100	-
0.0100	1	.							
5477	N	N	. TYR TYR TYR B B 286 286 .	0.0262	0.0254	0.0265	-0.0003	0.0010	-
0.0003	1	.							
5478	CA	CA	. TYR TYR TYR B B 286 286 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5479	CB	CB	. TYR TYR TYR B B 286 286 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5480	CG	CG	. TYR TYR TYR B B 286 286 .	0.0586	0.0514	0.0299	0.0015	0.0123	-
0.0008	1	.							
5481	CD1	CD1	. TYR TYR TYR B B 286 286 .	0.0915	0.1280	0.1043	0.0302	0.0017	-
0.0085	1	.							
5482	CE1	CE1	. TYR TYR TYR B B 286 286 .	0.1323	0.1471	0.1124	-0.0054	-0.0093	-
0.0307	1	.							
5483	CZ	CZ	. TYR TYR TYR B B 286 286 .	0.1748	0.1957	0.1727	0.0153	-0.0032	
0.0121	1	.							
5484	OH	OH	. TYR TYR TYR B B 286 286 .	0.2400	0.2577	0.2319	-0.0370	-0.0104	-
0.0480	1	.							
5485	CE2	CE2	. TYR TYR TYR B B 286 286 .	0.1190	0.1392	0.1122	-0.0007	-0.0095	-
0.0126	1	.							
5486	CD2	CD2	. TYR TYR TYR B B 286 286 .	0.0711	0.0655	0.0537	0.0035	0.0226	-
0.0160	1	.							
5487	C	C	. TYR TYR TYR B B 286 286 .	0.0255	0.0258	0.0256	0.0003	-0.0002	-
0.0003	1	.							
5488	O	O	. TYR TYR TYR B B 286 286 .	0.0254	0.0263	0.0258	0.0004	0.0002	
0.0006	1	.							
5489	N	N	. PRO PRO PRO B B 287 287 .	0.0312	0.0280	0.0255	0.0039	-0.0011	-
0.0007	1	.							
5490	CA	CA	. PRO PRO PRO B B 287 287 .	0.0296	0.0262	0.0321	0.0019	0.0054	
0.0024	1	.							
5491	CB	CB	. PRO PRO PRO B B 287 287 .	0.0345	0.0284	0.0382	0.0053	0.0108	
0.0063	1	.							
5492	CG	CG	. PRO PRO PRO B B 287 287 .	0.0584	0.0371	0.0671	-0.0076	0.0036	-
0.0212	1	.							
5493	CD	CD	. PRO PRO PRO B B 287 287 .	0.0523	0.0353	0.0492	0.0089	0.0083	
0.0150	1	.							
5494	C	C	. PRO PRO PRO B B 287 287 .	0.0281	0.0276	0.0285	-0.0025	0.0030	-
0.0027	1	.							
5495	O	O	. PRO PRO PRO B B 287 287 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5496	N	N	. VAL VAL VAL B B 288 288 .	0.0285	0.0256	0.0254	0.0010	0.0006	
0.0002	1	.							
5497	CA	CA	. VAL VAL VAL B B 288 288 .	0.0259	0.0300	0.0324	0.0015	0.0010	
0.0010	1	.							
5498	CB	CB	. VAL VAL VAL B B 288 288 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5499	CG1	CG1	. VAL VAL VAL B B 288 288 .	0.0523	0.0482	0.0325	0.0249	0.0140	
0.0129	1	.							
5500	CG2	CG2	. VAL VAL VAL B B 288 288 .	0.0525	0.0564	0.0458	0.0157	-0.0205	-
0.0223	1	.							
5501	C	C	. VAL VAL VAL B B 288 288 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5502	O	O	. VAL VAL VAL B B 288 288 .	0.0322	0.0454	0.0281	0.0084	-0.0017	-
0.0069	1	.							







5563	OD1	OD1	. ASP ASP ASP B B 296 296 .	0.0285	0.0254	0.0255	0.0007	-0.0008	-
0.0001	1	.							
5564	OD2	OD2	. ASP ASP ASP B B 296 296 .	0.0411	0.0322	0.0433	0.0092	-0.0126	-
0.0108	1	.							
5565	C	C	. ASP ASP ASP B B 296 296 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5566	O	O	. ASP ASP ASP B B 296 296 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5567	N	N	. GLN GLN GLN B B 297 297 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5568	CA	CA	. GLN GLN GLN B B 297 297 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5569	CB	CB	. GLN GLN GLN B B 297 297 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5570	CG	CG	. GLN GLN GLN B B 297 297 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5571	CD	CD	. GLN GLN GLN B B 297 297 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5572	OE1	OE1	. GLN GLN GLN B B 297 297 .	0.0320	0.0278	0.0254	0.0041	0.0008	
0.0005	1	.							
5573	NE2	NE2	. GLN GLN GLN B B 297 297 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5574	C	C	. GLN GLN GLN B B 297 297 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5575	O	O	. GLN GLN GLN B B 297 297 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5576	N	N	. ASP ASP ASP B B 298 298 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5577	CA	CA	. ASP ASP ASP B B 298 298 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5578	CB	CB	. ASP ASP ASP B B 298 298 .	0.0253	0.0256	0.0275	0.0000	-0.0001	-
0.0008	1	.							
5579	CG	CG	. ASP ASP ASP B B 298 298 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5580	OD1	OD1	. ASP ASP ASP B B 298 298 .	0.0302	0.0268	0.0264	0.0026	0.0002	-
0.0002	1	.							
5581	OD2	OD2	. ASP ASP ASP B B 298 298 .	0.0276	0.0448	0.0335	0.0067	-0.0043	-
0.0126	1	.							
5582	C	C	. ASP ASP ASP B B 298 298 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5583	O	O	. ASP ASP ASP B B 298 298 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5584	N	N	. ASP ASP ASP B B 299 299 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5585	CA	CA	. ASP ASP ASP B B 299 299 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5586	CB	CB	. ASP ASP ASP B B 299 299 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5587	CG	CG	. ASP ASP ASP B B 299 299 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5588	OD1	OD1	. ASP ASP ASP B B 299 299 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5589	OD2	OD2	. ASP ASP ASP B B 299 299 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5590	C	C	. ASP ASP ASP B B 299 299 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5591	O	O	. ASP ASP ASP B B 299 299 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5592	N	N	. TRP TRP TRP B B 300 300 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							

















5803	N	N	. ILE ILE ILE B B 327 327 .	0.0320	0.0255	0.0274	0.0000	-0.0016	
0.0005	1	.							
5804	CA	CA	. ILE ILE ILE B B 327 327 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5805	CB	CB	. ILE ILE ILE B B 327 327 .	0.0397	0.0328	0.0439	0.0016	-0.0142	
0.0041	1	.							
5806	CG1	CG1	. ILE ILE ILE B B 327 327 .	0.0384	0.0340	0.0291	0.0075	0.0063	
0.0018	1	.							
5807	CD1	CD1	. ILE ILE ILE B B 327 327 .	0.0504	0.0342	0.0790	0.0028	0.0186	
0.0043	1	.							
5808	CG2	CG2	. ILE ILE ILE B B 327 327 .	0.0497	0.0395	0.0370	0.0159	0.0071	
0.0107	1	.							
5809	C	C	. ILE ILE ILE B B 327 327 .	0.0315	0.0344	0.0265	0.0033	0.0016	-
0.0014	1	.							
5810	O	O	. ILE ILE ILE B B 327 327 .	0.0309	0.0302	0.0281	-0.0052	-0.0039	
0.0037	1	.							
5811	N	N	. GLU GLU GLU B B 328 328 .	0.0334	0.0255	0.0279	-0.0013	-0.0046	
0.0007	1	.							
5812	CA	CA	. GLU GLU GLU B B 328 328 .	0.0659	0.0663	0.0744	0.0095	-0.0095	
0.0039	1	.							
5813	CB	CB	. GLU GLU GLU B B 328 328 .	0.0756	0.0903	0.0976	0.0052	0.0119	
0.0068	1	.							
5814	CG	CG	. GLU GLU GLU B B 328 328 .	0.1531	0.1789	0.2196	-0.0019	0.0198	
0.0179	1	.							
5815	CD	CD	. GLU GLU GLU B B 328 328 .	0.3101	0.3202	0.2989	-0.0063	-0.0110	-
0.0122	1	.							
5816	OE1	OE1	. GLU GLU GLU B B 328 328 .	0.3007	0.3429	0.3144	-0.0048	0.0301	
0.0595	1	.							
5817	OE2	OE2	. GLU GLU GLU B B 328 328 .	0.3185	0.3946	0.3744	-0.0522	-0.0032	
0.0171	1	.							
5818	C	C	. GLU GLU GLU B B 328 328 .	0.0477	0.0528	0.0489	0.0064	-0.0021	
0.0009	1	.							
5819	O	O	. GLU GLU GLU B B 328 328 .	0.0734	0.0804	0.0895	0.0062	-0.0105	-
0.0052	1	.							
5820	N	N	. ARG ARG ARG B B 329 329 .	0.0303	0.0434	0.0488	0.0089	-0.0058	-
0.0042	1	.							
5821	CA	CA	. ARG ARG ARG B B 329 329 .	0.0320	0.0299	0.0272	-0.0024	0.0018	-
0.0007	1	.							
5822	CB	CB	. ARG ARG ARG B B 329 329 .	0.0692	0.0526	0.0616	0.0051	0.0120	-
0.0011	1	.							
5823	CG	CG	. ARG ARG ARG B B 329 329 .	0.0480	0.0454	0.0550	-0.0123	-0.0013	-
0.0001	1	.							
5824	CD	CD	. ARG ARG ARG B B 329 329 .	0.0785	0.0702	0.0541	0.0096	0.0056	-
0.0099	1	.							
5825	NE	NE	. ARG ARG ARG B B 329 329 .	0.0546	0.0253	0.0410	-0.0007	-0.0184	
0.0004	1	.							
5826	CZ	CZ	. ARG ARG ARG B B 329 329 .	0.0695	0.0583	0.0647	0.0082	-0.0002	
0.0091	1	.							
5827	NH1	NH1	. ARG ARG ARG B B 329 329 .	0.0888	0.0896	0.0780	0.0493	0.0077	
0.0186	1	.							
5828	NH2	NH2	. ARG ARG ARG B B 329 329 .	0.0496	0.0271	0.0617	0.0057	0.0112	
0.0063	1	.							
5829	C	C	. ARG ARG ARG B B 329 329 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5830	O	O	. ARG ARG ARG B B 329 329 .	0.0340	0.0406	0.0436	0.0070	0.0057	-
0.0071	1	.							
5831	N	N	. ALA ALA ALA B B 330 330 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5832	CA	CA	. ALA ALA ALA B B 330 330 .	0.0258	0.0256	0.0268	-0.0004	-0.0008	
0.0007	1	.							









5953	CA	CA	. ILE ILE ILE B B 346 346 .	0.0262	0.0260	0.0307	-0.0008	-0.0021	
0.0020	1	.							
5954	CB	CB	. ILE ILE ILE B B 346 346 .	0.0401	0.0468	0.0348	0.0108	0.0047	
0.0113	1	.							
5955	CG1	CG1	. ILE ILE ILE B B 346 346 .	0.0253	0.0253	0.0254	0.0000	0.0000	
0.0000	1	.							
5956	CD1	CD1	. ILE ILE ILE B B 346 346 .	0.1019	0.0780	0.0629	0.0370	-0.0308	
0.0147	1	.							
5957	CG2	CG2	. ILE ILE ILE B B 346 346 .	0.0279	0.0280	0.0321	-0.0027	0.0042	-
0.0043	1	.							
5958	C	C	. ILE ILE ILE B B 346 346 .	0.0313	0.0277	0.0313	0.0037	0.0060	
0.0037	1	.							
5959	O	O	. ILE ILE ILE B B 346 346 .	0.0606	0.0570	0.0552	0.0175	0.0127	
0.0110	1	.							
5960	N	N	. GLY GLY GLY B B 347 347 .	0.0330	0.0330	0.0294	0.0077	0.0056	
0.0056	1	.							
5961	CA	CA	. GLY GLY GLY B B 347 347 .	0.0547	0.0449	0.0453	0.0051	0.0087	-
0.0023	1	.							
5962	C	C	. GLY GLY GLY B B 347 347 .	0.0390	0.0340	0.0367	0.0035	0.0075	-
0.0056	1	.							
5963	O	O	. GLY GLY GLY B B 347 347 .	0.0843	0.0653	0.0686	0.0120	0.0164	
0.0050	1	.							
5964	N	N	. SER SER SER B B 348 348 .	0.0300	0.0266	0.0264	0.0005	0.0015	-
0.0007	1	.							
5965	CA	CA	. SER SER SER B B 348 348 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5966	CB	CB	. SER SER SER B B 348 348 .	0.0255	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
5967	OG	OG	. SER SER SER B B 348 348 .	0.0586	0.0570	0.0350	0.0300	-0.0062	
0.0005	1	.							
5968	C	C	. SER SER SER B B 348 348 .	0.0319	0.0291	0.0285	-0.0050	-0.0045	
0.0034	1	.							
5969	O	O	. SER SER SER B B 348 348 .	0.0265	0.0259	0.0257	-0.0008	0.0007	-
0.0004	1	.							
5970	N	N	. VAL VAL VAL B B 349 349 .	0.0357	0.0290	0.0290	-0.0027	0.0014	
0.0028	1	.							
5971	CA	CA	. VAL VAL VAL B B 349 349 .	0.0472	0.0373	0.0432	-0.0043	-0.0023	
0.0038	1	.							
5972	CB	CB	. VAL VAL VAL B B 349 349 .	0.0426	0.0355	0.0291	0.0021	-0.0004	
0.0061	1	.							
5973	CG1	CG1	. VAL VAL VAL B B 349 349 .	0.1037	0.0581	0.0733	0.0088	-0.0296	
0.0168	1	.							
5974	CG2	CG2	. VAL VAL VAL B B 349 349 .	0.0290	0.0461	0.0366	0.0037	0.0008	-
0.0094	1	.							
5975	C	C	. VAL VAL VAL B B 349 349 .	0.0395	0.0404	0.0403	0.0132	0.0000	
0.0018	1	.							
5976	O	O	. VAL VAL VAL B B 349 349 .	0.0322	0.0272	0.0260	0.0036	0.0022	
0.0011	1	.							
5977	N	N	. THR THR THR B B 350 350 .	0.0483	0.0511	0.0464	0.0027	-0.0064	-
0.0064	1	.							
5978	CA	CA	. THR THR THR B B 350 350 .	0.0685	0.0636	0.0641	-0.0010	-0.0007	
0.0047	1	.							
5979	CB	CB	. THR THR THR B B 350 350 .	0.0729	0.0926	0.0832	0.0032	0.0025	
0.0164	1	.							
5980	OG1	OG1	. THR THR THR B B 350 350 .	0.0593	0.0676	0.0760	-0.0011	-0.0018	
0.0129	1	.							
5981	CG2	CG2	. THR THR THR B B 350 350 .	0.1301	0.1247	0.0944	-0.0028	-0.0143	-
0.0076	1	.							
5982	C	C	. THR THR THR B B 350 350 .	0.0419	0.0442	0.0338	-0.0030	-0.0064	
0.0048	1	.							



5983	O	O	. THR THR THR B B 350 350 .	0.0576	0.0754	0.0503	0.0013	0.0124	-
0.0097	1	.							
5984	N	N	. GLU GLU GLU B B 351 351 .	0.0427	0.0374	0.0302	0.0005	-0.0066	
0.0051	1	.							
5985	CA	CA	. GLU GLU GLU B B 351 351 .	0.0403	0.0453	0.0489	-0.0052	-0.0029	
0.0021	1	.							
5986	CB	CB	. GLU GLU GLU B B 351 351 .	0.0900	0.0412	0.0460	0.0169	-0.0062	-
0.0010	1	.							
5987	CG	CG	. GLU GLU GLU B B 351 351 .	0.0546	0.0703	0.0515	0.0067	0.0210	-
0.0005	1	.							
5988	CD	CD	. GLU GLU GLU B B 351 351 .	0.0864	0.0960	0.0997	-0.0110	-0.0006	-
0.0044	1	.							
5989	OE1	OE1	. GLU GLU GLU B B 351 351 .	0.0735	0.0833	0.0711	-0.0063	0.0094	
0.0077	1	.							
5990	OE2	OE2	. GLU GLU GLU B B 351 351 .	0.1392	0.1375	0.1499	0.0130	-0.0105	
0.0131	1	.							
5991	C	C	. GLU GLU GLU B B 351 351 .	0.0303	0.0383	0.0328	0.0081	0.0061	
0.0098	1	.							
5992	O	O	. GLU GLU GLU B B 351 351 .	0.0392	0.0490	0.0362	0.0122	-0.0012	
0.0107	1	.							
5993	N	N	. ALA ALA ALA B B 352 352 .	0.0256	0.0296	0.0299	0.0012	0.0012	
0.0044	1	.							
5994	CA	CA	. ALA ALA ALA B B 352 352 .	0.0254	0.0254	0.0253	0.0001	0.0000	
0.0000	1	.							
5995	CB	CB	. ALA ALA ALA B B 352 352 .	0.0392	0.0410	0.0378	0.0052	-0.0117	-
0.0105	1	.							
5996	C	C	. ALA ALA ALA B B 352 352 .	0.0263	0.0258	0.0268	0.0007	0.0012	
0.0008	1	.							
5997	O	O	. ALA ALA ALA B B 352 352 .	0.0273	0.0301	0.0269	0.0030	0.0018	
0.0028	1	.							
5998	N	N	. ILE ILE ILE B B 353 353 .	0.0390	0.0298	0.0381	0.0062	-0.0122	-
0.0073	1	.							
5999	CA	CA	. ILE ILE ILE B B 353 353 .	0.0347	0.0305	0.0439	0.0053	-0.0029	-
0.0010	1	.							
6000	CB	CB	. ILE ILE ILE B B 353 353 .	0.0310	0.0312	0.0382	-0.0014	-0.0048	
0.0082	1	.							
6001	CG1	CG1	. ILE ILE ILE B B 353 353 .	0.0529	0.0864	0.0434	0.0163	0.0081	
0.0096	1	.							
6002	CD1	CD1	. ILE ILE ILE B B 353 353 .	0.0974	0.0641	0.0669	-0.0070	0.0062	
0.0300	1	.							
6003	CG2	CG2	. ILE ILE ILE B B 353 353 .	0.0413	0.0561	0.0488	-0.0054	0.0054	-
0.0146	1	.							
6004	C	C	. ILE ILE ILE B B 353 353 .	0.0622	0.0291	0.0306	-0.0026	0.0020	-
0.0044	1	.							
6005	O	O	. ILE ILE ILE B B 353 353 .	0.0759	0.0630	0.0582	-0.0009	0.0187	
0.0117	1	.							
6006	N	N	. GLN GLN GLN B B 354 354 .	0.0468	0.0594	0.0593	0.0096	-0.0050	
0.0132	1	.							
6007	CA	CA	. GLN GLN GLN B B 354 354 .	0.0617	0.0545	0.0450	0.0059	0.0050	
0.0072	1	.							
6008	CB	CB	. GLN GLN GLN B B 354 354 .	0.1274	0.0889	0.0986	0.0249	0.0079	
0.0104	1	.							
6009	CG	CG	. GLN GLN GLN B B 354 354 .	0.2124	0.1740	0.1780	0.0030	0.0262	
0.0246	1	.							
6010	CD	CD	. GLN GLN GLN B B 354 354 .	0.3375	0.2484	0.3111	0.0280	0.0023	
0.0118	1	.							
6011	OE1	OE1	. GLN GLN GLN B B 354 354 .	0.4396	0.3510	0.3385	0.0075	-0.0356	
0.0010	1	.							
6012	NE2	NE2	. GLN GLN GLN B B 354 354 .	0.3696	0.3234	0.3105	0.0265	-0.0318	
0.0185	1	.							













6193	C	C	. THR THR THR B B 378 378 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6194	O	O	. THR THR THR B B 378 378 .	0.0312	0.0253	0.0281	0.0003	0.0040	
0.0002	1	.							
6195	N	N	. PHE PHE PHE B B 379 379 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6196	CA	CA	. PHE PHE PHE B B 379 379 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6197	CB	CB	. PHE PHE PHE B B 379 379 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6198	CG	CG	. PHE PHE PHE B B 379 379 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6199	CD1	CD1	. PHE PHE PHE B B 379 379 .	0.0539	0.0500	0.0509	0.0078	-0.0102	-
0.0010	1	.							
6200	CE1	CE1	. PHE PHE PHE B B 379 379 .	0.0427	0.0613	0.0288	0.0045	-0.0037	-
0.0107	1	.							
6201	CZ	CZ	. PHE PHE PHE B B 379 379 .	0.0469	0.0330	0.0377	0.0002	-0.0010	-
0.0097	1	.							
6202	CE2	CE2	. PHE PHE PHE B B 379 379 .	0.0981	0.0737	0.0766	0.0065	-0.0118	
0.0220	1	.							
6203	CD2	CD2	. PHE PHE PHE B B 379 379 .	0.0457	0.0333	0.0708	0.0124	0.0014	
0.0048	1	.							
6204	C	C	. PHE PHE PHE B B 379 379 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6205	O	O	. PHE PHE PHE B B 379 379 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6206	N	N	. ILE ILE ILE B B 380 380 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6207	CA	CA	. ILE ILE ILE B B 380 380 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6208	CB	CB	. ILE ILE ILE B B 380 380 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6209	CG1	CG1	. ILE ILE ILE B B 380 380 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6210	CD1	CD1	. ILE ILE ILE B B 380 380 .	0.0352	0.0261	0.0352	-0.0028	-0.0099	
0.0028	1	.							
6211	CG2	CG2	. ILE ILE ILE B B 380 380 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6212	C	C	. ILE ILE ILE B B 380 380 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6213	O	O	. ILE ILE ILE B B 380 380 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6214	N	N	. ALA ALA ALA B B 381 381 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6215	CA	CA	. ALA ALA ALA B B 381 381 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6216	CB	CB	. ALA ALA ALA B B 381 381 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6217	C	C	. ALA ALA ALA B B 381 381 .	0.0295	0.0269	0.0257	0.0025	0.0013	
0.0008	1	.							
6218	O	O	. ALA ALA ALA B B 381 381 .	0.0284	0.0264	0.0282	0.0018	-0.0030	-
0.0017	1	.							
6219	N	N	. ASP ASP ASP B B 382 382 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6220	CA	CA	. ASP ASP ASP B B 382 382 .	0.0285	0.0283	0.0318	-0.0031	-0.0045	
0.0044	1	.							
6221	CB	CB	. ASP ASP ASP B B 382 382 .	0.0292	0.0315	0.0300	-0.0049	-0.0043	
0.0053	1	.							
6222	CG	CG	. ASP ASP ASP B B 382 382 .	0.0713	0.0594	0.0829	-0.0084	-0.0011	
0.0125	1	.							





6253	N	N	. LEU LEU LEU B B 387 387 .	0.0307	0.0354	0.0292	-0.0071	-0.0044	
0.0062	1	.							
6254	CA	CA	. LEU LEU LEU B B 387 387 .	0.0471	0.0313	0.0352	-0.0035	-0.0082	
0.0074	1	.							
6255	CB	CB	. LEU LEU LEU B B 387 387 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6256	CG	CG	. LEU LEU LEU B B 387 387 .	0.0332	0.0300	0.0321	-0.0061	0.0073	-
0.0056	1	.							
6257	CD1	CD1	. LEU LEU LEU B B 387 387 .	0.0386	0.0448	0.0256	-0.0160	-0.0020	
0.0025	1	.							
6258	CD2	CD2	. LEU LEU LEU B B 387 387 .	0.0417	0.0296	0.0527	0.0082	-0.0048	-
0.0001	1	.							
6259	C	C	. LEU LEU LEU B B 387 387 .	0.0464	0.0416	0.0462	0.0042	0.0017	
0.0043	1	.							
6260	O	O	. LEU LEU LEU B B 387 387 .	0.0571	0.0613	0.0407	0.0027	-0.0221	-
0.0019	1	.							
6261	N	N	. CYS CYS CYS B B 388 388 .	0.0587	0.0396	0.0544	0.0081	-0.0027	
0.0032	1	.							
6262	CA	CA	. CYS CYS CYS B B 388 388 .	0.0954	0.0781	0.0798	-0.0032	-0.0047	
0.0043	1	.							
6263	CB	CB	. CYS CYS CYS B B 388 388 .	0.1263	0.1082	0.1133	0.0116	-0.0022	-
0.0111	1	.							
6264	SG	SG	. CYS CYS CYS B B 388 388 .	0.3003	0.2318	0.2773	-0.0109	-0.0250	
0.0078	1	.							
6265	C	C	. CYS CYS CYS B B 388 388 .	0.0878	0.0894	0.0834	0.0001	0.0017	-
0.0085	1	.							
6266	O	O	. CYS CYS CYS B B 388 388 .	0.1512	0.1414	0.1015	-0.0107	-0.0105	
0.0090	1	.							
6267	N	N	. THR THR THR B B 389 389 .	0.0597	0.0495	0.0483	-0.0067	-0.0044	-
0.0004	1	.							
6268	CA	CA	. THR THR THR B B 389 389 .	0.0574	0.0449	0.0456	-0.0075	-0.0079	-
0.0065	1	.							
6269	CB	CB	. THR THR THR B B 389 389 .	0.0529	0.0300	0.0588	0.0008	-0.0045	-
0.0125	1	.							
6270	OG1	OG1	. THR THR THR B B 389 389 .	0.0678	0.0486	0.0403	-0.0049	-0.0001	-
0.0170	1	.							
6271	CG2	CG2	. THR THR THR B B 389 389 .	0.0873	0.0645	0.0597	-0.0068	-0.0133	
0.0172	1	.							
6272	C	C	. THR THR THR B B 389 389 .	0.0472	0.0359	0.0376	-0.0016	-0.0057	
0.0083	1	.							
6273	O	O	. THR THR THR B B 389 389 .	0.0735	0.0530	0.0626	-0.0131	0.0000	-
0.0071	1	.							
6274	N	N	. GLY GLY GLY B B 390 390 .	0.0328	0.0260	0.0283	-0.0023	-0.0047	
0.0015	1	.							
6275	CA	CA	. GLY GLY GLY B B 390 390 .	0.0323	0.0281	0.0267	-0.0043	-0.0030	
0.0020	1	.							
6276	C	C	. GLY GLY GLY B B 390 390 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6277	O	O	. GLY GLY GLY B B 390 390 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6278	N	N	. GLN GLN GLN B B 391 391 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6279	CA	CA	. GLN GLN GLN B B 391 391 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6280	CB	CB	. GLN GLN GLN B B 391 391 .	0.0539	0.0721	0.0433	-0.0082	-0.0044	
0.0125	1	.							
6281	CG	CG	. GLN GLN GLN B B 391 391 .	0.0712	0.0449	0.0956	0.0077	0.0079	
0.0083	1	.							
6282	CD	CD	. GLN GLN GLN B B 391 391 .	0.0431	0.0448	0.0506	0.0044	-0.0054	
0.0195	1	.							



6313	C	C	. GLY GLY GLY B B 395 395 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6314	O	O	. GLY GLY GLY B B 395 395 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6315	N	N	. ALA ALA ALA B B 396 396 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6316	CA	CA	. ALA ALA ALA B B 396 396 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6317	CB	CB	. ALA ALA ALA B B 396 396 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6318	C	C	. ALA ALA ALA B B 396 396 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6319	O	O	. ALA ALA ALA B B 396 396 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6320	N	N	. PRO PRO PRO B B 397 397 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6321	CA	CA	. PRO PRO PRO B B 397 397 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6322	CB	CB	. PRO PRO PRO B B 397 397 .	0.0253	0.0254	0.0259	0.0000	0.0000	-
0.0002	1	.							
6323	CG	CG	. PRO PRO PRO B B 397 397 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6324	CD	CD	. PRO PRO PRO B B 397 397 .	0.0269	0.0256	0.0260	0.0006	0.0010	
0.0004	1	.							
6325	C	C	. PRO PRO PRO B B 397 397 .	0.0253	0.0254	0.0256	0.0000	0.0000	
0.0001	1	.							
6326	O	O	. PRO PRO PRO B B 397 397 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6327	N	N	. CYS CYS CYS B B 398 398 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6328	CA	CA	. CYS CYS CYS B B 398 398 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6329	CB	CB	. CYS CYS CYS B B 398 398 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6330	SG	SG	. CYS CYS CYS B B 398 398 .	0.0314	0.0255	0.0263	-0.0012	0.0025	-
0.0005	1	.							
6331	C	C	. CYS CYS CYS B B 398 398 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6332	O	O	. CYS CYS CYS B B 398 398 .	0.0271	0.0259	0.0253	0.0010	-0.0002	-
0.0001	1	.							
6333	N	N	. ARG ARG ARG B B 399 399 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6334	CA	CA	. ARG ARG ARG B B 399 399 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6335	CB	CB	. ARG ARG ARG B B 399 399 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6336	CG	CG	. ARG ARG ARG B B 399 399 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6337	CD	CD	. ARG ARG ARG B B 399 399 .	0.0282	0.0253	0.0337	0.0004	0.0049	
0.0006	1	.							
6338	NE	NE	. ARG ARG ARG B B 399 399 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6339	CZ	CZ	. ARG ARG ARG B B 399 399 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6340	NH1	NH1	. ARG ARG ARG B B 399 399 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6341	NH2	NH2	. ARG ARG ARG B B 399 399 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6342	C	C	. ARG ARG ARG B B 399 399 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							



6373	CG	CG	. LEU LEU LEU B B 403 403 .	0.0292	0.0299	0.0253	-0.0042	0.0000	
0.0000	1	.							
6374	CD1	CD1	. LEU LEU LEU B B 403 403 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6375	CD2	CD2	. LEU LEU LEU B B 403 403 .	0.0255	0.0253	0.0257	0.0000	-0.0003	
0.0000	1	.							
6376	C	C	. LEU LEU LEU B B 403 403 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6377	O	O	. LEU LEU LEU B B 403 403 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6378	N	N	. ALA ALA ALA B B 404 404 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6379	CA	CA	. ALA ALA ALA B B 404 404 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6380	CB	CB	. ALA ALA ALA B B 404 404 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6381	C	C	. ALA ALA ALA B B 404 404 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6382	O	O	. ALA ALA ALA B B 404 404 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6383	N	N	. LYS LYS LYS B B 405 405 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6384	CA	CA	. LYS LYS LYS B B 405 405 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6385	CB	CB	. LYS LYS LYS B B 405 405 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6386	CG	CG	. LYS LYS LYS B B 405 405 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6387	CD	CD	. LYS LYS LYS B B 405 405 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6388	CE	CE	. LYS LYS LYS B B 405 405 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6389	NZ	NZ	. LYS LYS LYS B B 405 405 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6390	C	C	. LYS LYS LYS B B 405 405 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6391	O	O	. LYS LYS LYS B B 405 405 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6392	N	N	. TYR TYR TYR B B 406 406 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6393	CA	CA	. TYR TYR TYR B B 406 406 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6394	CB	CB	. TYR TYR TYR B B 406 406 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6395	CG	CG	. TYR TYR TYR B B 406 406 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6396	CD1	CD1	. TYR TYR TYR B B 406 406 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6397	CE1	CE1	. TYR TYR TYR B B 406 406 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6398	CZ	CZ	. TYR TYR TYR B B 406 406 .	0.0253	0.0253	0.0254	0.0000	0.0000	
0.0000	1	.							
6399	OH	OH	. TYR TYR TYR B B 406 406 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6400	CE2	CE2	. TYR TYR TYR B B 406 406 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6401	CD2	CD2	. TYR TYR TYR B B 406 406 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6402	C	C	. TYR TYR TYR B B 406 406 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							

6403	O	O	. TYR TYR TYR B B 406 406 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6404	N	N	. ASN ASN ASN B B 407 407 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6405	CA	CA	. ASN ASN ASN B B 407 407 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6406	CB	CB	. ASN ASN ASN B B 407 407 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6407	CG	CG	. ASN ASN ASN B B 407 407 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6408	OD1	OD1	. ASN ASN ASN B B 407 407 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6409	ND2	ND2	. ASN ASN ASN B B 407 407 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6410	C	C	. ASN ASN ASN B B 407 407 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6411	O	O	. ASN ASN ASN B B 407 407 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6412	N	N	. GLN GLN GLN B B 408 408 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6413	CA	CA	. GLN GLN GLN B B 408 408 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6414	CB	CB	. GLN GLN GLN B B 408 408 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6415	CG	CG	. GLN GLN GLN B B 408 408 .	0.0258	0.0253	0.0269	-0.0001	0.0009	-
0.0002	1	.							
6416	CD	CD	. GLN GLN GLN B B 408 408 .	0.0323	0.0500	0.0372	0.0131	0.0091	
0.0172	1	.							
6417	OE1	OE1	. GLN GLN GLN B B 408 408 .	0.0310	0.0352	0.0421	0.0067	0.0058	
0.0115	1	.							
6418	NE2	NE2	. GLN GLN GLN B B 408 408 .	0.0479	0.0499	0.0412	-0.0210	-0.0013	
0.0101	1	.							
6419	C	C	. GLN GLN GLN B B 408 408 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6420	O	O	. GLN GLN GLN B B 408 408 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6421	N	N	. LEU LEU LEU B B 409 409 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6422	CA	CA	. LEU LEU LEU B B 409 409 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6423	CB	CB	. LEU LEU LEU B B 409 409 .	0.0281	0.0269	0.0261	0.0021	0.0015	
0.0011	1	.							
6424	CG	CG	. LEU LEU LEU B B 409 409 .	0.0267	0.0255	0.0257	0.0005	0.0007	
0.0002	1	.							
6425	CD1	CD1	. LEU LEU LEU B B 409 409 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6426	CD2	CD2	. LEU LEU LEU B B 409 409 .	0.0305	0.0366	0.0313	-0.0024	-0.0025	
0.0081	1	.							
6427	C	C	. LEU LEU LEU B B 409 409 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6428	O	O	. LEU LEU LEU B B 409 409 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6429	N	N	. MET MET MET B B 410 410 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6430	CA	CA	. MET MET MET B B 410 410 .	0.0253	0.0253	0.0253	0.0000	0.0000	
0.0000	1	.							
6431	CB	CB	. MET MET MET B B 410 410 .	0.0381	0.0275	0.0307	0.0052	-0.0047	-
0.0019	1	.							
6432	CG	CG	. MET MET MET B B 410 410 .	0.0356	0.0381	0.0383	0.0072	0.0035	-
0.0070	1	.							





6463	C	C	. GLU GLU GLU B B 413 413 .	0.0553	0.0287	0.0311	-0.0098	-0.0058	
0.0008	1	.							
6464	O	O	. GLU GLU GLU B B 413 413 .	0.0627	0.0379	0.0304	-0.0217	-0.0138	
0.0080	1	.							
6465	N	N	. GLU GLU GLU B B 414 414 .	0.0456	0.0272	0.0292	-0.0023	-0.0039	
0.0027	1	.							
6466	CA	CA	. GLU GLU GLU B B 414 414 .	0.0697	0.0466	0.0712	-0.0138	0.0081	
0.0030	1	.							
6467	CB	CB	. GLU GLU GLU B B 414 414 .	0.0818	0.0600	0.0605	-0.0115	0.0042	
0.0154	1	.							
6468	CG	CG	. GLU GLU GLU B B 414 414 .	0.1589	0.1027	0.1204	-0.0193	0.0052	
0.0095	1	.							
6469	CD	CD	. GLU GLU GLU B B 414 414 .	0.1838	0.1684	0.1670	0.0023	-0.0195	
0.0026	1	.							
6470	OE1	OE1	. GLU GLU GLU B B 414 414 .	0.1763	0.1809	0.1658	-0.0049	-0.0033	-
0.0288	1	.							
6471	OE2	OE2	. GLU GLU GLU B B 414 414 .	0.1819	0.2171	0.1680	-0.0296	-0.0177	-
0.0072	1	.							
6472	C	C	. GLU GLU GLU B B 414 414 .	0.0768	0.0684	0.0695	0.0041	-0.0088	
0.0031	1	.							
6473	O	O	. GLU GLU GLU B B 414 414 .	0.1226	0.0797	0.1178	-0.0156	0.0010	-
0.0070	1	.							
6474	N	N	. GLU GLU GLU B B 415 415 .	0.1156	0.0803	0.0855	0.0013	-0.0009	
0.0033	1	.							
6475	CA	CA	. GLU GLU GLU B B 415 415 .	0.1319	0.1285	0.1218	0.0034	-0.0031	
0.0019	1	.							
6476	CB	CB	. GLU GLU GLU B B 415 415 .	0.1703	0.1641	0.1658	0.0085	0.0001	-
0.0034	1	.							
6477	CG	CG	. GLU GLU GLU B B 415 415 .	0.2450	0.2852	0.2334	-0.0109	-0.0101	-
0.0081	1	.							
6478	CD	CD	. GLU GLU GLU B B 415 415 .	0.4073	0.3771	0.4088	0.0309	0.0063	-
0.0130	1	.							
6479	OE1	OE1	. GLU GLU GLU B B 415 415 .	0.4383	0.4425	0.4070	0.0229	-0.0160	-
0.0278	1	.							
6480	OE2	OE2	. GLU GLU GLU B B 415 415 .	0.4412	0.4143	0.4633	0.0344	-0.0114	
0.0301	1	.							
6481	C	C	. GLU GLU GLU B B 415 415 .	0.1443	0.1439	0.1305	-0.0067	-0.0017	
0.0075	1	.							
6482	O	O	. GLU GLU GLU B B 415 415 .	0.1409	0.1430	0.1205	-0.0033	-0.0007	
0.0230	1	.							
6483	N	N	. LEU LEU LEU B B 416 416 .	0.1459	0.1320	0.1274	-0.0094	0.0071	-
0.0074	1	.							
6484	CA	CA	. LEU LEU LEU B B 416 416 .	0.1416	0.1421	0.1230	-0.0012	-0.0055	
0.0021	1	.							
6485	CB	CB	. LEU LEU LEU B B 416 416 .	0.1753	0.1293	0.1204	0.0035	-0.0034	
0.0036	1	.							
6486	CG	CG	. LEU LEU LEU B B 416 416 .	0.1609	0.1180	0.1503	0.0058	-0.0093	
0.0145	1	.							
6487	CD1	CD1	. LEU LEU LEU B B 416 416 .	0.1202	0.1793	0.0888	-0.0046	-0.0286	
0.0210	1	.							
6488	CD2	CD2	. LEU LEU LEU B B 416 416 .	0.1688	0.1469	0.1642	-0.0136	0.0153	-
0.0091	1	.							
6489	C	C	. LEU LEU LEU B B 416 416 .	0.1812	0.1691	0.1625	-0.0005	-0.0127	-
0.0125	1	.							
6490	O	O	. LEU LEU LEU B B 416 416 .	0.1856	0.1895	0.1491	-0.0186	-0.0265	-
0.0002	1	.							
6491	N	N	. GLY GLY GLY B B 417 417 .	0.2090	0.2033	0.1994	0.0069	-0.0127	-
0.0151	1	.							
6492	CA	CA	. GLY GLY GLY B B 417 417 .	0.2685	0.2593	0.2721	0.0065	-0.0050	-
0.0092	1	.							

6493	C	C	. GLY GLY GLY B B 417 417 .	0.2990	0.3028	0.2912	0.0003	-0.0021	-
0.0014	1	.							
6494	O	O	. GLY GLY GLY B B 417 417 .	0.2931	0.2828	0.2771	-0.0026	-0.0004	-
0.0098	1	.							
6495	N	N	. ASP ASP ASP B B 418 418 .	0.3407	0.3298	0.3306	-0.0015	-0.0020	-
0.0062	1	.							
6496	CA	CA	. ASP ASP ASP B B 418 418 .	0.3752	0.3703	0.3668	0.0002	-0.0024	-
0.0015	1	.							
6497	CB	CB	. ASP ASP ASP B B 418 418 .	0.4013	0.3948	0.3936	-0.0077	-0.0112	-
0.0056	1	.							
6498	CG	CG	. ASP ASP ASP B B 418 418 .	0.4621	0.4530	0.4549	0.0125	0.0032	-
0.0104	1	.							
6499	OD1	OD1	. ASP ASP ASP B B 418 418 .	0.5307	0.5238	0.5209	0.0021	-0.0057	-
0.0381	1	.							
6500	OD2	OD2	. ASP ASP ASP B B 418 418 .	0.5133	0.4978	0.5087	-0.0068	-0.0156	-
0.0166	1	.							
6501	C	C	. ASP ASP ASP B B 418 418 .	0.3640	0.3547	0.3613	-0.0038	0.0020	-
0.0023	1	.							
6502	O	O	. ASP ASP ASP B B 418 418 .	0.3609	0.3529	0.3563	-0.0068	0.0108	-
0.0065	1	.							
6503	N	N	. GLU GLU GLU B B 419 419 .	0.3507	0.3408	0.3466	-0.0011	-0.0018	-
0.0021	1	.							
6504	CA	CA	. GLU GLU GLU B B 419 419 .	0.3392	0.3352	0.3333	-0.0043	-0.0045	-
0.0009	1	.							
6505	CB	CB	. GLU GLU GLU B B 419 419 .	0.3513	0.3573	0.3537	-0.0029	-0.0088	-
0.0010	1	.							
6506	CG	CG	. GLU GLU GLU B B 419 419 .	0.4305	0.4066	0.4110	-0.0015	-0.0008	-
0.0021	1	.							
6507	CD	CD	. GLU GLU GLU B B 419 419 .	0.4775	0.5198	0.5024	0.0164	0.0032	-
0.0023	1	.							
6508	OE1	OE1	. GLU GLU GLU B B 419 419 .	0.4825	0.5247	0.5177	0.0180	0.0222	-
0.0068	1	.							
6509	OE2	OE2	. GLU GLU GLU B B 419 419 .	0.5152	0.5724	0.5215	0.0114	-0.0161	-
0.0101	1	.							
6510	C	C	. GLU GLU GLU B B 419 419 .	0.3046	0.3086	0.3067	0.0008	-0.0035	-
0.0012	1	.							
6511	O	O	. GLU GLU GLU B B 419 419 .	0.3090	0.2963	0.2877	-0.0085	-0.0016	-
0.0042	1	.							
6512	N	N	. ALA ALA ALA B B 420 420 .	0.2739	0.2682	0.2597	-0.0038	0.0009	-
0.0007	1	.							
6513	CA	CA	. ALA ALA ALA B B 420 420 .	0.2485	0.2451	0.2373	0.0031	-0.0015	-
0.0034	1	.							
6514	CB	CB	. ALA ALA ALA B B 420 420 .	0.2463	0.2525	0.2340	-0.0017	-0.0013	-
0.0008	1	.							
6515	C	C	. ALA ALA ALA B B 420 420 .	0.2337	0.2243	0.2220	0.0049	-0.0017	-
0.0025	1	.							
6516	O	O	. ALA ALA ALA B B 420 420 .	0.2564	0.2440	0.2459	0.0080	-0.0144	-
0.0033	1	.							
6517	N	N	. ARG ARG ARG B B 421 421 .	0.2076	0.1953	0.1785	-0.0058	-0.0059	-
0.0037	1	.							
6518	CA	CA	. ARG ARG ARG B B 421 421 .	0.1885	0.1767	0.1911	-0.0039	-0.0036	-
0.0079	1	.							
6519	CB	CB	. ARG ARG ARG B B 421 421 .	0.2119	0.1960	0.2131	-0.0201	-0.0050	-
0.0040	1	.							
6520	CG	CG	. ARG ARG ARG B B 421 421 .	0.2718	0.2709	0.2863	0.0005	0.0059	-
0.0031	1	.							
6521	CD	CD	. ARG ARG ARG B B 421 421 .	0.4024	0.4020	0.3661	-0.0287	-0.0334	-
0.0104	1	.							
6522	NE	NE	. ARG ARG ARG B B 421 421 .	0.4504	0.4946	0.4783	0.0089	0.0000	-
0.0088	1	.							

6523	CZ	CZ	. ARG ARG ARG B B 421 421 .	0.5048	0.5289	0.5230	-0.0088	0.0065	-
0.0002	1	.							
6524	NH1	NH1	. ARG ARG ARG B B 421 421 .	0.5442	0.5440	0.5566	0.0145	-0.0077	-
0.0036	1	.							
6525	NH2	NH2	. ARG ARG ARG B B 421 421 .	0.4868	0.5273	0.5189	0.0035	-0.0081	-
0.0058	1	.							
6526	C	C	. ARG ARG ARG B B 421 421 .	0.1331	0.1328	0.1390	-0.0030	0.0043	-
0.0063	1	.							
6527	O	O	. ARG ARG ARG B B 421 421 .	0.1802	0.1685	0.1902	0.0114	0.0000	-
0.0115	1	.							
6528	N	N	. PHE PHE PHE B B 422 422 .	0.1118	0.0767	0.0905	-0.0057	-0.0011	-
0.0024	1	.							
6529	CA	CA	. PHE PHE PHE B B 422 422 .	0.0645	0.0608	0.0432	-0.0003	0.0073	
0.0015	1	.							
6530	CB	CB	. PHE PHE PHE B B 422 422 .	0.0706	0.0615	0.0420	0.0103	-0.0050	-
0.0141	1	.							
6531	CG	CG	. PHE PHE PHE B B 422 422 .	0.0502	0.0368	0.0399	-0.0043	0.0009	
0.0123	1	.							
6532	CD1	CD1	. PHE PHE PHE B B 422 422 .	0.0481	0.0347	0.0355	0.0009	-0.0129	
0.0047	1	.							
6533	CE1	CE1	. PHE PHE PHE B B 422 422 .	0.0283	0.0423	0.0329	-0.0056	0.0031	-
0.0006	1	.							
6534	CZ	CZ	. PHE PHE PHE B B 422 422 .	0.0326	0.0253	0.0280	0.0005	0.0044	
0.0003	1	.							
6535	CE2	CE2	. PHE PHE PHE B B 422 422 .	0.0422	0.0414	0.0253	-0.0165	-0.0002	
0.0002	1	.							
6536	CD2	CD2	. PHE PHE PHE B B 422 422 .	0.0321	0.0556	0.0424	-0.0057	0.0038	-
0.0146	1	.							
6537	C	C	. PHE PHE PHE B B 422 422 .	0.0690	0.0370	0.0496	0.0068	0.0043	-
0.0014	1	.							
6538	O	O	. PHE PHE PHE B B 422 422 .	0.0792	0.0783	0.0585	0.0034	0.0060	
0.0021	1	.							
6539	N	N	. ALA ALA ALA B B 423 423 .	0.0726	0.0327	0.0323	-0.0066	0.0077	
0.0050	1	.							
6540	CA	CA	. ALA ALA ALA B B 423 423 .	0.0455	0.0265	0.0451	-0.0028	-0.0073	
0.0047	1	.							
6541	CB	CB	. ALA ALA ALA B B 423 423 .	0.0441	0.0254	0.0256	-0.0015	0.0026	-
0.0002	1	.							
6542	C	C	. ALA ALA ALA B B 423 423 .	0.0607	0.0307	0.0371	0.0021	-0.0056	-
0.0079	1	.							
6543	O	O	. ALA ALA ALA B B 423 423 .	0.1084	0.0694	0.0649	0.0027	0.0065	
0.0065	1	.							
6544	N	N	. GLY GLY GLY B B 424 424 .	0.0475	0.0327	0.0570	0.0005	0.0009	-
0.0014	1	.							
6545	CA	CA	. GLY GLY GLY B B 424 424 .	0.0683	0.0418	0.0507	-0.0077	0.0033	-
0.0044	1	.							
6546	C	C	. GLY GLY GLY B B 424 424 .	0.0896	0.0749	0.0546	0.0050	0.0030	-
0.0002	1	.							
6547	O	O	. GLY GLY GLY B B 424 424 .	0.0720	0.0500	0.0546	-0.0035	-0.0050	
0.0031	1	.							
6548	N	N	. HIS HIS HIS B B 425 425 .	0.1221	0.1042	0.0921	-0.0011	0.0143	-
0.0027	1	.							
6549	CA	CA	. HIS HIS HIS B B 425 425 .	0.1412	0.1169	0.1053	-0.0034	0.0134	
0.0000	1	.							
6550	CB	CB	. HIS HIS HIS B B 425 425 .	0.1597	0.1428	0.1135	0.0068	0.0254	-
0.0047	1	.							
6551	CG	CG	. HIS HIS HIS B B 425 425 .	0.2117	0.2163	0.1537	0.0076	0.0187	
0.0074	1	.							
6552	ND1	ND1	. HIS HIS HIS B B 425 425 .	0.2794	0.2630	0.1992	0.0086	0.0365	
0.0033	1	.							



6583	CZ	CZ	. ARG ARG ARG B B 428 428 .	0.0867	0.0656	0.0573	0.0120	-0.0035	-
0.0225	1	.							
6584	NH1	NH1	. ARG ARG ARG B B 428 428 .	0.0409	0.0458	0.0253	-0.0179	0.0004	-
0.0004	1	.							
6585	NH2	NH2	. ARG ARG ARG B B 428 428 .	0.1218	0.0442	0.0642	0.0062	-0.0244	-
0.0262	1	.							
6586	C	C	. ARG ARG ARG B B 428 428 .	0.1077	0.0796	0.0766	0.0146	-0.0058	-
0.0025	1	.							
6587	O	O	. ARG ARG ARG B B 428 428 .	0.1353	0.1383	0.1472	0.0163	-0.0071	-
0.0108	1	.							
6588	N	N	. ASN ASN ASN B B 429 429 .	0.1134	0.0899	0.0963	-0.0076	-0.0139	-
0.0226	1	.							
6589	CA	CA	. ASN ASN ASN B B 429 429 .	0.1171	0.1160	0.1240	0.0018	-0.0008	-
0.0010	1	.							
6590	CB	CB	. ASN ASN ASN B B 429 429 .	0.1591	0.1372	0.1418	0.0054	-0.0042	-
0.0098	1	.							
6591	CG	CG	. ASN ASN ASN B B 429 429 .	0.1420	0.1613	0.1770	-0.0122	0.0174	-
0.0045	1	.							
6592	OD1	OD1	. ASN ASN ASN B B 429 429 .	0.2359	0.2473	0.2155	-0.0212	0.0162	-
0.0120	1	.							
6593	ND2	ND2	. ASN ASN ASN B B 429 429 .	0.2114	0.1866	0.1518	-0.0064	-0.0196	-
0.0071	1	.							
6594	C	C	. ASN ASN ASN B B 429 429 .	0.1216	0.1088	0.1075	0.0011	0.0000	-
0.0077	1	.							
6595	O	O	. ASN ASN ASN B B 429 429 .	0.1313	0.1286	0.0938	-0.0158	-0.0141	-
0.0050	1	.							
6596	N	N	. PRO PRO PRO B B 430 430 .	0.1162	0.1208	0.1102	-0.0022	0.0011	-
0.0057	1	.							
6597	CA	CA	. PRO PRO PRO B B 430 430 .	0.1299	0.1289	0.1244	0.0039	-0.0017	-
0.0063	1	.							
6598	CB	CB	. PRO PRO PRO B B 430 430 .	0.1165	0.1243	0.1053	-0.0127	0.0113	-
0.0122	1	.							
6599	CG	CG	. PRO PRO PRO B B 430 430 .	0.1321	0.1402	0.1234	0.0051	0.0040	-
0.0049	1	.							
6600	CD	CD	. PRO PRO PRO B B 430 430 .	0.1367	0.1271	0.1259	-0.0061	0.0031	-
0.0050	1	.							
6601	C	C	. PRO PRO PRO B B 430 430 .	0.1627	0.1585	0.1610	-0.0098	0.0046	-
0.0014	1	.							
6602	O	O	. PRO PRO PRO B B 430 430 .	0.1841	0.1565	0.1480	-0.0073	0.0155	-
0.0003	1	.							
6603	N	N	. SER SER SER B B 431 431 .	0.2010	0.2160	0.1990	-0.0060	0.0030	-
0.0068	1	.							
6604	CA	CA	. SER SER SER B B 431 431 .	0.2499	0.2643	0.2603	-0.0080	-0.0012	-
0.0091	1	.							
6605	CB	CB	. SER SER SER B B 431 431 .	0.2477	0.2650	0.2511	-0.0017	0.0012	-
0.0020	1	.							
6606	OG	OG	. SER SER SER B B 431 431 .	0.2369	0.2883	0.2697	-0.0485	-0.0273	-
0.0053	1	.							
6607	C	C	. SER SER SER B B 431 431 .	0.2913	0.2947	0.2856	-0.0052	-0.0027	-
0.0131	1	.							
6608	O	O	. SER SER SER B B 431 431 .	0.3015	0.3074	0.3053	-0.0191	-0.0097	-
0.0183	1	.							
6609	N	N	. VAL VAL VAL B B 432 432 .	0.2917	0.3014	0.2970	-0.0034	0.0046	-
0.0045	1	.							
6610	CA	CA	. VAL VAL VAL B B 432 432 .	0.3320	0.3279	0.3269	0.0000	0.0010	-
0.0075	1	.							
6611	CB	CB	. VAL VAL VAL B B 432 432 .	0.3264	0.3279	0.3224	0.0000	0.0044	-
0.0093	1	.							
6612	CG1	CG1	. VAL VAL VAL B B 432 432 .	0.3428	0.3545	0.3512	0.0128	0.0145	-
0.0048	1	.							

















































7243 O O . HOH HOH HOH S . 597 597 . 0.7289 0.6752 0.8729 0.0264 -0.0859 -  
0.0979 1 .  
7244 O O . HOH HOH HOH S . 598 598 . 0.1799 0.6981 0.5094 -0.0806 0.0503  
0.2685 1 .  
7245 O O . HOH HOH HOH S . 599 599 . 0.3019 0.5916 0.2652 -0.1429 0.1026  
0.0731 1 .  
7246 O O . HOH HOH HOH S . 600 600 . 0.3162 0.6233 0.3262 -0.0134 -0.0576 -  
0.0170 1 .  
7247 O O . HOH HOH HOH S . 601 601 . 0.3477 0.2945 0.3568 0.0385 0.0725  
0.0373 1 .  
7248 O O . HOH HOH HOH S . 602 602 . 1.0157 0.8449 0.9375 0.4613 0.5454 -  
0.3542 1 .  
7249 O O . HOH HOH HOH S . 603 603 . 0.4477 0.3903 0.3097 -0.0181 0.0669 -  
0.1699 1 .  
7250 O O . HOH HOH HOH S . 605 605 . 0.1835 0.4233 0.3497 -0.0466 -0.0123  
0.0180 1 .  
7251 O O . HOH HOH HOH S . 606 606 . 0.5100 0.2410 0.3777 0.1229 0.0194 -  
0.2360 1 .  
7252 O O . HOH HOH HOH S . 609 609 . 0.5340 0.7088 0.2523 0.0640 0.0933 -  
0.2216 1 .  
7253 O O . HOH HOH HOH S . 610 610 . 0.5323 0.3446 0.3966 -0.1989 0.0234 -  
0.1766 1 .  
7254 O O . HOH HOH HOH S . 613 613 . 0.1893 0.4775 0.5010 0.1633 -0.1297 -  
0.0009 1 .  
7255 O O . HOH HOH HOH S . 615 615 . 0.4095 0.2499 0.3425 -0.0820 0.0043  
0.0265 1 .

```

#
_atom_sites.entry_id          UNNAMED
_atom_sites.fract_transf_matrix[1][1]  0.008712
_atom_sites.fract_transf_matrix[1][2]  0.000000
_atom_sites.fract_transf_matrix[1][3]  0.000000
_atom_sites.fract_transf_matrix[2][1]  0.000000
_atom_sites.fract_transf_matrix[2][2]  0.008356
_atom_sites.fract_transf_matrix[2][3]  0.000000
_atom_sites.fract_transf_matrix[3][1]  0.000000
_atom_sites.fract_transf_matrix[3][2]  0.000000
_atom_sites.fract_transf_matrix[3][3]  0.014706
_atom_sites.fract_transf_vector[1]    0.000000
_atom_sites.fract_transf_vector[2]    0.000000
_atom_sites.fract_transf_vector[3]    0.000000

```

```

#
_cell.length_a      114.785
_cell.length_b      119.677
_cell.length_c       68.001
_cell.angle_alpha   90.000
_cell.angle_beta    90.000
_cell.angle_gamma   90.000
_cell.entry_id      UNNAMED

```

```

#
_computing.entry_id          UNNAMED
_computing.structure_refinement  'REFMAC 5.5.0109'
_computing.structure_solution   ?
_computing.pdbx_data_reduction_ds  HKL
_computing.pdbx_data_reduction_ii  HKL
_computing.cell_refinement       HKL

```

```

#
_data_extraction.software      pdb_extract
_data_extraction.extraction_date 'Fri Oct 21 15:28:23 2011'
_data_extraction.version       3.10
_data_extraction.release_date   'June 10, 2010'

```

```

_data_extraction.location          http://sw-tools.rcsb.org/apps/PDB_EXTRACT/
#
loop_
_database_2.database_id
_database_2.database_code
PDB UNNAMED
RCSB UNNAMED
#
_database_PDB_remark.id          3
_database_PDB_remark.text
;
REMARK 3
REMARK 3 REFINEMENT.
REMARK 3 PROGRAM : REFMAC 5.5.0109
REMARK 3 AUTHORS : MURSHUDOV,VAGIN,DODSON
REMARK 3
REMARK 3 REFINEMENT TARGET : MAXIMUM LIKELIHOOD
REMARK 3
REMARK 3 DATA USED IN REFINEMENT.
REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS) : 1.50
REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS) : 82.84
REMARK 3 DATA CUTOFF (SIGMA(F)) : NONE
REMARK 3 COMPLETENESS FOR RANGE (%) : 82.89
REMARK 3 NUMBER OF REFLECTIONS : 118194
REMARK 3
REMARK 3 FIT TO DATA USED IN REFINEMENT.
REMARK 3 CROSS-VALIDATION METHOD : THROUGHOUT
REMARK 3 FREE R VALUE TEST SET SELECTION : RANDOM
REMARK 3 R VALUE (WORKING + TEST SET) : 0.22142
REMARK 3 R VALUE (WORKING SET) : 0.21950
REMARK 3 FREE R VALUE : 0.25768
REMARK 3 FREE R VALUE TEST SET SIZE (%) : 5.0
REMARK 3 FREE R VALUE TEST SET COUNT : 6211
REMARK 3
REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK 3 TOTAL NUMBER OF BINS USED : 20
REMARK 3 BIN RESOLUTION RANGE HIGH : 1.500
REMARK 3 BIN RESOLUTION RANGE LOW : 1.539
REMARK 3 REFLECTION IN BIN (WORKING SET) : 3470
REMARK 3 BIN COMPLETENESS (WORKING+TEST) (%) : 33.24
REMARK 3 BIN R VALUE (WORKING SET) : 0.277
REMARK 3 BIN FREE R VALUE SET COUNT : 184
REMARK 3 BIN FREE R VALUE : 0.340
REMARK 3
REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK 3 ALL ATOMS : 7255
REMARK 3
REMARK 3 B VALUES.
REMARK 3 FROM WILSON PLOT (A**2) : NULL
REMARK 3 MEAN B VALUE (OVERALL, A**2) : 7.585
REMARK 3 OVERALL ANISOTROPIC B VALUE.
REMARK 3 B11 (A**2) : 0.44
REMARK 3 B22 (A**2) : -0.23
REMARK 3 B33 (A**2) : -0.21
REMARK 3 B12 (A**2) : 0.00
REMARK 3 B13 (A**2) : 0.00
REMARK 3 B23 (A**2) : 0.00
REMARK 3
REMARK 3 ESTIMATED OVERALL COORDINATE ERROR.
REMARK 3 ESU BASED ON R VALUE (A) : 0.132

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REMARK 3 ESU BASED ON FREE R VALUE (A): 0.104  
REMARK 3 ESU BASED ON MAXIMUM LIKELIHOOD (A): 0.064  
REMARK 3 ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A\*\*2): 3.759  
REMARK 3  
REMARK 3 CORRELATION COEFFICIENTS.  
REMARK 3 CORRELATION COEFFICIENT FO-FC : 0.882  
REMARK 3 CORRELATION COEFFICIENT FO-FC FREE : 0.862  
REMARK 3  
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES COUNT RMS WEIGHT  
REMARK 3 BOND LENGTHS REFINED ATOMS (A): 6755 ; 0.023 ; 0.022  
REMARK 3 BOND ANGLES REFINED ATOMS (DEGREES): 9136 ; 1.955 ; 1.972  
REMARK 3 TORSION ANGLES, PERIOD 1 (DEGREES): 861 ; 6.020 ; 5.000  
REMARK 3 TORSION ANGLES, PERIOD 2 (DEGREES): 308 ; 40.405 ; 25.000  
REMARK 3 TORSION ANGLES, PERIOD 3 (DEGREES): 1162 ; 15.349 ; 15.000  
REMARK 3 TORSION ANGLES, PERIOD 4 (DEGREES): 40 ; 24.828 ; 15.000  
REMARK 3 CHIRAL-CENTER RESTRAINTS (A\*\*3): 1024 ; 0.136 ; 0.200  
REMARK 3 GENERAL PLANES REFINED ATOMS (A): 5104 ; 0.011 ; 0.021  
REMARK 3  
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT  
REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A\*\*2): 4277 ; 1.444 ; 1.500  
REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A\*\*2): 6836 ; 2.295 ; 2.000  
REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A\*\*2): 2478 ; 3.933 ; 3.000  
REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A\*\*2): 2300 ; 5.988 ; 4.500  
REMARK 3  
REMARK 3 ANISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT  
REMARK 3 RIGID-BOND RESTRAINTS (A\*\*2): 6755 ; 2.252 ; 3.000  
REMARK 3  
REMARK 3 NCS RESTRAINTS STATISTICS  
REMARK 3 NUMBER OF NCS GROUPS : NULL  
REMARK 3  
REMARK 3 TWIN DETAILS  
REMARK 3 NUMBER OF TWIN DOMAINS : NULL  
REMARK 3  
REMARK 3  
REMARK 3 TLS DETAILS  
REMARK 3 NUMBER OF TLS GROUPS : NULL  
REMARK 3  
REMARK 3  
REMARK 3 BULK SOLVENT MODELLING.  
REMARK 3 METHOD USED : MASK  
REMARK 3 PARAMETERS FOR MASK CALCULATION  
REMARK 3 VDW PROBE RADIUS : 1.40  
REMARK 3 ION PROBE RADIUS : 0.80  
REMARK 3 SHRINKAGE RADIUS : 0.80  
REMARK 3  
REMARK 3 OTHER REFINEMENT REMARKS:  
REMARK 3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS  
REMARK 3 U VALUES : REFINED INDIVIDUALLY  
REMARK 3

```

;
#
_entity_poly.entity_id 1
_entity_poly.pdbx_seq_one_letter_code
;SIQKIWAREILDSRGNPTVEVDLYTAKGLFRAAVPSGASTGIYEALERDGDQRYLGKG
VLKAVDHINSTIAPALISSGLSVVEQEKLNLMLDGTENKSKFGANAILGVSLAVCKA
GAAERELPLYRHIAQLAGNSDLILPVPFNVINGGSHAGNKLAMQEFMILPVGAESFRDA
MRLGAEVYHTLKGVIKDKYGKDATNVGDEGGFAPNILENSEALELVKEAIDKAGYTEKIV
IGMDVAASEFYRDGKYDLDFKSPTDPSRYITGDQLGALYQDFVRDYPVVSIEDPFDQDDW
AAWSKFTANVGIQIVGDDLTVTNPKRIERAVEREAKACNCLLLKVNQIGSVTEAIQACKLAQ
ENGWGVMVSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEELGDEA

```

RFAGHNFRNPSVL

```
;  
_entity_poly.pdbx_strand_id      A,B  
_entity_poly.type                'polypeptide(L)'  
_entity_poly.pdbx_target_identifier ?  
#  
_entry.id      UNNAMED  
#  
_exptl.crystals_number      1  
_exptl.entry_id      UNNAMED  
_exptl.method      'X-RAY DIFFRACTION'  
#  
_exptl_crystal.id      1  
_exptl_crystal.pdbx_mosaicity      0.950  
_exptl_crystal.pdbx_mosaicity_esd  ?  
_exptl_crystal.density_Matthews    ?  
_exptl_crystal.density_diffn       ?  
_exptl_crystal.density_meas        ?  
_exptl_crystal.density_meas_temp   ?  
_exptl_crystal.density_percent_sol ?  
_exptl_crystal.size_max            ?  
_exptl_crystal.size_mid            ?  
_exptl_crystal.size_min            ?  
_exptl_crystal.size_rad            ?  
#  
_refine.entry_id      UNNAMED  
_refine.pdbx_refine_id      'X-RAY DIFFRACTION'  
_refine.ls_d_res_high      1.5000  
_refine.ls_d_res_low      82.8400  
_refine.pdbx_ls_sigma_F    0.000  
_refine.pdbx_data_cutoff_high_absF ?  
_refine.pdbx_data_cutoff_low_absF ?  
_refine.ls_percent_reflms_obs  82.8900  
_refine.ls_number_reflms_obs  124405  
_refine.ls_number_reflms_all  ?  
_refine.pdbx_ls_cross_valid_method THROUGHOUT  
_refine.ls_matrix_type      ?  
_refine.pdbx_R_Free_selection_details RANDOM  
_refine.details  
' HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS U VALUES      : REFINED  
INDIVIDUALLY '  
_refine.ls_R_factor_all      ?  
_refine.ls_R_factor_obs      0.2214  
_refine.ls_R_factor_R_work   0.2195  
_refine.ls_wR_factor_R_work  0.1997  
_refine.ls_R_factor_R_free   0.2577  
_refine.ls_wR_factor_R_free  0.2329  
_refine.ls_percent_reflms_R_free  5.0000  
_refine.ls_number_reflms_R_free  6211  
_refine.ls_number_reflms_R_work  118194  
_refine.ls_R_factor_R_free_error ?  
_refine.B_iso_mean          7.5848  
_refine.solvent_model_param_bsol ?  
_refine.solvent_model_param_ksol ?  
_refine.pdbx_isotropic_thermal_model ?  
_refine.aniso_B[1][1]      0.4400  
_refine.aniso_B[2][2]      -0.2300  
_refine.aniso_B[3][3]      -0.2100  
_refine.aniso_B[1][2]      0.0000  
_refine.aniso_B[1][3]      0.0000
```

_refine.aniso_B[2][3]	0.0000
_refine.correlation_coeff_Fo_to_Fc	0.8820
_refine.correlation_coeff_Fo_to_Fc_free	0.8620
_refine.overall_SU_R_Cruickshank_DPI	0.1320
_refine.pdbx_overall_SU_R_free_Cruickshank_DPI	?
_refine.pdbx_overall_SU_R_Blow_DPI	?
_refine.pdbx_overall_SU_R_free_Blow_DPI	?
_refine.overall_SU_R_free	0.1037
_refine.pdbx_overall_ESU_R	0.1320
_refine.pdbx_overall_ESU_R_Free	0.1040
_refine.overall_SU_ML	0.0640
_refine.overall_SU_B	3.7590
_refine.solvent_model_details	MASK
_refine.pdbx_solvent_vdw_probe_radii	1.4000
_refine.pdbx_solvent_ion_probe_radii	0.8000
_refine.pdbx_solvent_shrinkage_radii	0.8000
_refine.ls_number_parameters	?
_refine.ls_number_restraints	?
_refine.pdbx_starting_model	?
_refine.pdbx_method_to_determine_struct	?
_refine.pdbx_stereochemistry_target_values	'MAXIMUM LIKELIHOOD'
_refine.pdbx_stereochem_target_val_spec_case	?
_refine.overall_FOM_work_R_set	0.8841
_refine.B_iso_max	244.050
_refine.B_iso_min	2.000
_refine.pdbx_overall_phase_error	?
_refine.occupancy_max	1.000
_refine.occupancy_min	0.260
#	
loop_	
_refine_ls_restr.pdbx_refine_id	
_refine_ls_restr.type	
_refine_ls_restr.number	
_refine_ls_restr.dev_ideal	
_refine_ls_restr.dev_ideal_target	
_refine_ls_restr.weight	
_refine_ls_restr.pdbx_restraint_function	
'X-RAY DIFFRACTION' r_bond_refined_d	6755 0.023 0.022 ? ?
'X-RAY DIFFRACTION' r_angle_refined_deg	9136 1.955 1.972 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_1_deg	861 6.020 5.000 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_2_deg	308 40.405 25.000 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_3_deg	1162 15.349 15.000 ? ?
'X-RAY DIFFRACTION' r_dihedral_angle_4_deg	40 24.828 15.000 ? ?
'X-RAY DIFFRACTION' r_chiral_restr	1024 0.136 0.200 ? ?
'X-RAY DIFFRACTION' r_gen_planes_refined	5104 0.011 0.021 ? ?
'X-RAY DIFFRACTION' r_mcbond_it	4277 1.444 1.500 ? ?
'X-RAY DIFFRACTION' r_mcbond_angle_it	6836 2.295 2.000 ? ?
'X-RAY DIFFRACTION' r_scbond_it	2478 3.933 3.000 ? ?
'X-RAY DIFFRACTION' r_scbond_angle_it	2300 5.988 4.500 ? ?
'X-RAY DIFFRACTION' r_rigid_bond_restr	6755 2.252 3.000 ? ?
#	
_refine_ls_shell.d_res_high	1.5000
_refine_ls_shell.d_res_low	1.5390
_refine_ls_shell.pdbx_total_number_of_bins_used	20
_refine_ls_shell.percent_reflns_obs	33.2400
_refine_ls_shell.number_reflns_R_work	3470
_refine_ls_shell.R_factor_all	?
_refine_ls_shell.R_factor_R_work	0.2770
_refine_ls_shell.R_factor_R_free	0.3400
_refine_ls_shell.percent_reflns_R_free	?

```

_refine_ls_shell.number_reflms_R_free      184
_refine_ls_shell.R_factor_R_free_error    ?
_refine_ls_shell.number_reflms_all        3654
_refine_ls_shell.number_reflms_obs        ?
_refine_ls_shell.pdbx_refine_id           'X-RAY DIFFRACTION'

```

```

#
_reflms.entry_id              UNNAMED
_reflms.d_resolution_high     1.500
_reflms.d_resolution_low     50.000
_reflms.pdbx_number_measured_all 685677
_reflms.number_obs           131445
_reflms.pdbx_Rmerge_I_obs    0.084
_reflms.pdbx_netI_over_av_sigmaI 28.180
_reflms.pdbx_netI_over_sigmaI 16.100
_reflms.pdbx_chi_squared     3.407
_reflms.pdbx_redundancy      5.200
_reflms.percent_possible_obs 87.500
_reflms.pdbx_Rmeas_mean      0.084
_reflms.pdbx_average_I_obs   7509.900
_reflms.pdbx_average_sigmaI_obs 266.500

```

```

#
loop_
_reflms_shell.d_res_high
_reflms_shell.d_res_low
_reflms_shell.number_measured_obs
_reflms_shell.number_measured_all
_reflms_shell.number_unique_obs
_reflms_shell.pdbx_rejects
_reflms_shell.Rmerge_I_obs
_reflms_shell.meanI_over_sigI_obs
_reflms_shell.pdbx_Rsym_value
_reflms_shell.pdbx_chi_squared
_reflms_shell.pdbx_redundancy
_reflms_shell.percent_possible_obs
_reflms_shell.pdbx_Rmeas_mean
_reflms_shell.pdbx_netI_over_sigmaI_obs
_reflms_shell.pdbx_number_centric
_reflms_shell.pdbx_number_anomalous
_reflms_shell.pdbx_Rmerge_I_anomalous
_reflms_shell.pdbx_meanI_over_sigI_anomalous
_reflms_shell.pdbx_PCV_mean
_reflms_shell.number_possible
_reflms_shell.number_unique_all
_reflms_shell.Rmerge_F_all
_reflms_shell.Rmerge_F_obs
_reflms_shell.Rmerge_I_all
_reflms_shell.meanI_over_sigI_all
_reflms_shell.percent_possible_all
_reflms_shell.pdbx_Rrim_I_all
_reflms_shell.pdbx_Rpim_I_all
1.500 1.550  ? ? ? ? 0.347 ? ? 1.294 1.600 ? ? ? ? ? ? ? ? ? 6200 ? ? ? ? 41.700 ?
?
1.550 1.620  ? ? ? ? 0.390 ? ? 1.124 2.200 ? ? ? ? ? ? ? ? ? 9528 ? ? ? ? 64.000 ?
?
1.620 1.690  ? ? ? ? 0.376 ? ? 1.186 2.800 ? ? ? ? ? ? ? ? ? 12380 ? ? ? ? 83.400 ?
?
1.690 1.780  ? ? ? ? 0.367 ? ? 1.271 3.700 ? ? ? ? ? ? ? ? ? 13188 ? ? ? ? 88.700 ?
?
1.780 1.890  ? ? ? ? 0.326 ? ? 1.481 4.800 ? ? ? ? ? ? ? ? ? 14463 ? ? ? ? 96.700 ?
?

```



1.890 2.040 ? ? ? ? 0.252 ? ? 1.944 5.900 ? ? ? ? ? ? ? ? ? ? 14878 ? ? ? ? 99.800 ?  
?  
2.040 2.240 ? ? ? ? 0.163 ? ? 2.808 6.300 ? ? ? ? ? ? ? ? ? ? 15001 ? ? ? ? 100.000 ?  
?  
2.240 2.560 ? ? ? ? 0.109 ? ? 3.494 6.600 ? ? ? ? ? ? ? ? ? ? 15044 ? ? ? ? 100.000 ?  
?  
2.560 3.230 ? ? ? ? 0.078 ? ? 4.865 7.100 ? ? ? ? ? ? ? ? ? ? 15161 ? ? ? ? 100.000 ?  
?  
3.230 50.000 ? ? ? ? 0.047 ? ? 6.299 7.200 ? ? ? ? ? ? ? ? ? ? 15602 ? ? ? ? 99.900 ?  
?

```
#
loop_
_software.pdbx_ordinal
_software.name
_software.version
_software.date
_software.type
_software.contact_author
_software.contact_author_email
_software.classification
_software.location
_software.language
1 HKL      ?      ?      package 'Zbyszek Otwinowski' hkl@hkl-xray.com
'data reduction' http://www.hkl-xray.com/      ?
2 REFMAC5  ?      ?      program 'Garib N. Murshudov' garib@ysbl.york.ac.uk
refinement      http://www.ccp4.ac.uk/dist/html/refmac5.html Fortran_77
3 pdb_extract 3.10 'June 10, 2010' package PDB
deposit@deposit.rcsb.org
'data extraction' http://sw-tools.pdb.org/apps/PDB_EXTRACT/      C++
#
_struct_biol.id      1
_struct_biol.details ?
#
_symmetry.space_group_name_H-M 'P 21 21 2'
_symmetry.entry_id    UNNAMED
_symmetry.Int_Tables_number 18
#
```

## wwPDB Validation Report

**TITLE:** Asymmetric complex of human neuron specific enolase-5-PGA/PEP  
**AUTHOR(S):** J Qin, G Chai, J Brewer, L Lovelace, L Lebioda

### Summary of PDB Entry Validation

The results of the validation of this PDB entry are shown below. No major issues were found.

### Sequence Validation

The reported biological sequence and the sequence given in the coordinates show no discrepancy.

### Summary of Structure Factor Validation

Structure quality	
Average Real space R-factor (Deviation) (Calculated by SFCHECK, V7.02.4)	0.0627
Average Real space R-factor (Deviation) (Calculated by MAPMAN, V7.8.5)	0.0788
Average Real-space correlation coefficient (Deviation) (Calculated by SFCHECK, V7.02.4)	0.9925
Average Real-space correlation coefficient (Deviation) (Calculated by MAPMAN, V7.8.5)	0.889
Average Occupancy-weighted avg temperature factor (Deviation)	8.31

Resolution	
High Resolution (Author reported)	1.40
High Resolution (Calculated by SFCHECK, V7.02.4)	1.40
High Resolution (Calculated by REFMAC, V5.5.0109)	1.400
Low Resolution (Author reported)	81.25
Low Resolution (Calculated by SFCHECK, V7.02.4)	41.67
Low Resolution (Calculated by REFMAC, V5.5.0109)	41.674

Crystal data	

Space group	P 21 21 2
Total number of reflections	138298
Number of reflections used	131411
Completeness of data	77.7

<b>R-factors</b>	
R-factor (Author reported)	0.215
R-factor (Calculated by SFCHECK, V7.02.4)	0.243
R-factor (Calculated by REFMAC, V5.5.0109)	0.2153
Free R-factor (Author reported)	0.261
Free R-factor (Calculated by SFCHECK, V7.02.4)	0.276
Free R-factor (Calculated by REFMAC, V5.5.0109)	0.2609

<b>Wilson statistics (PHENIX, V1.6-289)</b>	
Wilson B-factor	5.00
Wilson Scale	0.51

<b>Padilla-Yeates statistics for twin detection (PHENIX, V1.6-289)</b>	
Padilla-Yeates $\langle  L  \rangle$	0.282
Padilla-Yeates $\langle L^*L \rangle$	0.119

## wwPDB Validation Report

**TITLE:** Asymmetric complex of human neuron specific enolase-6-PGA/PEP  
**AUTHOR(S):** J Qin, G Chai, J Brewer, L Lovelace, L Lebioda

### Summary of PDB Entry Validation

The results of the validation of this PDB entry are shown below. No major issues were found.

### Sequence Validation

The reported biological sequence and the sequence given in the coordinates show no discrepancy.

### Summary of Structure Factor Validation

Structure quality	
Average Real space R-factor (Deviation) (Calculated by SFCHECK, V7.02.4)	0.0545
Average Real space R-factor (Deviation) (Calculated by MAPMAN, V7.8.5)	0.0746
Average Real-space correlation coefficient (Deviation) (Calculated by SFCHECK, V7.02.4)	0.9921
Average Real-space correlation coefficient (Deviation) (Calculated by MAPMAN, V7.8.5)	0.975
Average Occupancy-weighted avg temperature factor (Deviation)	22.04

Resolution	
High Resolution (Author reported)	1.42
High Resolution (Calculated by SFCHECK, V7.02.4)	1.41
High Resolution (Calculated by REFMAC, V5.5.0109)	1.416
Low Resolution (Author reported)	82.76
Low Resolution (Calculated by SFCHECK, V7.02.4)	43.84
Low Resolution (Calculated by REFMAC, V5.5.0109)	43.842

Crystal data	

Space group	P 21 21 2
Total number of reflections	166990
Number of reflections used	158604
Completeness of data	93.7

<b>R-factors</b>	
R-factor (Author reported)	0.156
R-factor (Calculated by SFCHECK, V7.02.4)	0.194
R-factor (Calculated by REFMAC, V5.5.0109)	0.1565
Free R-factor (Author reported)	0.199
Free R-factor (Calculated by SFCHECK, V7.02.4)	0.220
Free R-factor (Calculated by REFMAC, V5.5.0109)	0.1991

<b>Wilson statistics (PHENIX, V1.6-289)</b>	
Wilson B-factor	17.96
Wilson Scale	0.49

<b>Padilla-Yeates statistics for twin detection (PHENIX, V1.6-289)</b>	
Padilla-Yeates $\langle  L  \rangle$	0.467
Padilla-Yeates $\langle L^*L \rangle$	0.295

10/27/11 04:48 PM (EDT)

Generated by RCSB PDB

Summary Report for Review

## wwPDB Validation Report

**TITLE:** Asymmetric complex of human neuron specific enolase-4-PGA/PEP  
**AUTHOR(S):** J Qin, G Chai, J Brewer, L Lovelace, L Lebioda

### Summary of PDB Entry Validation

The results of the validation of this PDB entry are shown below. No major issues were found.

### Sequence Validation

The reported biological sequence and the sequence given in the coordinates show no discrepancy.

### Summary of Structure Factor Validation

Structure quality	
Average Real space R-factor (Deviation) (Calculated by SFCHECK, V7.02.4)	0.0951
Average Real-space correlation coefficient (Deviation) (Calculated by SFCHECK, V7.02.4)	0.9749
Average Occupancy-weighted avg temperature factor (Deviation)	35.39

Resolution	
High Resolution (Author reported)	2.10
High Resolution (Calculated by SFCHECK, V7.02.4)	2.10
Low Resolution (Author reported)	80.72
Low Resolution (Calculated by SFCHECK, V7.02.4)	37.39

Crystal data	
Space group	P 21 21 2
Total number of reflections	47009
Number of reflections used	44629
Completeness of data	89.1

<b>R-factors</b>	
R-factor (Author reported)	0.190
R-factor (Calculated by SFCHECK, V7.02.4)	0.239
Free R-factor (Author reported)	0.250
Free R-factor (Calculated by SFCHECK, V7.02.4)	0.284

<b>Wilson statistics (PHENIX, V1.6-289)</b>	
Wilson B-factor	31.88
Wilson Scale	0.50

<b>Padilla-Yeates statistics for twin detection (PHENIX, V1.6-289)</b>	
Padilla-Yeates $\langle  L  \rangle$	0.485
Padilla-Yeates $\langle L^*L \rangle$	0.318

## wwPDB Validation Report

**TITLE:** Asymmetric complex of human neuron specific enolase-3-PGA/PEP  
**AUTHOR(S):** J Qin, G Chai, J Brewer, L Lovelace, L Lebioda

### Summary of PDB Entry Validation

The results of the validation of this PDB entry are shown below. No major issues were found.

### Sequence Validation

The reported biological sequence and the sequence given in the coordinates show no discrepancy.

### Summary of Structure Factor Validation

Structure quality	
Average Real space R-factor (Deviation) (Calculated by SFCHECK, V7.02.4)	0.0485
Average Real space R-factor (Deviation) (Calculated by MAPMAN, V7.8.5)	0.0725
Average Real-space correlation coefficient (Deviation) (Calculated by SFCHECK, V7.02.4)	0.9938
Average Real-space correlation coefficient (Deviation) (Calculated by MAPMAN, V7.8.5)	0.965
Average Occupancy-weighted avg temperature factor (Deviation)	15.09

Resolution	
High Resolution (Author reported)	1.55
High Resolution (Calculated by SFCHECK, V7.02.4)	1.55
High Resolution (Calculated by REFMAC, V5.5.0109)	1.554
Low Resolution (Author reported)	80.84
Low Resolution (Calculated by SFCHECK, V7.02.4)	42.68
Low Resolution (Calculated by REFMAC, V5.5.0109)	42.679

Crystal data	



Space group	P 21 21 2
Total number of reflections	112548
Number of reflections used	106884
Completeness of data	87.1

<b>R-factors</b>	
R-factor (Author reported)	0.143
R-factor (Calculated by SFCHECK, V7.02.4)	0.181
R-factor (Calculated by REFMAC, V5.5.0109)	0.1440
Free R-factor (Author reported)	0.189
Free R-factor (Calculated by SFCHECK, V7.02.4)	0.205
Free R-factor (Calculated by REFMAC, V5.5.0109)	0.1901

<b>Wilson statistics (PHENIX, V1.6-289)</b>	
Wilson B-factor	13.05
Wilson Scale	0.52

<b>Padilla-Yeates statistics for twin detection (PHENIX, V1.6-289)</b>	
Padilla-Yeates $\langle  L  \rangle$	0.465
Padilla-Yeates $\langle L^*L \rangle$	0.294

## wwPDB Validation Report

**TITLE:** Asymmetric complex of human neuron specific enolase-2-PGA/PEP  
**AUTHOR(S):** J Qin, G Chai, J Brewer, L Lovelace, L Lebioda

### Summary of PDB Entry Validation

The results of the validation of this PDB entry are shown below. No major issues were found.

### Sequence Validation

The reported biological sequence and the sequence given in the coordinates show no discrepancy.

### Summary of Structure Factor Validation

Structure quality	
Average Real space R-factor (Deviation) (Calculated by SFCHECK, V7.02.4)	0.0503
Average Real space R-factor (Deviation) (Calculated by MAPMAN, V7.8.5)	0.0735
Average Real-space correlation coefficient (Deviation) (Calculated by SFCHECK, V7.02.4)	0.9933
Average Real-space correlation coefficient (Deviation) (Calculated by MAPMAN, V7.8.5)	0.964
Average Occupancy-weighted avg temperature factor (Deviation)	13.18

Resolution	
High Resolution (Author reported)	1.41
High Resolution (Calculated by SFCHECK, V7.02.4)	1.41
High Resolution (Calculated by REFMAC, V5.5.0109)	1.414
Low Resolution (Author reported)	44.58
Low Resolution (Calculated by SFCHECK, V7.02.4)	41.08
Low Resolution (Calculated by REFMAC, V5.5.0109)	41.075

Crystal data	

Space group	P 21 21 2
Total number of reflections	152702
Number of reflections used	145026
Completeness of data	94.1

<b>R-factors</b>	
R-factor (Author reported)	0.161
R-factor (Calculated by SFCHECK, V7.02.4)	0.190
R-factor (Calculated by REFMAC, V5.5.0109)	0.1615
Free R-factor (Author reported)	0.198
Free R-factor (Calculated by SFCHECK, V7.02.4)	0.213
Free R-factor (Calculated by REFMAC, V5.5.0109)	0.1976

<b>Wilson statistics (PHENIX, V1.6-289)</b>	
Wilson B-factor	11.40
Wilson Scale	0.55

<b>Padilla-Yeates statistics for twin detection (PHENIX, V1.6-289)</b>	
Padilla-Yeates $\langle  L  \rangle$	0.485
Padilla-Yeates $\langle L^*L \rangle$	0.316

## wwPDB Validation Report

**TITLE:** Asymmetric complex of human neuron specific enolase-1-PGA/PEP  
**AUTHOR(S):** J Qin, G Chai, J Brewer, L Lovelace, L Lebioda

### Summary of PDB Entry Validation

The results of the validation of this PDB entry are shown below. No major issues were found.

### Sequence Validation

The reported biological sequence and the sequence given in the coordinates show no discrepancy.

### Summary of Structure Factor Validation

Structure quality	
Average Real space R-factor (Deviation) (Calculated by SFCHECK, V7.02.4)	0.0675
Average Real space R-factor (Deviation) (Calculated by MAPMAN, V7.8.5)	0.0834
Average Real-space correlation coefficient (Deviation) (Calculated by SFCHECK, V7.02.4)	0.9912
Average Real-space correlation coefficient (Deviation) (Calculated by MAPMAN, V7.8.5)	0.883
Average Occupancy-weighted avg temperature factor (Deviation)	7.58

Resolution	
High Resolution (Author reported)	1.50
High Resolution (Calculated by SFCHECK, V7.02.4)	1.50
High Resolution (Calculated by REFMAC, V5.5.0109)	1.500
Low Resolution (Author reported)	82.84
Low Resolution (Calculated by SFCHECK, V7.02.4)	36.44
Low Resolution (Calculated by REFMAC, V5.5.0109)	36.444

Crystal data	

Space group	P 21 21 2
Total number of reflections	124405
Number of reflections used	118194
Completeness of data	82.9

<b>R-factors</b>	
R-factor (Author reported)	0.220
R-factor (Calculated by SFCHECK, V7.02.4)	0.244
R-factor (Calculated by REFMAC, V5.5.0109)	0.2197
Free R-factor (Author reported)	0.258
Free R-factor (Calculated by SFCHECK, V7.02.4)	0.271
Free R-factor (Calculated by REFMAC, V5.5.0109)	0.2578

<b>Wilson statistics (PHENIX, V1.6-289)</b>	
Wilson B-factor	3.44
Wilson Scale	0.52

<b>Padilla-Yeates statistics for twin detection (PHENIX, V1.6-289)</b>	
Padilla-Yeates $\langle  L  \rangle$	0.286
Padilla-Yeates $\langle L^*L \rangle$	0.122