Supplementary Material

Various energy terms (in Kcal/mol), described in the text, for 222 nonequivalent salt bridges in 36 nonhomologous monomeric proteins are presented here. Each salt bridge is labeled by the PDB code of the protein and the names and the numbers of residues in the salt bridging pair. The residue names are given in single letter code. † indicates a networked salt bridge. ASA_1 and ASA_2 are the percent accessible surface areas of the residues in the salt bridge. 'Typ' is the salt bridge type: 'B' stands for buried and 'S' stands for surface or exposed salt bridge.

Salt bridge	$\Delta\Delta G_{dslv}$	$\Delta\Delta G_{brd}$	$\Delta\Delta G_{prt}$	$\Delta\Delta G_{tot}$	$\Delta\Delta G_{assoc}$	ASA_1	ASA_2	Typ
135l K1 – E7	+4.257	-4.882	-3.252	-3.877	-3.415	39.30	48.43	S
153l R1 – D3	+2.307	-1.724	-2.120	-1.537	-1.273	66.99	40.71	S
153l R10 – D137	+5.268	-9.082	-4.587	-8.401	-7.002	66.37	9.15	S
153l K19 – D167	+2.302	-1.181	-2.664	-1.544	-0.934	55.43	34.88	S
153l D41 – H75	+10.652	-9.727	-5.024	-4.099	-4.844	0.73	11.46	B
153l K54 – E110	+1.484	-3.667	-2.834	-5.018	-3.321	59.64	27.19	S
153l D97 – R99	+4.489	-7.932	-7.184	-10.627	-5.440	25.80	74.18	S
153l D172 – R176	+21.712	-17.902	-2.043	+1.767	-5.431	0.00	0.25	B
1ads K21 – D216†	+10.131	-7.936	-6.937	-4.743	-3.651	24.22	42.78	S
1ads D36 – K61†	+4.748	-7.622	-0.993	-3.867	-5.164	56.81	4.04	S
1ads D43 – K77	+19.804	-14.475	-9.295	-3.967	-4.210	1.82	0.37	B
1ads K61 – E64†	+6.294	-2.395	-7.542	-3.643	-1.266	4.04	46.82	S
1ads K68 – E70†	+3.004	-1.967	-5.415	-4.378	-1.409	53.90	65.28	S
1ads K68 – E71†	+2.404	-4.373	-3.934	-5.903	-3.748	53.90	31.32	S
1ads R69 – D105	+16.861	-8.365	-11.026	-2.530	-2.028	14.67	1.32	B
1ads K89 – E150	+2.433	-5.534	+0.030	-3.071	-4.580	33.95	49.01	S
1ads K94 – D98	+3.185	-6.998	-0.597	-4.410	-5.249	49.12	15.30	S
1ads E145 – K172	+14.012	-7.176	-10.748	-3.912	-2.207	5.02	13.51	B
1ads D149 – K176	+4.731	-6.332	+0.523	-1.078	-4.086	57.26	58.38	S
1ads D216 – K262†	+7.698	-3.352	-7.561	-3.215	-1.391	42.78	19.98	S
1ads E229 – K234	+0.928	-6.019	-5.207	-10.298	-5.683	59.50	40.58	S
1ads K239 – D284	+7.307	-4.023	-11.102	-7.818	-2.036	62.19	0.97	S
1ads K242 – D277	+9.670	-11.135	-6.151	-7.616	-5.681	17.51	59.12	S
1aky K54 – D58	+4.679	-3.717	-0.104	+0.859	-2.326	36.62	25.99	S
1aky E117 – K119	+5.271	-2.994	-2.719	-0.441	-1.463	5.21	46.35	S
1aky R132 – D168	+17.161	-16.678	-1.719	-1.237	-6.920	13.82	0.48	B
1aky R165 – D167	+7.137	-10.142	-0.831	-3.836	-5.581	15.06	4.49	B
1aky D212 – K216	+5.575	-3.071	-3.323	-0.819	-1.446	21.25	39.26	S
1akz E96 – K99	+3.475	-4.148	-0.720	-1.392	-3.045	9.94	43.74	S
1akz E111 – K114	+1.438	-0.995	-3.591	-3.148	-0.781	43.51	71.30	S
1akz E112 – R210	+7.670	-16.582	-5.175	-14.086	-11.299	6.61	21.27	B
1akz D183 – K302†	+3.892	-1.897	-8.244	-6.249	-1.297	44.60	38.89	S
1akz D227 – K252	+7.708	-6.380	+1.768	+3.097	-3.703	41.79	10.96	S
1akz D300 – K302†	+2.459	-6.777	-2.733	-7.051	-5.383	35.66	38.89	S
1amm R36 – D61	+1.817	-5.418	-1.071	-4.672	-4.463	30.32	52.74	S

Salt bridge	$\Delta\Delta G_{dslv}$	$\Delta\Delta G_{brd}$	$\Delta\Delta G_{prt}$	$\Delta\Delta G_{tot}$	$\Delta\Delta G_{assoc}$	ASA_1	ASA_2	Typ
1amm D107 – R115	+4.181	-3.209	-2.025	-1.053	-1.652	42.86	40.70	S
1amm E135 – K163	+4.904	-1.955	-4.860	-1.911	-1.108	9.76	38.05	S
1aop R85 – D143	+3.261	-9.875	-0.283	-6.896	-8.593	11.56	39.94	S
1aop D100 – K376	+6.618	-8.289	-2.337	-4.007	-5.124	5.58	4.28	B
1aop D150 – R302	+4.941	-0.229	-3.153	+1.560	-0.152	12.63	51.20	S
1aop K175 – E179	+1.363	-6.908	-0.118	-5.663	-5.817	39.20	40.21	S
1aop D234 – K306	+19.081	-12.370	-7.225	-0.515	-2.579	0.12	7.48	B
1aop E260 – K303	+1.511	-3.659	-3.032	-5.181	-3.145	33.12	48.83	S
1aop R294 – D295	+3.516	-6.300	-3.043	-5.828	-4.545	26.68	41.72	S
1aop E322 – R325	+3.321	-4.940	-8.077	-9.696	-4.833	13.21	72.20	S
1aop R366 – E448	+10.964	-12.974	-1.420	-3.430	-7.589	10.74	4.87	B
1aop E381 – K384	+1.742	-3.486	-0.088	-1.831	-2.743	36.15	52.41	S
1aop E446 – R449	+5.012	-9.562	-2.947	-7.497	-7.721	27.18	56.54	S
1aop K464 – D552	+3.061	-2.908	-4.791	-4.637	-2.056	66.99	0.00	S
1aop E470 – R542	+4.132	-1.838	-4.444	-2.149	-1.522	21.63	23.43	S
1aop R537 – E541	+3.120	-6.714	-0.185	-3.779	-5.015	33.12	45.24	S
1aop E546 – R554	+10.340	-14.103	-5.650	-9.413	-12.915	10.82	50.58	S
1aop D563 – R566	+1.998	-7.407	-3.406	-8.816	-6.900	38.17	68.11	S
1arb D9 – R81	+18.820	-16.038	-11.363	-8.582	-4.975	0.00	9.15	B
1arb D20 – K203	+5.131	-6.996	-7.203	-9.068	-4.801	21.79	27.38	S
1arb R23 – D262	+7.736	-5.163	-6.001	-3.428	-2.047	16.62	42.45	S
1arb D113 – H210	+13.688	-4.580	-7.963	+1.145	-1.221	0.97	10.75	B
1arb D135 – R137	+10.870	-9.965	-5.843	-4.939	-3.785	1.02	34.24	B
1arb R204 – D259	+3.634	-3.591	-1.175	-1.132	-2.315	10.61	61.53	S
1arb R243 – D246	+6.365	-9.750	-1.051	-4.435	-5.711	26.52	33.61	S
1aru K49 – E190	+6.059	-7.750	-3.953	-5.644	-5.544	9.42	15.23	B
1aru E101 – R104	+3.823	-4.783	-1.745	-2.704	-3.732	45.90	22.31	S
1aru E136 – R287	+5.179	-4.771	+0.033	+0.441	-3.209	12.32	41.01	S
1aru E176 – K279	+5.569	-4.885	-4.747	-4.063	-2.476	21.97	32.96	S
1aru D179 – R258	+10.449	-12.964	-4.921	-7.436	-6.569	1.70	21.80	B
1aru K219 – D317	+4.645	-3.848	-5.061	-4.264	-2.563	37.09	31.69	S
1aru D252 – R254	+5.604	-7.472	-3.431	-5.299	-5.034	20.69	48.32	S
1bfg R33 – D41	+7.983	-12.974	-8.306	-13.297	-7.486	17.96	10.96	B
1bfg E58 – R109	+4.872	-3.960	-2.938	-2.025	-2.139	47.94	30.47	S
1bfg K77 – E91	+2.939	-3.442	+1.895	+1.393	-2.532	22.93	9.98	B
1bfg D79 – R81	+4.216	-8.805	-4.692	-9.282	-6.327	46.61	40.49	S
1bvd E4 – K79	+2.008	-2.798	+0.746	-0.045	-2.366	54.33	32.27	S
1bvd E6 – K133	+3.615	-3.013	-2.539	-1.937	-1.791	24.26	33.93	S
1bvd E18 – K77	+2.024	-2.024	-0.216	-0.215	-1.567	41.50	48.34	S
1bvd D44 – K47	+2.509	-1.182	+0.532	+1.859	-0.849	66.58	30.63	S
1bvd E52 – K56	+0.350	-1.986	-0.657	-2.293	-1.769	52.63	38.65	S
1bvd K102 – E105	+0.806	-1.694	-0.754	-1.642	-1.458	61.71	23.42	S
1cex R20 – D22	+5.951	-7.923	-7.053	-9.024	-5.609	15.89	18.46	B
1cex E60 – K65	+4.119	-3.083	-5.625	-4.589	-2.028	13.73	64.38	S
1cex R88 – D132	+4.835	-6.948	-1.478	-3.592	-4.423	33.62	45.43	S
1cyo E59 – R68	+4.121	-6.073	-3.590	-5.542	-4.388	33.70	42.21	S
1cyo E69 – K72	+0.500	-0.370	+0.903	+1.033	-0.354	55.35	65.43	S
1dim E12 – K34	+1.542	-1.824	-1.700	-1.982	-1.632	35.14	31.60	S
1dim E14 – K82	+5.550	-3.751	-6.094	-4.295	-1.882	8.09	34.64	S
1dim R37 – E361	+19.268	-11.948	-11.492	-4.172	-3.871	6.86	0.09	B
1dim D67 – R90	+19.677	-8.838	-13.670	-2.831	-1.743	0.00	32.92	B
1dim D89 – K120	+4.369	-6.577	-2.476	-4.684	-4.648	45.91	13.78	S

Salt bridge	$\Delta\Delta G_{dslv}$	$\Delta\Delta G_{brd}$	$\Delta\Delta G_{prt}$	$\Delta\Delta G_{tot}$	$\Delta\Delta G_{assoc}$	ASA_1	ASA_2	Typ
1dim K156 – E158	+0.424	-1.815	-0.287	-1.678	-1.490	48.40	71.27	S
1dim R252 – D270	+11.254	-13.799	-5.503	-8.048	-6.469	11.33	7.09	B
1dim K303 – D311	+4.164	-2.558	+0.501	+2.107	-1.538	56.11	5.83	S
1dim E354 – K379	+7.235	-4.698	-4.997	-2.460	-2.482	25.18	23.09	S
1edg E54 – R102	+14.925	-14.980	-5.400	-5.454	-11.514	0.94	3.53	B
1edg K64 – D68	+6.093	-5.732	-2.916	-2.555	-2.692	37.69	32.05	S
1edg K73 – D369	+5.036	-3.538	+0.077	+1.575	-1.650	28.29	19.09	S
1edg K142 – D202	+5.029	-8.047	-0.468	-3.485	-5.441	30.15	12.12	S
1edg H254 – E307	+17.539	-6.466	-16.792	-5.719	-0.624	3.93	4.61	B
1edg K317 – E321	+2.464	-4.611	-0.209	-2.356	-3.702	55.54	12.02	S
1edg D356 – R358	+3.885	-1.228	-7.737	-5.081	-0.700	0.12	73.47	S
1fmk D117 – R318	+2.690	-7.680	-0.288	-5.278	-6.528	28.24	51.94	S
1fmk K152 – E176	+0.938	-2.824	-0.696	-2.582	-2.420	86.38	25.72	S
1fmk E157 – R160†	+9.100	-9.206	-10.745	-10.852	-4.955	14.88	8.68	B
1fmk E157 – K321†	+11.277	-9.549	-7.004	-5.277	-4.556	14.88	3.36	B
1fmk R160 – D365†	+11.006	-7.781	-7.642	-4.416	-4.203	8.68	17.12	B
1fmk E339 – K401	+9.569	-5.399	-3.099	+1.072	-1.980	9.85	7.86	B
1fmk K343 – E396	+0.958	-4.771	-0.263	-4.077	-4.274	43.05	61.03	S
1fmk D386 – R388	+8.756	-11.186	-4.618	-7.048	-5.333	5.15	16.61	B
1fmk E432 – R506	+19.232	-10.594	-8.026	+0.612	-3.286	4.81	1.34	B
1hmr D2 – K44	+2.375	-1.531	-0.207	+0.638	-0.698	61.90	43.24	S
1hmr D12 – K14	+1.414	-3.117	-1.076	-2.779	-2.778	38.62	60.28	S
1hmr E43 – K52	+1.277	-2.146	-0.948	-1.817	-1.486	47.24	24.05	S
1hmr D71 – K81	+0.346	-1.918	-0.030	-1.602	-1.693	71.05	48.61	S
1hmr D76 – R78	+9.230	-10.967	-4.237	-5.974	-6.610	26.91	10.65	B
1hmr K79 – D98	+1.629	-1.466	+0.477	+0.640	-1.035	55.21	81.22	S
1hmr K112 – E129	+1.136	-2.870	-1.046	-2.779	-2.377	32.03	40.34	S
1igd E29 – K33	+0.289	-4.212	+0.126	-3.797	-4.144	60.95	62.92	S
1igd E32 – K36	+0.785	-2.593	-0.691	-2.498	-1.966	34.53	33.33	S
1igd D52 – K55	+1.580	-2.569	-0.416	-1.405	-1.905	60.05	33.47	S
1mla E55 – K58	+0.937	-2.495	+0.274	-1.284	-2.036	31.52	32.67	S
1mla E123 – K211	+5.245	-4.433	-0.196	+0.615	-2.885	60.83	30.37	S
1mla K206 – D210	+1.409	-5.004	-0.674	-4.269	-4.287	41.39	46.16	S
1mla E215 – K218	+2.941	-1.752	-0.106	+1.083	-1.267	14.93	73.28	S
1mla D233 – R249	+5.467	-7.040	-4.435	-6.008	-5.472	31.16	27.44	S
1orc K18 – D22	+5.055	-6.196	+1.878	+0.737	-3.945	41.73	26.16	S
1orc R38 – E54	+4.871	-22.241	+0.521	-16.848	-19.370	38.96	2.10	S
1phc D25 – R57	+8.090	-10.767	-6.695	-9.372	-5.686	34.41	30.78	S
1phc D97 – K197	+7.455	-4.613	-6.854	-4.012	-2.299	26.52	10.98	B
1phc E128 – R365	+3.827	-5.742	+0.162	-1.753	-3.502	27.81	27.72	S
1phc E140 – R143	+8.073	-10.055	-3.128	-5.111	-6.165	30.51	15.51	S
1phc K178 – D182†	+12.667	-11.671	-5.866	-4.870	-4.905	8.05	26.16	B
1phc K178 – D251†	+21.288	-10.017	-20.850	-9.579	-1.835	8.05	0.00	B
1phc R186 – D251†	+17.073	-12.187	-10.278	-5.391	-4.008	7.85	0.00	B
1phc R211 – D218	+10.708	-5.125	-10.678	-5.095	-1.764	12.76	14.99	B
1phc R231 – E237	+8.171	-6.595	-7.062	-5.486	-3.559	41.19	10.63	S
1phc E262 – K266	+6.068	-2.355	-7.056	-3.343	-0.973	5.70	6.52	B
1phc E286 – R364	+8.589	-9.961	-4.627	-5.998	-6.057	23.29	25.27	S
1phc E287 – R290	+22.251	-17.776	-11.351	-6.875	-5.345	0.00	0.00	B
1phc K372 – E373	+4.991	-3.306	-3.297	-1.612	-2.289	47.90	2.80	S
1ptx E25 – K28	+1.619	-2.288	+1.111	+0.443	-1.564	10.87	67.67	S
1ptx E32 – K50	+2.627	-2.378	-2.795	-2.546	-1.781	53.95	48.98	S

Salt bridge	$\Delta\Delta G_{dslv}$	$\Delta\Delta G_{brd}$	$\Delta\Delta G_{prt}$	$\Delta\Delta G_{tot}$	$\Delta\Delta G_{assoc}$	ASA_1	ASA_2	Typ
1rcf K14 – D146	+1.813	-3.429	-0.405	-2.021	-2.643	37.74	50.59	S
1rcf E25 – K157	+0.671	-3.102	+0.137	-2.294	-2.906	19.75	56.22	S
1rcf D29 – K164	+3.409	-3.862	-2.414	-2.867	-2.549	28.72	28.96	S
1rcf D74 – K108	+4.937	-4.028	-2.528	-1.619	-2.274	53.13	14.77	S
1rie R101 – D123	+22.551	-13.306	-11.066	-1.821	-3.416	0.14	0.00	B
1rie K103 – D107	+0.864	-2.587	-0.209	-1.931	-2.319	76.44	43.43	S
1rro R75 – E81	+15.236	-11.539	-13.904	-10.207	-4.853	24.95	1.99	B
1rro K83 – D87	+0.290	-4.909	+0.332	-4.288	-4.655	67.42	65.02	S
1rro D94 – K96	+3.619	-14.363	+4.685	-6.059	-13.214	41.68	28.05	S
1ruv E2 – R10	+5.521	-13.113	-1.435	-9.026	-10.057	43.04	29.01	S
1ruv K37 – D38	+0.383	-1.830	-0.951	-2.397	-1.689	67.01	76.28	S
1ruv D83 – R85	+5.929	-1.271	-2.538	+2.120	-0.637	0.00	1.44	B
1smd R20 – D23	+10.600	-10.312	-5.348	-5.061	-4.532	21.33	2.06	B
1smd E27 – R387	+20.662	-18.170	-24.936	-22.445	-10.847	0.00	2.74	B
1smd E29 – R85	+4.405	-11.686	-0.868	-8.150	-10.531	35.17	24.28	S
1smd R56 – E60	+15.104	-16.769	-7.373	-9.038	-7.011	10.61	0.00	B
1smd D96 – R195	+21.767	-12.272	+1.068	+10.564	-3.233	0.00	0.08	B
1smd K140 – D159	+7.343	-4.219	-0.695	+2.429	-2.063	49.54	0.00	S
1smd K142 – D153	+7.639	-5.734	-7.597	-5.692	-2.735	67.36	24.84	S
1smd D173 – K213	+1.980	-4.174	-0.003	-2.196	-3.248	59.55	32.79	S
1smd D188 – H215	+2.570	-3.153	-0.499	-1.082	-1.696	43.80	47.50	S
1smd K200 – E240	+8.160	-5.532	-1.852	+0.775	-2.164	5.15	20.33	B
1smd K208 – D212	+0.895	-2.659	+0.153	-1.611	-2.507	54.46	61.00	S
1smd D236 – K243	+11.334	-6.359	-7.371	-2.396	-2.171	2.72	31.75	B
1smd K261 – E272	+7.352	-5.738	-0.239	+1.375	-2.969	27.08	13.69	S
1smd K278 – D411	+4.682	-2.323	-6.893	-4.533	-1.139	48.37	18.42	S
1smd K322 – D485	+9.124	-6.024	-4.147	-1.047	-2.244	6.04	9.43	B
1smd K352 – D356	+3.215	-2.770	-3.844	-3.400	-1.692	56.11	5.34	S
1tca K13 – D17	+4.784	-3.708	-2.985	-1.909	-1.852	58.70	37.95	S
1tca R249 – D252	+3.208	-3.596	-0.934	-1.322	-2.234	48.34	32.04	S
1yge K9 – E115	+4.701	-6.460	-0.114	-1.874	-4.034	44.34	33.87	S
1yge K17 – E106	+3.489	-3.189	-2.961	-2.662	-1.883	31.51	7.38	B
1yge R162 – E644	+16.756	-14.055	-8.064	-5.363	-5.382	1.93	5.62	B
1yge E164 – K167	+1.331	-3.204	-0.680	-2.554	-2.560	43.16	46.03	S
1yge D191 – R217	+25.330	-9.467	-25.056	-9.194	-0.600	0.11	0.00	B
1yge R203 – E554	+10.828	-8.960	-6.976	-5.108	-3.344	9.02	3.58	B
1yge R216 – D659	+10.738	-9.234	-10.936	-9.432	-4.107	11.43	20.15	B
1yge E236 – K260	+3.199	-4.190	-0.513	-1.504	-2.846	66.33	22.76	S
1yge E282 – R712	+9.599	-6.098	-3.665	-0.164	-1.565	18.10	17.17	B
1yge D343 – K483	+8.720	-5.533	-7.787	-4.601	-2.480	9.29	4.11	B
1yge E345 – R348	+22.953	-18.259	-1.811	+2.883	-9.874	0.00	0.54	B
1yge E363 – R402	+5.520	-1.430	-1.782	+2.309	-0.654	61.08	18.58	S
1yge D389 – K444†	+5.910	-3.866	-6.823	-4.779	-1.940	69.29	10.86	S
1yge D391 – R438†	+6.760	-9.650	-3.441	-6.330	-5.852	33.84	32.45	S
1yge D391 – K444†	+10.101	-5.657	-12.751	-8.307	-2.206	33.84	32.45	S
1yge R418 – D458	+5.294	-5.027	-2.191	-1.924	-3.122	34.19	26.73	S
1yge R516 – E651	+11.290	-9.065	-10.369	-8.144	-3.451	11.10	11.23	B
1yge D578 – K587	+3.780	-3.228	-0.268	+0.284	-1.896	18.32	44.77	S
1yge D584 – R588	+13.241	-12.657	-6.297	-5.714	-5.745	15.42	3.38	B
1yge D613 – R809	+21.253	-13.803	-12.793	-5.342	-4.130	0.00	0.17	B
1yge E616 – K795	+3.917	-2.567	-2.876	-1.526	-1.312	7.31	36.12	S
1yge E627 – K784	+2.809	-3.223	-0.783	-1.198	-2.206	26.07	53.92	S
1yge K650 – E654	+0.739	-3.919	+0.398	-2.782	-3.460	53.22	33.46	S

Salt bridge	$\Delta\Delta G_{dslv}$	$\Delta\Delta G_{brd}$	$\Delta\Delta G_{prt}$	$\Delta\Delta G_{tot}$	$\Delta\Delta G_{assoc}$	ASA_1	ASA_2	Typ
1yna R81 – D129	+4.340	-6.684	-0.480	-2.825	-3.653	34.28	39.67	S
2ayh D44 – K46	+1.957	-3.800	-2.472	-4.314	-3.239	69.90	22.38	S
2ayh D114 – K117	+2.954	-3.282	-4.023	-4.351	-2.399	25.98	36.56	S
2dri E26 – K29	+2.521	-2.050	-0.143	+0.328	-1.445	6.71	70.28	S
2dri K110 – D114	+3.426	-4.727	-6.557	-7.859	-3.810	36.46	27.56	S
2dri K125 – D182	+3.144	-2.065	-4.373	-3.294	-1.686	34.40	46.86	S
2dri D163 – K168	+2.218	-2.074	-2.299	-2.155	-1.488	36.46	27.56	S
2dri R166 – E192	+7.370	-10.878	-1.991	-5.499	-7.496	32.47	5.01	B
2dri K222 – D226	+1.805	-2.029	-1.975	-2.199	-1.525	61.82	48.29	S
2dri K243 – E246	+4.014	-2.561	-1.759	-0.306	-1.422	26.66	28.29	S
2dri D249 – K253	+3.765	-3.979	-2.635	-2.848	-2.899	6.68	64.41	S
2end E20 – R70	+19.907	-24.342	-7.558	-11.993	-11.191	0.43	3.30	B
2end R32 – D95	+6.078	-6.467	-5.600	-5.989	-4.022	31.70	65.38	S
2end R40 – E99	+3.381	-1.185	-4.046	-1.850	-0.450	47.77	28.83	S
2end E65 – R68	+4.140	-11.373	-1.318	-8.551	-9.256	20.19	27.68	S
2end K69 – D103	+3.689	-3.440	-4.796	-4.547	-2.507	40.16	44.80	S
2eng K21 – E82	+7.175	-1.704	-2.775	+2.696	-0.663	28.55	21.15	S
2eng E91 – R185	+3.469	-4.733	-0.652	-1.916	-3.480	8.01	47.41	S
2eng H119 – D121	+9.605	-1.794	-0.575	+7.236	-0.499	19.72	17.51	B
2eng R153 – D172	+3.639	-6.407	-0.805	-3.573	-4.405	43.78	44.98	S
2eng R201 – D203	+7.926	-6.941	-12.156	-11.170	-4.054	2.84	22.88	B
2phy E12 – K110	+7.248	-5.297	-3.946	-1.994	-2.138	17.80	8.84	B
2phy D20 – K55	+1.482	-2.950	-0.885	-2.354	-2.185	41.62	65.59	S
2phy E74 – K78	+1.956	-0.801	-2.674	-1.520	-0.548	64.65	29.53	S
3pte R29 – D31	+9.186	-8.081	+4.843	+5.948	-2.849	10.61	16.51	B
3pte D32 – R317	+8.323	-7.197	-8.037	-6.911	-4.755	16.92	2.88	B
3pte E78 – R186	+9.522	-6.189	-9.338	-6.005	-3.073	47.59	14.75	S
3pte D84 – R103	+2.824	-5.253	-0.772	-3.201	-4.563	56.84	13.02	S
3pte D97 – R99	+3.069	-3.588	-4.241	-4.761	-2.810	18.49	67.43	S
3pte R286 – D288	+6.048	-4.407	+0.273	+1.914	-2.497	16.45	26.94	S