

Supplementary Material: Adaptive Selection Algorithm for CJ

Table S.1. Representations from study 1 with the ability scores (α) and standard error of estimation (se) for each reference set (SSR) obtained from phase 1 and indicated if the representation is selected to be placed back in phase 2.

Representation	SSR								Selected
	0.50		0.70		0.80		0.91		
	α	se	α	se	α	se	α	se	
Repr_116	-5.83808	1.739065	-5.95077	1.585901	-5.99742	1.447136	-6.08355	1.095207	
Repr_22	-5.67109	2.963518	-5.51103	2.803117	-5.59324	2.073588	-5.60147	1.393934	
Repr_107	-5.28954	3.508112	-5.33728	3.054284	-5.4406	2.323831	-5.44179	1.760347	
Repr_137	-5.3161	3.916428	-5.29732	3.579589	-4.20175	1.363331	-4.94055	0.999481	
Repr_5	-5.32018	3.011912	-5.38915	2.815785	-3.61497	1.098173	-4.68167	0.895783	
Repr_18	-5.43279	3.130675	-5.27684	4.033426	-5.33241	3.278742	-4.55857	1.108201	
Repr_37	-3.28077	1.800752	-4.00002	1.358228	-4.37214	1.229672	-4.52337	1.122459	
Repr_109	-5.03247	6.192447	-5.1954	3.727376	-3.69232	1.193281	-4.08029	0.799461	
Repr_145	-5.1524	4.825264	-2.76269	1.395064	-3.90544	1.145222	-3.75194	0.797833	
Repr_49	-5.5149	2.796287	-5.52297	2.54247	-3.56811	1.068211	-3.68997	0.646923	
Repr_121	-1.62519	1.825389	-2.38778	1.221579	-2.84512	0.938076	-3.60399	0.687466	
Repr_86	-	-	-	-	-	-	-3.49401	0.770821	Selected
Repr_15	-5.54125	2.270535	-5.44075	2.296318	-5.42022	2.587798	-3.4174	0.704585	

Table S.1. (Continued 1)

Representation	SSR								Selected
	0.50		0.70		0.80		0.91		
	α	se	α	se	α	se	α	se	
Repr_133	-3.67375	1.521394	-2.8924	1.150245	-2.64119	1.004355	-3.0749	0.656319	
Repr_143	-5.44019	2.349812	-5.53277	2.044744	-3.90932	0.98727	-3.0196	0.6155	
Repr_96	-3.10545	1.790967	-2.97011	1.298932	-2.01859	0.913386	-2.90167	0.598838	
Repr_88	-1.43931	1.225411	-1.18711	1.101888	-1.32823	0.851731	-2.80996	0.677011	
Repr_83	-2.82511	1.183678	-3.48268	1.035581	-2.74961	0.810097	-2.77932	0.567758	
Repr_27	-5.07186	5.315984	-5.34405	3.186702	-5.23859	3.931174	-2.7348	0.645729	
Repr_53	-	-	-	-	-	-	-2.67719	0.589974	Selected
Repr_135	-5.43609	3.107322	-5.42119	2.281378	-3.81648	0.987209	-2.41229	0.532276	
Repr_80	-2.90009	1.510385	-2.69886	1.317912	-2.64201	0.958605	-2.40098	0.552714	
Repr_68	-3.80865	1.413764	-4.04205	1.308898	-3.36215	1.247356	-2.31805	0.596977	
Repr_139	-5.12893	4.946333	-5.20423	3.644687	-2.23145	1.064428	-2.16404	0.62908	
Repr_47	-1.22523	1.796096	-1.87241	1.56266	-1.93698	1.298692	-2.15574	0.643322	
Repr_87	-3.03675	1.254975	-1.92561	0.856296	-1.48318	0.809973	-2.13765	0.545521	
Repr_132	-3.15417	1.679571	-3.29398	1.588863	-2.82489	1.089447	-2.1198	0.592567	
Repr_45	-	-	-	-	-	-	-2.08202	0.542841	Selected
Repr_2	-0.90694	1.166849	-1.5174	0.899365	-1.76722	0.689223	-1.96944	0.532285	
Repr_11	-5.37651	2.949827	-5.30479	2.759788	-3.69138	1.038252	-1.93609	0.569167	

Table S.1. (Continued 2)

Representation	SSR								Selected
	0.50		0.70		0.80		0.91		
	α	se	α	se	α	se	α	se	
Repr_72	-1.89126	1.348819	-1.89045	1.282019	-2.46892	1.127915	-1.85352	0.572381	
Repr_43	-1.39566	1.171398	-1.65774	1.062655	-1.91304	0.85015	-1.70027	0.525457	
Repr_104	-3.16691	1.090546	-3.1459	1.091849	-2.24038	0.844296	-1.63482	0.482446	
Repr_75	-2.49603	2.427384	-2.43665	1.702623	-1.47596	0.971015	-1.63058	0.534011	
Repr_33	-2.11674	1.242377	-2.59354	1.277699	-2.06861	1.011025	-1.56896	0.523593	
Repr_115	-	-	-	-	-	-	-1.47606	0.525525	Selected
Repr_130	-1.81561	1.111302	-1.99457	1.000069	-2.45021	0.86241	-1.44953	0.500783	
Repr_160	-2.95466	1.114145	-2.68051	1.061616	-1.81905	0.854465	-1.43513	0.541773	
Repr_66	-1.52476	1.20324	-1.48024	1.104579	-0.74826	0.857241	-1.36521	0.530356	
Repr_90	-1.65058	1.580569	-1.08979	1.173325	-0.83781	0.784372	-1.35477	0.520041	
Repr_134	-5.12699	4.374381	-1.89303	1.119726	-1.95414	0.974594	-1.35293	0.491716	
Repr_153	-1.60245	1.241611	-0.65722	0.971723	-0.79273	0.773902	-1.31066	0.528099	
Repr_29	-1.75748	1.311972	-2.3369	1.261207	-2.34467	1.111943	-1.29068	0.53037	
Repr_46	-1.47343	1.031722	-1.10522	0.914516	-1.05177	0.903074	-1.25928	0.512835	
Repr_140	-0.42839	1.227871	-0.15023	1.017603	-0.29301	0.891788	-1.21649	0.495618	
Repr_35	-2.07288	1.167055	-2.05983	1.083177	-1.83101	0.754359	-1.18621	0.493512	

Table S.1. (Continued 3)

Representation	SSR								Selected
	0.50		0.70		0.80		0.91		
	α	se	α	se	α	se	α	se	
Repr_65	-1.39135	1.193971	-1.07643	0.875152	-0.96255	0.779966	-1.14153	0.482193	
Repr_138	-1.24519	1.332519	-1.70538	1.157489	-1.97054	0.872912	-1.13111	0.523865	
Repr_122	-3.20355	1.842784	-3.51055	1.669888	-1.23441	0.720767	-1.03225	0.447832	
Repr_144	0.081784	1.006457	-0.13888	0.971758	-0.31554	0.841165	-0.95986	0.469108	
Repr_148	-	-	-	-	-	-	-0.91726	0.467678	Selected
Repr_7	-1.14151	1.224169	-1.8728	1.010249	-0.87727	0.747361	-0.85383	0.446221	
Repr_111	-1.82688	1.269434	-1.76127	1.048273	-1.97682	0.9215	-0.85353	0.529821	
Repr_114	0.585095	1.064463	0.521338	1.088403	0.089981	0.901516	-0.74114	0.532804	
Repr_120	1.193619	0.992771	0.912766	0.903579	0.374986	0.796901	-0.72924	0.523471	
Repr_82	-0.99661	1.354743	0.144675	0.893586	-0.42223	0.821677	-0.67698	0.487331	
Repr_99	-0.13227	1.209387	-0.162	1.078886	0.179075	0.839044	-0.6588	0.467705	
Repr_102	-0.76058	1.226214	-0.98377	1.050052	-0.44462	0.814176	-0.57489	0.507316	
Repr_40	-	-	-	-	-	-	-0.55733	0.507838	Selected
Repr_103	-0.46217	1.008695	-0.23917	0.8774	-0.43392	0.745321	-0.55671	0.476137	
Repr_152	-1.46208	1.174606	-1.46153	1.06602	-1.13395	0.856164	-0.43757	0.49256	
Repr_91	-1.49783	1.12065	-0.95092	1.02356	-0.83475	0.767129	-0.42971	0.464994	

Table S.1. (Continued 4)

Representation	SSR								Selected
	0.50		0.70		0.80		0.91		
	α	se	α	se	α	se	α	se	
Repr_79	1.373853	1.248412	1.449986	1.189424	0.124627	0.718656	-0.41375	0.454826	
Repr_159	-1.63513	1.374654	-1.3082	1.08537	-0.23462	0.75812	-0.35435	0.453292	
Repr_149	-0.42816	0.999863	-0.92943	0.876505	-1.23838	0.699871	-0.25141	0.498812	
Repr_52	-0.38847	1.133242	-0.35779	1.010277	-0.28624	0.765611	-0.23393	0.470527	
Repr_30	-	-	-	-	-	-	-0.2125	0.512637	Selected
Repr_98	-1.67108	1.10961	-1.31355	0.891649	-0.75123	0.691764	-0.15395	0.475383	
Repr_151	-1.14106	1.190823	-0.94252	1.088746	-0.68346	0.850336	-0.14943	0.467579	
Repr_4	0.071116	1.285845	0.313497	1.057181	-0.1538	0.880937	-0.09095	0.494445	
Repr_127	-0.01862	0.993476	-0.34128	0.829785	0.113064	0.674399	-0.0846	0.442458	
Repr_78	0.631138	0.943991	0.243978	0.857438	0.299242	0.738796	-0.03122	0.431097	
Repr_14	0.155775	1.039169	-0.00711	0.869458	-0.42684	0.731131	-0.022	0.477741	
Repr_25	1.294791	1.062514	0.604499	0.913677	0.497025	0.800266	-0.01965	0.484898	
Repr_150	-	-	-	-	-	-	0.002592	0.467038	Selected
Repr_156	0.424653	0.802675	0.165206	0.717531	0.021009	0.671583	0.013509	0.448651	
Repr_38	0.574682	0.936203	0.545447	0.89532	0.259026	0.719318	0.03579	0.451787	
Repr_97	-0.70131	1.035452	-0.44611	0.907123	-0.74158	0.696091	0.056055	0.475331	

Table S.1. (Continued 5)

Representation	SSR								Selected
	0.50		0.70		0.80		0.91		
	α	se	α	se	α	se	α	se	
Repr_125	1.425122	0.898747	0.997063	0.796875	1.017939	0.713161	0.180585	0.432248	
Repr_42	0.462207	0.970377	0.159522	0.900846	-0.14815	0.725139	0.191505	0.433325	
Repr_10	0.543032	0.922246	0.377174	0.871959	0.19971	0.733615	0.197025	0.444734	
Repr_59	1.402765	1.125228	1.258121	1.051385	0.696177	0.87625	0.200749	0.503664	
Repr_126	-	-	-	-	-	-	0.262436	0.463957	Selected
Repr_39	-0.92734	1.094391	0.105707	0.829768	0.301821	0.718237	0.311022	0.449891	
Repr_24	1.043196	0.933934	1.263995	0.862332	0.782345	0.625748	0.317946	0.456314	
Repr_155	-0.07327	1.075901	-0.10226	1.048466	-0.44778	0.753731	0.330645	0.485727	
Repr_41	1.480241	1.320938	0.933478	1.00861	0.854959	0.751093	0.361371	0.479173	
Repr_28	1.317475	0.981525	0.694309	0.880517	0.541344	0.702705	0.382102	0.452627	
Repr_93	1.68057	0.996063	1.294528	0.898119	1.057434	0.850705	0.456034	0.48379	
Repr_113	-0.68171	1.333328	-0.11263	1.005613	-0.48285	0.924061	0.548649	0.448695	
Repr_112	-	-	-	-	-	-	0.550809	0.462899	Selected
Repr_21	2.576277	1.13148	2.927585	1.090274	1.554477	0.721777	0.573378	0.479266	
Repr_154	0.654351	1.06193	0.584289	0.854713	0.261246	0.775948	0.647834	0.453183	
Repr_1	0.959716	1.042732	0.810768	0.868037	0.511526	0.694354	0.676832	0.467945	

Table S.1. (Continued 6)

Representation	SSR								Selected
	0.50		0.70		0.80		0.91		
	α	se	α	se	α	se	α	se	
Repr_71	0.68777	0.925248	0.976289	0.822883	0.308258	0.685312	0.686689	0.447087	
Repr_56	1.209452	1.39503	0.721745	0.943327	1.222677	0.80037	0.712341	0.468588	
Repr_17	-0.47612	1.092006	0.445282	0.820651	0.635106	0.759171	0.725741	0.493813	
Repr_157	1.388418	0.88015	1.166773	0.79286	1.026274	0.70441	0.809569	0.446567	
Repr_74	-	-	-	-	-	-	0.8456	0.420909	Selected
Repr_26	0.478901	1.097776	0.255219	1.002361	1.026388	0.796764	0.889351	0.489882	
Repr_48	0.53678	0.983591	0.260771	0.910128	1.199782	0.689235	0.944925	0.463439	
Repr_31	0.339363	1.258047	-0.31589	1.0458	0.223122	0.876801	0.94591	0.514816	
Repr_142	0.654125	1.126448	0.267725	0.895847	0.795742	0.77205	0.969449	0.470792	
Repr_36	0.568533	1.154491	0.415543	0.903704	0.533652	0.836323	1.041758	0.539308	
Repr_16	1.927251	1.007441	1.994791	0.99366	1.634064	0.771167	1.094972	0.467276	
Repr_6	-0.51364	1.183126	-0.24721	0.954709	0.293208	0.827876	1.131318	0.478164	
Repr_23	-	-	-	-	-	-	1.133688	0.532255	Selected
Repr_76	2.093875	1.096427	2.148962	1.132825	0.761108	0.776663	1.139261	0.513039	
Repr_58	1.612467	1.061497	1.424446	0.902982	1.422876	0.753867	1.141691	0.513792	
Repr_131	2.538326	1.196519	2.795812	1.122707	2.069255	0.754241	1.171192	0.485609	

Table S.1. (Continued 7)

Representation	SSR								Selected
	0.50		0.70		0.80		0.91		
	α	se	α	se	α	se	α	se	
Repr_118	5.22525	3.819815	2.650866	1.08543	1.747329	0.838424	1.211531	0.442191	
Repr_92	2.0728	1.087623	2.034359	0.902517	1.863026	0.729434	1.212298	0.462618	
Repr_128	-1.68932	1.716351	-0.13599	1.038405	0.785901	0.794997	1.218091	0.496322	
Repr_101	0.191378	0.942178	0.797147	0.759833	0.683161	0.722852	1.224214	0.449841	
Repr_54	-	-	-	-	-	-	1.315248	0.536934	Selected
Repr_84	1.982278	0.895303	1.7379	0.749482	1.56029	0.659295	1.344419	0.428001	
Repr_64	1.285985	1.148902	1.461279	0.905695	1.081867	0.790823	1.426197	0.48876	
Repr_77	3.03983	1.140028	2.232032	0.912773	1.220442	0.751624	1.438436	0.456702	
Repr_8	0.786248	1.109343	0.94829	0.903826	1.28997	0.818682	1.447026	0.482898	
Repr_106	1.181493	0.99441	0.87997	0.85032	1.013449	0.823531	1.601076	0.470669	
Repr_129	1.225714	1.192594	1.401376	0.899203	1.282063	0.841132	1.612643	0.495864	
Repr_50	1.760916	1.005334	2.428508	0.943676	1.4298	0.717534	1.647674	0.499347	
Repr_55	-	-	-	-	-	-	1.669627	0.481483	Selected
Repr_63	2.609821	0.853736	2.926314	0.857211	1.816791	0.698217	1.702066	0.489044	
Repr_60	2.497628	1.071146	1.611611	0.815321	1.435685	0.724597	1.710137	0.481267	
Repr_20	1.022851	1.18829	1.989837	0.893498	1.657418	0.751171	1.711226	0.481615	

Table S.1. (Continued 8)

Representation	SSR								Selected
	0.50		0.70		0.80		0.91		
	α	se	α	se	α	se	α	se	
Repr_61	2.987991	1.217163	3.029872	1.157073	3.371614	1.128161	1.716101	0.505423	
Repr_158	1.846859	1.231949	1.294041	0.99855	0.905706	0.774665	1.717894	0.459202	
Repr_9	0.870774	0.887867	1.038871	0.85684	1.421807	0.733723	1.772865	0.540115	
Repr_12	2.573507	1.059661	2.800033	1.015995	2.281762	0.756402	1.795677	0.467339	
Repr_146	-	-	-	-	-	-	1.836554	0.461727	Selected
Repr_108	2.202087	0.865384	2.29853	0.856882	2.287943	0.848555	1.859881	0.491269	
Repr_70	1.891394	0.993731	2.00265	1.028317	2.087824	0.745931	1.983245	0.483184	
Repr_123	2.558498	1.123592	1.746965	0.878494	1.702547	0.756194	1.983497	0.502237	
Repr_89	1.627127	1.427247	0.630142	0.960788	1.645278	0.826145	1.9843	0.54186	
Repr_124	2.091054	1.31759	1.323804	0.99076	1.90247	0.906389	2.001694	0.560922	
Repr_62	1.459166	1.071827	2.115283	0.886694	2.39515	0.769737	2.072017	0.497456	
Repr_19	3.007253	1.150014	3.378828	1.089552	3.703023	1.038397	2.103906	0.472326	
Repr_32	-	-	-	-	-	-	2.191434	0.475994	Selected
Repr_13	5.249852	6.31556	5.306156	3.987638	2.92354	1.278542	2.274644	0.627315	
Repr_141	0.703818	1.022202	1.226881	0.777469	1.658513	0.716201	2.277861	0.53753	
Repr_85	2.5421	1.091105	2.859055	1.060004	3.169545	1.034863	2.415063	0.499694	

Table S.1. (Continued 9)

Representation	SSR								Selected
	0.50		0.70		0.80		0.91		
	α	se	α	se	α	se	α	se	
Repr_136	2.222734	0.893727	2.207026	0.897169	2.382005	0.899745	2.533206	0.552831	
Repr_95	5.063771	6.260432	2.421808	1.136744	2.927992	1.129843	2.579588	0.603519	
Repr_81	5.375435	3.954267	5.304121	3.75798	3.636709	1.063612	2.59994	0.58852	
Repr_105	2.500948	1.097351	2.889653	1.021422	2.923679	1.070536	2.677174	0.555308	
Repr_117	-	-	-	-	-	-	2.708333	0.53819	Selected
Repr_67	3.669168	1.480844	3.845092	1.34816	4.32569	1.220882	2.846199	0.571097	
Repr_73	2.322595	1.15301	2.084241	0.863864	2.439837	0.806359	2.926402	0.57116	
Repr_147	2.500433	1.076144	2.392268	1.064418	2.969621	1.026	2.95214	0.642616	
Repr_34	2.43851	1.080334	2.942457	1.033651	3.657816	1.046278	2.971257	0.667887	
Repr_44	5.321482	3.69301	3.563686	1.581422	3.224222	1.218003	3.004027	0.604496	
Repr_69	1.729397	1.240927	2.601973	0.955714	3.180804	0.845349	3.200805	0.56843	
Repr_94	2.664387	0.997263	2.959147	0.973407	2.749533	0.863521	3.278926	0.638109	
Repr_57	-	-	-	-	-	-	3.561067	0.630996	Selected
Repr_51	3.15115	1.761269	3.673606	1.448935	3.939347	1.379246	3.668319	0.739005	
Repr_3	5.477876	2.685135	5.722949	2.116726	4.015111	1.033505	4.101529	0.678095	
Repr_119	5.653779	2.564759	5.677861	2.394808	5.747117	2.152207	4.366865	0.901843	

Table S.2. Generating ability values (α) for the simulation study and if the ability values are selected to be placed back (Selected).

Ability ID	α	Selected
Abil_192	-6,05421	
Abil_181	-5,79231	
Abil_004	-4,97288	Selected
Abil_037	-4,62168	
Abil_200	-4,40586	Selected
Abil_138	-4,13028	
Abil_174	-3,86314	Selected
Abil_051	-3,82879	
Abil_135	-3,49821	
Abil_035	-3,45368	
Abil_214	-3,40701	Selected
Abil_128	-3,20817	
Abil_026	-3,07019	
Abil_077	-2,94829	
Abil_083	-2,90928	
Abil_038	-2,84291	Selected
Abil_048	-2,65421	

Table S.2. (Continued 1)

Ability ID	α	Selected
Abil_117	-2,63789	
Abil_001	-2,55898	
Abil_090	-2,5324	
Abil_133	-2,48453	
Abil_036	-2,47535	
Abil_060	-2,45455	
Abil_067	-2,41385	
Abil_097	-2,40537	
Abil_177	-2,38238	
Abil_210	-2,36263	
Abil_113	-2,35271	
Abil_053	-2,35085	
Abil_047	-2,34751	Selected
Abil_042	-2,26552	
Abil_158	-2,23317	
Abil_028	-2,17015	
Abil_054	-2,15172	

Table S.2. (Continued 2)

Ability ID	α	Selected
Abil_012	-2,11658	
Abil_045	-2,108	
Abil_046	-2,05325	
Abil_198	-2,04771	
Abil_030	-1,98421	
Abil_018	-1,93173	
Abil_107	-1,90008	
Abil_010	-1,88688	
Abil_154	-1,85626	
Abil_159	-1,84394	
Abil_043	-1,81337	
Abil_161	-1,79638	
Abil_176	-1,77567	Selected
Abil_019	-1,7748	
Abil_105	-1,75112	
Abil_193	-1,67405	
Abil_122	-1,65764	
Abil_013	-1,64566	

Table S.2. (Continued 3)

Ability ID	α	Selected
Abil_058	-1,63951	
Abil_078	-1,53399	
Abil_033	-1,50401	
Abil_025	-1,47069	
Abil_064	-1,41962	
Abil_112	-1,37603	
Abil_129	-1,34853	
Abil_127	-1,33859	
Abil_140	-1,32049	
Abil_218	-1,28504	
Abil_052	-1,234	Selected
Abil_007	-1,21845	
Abil_009	-1,19664	
Abil_008	-1,15886	
Abil_191	-1,14071	
Abil_049	-1,11052	
Abil_017	-1,08334	
Abil_188	-1,07852	
Abil_104	-1,06525	

Table S.2. (Continued 4)

Ability ID	α	Selected
Abil_034	-1,06267	
Abil_050	-1,05332	
Abil_095	-1,05064	
Abil_022	-1,04025	
Abil_011	-1,01165	
Abil_032	-1,00826	
Abil_102	-1,0064	
Abil_040	-0,9877	
Abil_072	-0,96559	
Abil_023	-0,93396	
Abil_215	-0,88139	
Abil_163	-0,87857	
Abil_088	-0,85379	
Abil_212	-0,8485	
Abil_160	-0,82707	
Abil_151	-0,79974	
Abil_073	-0,77703	
Abil_136	-0,77561	

Table S.2. (Continued 5)

Ability ID	α	Selected
Abil_141	-0,70816	Selected
Abil_173	-0,70523	
Abil_169	-0,68018	
Abil_080	-0,67217	
Abil_137	-0,67017	
Abil_219	-0,64601	
Abil_039	-0,6239	
Abil_044	-0,59492	
Abil_162	-0,55256	
Abil_157	-0,4974	
Abil_190	-0,42064	
Abil_111	-0,41538	
Abil_089	-0,40618	
Abil_121	-0,40575	
Abil_164	-0,38807	
Abil_081	-0,37691	
Abil_084	-0,36843	
Abil_082	-0,36039	

Table S.2. (Continued 6)

Ability ID	α	Selected
Abil_055	-0,3441	
Abil_076	-0,3252	
Abil_217	-0,32168	
Abil_016	-0,23381	
Abil_144	-0,22988	
Abil_182	-0,21156	Selected
Abil_168	-0,14563	
Abil_091	-0,1127	
Abil_110	-0,11046	
Abil_063	-0,07369	
Abil_180	-0,07051	
Abil_120	-0,05571	
Abil_029	-0,03209	
Abil_065	-0,01612	
Abil_071	0,014613	
Abil_115	0,047409	
Abil_209	0,069248	
Abil_172	0,091677	

Table S.2. (Continued 7)

Ability ID	α	Selected
Abil_014	0,136653	
Abil_103	0,139906	
Abil_126	0,169726	
Abil_152	0,206953	
Abil_155	0,258131	
Abil_021	0,284267	
Abil_199	0,344828	Selected
Abil_106	0,354017	
Abil_108	0,356553	
Abil_118	0,358336	
Abil_203	0,39329	
Abil_130	0,479759	
Abil_179	0,498245	
Abil_132	0,53583	
Abil_092	0,541016	
Abil_079	0,547515	
Abil_148	0,584894	
Abil_002	0,58815	

Table S.2. (Continued 8)

Ability ID	α	Selected
Abil_205	0,660764	
Abil_070	0,713322	
Abil_150	0,73681	
Abil_109	0,752533	
Abil_096	0,753767	
Abil_146	0,846456	
Abil_165	0,862959	
Abil_184	0,877402	Selected
Abil_101	0,87879	
Abil_211	0,886283	
Abil_216	0,894658	
Abil_005	0,909744	
Abil_024	0,97433	
Abil_201	1,028681	
Abil_194	1,034167	
Abil_196	1,061473	
Abil_006	1,072838	
Abil_149	1,073298	

Table S.2. (Continued 9)

Ability ID	α	Selected
Abil_145	1,089177	
Abil_087	1,165994	
Abil_056	1,193678	
Abil_027	1,218482	
Abil_197	1,314846	
Abil_166	1,324222	
Abil_220	1,334617	
Abil_143	1,34975	
Abil_074	1,374368	
Abil_061	1,391968	Selected
Abil_134	1,417674	
Abil_119	1,427113	
Abil_202	1,47715	
Abil_086	1,47893	
Abil_204	1,485555	
Abil_189	1,492862	
Abil_124	1,591063	
Abil_206	1,61218	

Table S.2. (Continued 10)

Ability ID	α	Selected
Abil_116	1,762018	
Abil_114	1,800461	
Abil_085	1,802492	
Abil_098	1,861792	
Abil_185	1,934123	Selected
Abil_139	1,950522	
Abil_015	2,034127	
Abil_099	2,062584	
Abil_183	2,069187	
Abil_094	2,123208	
Abil_131	2,149024	
Abil_003	2,299015	
Abil_031	2,336871	
Abil_208	2,358209	
Abil_187	2,47851	Selected
Abil_069	2,818677	
Abil_156	2,887717	
Abil_068	2,899794	

Table S.2. (Continued 11)

Ability ID	α	Selected
Abil_142	2,957714	
Abil_175	2,991876	Selected
Abil_041	3,072932	
Abil_170	3,118532	
Abil_213	3,166205	
Abil_059	3,404528	
Abil_153	3,474139	
Abil_057	3,493373	
Abil_147	3,525256	Selected
Abil_167	3,557796	
Abil_171	3,613178	
Abil_093	3,616644	
Abil_066	3,767419	
Abil_125	3,867322	
Abil_207	3,906023	
Abil_186	4,205512	Selected
Abil_123	4,363303	
Abil_075	4,388974	

Table S.2. (Continued 12)

Ability ID	α	Selected
Abil_100	4,496768	
Abil_195	4,596229	Selected
Abil_020	5,121571	Selected
Abil_062	5,403861	
Abil_178	6,452784	