

Supplementary Tables

Table S1. Features of previously detected 2HOM blocks (Martens and Van de Peer 2010). TE-containing blocks include at least one gene showing significant similarity to the Repbase transposable element database (Jurka et al. 2005).

Species	2HOM blocks	TE-containing	>2 copies	Same scaffold	Non-TE, 2 copies, different scaffolds
<i>P. infestans</i>	253	50	60	65	119
<i>P. ramorum</i>	128	11	22	61	48
<i>P. sojae</i>	207	52	32	81	65

Table S2. All 2HOM blocks found by Martens and van de Peer (2010) and their presence or absence in our dataset. Our method of block detection yielded 345 out of 587 blocks. If a 2HOM block is missing, the cause of this absence is given in this table; the majority of the missing blocks (197) can be explained by our stringent protein family interference (see Supplementary Materials & Methods, here referred to as ‘dissimilar families’). Alternatively, a 2HOM block is not detected because the most recent genome version no longer includes one or both genes constituting the block (42 cases, ‘gene missing’). Lastly, three 2HOM blocks were not detected because the protein families we constructed consider both genes constituting the block to be part of the same family. Presence or absence of the individual 2HOM block copies is also recorded. In some instances, a 2HOM block is found, but with one or more copies found on a different location (‘Present (diff. copies)’).

2HOM block	Comparison 2HOM	Comparison copies	Gene1	Family1	Gene2	Family2
BlockID: Pin_1	Dissimilar families					
		Block DOES NOT EXIST	PITG_01491	Family13447	PITG_01492	Family12397
		Block DOES NOT EXIST	PITG_20486	Family11771	PITG_20487	Family16368
BlockID: Pin_10	Present					
		Block EXISTS	PITG_06546	Family1855	PITG_06547	Family4710
		Block EXISTS	PITG_15081	Family1855	PITG_15082	Family4710
BlockID: Pin_100	Present					
		Block EXISTS	PITG_14782	Family374	PITG_14783	Family16976
		Block EXISTS	PITG_14787	Family16976	PITG_14788	Family374
BlockID: Pin_101	Dissimilar families					
		Block DOES NOT EXIST	PITG_00725	Family1546	PITG_00726	Family6057
		Block DOES NOT EXIST	PITG_00742	Family18065	PITG_00743	Family12988
BlockID: Pin_102	Present					
		Block EXISTS	PITG_09522	Family4367	PITG_09523	Family2094
		Block EXISTS	PITG_09629	Family2094	PITG_09630	Family4367
BlockID: Pin_103	Dissimilar families					
		Block EXISTS	PITG_11941	Family187	PITG_11942	Family412
		Block DOES NOT EXIST	PITG_11956	Family1520	PITG_11957	Family8650
BlockID: Pin_104	Dissimilar families					
		Block DOES NOT EXIST	PITG_15815	Family6	PITG_15817	Family4156
		Block DOES NOT EXIST	PITG_19676	Family28623	PITG_19677	Family6
BlockID: Pin_105	Present					
		Block DOES NOT EXIST	PITG_14533	Family11906	PITG_14534	Family680
		Block EXISTS	PITG_14543	Family15981	PITG_14546	Family680
		Block EXISTS	PITG_15511	Family680	PITG_15512	Family15981
BlockID: Pin_106	Present					
		Block EXISTS	PITG_05056	Family1782	PITG_22753	Family12051
		Block DOES NOT EXIST	PITG_16555	Family1782	PITG_23078	Family544
		Block EXISTS	PITG_17201	Family1782	PITG_23105	Family12051
		Block EXISTS	PITG_19371	Family1782	PITG_19372	Family12051
BlockID: Pin_107	Dissimilar families					
		Block DOES NOT EXIST	PITG_07589	Family7386	PITG_07591	Family30
		Block DOES NOT EXIST	PITG_18613	Family81	PITG_18614	Family28568
BlockID: Pin_108	Present					
		Block EXISTS	PITG_14037	Family12186	PITG_14038	Family968
		Block EXISTS	PITG_16303	Family968	PITG_16304	Family12186
BlockID: Pin_109	Present					
		Block EXISTS	PITG_12082	Family6904	PITG_23274	Family435
		Block EXISTS	PITG_16579	Family6904	PITG_23082	Family721
		Block EXISTS	PITG_16585	Family435	PITG_16586	Family6904
		Block EXISTS	PITG_16608	Family6904	PITG_16609	Family721
		Block DOES NOT EXIST	PITG_16616	Family8058	PITG_16617	Family6904
		Block EXISTS	PITG_20162	Family6904	PITG_20163	Family435
BlockID: Pin_11	Present					
		Block EXISTS	PITG_10324	Family5809	PITG_10325	Family6924
		Block EXISTS	PITG_19245	Family6924	PITG_19247	Family5809
BlockID: Pin_110	Present					
		Block EXISTS	PITG_03551	Family203	PITG_03552	Family194
		Block EXISTS	PITG_05675	Family203	PITG_05676	Family194
BlockID: Pin_111	Dissimilar families					

	Block DOES NOT EXIST	PITG_19552	Family4697	PITG_19553	Family13090
	Block DOES NOT EXIST	PITG_19554	Family92	PITG_19555	Family12391
BlockID: Pin_112	Present				
	Block EXISTS	PITG_10320	Family58	PITG_10321	Family4619
	Block EXISTS	PITG_19249	Family4619	PITG_19250	Family58
BlockID: Pin_113	Dissimilar families				
	Block DOES NOT EXIST	PITG_12627	Family1560	PITG_12629	Family28294
	Block DOES NOT EXIST	PITG_16601	Family11865	PITG_16603	Family435
BlockID: Pin_114	Present				
	Block EXISTS	PITG_03216	Family13502	PITG_22715	Family2036
	Block EXISTS	PITG_06505	Family2036	PITG_06506	Family13502
BlockID: Pin_115	Present				
	Block EXISTS	PITG_12706	Family12078	PITG_12707	Family10863
	Block EXISTS	PITG_15453	Family10863	PITG_15454	Family12078
BlockID: Pin_116	Present				
	Block EXISTS	PITG_07367	Family113	PITG_07371	Family491
	Block EXISTS	PITG_12757	Family491	PITG_12758	Family113
BlockID: Pin_117	Dissimilar families				
	Block DOES NOT EXIST	PITG_10331	Family2772	PITG_10332	Family28165
	Block DOES NOT EXIST	PITG_19239	Family11634	PITG_19240	Family2772
BlockID: Pin_118	Dissimilar families				
	Block DOES NOT EXIST	PITG_09456	Family611	PITG_09457	Family52
	Block DOES NOT EXIST	PITG_09459	Family611	PITG_22888	Family9350
BlockID: Pin_119	Present				
	Block EXISTS	PITG_10333	Family2500	PITG_10334	Family2072
	Block EXISTS	PITG_19235	Family2072	PITG_19237	Family2500
BlockID: Pin_12	Present				
	Block EXISTS	PITG_07651	Family2405	PITG_07652	Family245
	Block EXISTS	PITG_18687	Family245	PITG_18688	Family2405
BlockID: Pin_120	Present				
	Block EXISTS	PITG_03538	Family213	PITG_03540	Family162
	Block EXISTS	PITG_03542	Family162	PITG_03543	Family213
BlockID: Pin_121	Present				
	Block EXISTS	PITG_03438	Family2227	PITG_03439	Family104
	Block EXISTS	PITG_03442	Family104	PITG_03443	Family2227
BlockID: Pin_122	Dissimilar families				
	Block DOES NOT EXIST	PITG_01685	Family1185	PITG_01686	Family18075
	Block DOES NOT EXIST	PITG_16306	Family12281	PITG_16307	Family12432
	Block DOES NOT EXIST	PITG_18887	Family12281	PITG_18888	Family17330
BlockID: Pin_123	Present				
	Block EXISTS	PITG_15003	Family2538	PITG_15004	Family21
	Block EXISTS	PITG_18261	Family21	PITG_18262	Family95
	Block EXISTS	PITG_18263	Family21	PITG_18265	Family2538
BlockID: Pin_124	Present				
	Block EXISTS	PITG_12497	Family7344	PITG_12498	Family6743
	Block EXISTS	PITG_21211	Family6743	PITG_21212	Family7344
BlockID: Pin_125	Present				
	Block EXISTS	PITG_17351	Family6155	PITG_17352	Family11948
	Block EXISTS	PITG_20726	Family11948	PITG_20727	Family6155
BlockID: Pin_126	Present				
	Block EXISTS	PITG_02616	Family224	PITG_02617	Family9702
	Block EXISTS	PITG_21763	Family9702	PITG_21764	Family224
BlockID: Pin_127	Present				
	Block EXISTS	PITG_05019	Family9155	PITG_05020	Family2586
	Block DOES NOT EXIST	PITG_14327	Family2586	PITG_14328	Family691
	Block EXISTS	PITG_17180	Family9155	PITG_17181	Family2586
	Block EXISTS	PITG_18563	Family9155	PITG_18564	Family2586
BlockID: Pin_128	Dissimilar families				
	Block EXISTS	PITG_07727	Family1036	PITG_07728	Family239
	Block DOES NOT EXIST	PITG_20012	Family28644	PITG_20013	Family4613

BlockID: Pin_129	Dissimilar families					
		Block DOES NOT EXIST	PITG_15392	Family441	PITG_15393	Family3441
		Block DOES NOT EXIST	PITG_21283	Family28720	PITG_21284	Family28721
BlockID: Pin_13	Present (diff. copies)					
		Block DOES NOT EXIST	PITG_18663	Family1970	PITG_18664	Family14489
		Block EXISTS	PITG_20859	Family14489	PITG_23194	Family12441
BlockID: Pin_130	Dissimilar families					
		Block DOES NOT EXIST	PITG_09531	Family5744	PITG_09532	Family28121
		Block DOES NOT EXIST	PITG_09533	Family28122	PITG_09534	Family5744
BlockID: Pin_131	Dissimilar families					
		Block DOES NOT EXIST	PITG_15479	Family15412	PITG_15480	Family72
		Block DOES NOT EXIST	PITG_16817	Family72	PITG_16818	Family3361
BlockID: Pin_132	Dissimilar families					
		Block DOES NOT EXIST	PITG_16068	Family10529	PITG_16069	Family937
		Block DOES NOT EXIST	PITG_16074	Family937	PITG_16075	Family17563
BlockID: Pin_133	Dissimilar families					
		Block DOES NOT EXIST	PITG_18140	Family555	PITG_18141	Family10303
		Block DOES NOT EXIST	PITG_18142	Family1153	PITG_18144	Family555
BlockID: Pin_134	Present					
		Block DOES NOT EXIST	PITG_09053	Family555	PITG_09054	Family18143
		Block EXISTS	PITG_18137	Family555	PITG_23120	Family14487
		Block EXISTS	PITG_18145	Family555	PITG_18147	Family14487
BlockID: Pin_135	Dissimilar families					
		Block DOES NOT EXIST	PITG_15116	Family78	PITG_15117	Family116
		Block DOES NOT EXIST	PITG_15118	Family13918	PITG_15119	Family78
BlockID: Pin_136	Present					
		Block EXISTS	PITG_00099	Family6901	PITG_00100	Family512
		Block EXISTS	PITG_00104	Family512	PITG_00106	Family6901
		Block EXISTS	PITG_06145	Family512	PITG_06146	Family6901
		Block EXISTS	PITG_06155	Family6901	PITG_06156	Family512
		Block EXISTS	PITG_06161	Family6901	PITG_06162	Family512
		Block EXISTS	PITG_06166	Family6901	PITG_06167	Family512
BlockID: Pin_137	Dissimilar families					
		Block DOES NOT EXIST	PITG_18151	Family320	PITG_18152	Family16199
		Block DOES NOT EXIST	PITG_18984	Family18067	PITG_23149	Family320
BlockID: Pin_138	Present					
		Block EXISTS	PITG_05097	Family4647	PITG_22756	Family111
		Block EXISTS	PITG_19230	Family4647	PITG_19231	Family111
BlockID: Pin_139	Present					
		Block EXISTS	PITG_13044	Family1998	PITG_13045	Family10140
		Block EXISTS	PITG_13047	Family10140	PITG_13048	Family1998
BlockID: Pin_14	Present					
		Block EXISTS	PITG_14493	Family14477	PITG_14494	Family11019
		Block EXISTS	PITG_19491	Family11019	PITG_19492	Family14477
BlockID: Pin_140	Dissimilar families					
		Block DOES NOT EXIST	PITG_03905	Family9593	PITG_03906	Family9683
		Block DOES NOT EXIST	PITG_17637	Family7424	PITG_17638	Family9593
BlockID: Pin_141	Present					
		Block EXISTS	PITG_03439	Family104	PITG_03440	Family563
		Block EXISTS	PITG_03441	Family563	PITG_03442	Family104
BlockID: Pin_142	Dissimilar families					
		Block DOES NOT EXIST	PITG_16507	Family368	PITG_16510	Family70
		Block DOES NOT EXIST	PITG_18068	Family10302	PITG_18069	Family41
BlockID: Pin_143	Dissimilar families					
		Block DOES NOT EXIST	PITG_16230	Family70	PITG_16233	Family2866
		Block DOES NOT EXIST	PITG_16418	Family2866	PITG_16420	Family11825
BlockID: Pin_144	Present					
		Block EXISTS	PITG_16167	Family70	PITG_16168	Family243
		Block DOES NOT EXIST	PITG_16169	Family418	PITG_16170	Family70
		Block EXISTS	PITG_16176	Family243	PITG_16177	Family70

	Block EXISTS	PITG_18800	Family243	PITG_18801	Family70
BlockID: Pin_145	Dissimilar families				
	Block DOES NOT EXIST	PITG_16422	Family16952	PITG_23074	Family9770
	Block DOES NOT EXIST	PITG_20933	Family16952	PITG_20934	Family2866
BlockID: Pin_146	Present				
	Block EXISTS	PITG_16564	Family9456	PITG_16565	Family14417
	Block EXISTS	PITG_18109	Family9456	PITG_18110	Family14417
	Block DOES NOT EXIST	PITG_18350	Family9456	PITG_18351	Family18147
BlockID: Pin_147	Dissimilar families				
	Block DOES NOT EXIST	PITG_10334	Family2072	PITG_10335	Family28166
	Block DOES NOT EXIST	PITG_19234	Family3967	PITG_19235	Family2072
BlockID: Pin_148	Dissimilar families				
	Block DOES NOT EXIST	PITG_07995	Family160	PITG_07996	Family115
	Block DOES NOT EXIST	PITG_19212	Family115	PITG_19213	Family245
BlockID: Pin_149	Present				
	Block EXISTS	PITG_14650	Family18203	PITG_14651	Family1921
	Block EXISTS	PITG_14652	Family1921	PITG_14653	Family18203
BlockID: Pin_15	Present				
	Block EXISTS	PITG_03215	Family2038	PITG_03216	Family13502
	Block EXISTS	PITG_06506	Family13502	PITG_06507	Family2038
BlockID: Pin_150	Present				
	Block EXISTS	PITG_06834	Family540	PITG_06835	Family2132
	Block EXISTS	PITG_20710	Family2132	PITG_20711	Family540
BlockID: Pin_151	Present				
	Block EXISTS	PITG_11139	Family223	PITG_11140	Family289
	Block EXISTS	PITG_12940	Family223	PITG_12941	Family289
BlockID: Pin_152	Present				
	Block EXISTS	PITG_07822	Family4836	PITG_07823	Family772
	Block EXISTS	PITG_07874	Family772	PITG_07875	Family4836
BlockID: Pin_153	Dissimilar families				
	Block DOES NOT EXIST	PITG_13955	Family920	PITG_13956	Family2869
	Block DOES NOT EXIST	PITG_13957	Family10186	PITG_23009	Family2869
BlockID: Pin_154	Present				
	Block EXISTS	PITG_13693	Family1185	PITG_13695	Family232
	Block DOES NOT EXIST	PITG_17531	Family232	PITG_17535	Family14234
	Block EXISTS	PITG_17537	Family232	PITG_17538	Family1185
BlockID: Pin_155	Present				
	Block EXISTS	PITG_13689	Family232	PITG_13690	Family968
	Block EXISTS	PITG_13696	Family232	PITG_13697	Family968
	Block EXISTS	PITG_17517	Family232	PITG_17518	Family968
BlockID: Pin_156	Dissimilar families				
	Block DOES NOT EXIST	PITG_16309	Family9613	PITG_16310	Family17378
	Block DOES NOT EXIST	PITG_18319	Family17002	PITG_18320	Family9613
BlockID: Pin_157	Present				
	Block EXISTS	PITG_13112	Family53	PITG_13113	Family77
	Block EXISTS	PITG_20342	Family53	PITG_20344	Family77
BlockID: Pin_158	Present				
	Block EXISTS	PITG_02613	Family17447	PITG_02614	Family10579
	Block EXISTS	PITG_21766	Family10579	PITG_21767	Family17447
BlockID: Pin_159	Present				
	Block EXISTS	PITG_05707	Family1090	PITG_05708	Family7890
	Block EXISTS	PITG_18381	Family7890	PITG_18382	Family1090
BlockID: Pin_16	Present				
	Block EXISTS	PITG_00729	Family18064	PITG_00730	Family11791
	Block EXISTS	PITG_00735	Family11791	PITG_00737	Family18064
BlockID: Pin_160	Present				
	Block EXISTS	PITG_04728	Family12401	PITG_04729	Family1550
	Block EXISTS	PITG_04747	Family1550	PITG_04748	Family12401
BlockID: Pin_161	Present				
	Block EXISTS	PITG_04432	Family12401	PITG_04434	Family12402

	Block EXISTS	PITG_04436	Family12402	PITG_04437	Family12401
BlockID: Pin_162	Dissimilar families				
	Block DOES NOT EXIST	PITG_14480	Family32	PITG_14481	Family515
	Block DOES NOT EXIST	PITG_14487	Family515	PITG_14488	Family28364
BlockID: Pin_163	Dissimilar families				
	Block DOES NOT EXIST	PITG_16247	Family7856	PITG_16248	Family9770
	Block DOES NOT EXIST	PITG_16424	Family9755	PITG_16425	Family7856
	Block DOES NOT EXIST	PITG_20934	Family2866	PITG_20935	Family16761
BlockID: Pin_164	Dissimilar families				
	Block DOES NOT EXIST	PITG_08422	Family25	PITG_08423	Family675
	Block DOES NOT EXIST	PITG_10475	Family9240	PITG_10476	Family1331
BlockID: Pin_165	Present				
	Block EXISTS	PITG_01459	Family432	PITG_01460	Family521
	Block EXISTS	PITG_04318	Family432	PITG_04319	Family521
	Block EXISTS	PITG_13964	Family432	PITG_13965	Family521
BlockID: Pin_166	Dissimilar families				
	Block DOES NOT EXIST	PITG_00421	Family10893	PITG_00422	Family3634
	Block DOES NOT EXIST	PITG_21329	Family3634	PITG_21330	Family14208
BlockID: Pin_167	Present				
	Block EXISTS	PITG_16239	Family11103	PITG_23069	Family9770
	Block EXISTS	PITG_16421	Family11103	PITG_23074	Family9770
BlockID: Pin_168	Present				
	Block EXISTS	PITG_16233	Family2866	PITG_16234	Family2843
	Block DOES NOT EXIST	PITG_16240	Family2866	PITG_16241	Family18215
	Block EXISTS	PITG_16245	Family2866	PITG_16246	Family2843
	Block EXISTS	PITG_16408	Family18215	PITG_16409	Family9755
	Block EXISTS	PITG_16426	Family2843	PITG_16427	Family2866
	Block EXISTS	PITG_20936	Family2866	PITG_20937	Family2843
BlockID: Pin_169	Dissimilar families				
	Block DOES NOT EXIST	PITG_10111	Family433	PITG_10112	Family15660
	Block DOES NOT EXIST	PITG_10113	Family6891	PITG_23319	Family9194
	Block DOES NOT EXIST	PITG_20942	Family6891	PITG_20943	Family433
BlockID: Pin_17	Present				
	Block EXISTS	PITG_01008	Family11003	PITG_01009	Family14417
	Block DOES NOT EXIST	PITG_09358	Family18147	PITG_09359	Family11003
	Block EXISTS	PITG_16565	Family14417	PITG_16566	Family11003
	Block EXISTS	PITG_18110	Family14417	PITG_18111	Family11003
BlockID: Pin_170	Present				
	Block EXISTS	PITG_09521	Family2649	PITG_09522	Family4367
	Block EXISTS	PITG_09630	Family4367	PITG_09631	Family2649
BlockID: Pin_171	Present				
	Block EXISTS	PITG_04184	Family2	PITG_04185	Family6955
	Block EXISTS	PITG_20502	Family6955	PITG_20503	Family2
BlockID: Pin_172	Dissimilar families				
	Block DOES NOT EXIST	PITG_09795	Family2739	PITG_09796	Family2724
	Block DOES NOT EXIST	PITG_10219	Family2724	PITG_10220	Family28158
BlockID: Pin_173	Present				
	Block EXISTS	PITG_09777	Family14461	PITG_09778	Family17008
	Block EXISTS	PITG_10610	Family17008	PITG_10611	Family14461
BlockID: Pin_174	Dissimilar families				
	Block DOES NOT EXIST	PITG_14716	Family853	PITG_14717	Family17759
	Block EXISTS	PITG_19484	Family206	PITG_19485	Family853
BlockID: Pin_175	Present				
	Block EXISTS	PITG_06840	Family10065	PITG_06841	Family2422
	Block EXISTS	PITG_20706	Family2422	PITG_20707	Family10065
BlockID: Pin_176	Present				
	Block EXISTS	PITG_02617	Family9702	PITG_02618	Family10759
	Block EXISTS	PITG_21762	Family10759	PITG_21763	Family9702
BlockID: Pin_177	Dissimilar families				
	Block DOES NOT EXIST	PITG_12382	Family697	PITG_22961	Family18243

	Block DOES NOT EXIST	PITG_12403	Family28286	PITG_12404	Family697
	Block DOES NOT EXIST	PITG_12405	Family1879	PITG_12409	Family697
BlockID: Pin_178	Present				
	Block EXISTS	PITG_10318	Family10180	PITG_10320	Family58
	Block EXISTS	PITG_19250	Family58	PITG_19251	Family10180
BlockID: Pin_179	Present				
	Block EXISTS	PITG_10321	Family4619	PITG_10322	Family481
	Block EXISTS	PITG_19248	Family481	PITG_19249	Family4619
BlockID: Pin_18	Present				
	Block EXISTS	PITG_07598	Family727	PITG_07599	Family1251
	Block EXISTS	PITG_18606	Family1251	PITG_18607	Family727
BlockID: Pin_180	Dissimilar families				
	Block DOES NOT EXIST	PITG_12494	Family3549	PITG_12495	Family10192
	Block DOES NOT EXIST	PITG_21214	Family7696	PITG_21215	Family3549
BlockID: Pin_181	Dissimilar families				
	Block DOES NOT EXIST	PITG_07599	Family1251	PITG_07600	Family23853
	Block DOES NOT EXIST	PITG_18605	Family13619	PITG_18606	Family1251
BlockID: Pin_182	Present				
	Block DOES NOT EXIST	PITG_05062	Family803	PITG_05063	Family1928
	Block EXISTS	PITG_16557	Family803	PITG_16558	Family41
	Block EXISTS	PITG_16559	Family41	PITG_16561	Family803
BlockID: Pin_183	Present				
	Block EXISTS	PITG_10429	Family42	PITG_10430	Family120
	Block EXISTS	PITG_10437	Family120	PITG_10438	Family42
BlockID: Pin_184	Dissimilar families				
	Block DOES NOT EXIST	PITG_05806	Family1001	PITG_05807	Family27942
	Block DOES NOT EXIST	PITG_17477	Family28510	PITG_17478	Family28511
BlockID: Pin_185	Present				
	Block EXISTS	PITG_01890	Family805	PITG_01891	Family275
	Block EXISTS	PITG_02296	Family275	PITG_02297	Family805
	Block EXISTS	PITG_05028	Family805	PITG_05029	Family275
	Block DOES NOT EXIST	PITG_05052	Family805	PITG_05053	Family17545
	Block EXISTS	PITG_09331	Family805	PITG_09332	Family275
	Block EXISTS	PITG_16148	Family805	PITG_16149	Family275
	Block EXISTS	PITG_18558	Family805	PITG_18559	Family275
BlockID: Pin_186	Dissimilar families				
	Block DOES NOT EXIST	PITG_00229	Family151	PITG_00230	Family5229
	Block DOES NOT EXIST	PITG_01290	Family9910	PITG_01291	Family166
BlockID: Pin_187	Dissimilar families				
	Block DOES NOT EXIST	PITG_18153	Family18143	PITG_18155	Family4661
	Block DOES NOT EXIST	PITG_18158	Family4661	PITG_18160	Family16300
	Block DOES NOT EXIST	PITG_20365	Family14487	PITG_20368	Family28673
BlockID: Pin_188	Dissimilar families				
	Block DOES NOT EXIST	PITG_16620	Family28467	PITG_16621	Family435
	Block DOES NOT EXIST	PITG_19572	Family8058	PITG_19573	Family28617
BlockID: Pin_189	Present				
	Block EXISTS	PITG_00095	Family76	PITG_00096	Family1825
	Block EXISTS	PITG_00102	Family1825	PITG_00103	Family76
	Block EXISTS	PITG_06157	Family76	PITG_06158	Family1825
BlockID: Pin_19	Dissimilar families				
	Block DOES NOT EXIST	PITG_05058	Family369	PITG_05059	Family1689
	Block DOES NOT EXIST	PITG_16556	Family369	PITG_16557	Family803
	Block DOES NOT EXIST	PITG_21050	Family1689	PITG_21051	Family12681
BlockID: Pin_190	Present				
	Block EXISTS	PITG_00103	Family76	PITG_00104	Family512
	Block EXISTS	PITG_06156	Family512	PITG_06157	Family76
BlockID: Pin_191	Dissimilar families				
	Block DOES NOT EXIST	PITG_14328	Family691	PITG_14330	Family436
	Block DOES NOT EXIST	PITG_18561	Family436	PITG_18563	Family9155
BlockID: Pin_192	Present				

	Block EXISTS	PITG_02103	Family368	PITG_02104	Family2691
	Block EXISTS	PITG_20675	Family2691	PITG_20676	Family368
BlockID: Pin_193	Dissimilar families				
	Block DOES NOT EXIST	PITG_08027	Family368	PITG_08028	Family3666
	Block DOES NOT EXIST	PITG_19728	Family3666	PITG_19729	Family17347
BlockID: Pin_194	Present				
	Block DOES NOT EXIST	PITG_07630	Family4	PITG_07633	Family727
	Block EXISTS	PITG_14662	Family13158	PITG_14663	Family727
	Block EXISTS	PITG_14683	Family727	PITG_14684	Family13158
BlockID: Pin_195	Present				
	Block EXISTS	PITG_14353	Family1783	PITG_14354	Family2815
	Block EXISTS	PITG_18539	Family2815	PITG_18540	Family1783
BlockID: Pin_196	Present				
	Block EXISTS	PITG_15173	Family9447	PITG_15174	Family11871
	Block EXISTS	PITG_20149	Family11871	PITG_20152	Family9447
BlockID: Pin_197	Present				
	Block EXISTS	PITG_00418	Family2159	PITG_00419	Family3139
	Block EXISTS	PITG_21334	Family3139	PITG_21335	Family2159
BlockID: Pin_198	Dissimilar families				
	Block DOES NOT EXIST	PITG_13835	Family2684	PITG_13836	Family15451
	Block DOES NOT EXIST	PITG_13838	Family21122	PITG_13839	Family2684
BlockID: Pin_199	Dissimilar families				
	Block EXISTS	PITG_08708	Family1925	PITG_08709	Family1926
	Block DOES NOT EXIST	PITG_19741	Family1926	PITG_19742	Family15670
BlockID: Pin_2	Dissimilar families				
	Block DOES NOT EXIST	PITG_12496	Family27295	PITG_12497	Family7344
	Block DOES NOT EXIST	PITG_21212	Family7344	PITG_21213	Family13003
BlockID: Pin_20	Present				
	Block EXISTS	PITG_14715	Family57	PITG_14716	Family853
	Block EXISTS	PITG_19485	Family853	PITG_19486	Family57
BlockID: Pin_200	Dissimilar families				
	Block DOES NOT EXIST	PITG_01459	Family432	PITG_22683	Family10746
	Block EXISTS	PITG_13963	Family320	PITG_13964	Family432
BlockID: Pin_201	Dissimilar families				
	Block DOES NOT EXIST	PITG_12495	Family10192	PITG_12496	Family27295
	Block DOES NOT EXIST	PITG_21213	Family13003	PITG_21214	Family7696
BlockID: Pin_202	Present				
	Block EXISTS	PITG_15597	Family18213	PITG_15598	Family192
	Block EXISTS	PITG_20662	Family192	PITG_20663	Family18213
BlockID: Pin_203	Present				
	Block EXISTS	PITG_17594	Family1338	PITG_17595	Family4476
	Block EXISTS	PITG_21025	Family4476	PITG_21026	Family1338
BlockID: Pin_204	Present				
	Block EXISTS	PITG_02435	Family4617	PITG_02436	Family1464
	Block EXISTS	PITG_08079	Family1464	PITG_08080	Family4617
BlockID: Pin_205	Present				
	Block EXISTS	PITG_11643	Family31	PITG_22946	Family950
	Block EXISTS	PITG_11646	Family31	PITG_22947	Family950
BlockID: Pin_206	Present				
	Block EXISTS	PITG_04089	Family2868	PITG_04090	Family438
	Block EXISTS	PITG_18675	Family438	PITG_23138	Family2868
	Block EXISTS	PITG_18683	Family438	PITG_18685	Family2868
	Block EXISTS	PITG_20303	Family438	PITG_23185	Family2868
BlockID: Pin_207	Present				
	Block EXISTS	PITG_09526	Family2647	PITG_09527	Family2646
	Block EXISTS	PITG_09625	Family2646	PITG_09626	Family2647
BlockID: Pin_208	Present				
	Block EXISTS	PITG_05020	Family2586	PITG_05021	Family11009
	Block EXISTS	PITG_14326	Family11009	PITG_14327	Family2586
	Block EXISTS	PITG_17181	Family2586	PITG_17182	Family11009

	Block EXISTS	PITG_18564	Family2586	PITG_18565	Family11009
BlockID: Pin_209	Dissimilar families				
	Block DOES NOT EXIST	PITG_04734	Family488	PITG_04735	Family13219
	Block DOES NOT EXIST	PITG_04757	Family13338	PITG_04758	Family488
	Block DOES NOT EXIST	PITG_04771	Family488	PITG_22748	Family13807
	Block DOES NOT EXIST	PITG_04804	Family488	PITG_04805	Family578
BlockID: Pin_21	Present				
	Block EXISTS	PITG_14299	Family4964	PITG_14300	Family11649
	Block EXISTS	PITG_16152	Family11649	PITG_16153	Family4964
	Block EXISTS	PITG_18574	Family11649	PITG_18575	Family4964
BlockID: Pin_210	Dissimilar families				
	Block DOES NOT EXIST	PITG_15587	Family1166	PITG_15588	Family28420
	Block DOES NOT EXIST	PITG_18343	Family12627	PITG_18344	Family1166
BlockID: Pin_211	Present				
	Block EXISTS	PITG_05712	Family13134	PITG_05713	Family1090
	Block EXISTS	PITG_18382	Family1090	PITG_18383	Family13134
BlockID: Pin_212	Present				
	Block EXISTS	PITG_04134	Family2	PITG_04135	Family180
	Block EXISTS	PITG_04156	Family2	PITG_04158	Family180
BlockID: Pin_213	Present				
	Block EXISTS	PITG_02163	Family4754	PITG_02164	Family6224
	Block EXISTS	PITG_20294	Family6224	PITG_20295	Family4754
BlockID: Pin_214	Present				
	Block EXISTS	PITG_18333	Family129	PITG_18334	Family66
	Block EXISTS	PITG_18338	Family129	PITG_18339	Family66
BlockID: Pin_215	Present				
	Block EXISTS	PITG_10620	Family3021	PITG_10621	Family5282
	Block EXISTS	PITG_10624	Family5282	PITG_10625	Family3021
BlockID: Pin_216	Present				
	Block EXISTS	PITG_19547	Family2603	PITG_19548	Family4697
	Block EXISTS	PITG_19549	Family4697	PITG_19550	Family2603
BlockID: Pin_217	Dissimilar families				
	Block DOES NOT EXIST	PITG_05038	Family10856	PITG_05039	Family501
	Block DOES NOT EXIST	PITG_14775	Family736	PITG_23333	Family11890
	Block DOES NOT EXIST	PITG_17176	Family501	PITG_23342	Family4830
BlockID: Pin_218	Present				
	Block EXISTS	PITG_07601	Family1921	PITG_07604	Family523
	Block EXISTS	PITG_07605	Family523	PITG_07625	Family1921
BlockID: Pin_219	Dissimilar families				
	Block DOES NOT EXIST	PITG_11730	Family4793	PITG_11731	Family469
	Block DOES NOT EXIST	PITG_19362	Family7740	PITG_19363	Family4793
BlockID: Pin_22	Present				
	Block EXISTS	PITG_09525	Family4366	PITG_09526	Family2647
	Block EXISTS	PITG_09626	Family2647	PITG_09627	Family4366
BlockID: Pin_220	Dissimilar families				
	Block DOES NOT EXIST	PITG_08283	Family10400	PITG_08285	Family292
	Block DOES NOT EXIST	PITG_09121	Family15967	PITG_23316	Family1154
BlockID: Pin_221	Dissimilar families				
	Block DOES NOT EXIST	PITG_00245	Family1326	PITG_00246	Family9211
	Block DOES NOT EXIST	PITG_00247	Family18060	PITG_00248	Family1326
BlockID: Pin_222	Present				
	Block EXISTS	PITG_02162	Family3097	PITG_02163	Family4754
	Block EXISTS	PITG_20295	Family4754	PITG_20296	Family3097
BlockID: Pin_223	Present				
	Block EXISTS	PITG_13691	Family13816	PITG_13692	Family12019
	Block EXISTS	PITG_14034	Family12019	PITG_14036	Family13816
BlockID: Pin_224	Dissimilar families				
	Block DOES NOT EXIST	PITG_01686	Family18075	PITG_01687	Family10715
	Block DOES NOT EXIST	PITG_16305	Family12019	PITG_16306	Family12281
BlockID: Pin_225	Dissimilar families				

	Block DOES NOT EXIST	PITG_04201	Family27872	PITG_04202	Family434
	Block DOES NOT EXIST	PITG_04213	Family434	PITG_04214	Family7869
BlockID: Pin_226 Dissimilar families					
	Block DOES NOT EXIST	PITG_16288	Family14484	PITG_16289	Family18217
	Block DOES NOT EXIST	PITG_16651	Family14484	PITG_16652	Family14485
	Block DOES NOT EXIST	PITG_16942	Family11716	PITG_16943	Family14485
	Block DOES NOT EXIST	PITG_19283	Family11716	PITG_19284	Family18223
BlockID: Pin_227 Present					
	Block EXISTS	PITG_04760	Family578	PITG_23247	Family760
	Block EXISTS	PITG_04763	Family578	PITG_23249	Family760
	Block EXISTS	PITG_04764	Family578	PITG_23250	Family760
	Block EXISTS	PITG_04766	Family578	PITG_23251	Family760
	Block EXISTS	PITG_04767	Family578	PITG_23252	Family760
	Block EXISTS	PITG_04769	Family578	PITG_23254	Family760
	Block EXISTS	PITG_04770	Family578	PITG_23255	Family760
	Block EXISTS	PITG_04798	Family760	PITG_04799	Family578
	Block DOES NOT EXIST	PITG_04812	Family578	PITG_23258	Family18107
	Block EXISTS	PITG_04965	Family578	PITG_04966	Family760
	Block EXISTS	PITG_12073	Family760	PITG_12074	Family578
	Block EXISTS	PITG_21734	Family578	PITG_23291	Family760
	Block DOES NOT EXIST	PITG_21736	Family760	PITG_23294	Family28936
	Block DOES NOT EXIST	PITG_23261	Family18107	PITG_23262	Family13907
	Block EXISTS	PITG_23263	Family760	PITG_23264	Family9796
	Block EXISTS	PITG_23267	Family9796	PITG_23268	Family760
	Block EXISTS	PITG_23292	Family760	PITG_23293	Family9796
BlockID: Pin_228 Present					
	Block EXISTS	PITG_07644	Family3763	PITG_07645	Family3419
	Block EXISTS	PITG_18695	Family3419	PITG_18696	Family3763
BlockID: Pin_229 Dissimilar families					
	Block DOES NOT EXIST	PITG_16601	Family11865	PITG_23085	Family17884
	Block DOES NOT EXIST	PITG_19346	Family11865	PITG_19347	Family147
BlockID: Pin_23 Present					
	Block EXISTS	PITG_04207	Family134	PITG_04208	Family7
	Block EXISTS	PITG_04254	Family134	PITG_22734	Family7
	Block EXISTS	PITG_19938	Family7	PITG_19939	Family134
BlockID: Pin_230 Present					
	Block DOES NOT EXIST	PITG_12090	Family435	PITG_22955	Family26836
	Block EXISTS	PITG_12642	Family147	PITG_12643	Family721
	Block EXISTS	PITG_12645	Family147	PITG_12646	Family435
	Block EXISTS	PITG_16580	Family721	PITG_16581	Family147
	Block EXISTS	PITG_16584	Family147	PITG_16585	Family435
	Block EXISTS	PITG_16589	Family147	PITG_23083	Family18274
	Block EXISTS	PITG_16592	Family721	PITG_16593	Family147
	Block DOES NOT EXIST	PITG_16596	Family28465	PITG_23283	Family147
	Block EXISTS	PITG_16597	Family147	PITG_23084	Family721
	Block DOES NOT EXIST	PITG_16598	Family147	PITG_16599	Family9792
	Block DOES NOT EXIST	PITG_16609	Family721	PITG_23086	Family1010
	Block EXISTS	PITG_16615	Family147	PITG_16616	Family8058
	Block EXISTS	PITG_16618	Family435	PITG_16619	Family147
	Block EXISTS	PITG_16621	Family435	PITG_16622	Family147
	Block EXISTS	PITG_16624	Family147	PITG_16626	Family721
	Block EXISTS	PITG_16635	Family147	PITG_16636	Family435
	Block DOES NOT EXIST	PITG_17624	Family147	PITG_17625	Family1560
	Block EXISTS	PITG_18821	Family147	PITG_18822	Family721
	Block DOES NOT EXIST	PITG_18823	Family147	PITG_18826	Family233
	Block EXISTS	PITG_19334	Family147	PITG_23155	Family721
	Block DOES NOT EXIST	PITG_19567	Family8058	PITG_19568	Family12064
	Block EXISTS	PITG_19571	Family147	PITG_19572	Family8058
	Block EXISTS	PITG_19574	Family721	PITG_23165	Family147
	Block EXISTS	PITG_19577	Family721	PITG_19578	Family147

	Block EXISTS	PITG_19588	Family147	PITG_23168	Family18274
	Block EXISTS	PITG_23088	Family147	PITG_23089	Family435
	Block EXISTS	PITG_23163	Family721	PITG_23164	Family147
BlockID: Pin_231 Present					
	Block DOES NOT EXIST	PITG_12091	Family1010	PITG_12092	Family2826
	Block EXISTS	PITG_16589	Family147	PITG_16591	Family2827
	Block DOES NOT EXIST	PITG_16600	Family147	PITG_23284	Family28934
	Block DOES NOT EXIST	PITG_16624	Family147	PITG_23286	Family13487
	Block DOES NOT EXIST	PITG_19579	Family147	PITG_19581	Family2826
	Block DOES NOT EXIST	PITG_19586	Family2826	PITG_19588	Family147
	Block EXISTS	PITG_20168	Family2827	PITG_20169	Family147
BlockID: Pin_232 Present					
	Block EXISTS	PITG_16660	Family8347	PITG_16661	Family887
	Block EXISTS	PITG_18774	Family887	PITG_18775	Family8347
BlockID: Pin_233 Present					
	Block EXISTS	PITG_04139	Family12273	PITG_22729	Family18207
	Block EXISTS	PITG_04148	Family12273	PITG_22730	Family18207
BlockID: Pin_234 Dissimilar families					
	Block DOES NOT EXIST	PITG_04777	Family6567	PITG_04778	Family13807
	Block DOES NOT EXIST	PITG_04799	Family578	PITG_04800	Family6567
BlockID: Pin_235 Present					
	Block EXISTS	PITG_14024	Family9264	PITG_14025	Family1731
	Block EXISTS	PITG_17174	Family1731	PITG_17175	Family9264
BlockID: Pin_236 Dissimilar families					
	Block DOES NOT EXIST	PITG_07463	Family28013	PITG_07464	Family28014
	Block DOES NOT EXIST	PITG_07473	Family4725	PITG_07474	Family11884
BlockID: Pin_237 Present					
	Block EXISTS	PITG_14494	Family11019	PITG_14496	Family1785
	Block EXISTS	PITG_19489	Family1785	PITG_19491	Family11019
BlockID: Pin_238 Present (diff. copies)					
	Block DOES NOT EXIST	PITG_11719	Family1417	PITG_11720	Family4310
	Block EXISTS	PITG_19901	Family4310	PITG_19902	Family18174
BlockID: Pin_239 Present					
	Block EXISTS	PITG_14298	Family800	PITG_14299	Family4964
	Block EXISTS	PITG_16153	Family4964	PITG_16154	Family800
	Block EXISTS	PITG_18575	Family4964	PITG_18576	Family800
BlockID: Pin_24 Dissimilar families					
	Block DOES NOT EXIST	PITG_08518	Family7	PITG_08519	Family13527
	Block DOES NOT EXIST	PITG_08521	Family1224	PITG_08522	Family7
BlockID: Pin_240 Present					
	Block EXISTS	PITG_17645	Family4661	PITG_17646	Family11678
	Block EXISTS	PITG_18157	Family11678	PITG_18158	Family4661
BlockID: Pin_241 Present					
	Block EXISTS	PITG_03205	Family809	PITG_03206	Family6875
	Block EXISTS	PITG_21601	Family6875	PITG_21602	Family809
BlockID: Pin_242 Present					
	Block EXISTS	PITG_07376	Family6	PITG_07377	Family3219
	Block EXISTS	PITG_11545	Family3219	PITG_11546	Family6
BlockID: Pin_243 Dissimilar families					
	Block DOES NOT EXIST	PITG_07600	Family23853	PITG_07601	Family1921
	Block DOES NOT EXIST	PITG_18604	Family1921	PITG_18605	Family13619
BlockID: Pin_244 Present					
	Block EXISTS	PITG_05577	Family204	PITG_05578	Family350
	Block EXISTS	PITG_05579	Family350	PITG_05580	Family204
BlockID: Pin_245 Dissimilar families					
	Block DOES NOT EXIST	PITG_12816	Family28304	PITG_12817	Family6
	Block DOES NOT EXIST	PITG_15165	Family6	PITG_15166	Family18135
BlockID: Pin_246 Present					
	Block EXISTS	PITG_08623	Family8211	PITG_08624	Family10950
	Block EXISTS	PITG_20616	Family10950	PITG_20617	Family8211

BlockID: Pin_247	Present					
		Block EXISTS	PITG_05072	Family11409	PITG_05074	Family4
		Block EXISTS	PITG_19307	Family4	PITG_19308	Family11409
		Block DOES NOT EXIST	PITG_22879	Family4	PITG_22880	Family4
BlockID: Pin_248	Dissimilar families					
		Block DOES NOT EXIST	PITG_05058	Family369	PITG_22754	Family13869
		Block DOES NOT EXIST	PITG_16556	Family369	PITG_23078	Family544
		Block DOES NOT EXIST	PITG_17205	Family369	PITG_23105	Family12051
BlockID: Pin_249	Present					
		Block EXISTS	PITG_09523	Family2094	PITG_09524	Family2648
		Block EXISTS	PITG_09628	Family2648	PITG_09629	Family2094
BlockID: Pin_25	Present					
		Block EXISTS	PITG_12361	Family230	PITG_12362	Family697
		Block EXISTS	PITG_12399	Family697	PITG_12401	Family230
BlockID: Pin_250	Present					
		Block EXISTS	PITG_13809	Family23	PITG_23006	Family399
		Block EXISTS	PITG_13825	Family23	PITG_13826	Family399
BlockID: Pin_251	Dissimilar families					
		Block DOES NOT EXIST	PITG_03072	Family27824	PITG_03073	Family557
		Block DOES NOT EXIST	PITG_18620	Family28569	PITG_18621	Family28570
BlockID: Pin_252	Present					
		Block EXISTS	PITG_15374	Family2236	PITG_15375	Family11289
		Block EXISTS	PITG_18920	Family11289	PITG_18922	Family2236
BlockID: Pin_253	Dissimilar families					
		Block DOES NOT EXIST	PITG_16591	Family2827	PITG_16592	Family721
		Block DOES NOT EXIST	PITG_16599	Family9792	PITG_23284	Family28934
		Block DOES NOT EXIST	PITG_19581	Family2826	PITG_23167	Family1621
		Block DOES NOT EXIST	PITG_20167	Family9792	PITG_20168	Family2827
		Block DOES NOT EXIST	PITG_23273	Family2827	PITG_23274	Family435
BlockID: Pin_26	Dissimilar families					
		Block DOES NOT EXIST	PITG_00093	Family512	PITG_00094	Family18057
		Block DOES NOT EXIST	PITG_00100	Family512	PITG_00101	Family8917
BlockID: Pin_27	Present					
		Block EXISTS	PITG_12955	Family542	PITG_12956	Family6905
		Block EXISTS	PITG_12963	Family6905	PITG_12964	Family542
BlockID: Pin_28	Present					
		Block EXISTS	PITG_02657	Family724	PITG_02658	Family725
		Block EXISTS	PITG_03867	Family725	PITG_03868	Family724
BlockID: Pin_29	Present					
		Block EXISTS	PITG_12910	Family353	PITG_12911	Family9486
		Block EXISTS	PITG_20228	Family9486	PITG_20229	Family353
BlockID: Pin_3	Dissimilar families					
		Block DOES NOT EXIST	PITG_13218	Family384	PITG_13220	Family4799
		Block DOES NOT EXIST	PITG_17100	Family16925	PITG_17101	Family384
		Block DOES NOT EXIST	PITG_17915	Family384	PITG_17918	Family10716
BlockID: Pin_30	Dissimilar families					
		Block DOES NOT EXIST	PITG_04092	Family873	PITG_04093	Family15413
		Block DOES NOT EXIST	PITG_18677	Family13534	PITG_18678	Family873
BlockID: Pin_31	Present					
		Block EXISTS	PITG_07650	Family7408	PITG_07651	Family2405
		Block EXISTS	PITG_18688	Family2405	PITG_18689	Family7408
BlockID: Pin_32	Dissimilar families					
		Block DOES NOT EXIST	PITG_07572	Family3737	PITG_07573	Family240
		Block DOES NOT EXIST	PITG_19978	Family6864	PITG_19979	Family3737
BlockID: Pin_33	Present					
		Block EXISTS	PITG_00097	Family8362	PITG_00098	Family8917
		Block EXISTS	PITG_06159	Family8362	PITG_06160	Family8917
		Block DOES NOT EXIST	PITG_21534	Family16997	PITG_21535	Family18057
BlockID: Pin_34	Dissimilar families					
		Block DOES NOT EXIST	PITG_03904	Family5208	PITG_03905	Family9593

		Block DOES NOT EXIST	PITG_17638	Family9593	PITG_17639	Family12696
BlockID: Pin_35	Present					
		Block EXISTS	PITG_10572	Family74	PITG_10573	Family2653
		Block EXISTS	PITG_21128	Family2653	PITG_21129	Family74
BlockID: Pin_36	Dissimilar families					
		Block DOES NOT EXIST	PITG_17852	Family8	PITG_17853	Family472
		Block DOES NOT EXIST	PITG_17856	Family1793	PITG_17857	Family8
		Block DOES NOT EXIST	PITG_19031	Family13037	PITG_19032	Family472
BlockID: Pin_37	Dissimilar families					
		Block DOES NOT EXIST	PITG_07362	Family6385	PITG_07363	Family232
		Block DOES NOT EXIST	PITG_13708	Family920	PITG_13709	Family6385
BlockID: Pin_38	Dissimilar families					
		Block DOES NOT EXIST	PITG_12003	Family14065	PITG_12004	Family4026
		Block DOES NOT EXIST	PITG_17967	Family1627	PITG_17968	Family4026
BlockID: Pin_39	Dissimilar families					
		Block DOES NOT EXIST	PITG_15393	Family3441	PITG_15394	Family216
		Block DOES NOT EXIST	PITG_21282	Family28719	PITG_21283	Family28720
BlockID: Pin_4	Present					
		Block EXISTS	PITG_01634	Family348	PITG_01635	Family655
		Block EXISTS	PITG_01892	Family655	PITG_01893	Family348
		Block DOES NOT EXIST	PITG_02295	Family16926	PITG_02296	Family275
		Block EXISTS	PITG_04414	Family275	PITG_04415	Family10716
		Block EXISTS	PITG_05029	Family275	PITG_05030	Family348
		Block EXISTS	PITG_05033	Family348	PITG_05034	Family275
		Block EXISTS	PITG_05054	Family655	PITG_05055	Family348
		Block EXISTS	PITG_09332	Family275	PITG_09333	Family348
		Block EXISTS	PITG_10585	Family275	PITG_10586	Family348
		Block EXISTS	PITG_12370	Family348	PITG_12371	Family655
		Block EXISTS	PITG_12388	Family348	PITG_12389	Family275
		Block EXISTS	PITG_14331	Family348	PITG_14332	Family275
		Block EXISTS	PITG_14335	Family348	PITG_14336	Family655
		Block EXISTS	PITG_16149	Family275	PITG_16150	Family348
		Block EXISTS	PITG_18493	Family348	PITG_18494	Family275
		Block EXISTS	PITG_18559	Family275	PITG_18560	Family348
		Block EXISTS	PITG_19388	Family10716	PITG_19389	Family275
BlockID: Pin_40	Dissimilar families					
		Block DOES NOT EXIST	PITG_02598	Family10976	PITG_02599	Family6236
		Block DOES NOT EXIST	PITG_20718	Family6236	PITG_20719	Family28686
BlockID: Pin_41	Dissimilar families					
		Block DOES NOT EXIST	PITG_12930	Family1604	PITG_12931	Family1770
		Block DOES NOT EXIST	PITG_12932	Family1770	PITG_12933	Family28307
BlockID: Pin_42	Dissimilar families					
		Block DOES NOT EXIST	PITG_12620	Family11153	PITG_12621	Family13395
		Block DOES NOT EXIST	PITG_18757	Family16303	PITG_18758	Family14485
BlockID: Pin_43	Present					
		Block EXISTS	PITG_06057	Family6785	PITG_06059	Family13943
		Block EXISTS	PITG_06074	Family13943	PITG_06075	Family6785
BlockID: Pin_44	Present					
		Block EXISTS	PITG_18207	Family867	PITG_18208	Family55
		Block EXISTS	PITG_18231	Family55	PITG_18232	Family867
BlockID: Pin_45	Present					
		Block EXISTS	PITG_02102	Family731	PITG_02103	Family368
		Block EXISTS	PITG_20676	Family368	PITG_20677	Family731
BlockID: Pin_46	Dissimilar families					
		Block DOES NOT EXIST	PITG_09350	Family24	PITG_09351	Family1220
		Block DOES NOT EXIST	PITG_09352	Family72	PITG_09354	Family24
BlockID: Pin_47	Dissimilar families					
		Block DOES NOT EXIST	PITG_09204	Family24	PITG_09206	Family13211
		Block DOES NOT EXIST	PITG_09207	Family11571	PITG_09208	Family24
BlockID: Pin_48	Present					

	Block EXISTS	PITG_09197	Family24	PITG_09198	Family174
	Block EXISTS	PITG_09201	Family174	PITG_09203	Family24
BlockID: Pin_49	Dissimilar families				
	Block DOES NOT EXIST	PITG_09775	Family28142	PITG_09777	Family14461
	Block DOES NOT EXIST	PITG_10611	Family14461	PITG_10612	Family17864
BlockID: Pin_5	Present				
	Block EXISTS	PITG_01893	Family348	PITG_01894	Family436
	Block EXISTS	PITG_05030	Family348	PITG_05032	Family436
	Block EXISTS	PITG_14330	Family436	PITG_14331	Family348
	Block EXISTS	PITG_14334	Family436	PITG_14335	Family348
	Block EXISTS	PITG_18560	Family348	PITG_18561	Family436
BlockID: Pin_50	Present				
	Block EXISTS	PITG_07365	Family6464	PITG_07366	Family1380
	Block EXISTS	PITG_11536	Family1380	PITG_11537	Family6464
BlockID: Pin_51	Present				
	Block EXISTS	PITG_18411	Family3950	PITG_18412	Family1883
	Block EXISTS	PITG_18432	Family1883	PITG_18433	Family3950
BlockID: Pin_52	Present				
	Block EXISTS	PITG_02615	Family2671	PITG_02616	Family224
	Block EXISTS	PITG_21764	Family224	PITG_21765	Family2671
BlockID: Pin_53	Dissimilar families				
	Block DOES NOT EXIST	PITG_17592	Family2697	PITG_17593	Family1940
	Block DOES NOT EXIST	PITG_21027	Family1940	PITG_21028	Family28704
BlockID: Pin_54	Present				
	Block DOES NOT EXIST	PITG_04738	Family13338	PITG_04739	Family18100
	Block DOES NOT EXIST	PITG_04756	Family695	PITG_04757	Family13338
	Block EXISTS	PITG_04759	Family695	PITG_04760	Family578
	Block DOES NOT EXIST	PITG_04778	Family13807	PITG_04779	Family13551
	Block DOES NOT EXIST	PITG_04783	Family10356	PITG_04786	Family695
	Block EXISTS	PITG_04807	Family695	PITG_04809	Family578
	Block DOES NOT EXIST	PITG_04811	Family18100	PITG_23257	Family9796
BlockID: Pin_55	Present				
	Block EXISTS	PITG_14497	Family2701	PITG_14498	Family2700
	Block EXISTS	PITG_19487	Family2700	PITG_19488	Family2701
BlockID: Pin_56	Present				
	Block EXISTS	PITG_16246	Family2843	PITG_16247	Family7856
	Block EXISTS	PITG_16425	Family7856	PITG_16426	Family2843
BlockID: Pin_57	Present				
	Block EXISTS	PITG_00417	Family5069	PITG_00418	Family2159
	Block EXISTS	PITG_21335	Family2159	PITG_21336	Family5069
BlockID: Pin_58	Present (diff. copies)				
	Block EXISTS	PITG_07750	Family14450	PITG_07751	Family8994
	Block DOES NOT EXIST	PITG_07752	Family14450	PITG_22833	Family722
BlockID: Pin_59	Present				
	Block EXISTS	PITG_05034	Family275	PITG_05035	Family11000
	Block EXISTS	PITG_10584	Family384	PITG_10585	Family275
	Block DOES NOT EXIST	PITG_12371	Family655	PITG_12372	Family384
	Block EXISTS	PITG_12413	Family384	PITG_12414	Family275
	Block EXISTS	PITG_14337	Family275	PITG_14338	Family11000
	Block EXISTS	PITG_18494	Family275	PITG_18495	Family384
BlockID: Pin_6	Present				
	Block EXISTS	PITG_06976	Family356	PITG_06977	Family3743
	Block EXISTS	PITG_20614	Family3743	PITG_20615	Family356
BlockID: Pin_60	Present				
	Block EXISTS	PITG_03214	Family10517	PITG_03215	Family2038
	Block EXISTS	PITG_06507	Family2038	PITG_06508	Family10517
BlockID: Pin_61	Dissimilar families				
	Block DOES NOT EXIST	PITG_01157	Family27736	PITG_01158	Family3959
	Block DOES NOT EXIST	PITG_19198	Family3959	PITG_19199	Family2994
BlockID: Pin_62	Present				

	Block EXISTS	PITG_13098	Family6639	PITG_13100	Family452
	Block EXISTS	PITG_20417	Family452	PITG_20419	Family6639
BlockID: Pin_63	Present				
	Block EXISTS	PITG_09887	Family499	PITG_09888	Family1002
	Block EXISTS	PITG_09889	Family1002	PITG_09890	Family499
BlockID: Pin_64	Present				
	Block EXISTS	PITG_15791	Family55	PITG_15792	Family6676
	Block EXISTS	PITG_18209	Family55	PITG_18210	Family6676
	Block EXISTS	PITG_18229	Family6676	PITG_18230	Family55
BlockID: Pin_65	One family				
	Block DOES NOT EXIST	PITG_10257	Family271	PITG_10258	Family271
	Block DOES NOT EXIST	PITG_10389	Family271	PITG_10390	Family271
BlockID: Pin_66	Dissimilar families				
	Block DOES NOT EXIST	PITG_14402	Family6125	PITG_14403	Family212
	Block DOES NOT EXIST	PITG_20622	Family212	PITG_20623	Family28681
BlockID: Pin_67	Present				
	Block EXISTS	PITG_06197	Family3592	PITG_06198	Family2082
	Block EXISTS	PITG_16123	Family2082	PITG_16124	Family3592
BlockID: Pin_68	Present				
	Block EXISTS	PITG_14043	Family1680	PITG_14044	Family1406
	Block DOES NOT EXIST	PITG_18872	Family18236	PITG_18873	Family1680
	Block EXISTS	PITG_18882	Family1406	PITG_18883	Family1680
BlockID: Pin_69	Dissimilar families				
	Block DOES NOT EXIST	PITG_14296	Family1681	PITG_14297	Family13719
	Block DOES NOT EXIST	PITG_16154	Family800	PITG_16155	Family11957
BlockID: Pin_7	Present				
	Block DOES NOT EXIST	PITG_05045	Family722	PITG_05048	Family9789
	Block EXISTS	PITG_14309	Family501	PITG_14310	Family600
	Block EXISTS	PITG_14312	Family600	PITG_14314	Family722
	Block EXISTS	PITG_14315	Family600	PITG_14319	Family736
	Block EXISTS	PITG_14343	Family501	PITG_14344	Family600
	Block EXISTS	PITG_14351	Family501	PITG_14352	Family600
	Block DOES NOT EXIST	PITG_14775	Family736	PITG_14777	Family9789
	Block EXISTS	PITG_17187	Family600	PITG_17189	Family722
	Block EXISTS	PITG_17198	Family9789	PITG_17199	Family264
	Block EXISTS	PITG_18545	Family600	PITG_18546	Family501
	Block EXISTS	PITG_18553	Family600	PITG_18554	Family501
	Block EXISTS	PITG_19375	Family12427	PITG_19377	Family722
	Block EXISTS	PITG_19394	Family501	PITG_19399	Family600
	Block EXISTS	PITG_20640	Family600	PITG_20641	Family501
BlockID: Pin_70	Present				
	Block EXISTS	PITG_07148	Family86	PITG_07149	Family45
	Block EXISTS	PITG_07152	Family86	PITG_07153	Family45
	Block DOES NOT EXIST	PITG_07182	Family10047	PITG_07183	Family9291
BlockID: Pin_71	Present				
	Block EXISTS	PITG_01888	Family4797	PITG_01889	Family384
	Block EXISTS	PITG_05035	Family11000	PITG_05036	Family4797
	Block DOES NOT EXIST	PITG_09329	Family18075	PITG_09330	Family384
	Block EXISTS	PITG_10583	Family4797	PITG_10584	Family384
	Block EXISTS	PITG_14338	Family11000	PITG_14339	Family4797
BlockID: Pin_72	Present				
	Block EXISTS	PITG_14339	Family4797	PITG_14343	Family501
	Block EXISTS	PITG_20641	Family501	PITG_20644	Family4797
BlockID: Pin_73	Present				
	Block EXISTS	PITG_09524	Family2648	PITG_09525	Family4366
	Block EXISTS	PITG_09627	Family4366	PITG_09628	Family2648
BlockID: Pin_74	Present				
	Block EXISTS	PITG_13947	Family12423	PITG_13948	Family920
	Block DOES NOT EXIST	PITG_13949	Family6906	PITG_13950	Family920
	Block DOES NOT EXIST	PITG_13951	Family12423	PITG_13952	Family920

	Block EXISTS	PITG_13953	Family920	PITG_13954	Family12423
BlockID: Pin_75	Present				
	Block EXISTS	PITG_01889	Family384	PITG_01890	Family805
	Block EXISTS	PITG_05051	Family384	PITG_05052	Family805
	Block EXISTS	PITG_09330	Family384	PITG_09331	Family805
	Block EXISTS	PITG_13217	Family805	PITG_13218	Family384
	Block EXISTS	PITG_18528	Family805	PITG_18529	Family384
	Block DOES NOT EXIST	PITG_18557	Family11000	PITG_18558	Family805
BlockID: Pin_76	Present				
	Block EXISTS	PITG_17596	Family6277	PITG_17597	Family4477
	Block EXISTS	PITG_21023	Family4477	PITG_21024	Family6277
BlockID: Pin_77	Present				
	Block EXISTS	PITG_04269	Family4	PITG_04270	Family60
	Block EXISTS	PITG_04275	Family60	PITG_04276	Family4
BlockID: Pin_78	Dissimilar families				
	Block DOES NOT EXIST	PITG_16701	Family4	PITG_16702	Family13757
	Block DOES NOT EXIST	PITG_16703	Family28469	PITG_16705	Family4
	Block DOES NOT EXIST	PITG_16726	Family4	PITG_16727	Family1597
BlockID: Pin_79	Present (diff. copies)				
	Block EXISTS	PITG_14673	Family4	PITG_14674	Family78
	Block DOES NOT EXIST	PITG_15120	Family16539	PITG_15123	Family4
	Block DOES NOT EXIST	PITG_15124	Family78	PITG_15125	Family4
BlockID: Pin_8	Dissimilar families				
	Block DOES NOT EXIST	PITG_16142	Family9789	PITG_16143	Family16174
	Block DOES NOT EXIST	PITG_17186	Family16174	PITG_17187	Family600
BlockID: Pin_80	Present				
	Block DOES NOT EXIST	PITG_13567	Family69	PITG_13568	Family28332
	Block EXISTS	PITG_13569	Family69	PITG_13570	Family18194
	Block EXISTS	PITG_13571	Family69	PITG_13572	Family18194
BlockID: Pin_81	Present				
	Block EXISTS	PITG_12498	Family6743	PITG_12499	Family2710
	Block EXISTS	PITG_21210	Family2710	PITG_21211	Family6743
BlockID: Pin_82	Present				
	Block EXISTS	PITG_04751	Family695	PITG_04752	Family488
	Block EXISTS	PITG_04758	Family488	PITG_04759	Family695
	Block EXISTS	PITG_04813	Family488	PITG_04814	Family695
BlockID: Pin_83	Present				
	Block EXISTS	PITG_04742	Family695	PITG_23246	Family760
	Block EXISTS	PITG_04795	Family695	PITG_04796	Family760
	Block DOES NOT EXIST	PITG_04811	Family18100	PITG_23258	Family18107
	Block EXISTS	PITG_12072	Family695	PITG_12073	Family760
BlockID: Pin_84	Dissimilar families				
	Block DOES NOT EXIST	PITG_04739	Family18100	PITG_04740	Family968
	Block DOES NOT EXIST	PITG_04791	Family968	PITG_04792	Family695
BlockID: Pin_85	Present				
	Block EXISTS	PITG_14496	Family1785	PITG_14497	Family2701
	Block EXISTS	PITG_19488	Family2701	PITG_19489	Family1785
BlockID: Pin_86	Present				
	Block DOES NOT EXIST	PITG_07464	Family28014	PITG_07467	Family506
	Block DOES NOT EXIST	PITG_07486	Family506	PITG_07487	Family14448
	Block EXISTS	PITG_07514	Family506	PITG_07516	Family4725
	Block EXISTS	PITG_20691	Family506	PITG_20692	Family4725
BlockID: Pin_87	Dissimilar families				
	Block DOES NOT EXIST	PITG_04410	Family4399	PITG_04414	Family275
	Block DOES NOT EXIST	PITG_19389	Family275	PITG_19394	Family501
BlockID: Pin_88	Present (diff. copies)				
	Block EXISTS	PITG_05049	Family264	PITG_05051	Family384
	Block DOES NOT EXIST	PITG_18554	Family501	PITG_18557	Family11000
BlockID: Pin_89	Present				
	Block EXISTS	PITG_11279	Family145	PITG_11282	Family12

	Block EXISTS	PITG_17806	Family12	PITG_17807	Family145
BlockID: Pin_9	Present				
	Block EXISTS	PITG_15174	Family11871	PITG_15175	Family529
	Block EXISTS	PITG_20148	Family529	PITG_20149	Family11871
BlockID: Pin_90	Dissimilar families				
	Block DOES NOT EXIST	PITG_19426	Family12	PITG_19428	Family11449
	Block DOES NOT EXIST	PITG_19429	Family11450	PITG_19432	Family12
BlockID: Pin_91	Present				
	Block EXISTS	PITG_02614	Family10579	PITG_02615	Family2671
	Block EXISTS	PITG_21765	Family2671	PITG_21766	Family10579
BlockID: Pin_92	Dissimilar families				
	Block DOES NOT EXIST	PITG_00607	Family18063	PITG_00608	Family12396
	Block DOES NOT EXIST	PITG_14567	Family18202	PITG_14568	Family12396
	Block DOES NOT EXIST	PITG_16935	Family18110	PITG_16936	Family18202
BlockID: Pin_93	Present				
	Block EXISTS	PITG_17595	Family4476	PITG_17596	Family6277
	Block EXISTS	PITG_21024	Family6277	PITG_21025	Family4476
BlockID: Pin_94	Present				
	Block EXISTS	PITG_02164	Family6224	PITG_22693	Family583
	Block EXISTS	PITG_20294	Family6224	PITG_23184	Family583
BlockID: Pin_95	Present				
	Block EXISTS	PITG_01379	Family7082	PITG_01380	Family11772
	Block EXISTS	PITG_18034	Family7082	PITG_18035	Family11772
BlockID: Pin_96	Dissimilar families				
	Block DOES NOT EXIST	PITG_17349	Family4070	PITG_17350	Family7728
	Block DOES NOT EXIST	PITG_20727	Family6155	PITG_20728	Family4070
BlockID: Pin_97	Present				
	Block EXISTS	PITG_10328	Family3972	PITG_10329	Family2772
	Block EXISTS	PITG_19240	Family2772	PITG_19242	Family3972
BlockID: Pin_98	Present				
	Block EXISTS	PITG_11349	Family14464	PITG_11350	Family9503
	Block EXISTS	PITG_11382	Family14464	PITG_22935	Family9503
	Block EXISTS	PITG_11384	Family9503	PITG_11385	Family14464
BlockID: Pin_99	Present				
	Block EXISTS	PITG_17593	Family1940	PITG_17594	Family1338
	Block EXISTS	PITG_21026	Family1338	PITG_21027	Family1940
BlockID: Pra_1	Present				
	Block EXISTS	Pr_74268	Family2	Pr_74269	Family8
	Block EXISTS	Pr_74272	Family8	Pr_74273	Family2
BlockID: Pra_10	Present (diff. copies)				
	Block DOES NOT EXIST	Pr_81082	Family556	Pr_81083	Family30890
	Block EXISTS	Pr_83371	Family556	Pr_83372	Family13498
BlockID: Pra_100	Dissimilar families				
	Block DOES NOT EXIST	Pr_42921	Family6467	Pr_85362	Family4715
	Block DOES NOT EXIST	Pr_96498	Family31096	Pr_96499	Family6467
BlockID: Pra_101	Present				
	Block EXISTS	Pr_79515	Family239	Pr_79516	Family379
	Block EXISTS	Pr_79518	Family379	Pr_79519	Family239
BlockID: Pra_102	Dissimilar families				
	Block DOES NOT EXIST	Pr_72932	Family3307	Pr_93398	Family3233
	Block DOES NOT EXIST	Pr_84158	Family3307	Pr_84159	Family30944
BlockID: Pra_103	Present				
	Block EXISTS	Pr_73785	Family1859	Pr_93705	Family449
	Block EXISTS	Pr_73788	Family449	Pr_93708	Family1859
BlockID: Pra_104	Present				
	Block EXISTS	Pr_72245	Family107	Pr_84520	Family39
	Block EXISTS	Pr_72247	Family107	Pr_84527	Family39
BlockID: Pra_105	Gene missing				
	Block DOES NOT EXIST	Pr_75596	No families	Pr_75597	Family249
	Block DOES NOT EXIST	Pr_75598	No families	Pr_75599	No families

	Block DOES NOT EXIST	Pr_82632	No families	Pr_82633	No families
	Block DOES NOT EXIST	Pr_83204	No families	Pr_83205	Family249
	Block DOES NOT EXIST	Pr_84891	No families	Pr_84892	No families
BlockID: Pra_106	Gene missing				
	Block DOES NOT EXIST	Pr_79746	Family539	Pr_79748	Family686
	Block DOES NOT EXIST	Pr_79750	No families	Pr_79751	Family539
BlockID: Pra_107	Dissimilar families				
	Block DOES NOT EXIST	Pr_77326	Family1190	Pr_77327	Family1920
	Block DOES NOT EXIST	Pr_77329	Family1920	Pr_77330	Family30820
BlockID: Pra_108	Present				
	Block EXISTS	Pr_39775	Family52	Pr_75236	Family250
	Block EXISTS	Pr_75227	Family52	Pr_75228	Family250
	Block EXISTS	Pr_75230	Family250	Pr_75231	Family52
	Block EXISTS	Pr_75232	Family250	Pr_75233	Family52
BlockID: Pra_109	Present				
	Block EXISTS	Pr_40336	Family445	Pr_84626	Family2012
	Block EXISTS	Pr_84627	Family2012	Pr_84628	Family445
BlockID: Pra_11	Present				
	Block EXISTS	Pr_44405	Family7	Pr_76956	Family288
	Block EXISTS	Pr_71588	Family7	Pr_78154	Family288
	Block DOES NOT EXIST	Pr_71618	Family7	Pr_78438	Family14493
BlockID: Pra_110	Present				
	Block EXISTS	Pr_74225	Family4672	Pr_74226	Family8
	Block EXISTS	Pr_74227	Family8	Pr_74228	Family4672
BlockID: Pra_111	Present				
	Block EXISTS	Pr_71551	Family44	Pr_77785	Family643
	Block DOES NOT EXIST	Pr_71553	Family44	Pr_94924	Family18701
	Block EXISTS	Pr_77767	Family643	Pr_77768	Family44
BlockID: Pra_112	Present				
	Block EXISTS	Pr_83916	Family103	Pr_83917	Family10031
	Block EXISTS	Pr_83918	Family10031	Pr_83919	Family103
	Block DOES NOT EXIST	Pr_85960	Family69	Pr_85961	Family103
BlockID: Pra_113	Dissimilar families				
	Block DOES NOT EXIST	Pr_75752	Family2851	Pr_75753	Family3879
	Block DOES NOT EXIST	Pr_77851	Family2851	Pr_77852	Family30828
BlockID: Pra_114	Dissimilar families				
	Block DOES NOT EXIST	Pr_84393	Family7520	Pr_84394	Family30952
	Block DOES NOT EXIST	Pr_84395	Family7958	Pr_96842	Family9235
BlockID: Pra_115	Present				
	Block EXISTS	Pr_73682	Family491	Pr_73683	Family113
	Block EXISTS	Pr_78701	Family491	Pr_78702	Family113
	Block EXISTS	Pr_78703	Family113	Pr_78704	Family491
BlockID: Pra_116	One family				
	Block DOES NOT EXIST	Pr_74123	Family254	Pr_74124	Family254
	Block DOES NOT EXIST	Pr_74129	Family254	Pr_74130	Family254
BlockID: Pra_117	Present				
	Block EXISTS	Pr_41853	Family4680	Pr_85113	Family14644
	Block EXISTS	Pr_42981	Family4680	Pr_85389	Family14644
BlockID: Pra_118	Dissimilar families				
	Block DOES NOT EXIST	Pr_73844	Family854	Pr_73845	Family4393
	Block DOES NOT EXIST	Pr_73852	Family7761	Pr_73853	Family854
	Block DOES NOT EXIST	Pr_73854	Family854	Pr_73855	Family30748
BlockID: Pra_119	Present				
	Block EXISTS	Pr_49345	Family1816	Pr_80150	Family13311
	Block EXISTS	Pr_71772	Family1816	Pr_80127	Family13311
BlockID: Pra_12	Dissimilar families				
	Block DOES NOT EXIST	Pr_54469	Family10044	Pr_83556	Family14629
	Block DOES NOT EXIST	Pr_79581	Family7628	Pr_79582	Family11289
	Block DOES NOT EXIST	Pr_79589	Family14629	Pr_79590	Family30855
BlockID: Pra_120	Gene missing				

	Block DOES NOT EXIST	Pr_75601	Family10348	Pr_75602	No families
	Block DOES NOT EXIST	Pr_78353	No families	Pr_78354	No families
BlockID: Pra_121	Gene missing				
	Block DOES NOT EXIST	Pr_79146	No families	Pr_79147	Family6880
	Block DOES NOT EXIST	Pr_83337	Family639	Pr_83338	No families
BlockID: Pra_122	Present				
	Block EXISTS	Pr_80494	Family18560	Pr_80495	Family18312
	Block EXISTS	Pr_80496	Family18312	Pr_80497	Family18560
BlockID: Pra_123	Dissimilar families				
	Block DOES NOT EXIST	Pr_46120	Family2926	Pr_77925	Family740
	Block DOES NOT EXIST	Pr_71567	Family740	Pr_77922	Family14
BlockID: Pra_124	Dissimilar families				
	Block DOES NOT EXIST	Pr_72078	Family34	Pr_83093	Family185
	Block DOES NOT EXIST	Pr_83095	Family4404	Pr_83096	Family185
BlockID: Pra_125	Present				
	Block EXISTS	Pr_49472	Family1412	Pr_80183	Family139
	Block EXISTS	Pr_49493	Family1412	Pr_80205	Family139
BlockID: Pra_126	Present				
	Block EXISTS	Pr_41857	Family67	Pr_85116	Family1889
	Block EXISTS	Pr_41862	Family67	Pr_85118	Family1889
BlockID: Pra_127	Present				
	Block EXISTS	Pr_73621	Family21	Pr_73622	Family95
	Block EXISTS	Pr_73623	Family95	Pr_73624	Family21
BlockID: Pra_128	Dissimilar families				
	Block DOES NOT EXIST	Pr_45408	Family12849	Pr_77346	Family2445
	Block DOES NOT EXIST	Pr_74920	Family5976	Pr_74921	Family138
BlockID: Pra_13	Dissimilar families				
	Block DOES NOT EXIST	Pr_73607	Family137	Pr_73608	Family142
	Block DOES NOT EXIST	Pr_83498	Family142	Pr_83499	Family246
BlockID: Pra_14	Present				
	Block EXISTS	Pr_73241	Family718	Pr_73242	Family14613
	Block EXISTS	Pr_85222	Family14613	Pr_85223	Family718
BlockID: Pra_15	Present				
	Block DOES NOT EXIST	Pr_72947	No families	Pr_72949	Family64
	Block EXISTS	Pr_77080	Family64	Pr_77081	Family967
	Block EXISTS	Pr_79457	Family656	Pr_79458	Family64
	Block EXISTS	Pr_81559	Family635	Pr_81560	Family656
	Block EXISTS	Pr_81759	Family64	Pr_81760	Family967
	Block EXISTS	Pr_83103	Family490	Pr_83104	Family635
BlockID: Pra_16	Dissimilar families				
	Block DOES NOT EXIST	Pr_78558	Family112	Pr_78559	Family14623
	Block DOES NOT EXIST	Pr_78560	Family14623	Pr_78561	Family1227
BlockID: Pra_17	Dissimilar families				
	Block DOES NOT EXIST	Pr_84561	Family845	Pr_96881	Family8151
	Block DOES NOT EXIST	Pr_84747	Family845	Pr_84748	Family8287
BlockID: Pra_18	Present				
	Block EXISTS	Pr_73292	Family845	Pr_73293	Family556
	Block DOES NOT EXIST	Pr_79475	Family556	Pr_79476	Family30853
	Block EXISTS	Pr_83546	Family6909	Pr_83547	Family845
	Block EXISTS	Pr_84574	Family18688	Pr_84575	Family18689
	Block EXISTS	Pr_84746	Family6909	Pr_84747	Family845
	Block EXISTS	Pr_85564	Family18689	Pr_85565	Family18688
BlockID: Pra_19	Gene missing				
	Block DOES NOT EXIST	Pr_47622	No families	Pr_78752	Family1487
	Block DOES NOT EXIST	Pr_47624	No families	Pr_78757	Family22
BlockID: Pra_2	Present				
	Block EXISTS	Pr_76970	Family1136	Pr_76971	Family1404
	Block EXISTS	Pr_81658	Family1136	Pr_81659	Family1404
BlockID: Pra_20	Dissimilar families				
	Block DOES NOT EXIST	Pr_85349	Family30968	Pr_85350	Family30969

		Block DOES NOT EXIST	Pr_96555	Family11029	Pr_96556	Family31097
BlockID: Pra_21	Dissimilar families					
		Block DOES NOT EXIST	Pr_76236	Family7031	Pr_76237	Family164
		Block DOES NOT EXIST	Pr_78328	Family164	Pr_78329	Family2456
BlockID: Pra_22	Present					
		Block EXISTS	Pr_77656	Family8807	Pr_77657	Family3610
		Block EXISTS	Pr_85331	Family3610	Pr_97104	Family8807
BlockID: Pra_23	Present					
		Block EXISTS	Pr_42921	Family6467	Pr_85361	Family5513
		Block EXISTS	Pr_96499	Family6467	Pr_96500	Family5513
BlockID: Pra_24	Present					
		Block EXISTS	Pr_72932	Family3307	Pr_72933	Family3458
		Block EXISTS	Pr_84157	Family3458	Pr_84158	Family3307
BlockID: Pra_25	Gene missing					
		Block DOES NOT EXIST	Pr_52940	No families	Pr_82640	Family17463
		Block DOES NOT EXIST	Pr_71502	No families	Pr_77264	No families
BlockID: Pra_26	Present					
		Block EXISTS	Pr_74345	Family8482	Pr_74346	Family1694
		Block EXISTS	Pr_84058	Family1694	Pr_84059	Family8482
BlockID: Pra_27	Present					
		Block EXISTS	Pr_76331	Family6	Pr_76332	Family15
		Block EXISTS	Pr_83098	Family15	Pr_83099	Family6
BlockID: Pra_28	Present					
		Block EXISTS	Pr_53735	Family261	Pr_83158	Family1683
		Block EXISTS	Pr_83159	Family1683	Pr_83160	Family261
BlockID: Pra_29	Gene missing					
		Block DOES NOT EXIST	Pr_48644	No families	Pr_79511	Family146
		Block DOES NOT EXIST	Pr_71709	Family107	Pr_79513	Family146
BlockID: Pra_3	Dissimilar families					
		Block EXISTS	Pr_44199	Family23	Pr_76724	Family399
		Block DOES NOT EXIST	Pr_71443	Family23	Pr_76717	Family15571
BlockID: Pra_30	Dissimilar families					
		Block DOES NOT EXIST	Pr_81532	Family1934	Pr_81533	Family1018
		Block DOES NOT EXIST	Pr_81534	Family4456	Pr_81535	Family1018
BlockID: Pra_31	Present					
		Block EXISTS	Pr_83461	Family1999	Pr_83462	Family165
		Block EXISTS	Pr_85046	Family165	Pr_85047	Family1999
BlockID: Pra_32	Present					
		Block EXISTS	Pr_82360	Family18257	Pr_82361	Family1695
		Block EXISTS	Pr_84270	Family18257	Pr_96818	Family1695
BlockID: Pra_33	Dissimilar families					
		Block DOES NOT EXIST	Pr_79459	No families	Pr_79461	Family10916
		Block DOES NOT EXIST	Pr_80168	No families	Pr_80169	Family8376
		Block DOES NOT EXIST	Pr_80537	No families	Pr_80539	Family10916
		Block DOES NOT EXIST	Pr_81001	Family759	Pr_81003	No families
		Block DOES NOT EXIST	Pr_82175	Family759	Pr_82176	Family11219
		Block DOES NOT EXIST	Pr_82503	No families	Pr_82504	Family25584
		Block DOES NOT EXIST	Pr_83504	Family10916	Pr_83505	No families
BlockID: Pra_34	Gene missing					
		Block DOES NOT EXIST	Pr_43521	No families	Pr_76662	No families
		Block DOES NOT EXIST	Pr_49465	No families	Pr_80286	No families
BlockID: Pra_35	Dissimilar families					
		Block DOES NOT EXIST	Pr_49228	No families	Pr_80059	Family11846
		Block DOES NOT EXIST	Pr_52940	No families	Pr_82638	Family759
		Block DOES NOT EXIST	Pr_72171	No families	Pr_83941	Family8376
BlockID: Pra_36	Present					
		Block EXISTS	Pr_71839	Family15	Pr_80873	Family200
		Block EXISTS	Pr_79471	Family200	Pr_79472	Family15
BlockID: Pra_37	Present					
		Block EXISTS	Pr_77655	Family1325	Pr_77656	Family8807

		Block EXISTS	Pr_85333	Family1325	Pr_97104	Family8807
BlockID: Pra_38	Present					
		Block EXISTS	Pr_72684	Family28	Pr_72685	Family2161
		Block EXISTS	Pr_72687	Family2161	Pr_72688	Family28
BlockID: Pra_39	Present					
		Block EXISTS	Pr_83576	Family25	Pr_83577	Family155
		Block EXISTS	Pr_83578	Family25	Pr_83579	Family155
BlockID: Pra_4	Dissimilar families					
		Block DOES NOT EXIST	Pr_83802	Family15515	Pr_83803	Family3202
		Block DOES NOT EXIST	Pr_84987	Family3202	Pr_84988	Family3917
BlockID: Pra_40	Present					
		Block EXISTS	Pr_75664	Family1024	Pr_75665	Family54
		Block EXISTS	Pr_94231	Family54	Pr_94233	Family1024
BlockID: Pra_41	Present					
		Block EXISTS	Pr_72365	Family6865	Pr_85724	Family6536
		Block EXISTS	Pr_85721	Family6865	Pr_85722	Family6536
BlockID: Pra_42	Dissimilar families					
		Block DOES NOT EXIST	Pr_71285	Family62	Pr_75161	Family122
		Block DOES NOT EXIST	Pr_79547	Family62	Pr_79548	Family80
BlockID: Pra_43	Present					
		Block EXISTS	Pr_40437	Family2518	Pr_75414	Family9
		Block EXISTS	Pr_71306	Family2518	Pr_75411	Family9
BlockID: Pra_44	Dissimilar families					
		Block DOES NOT EXIST	Pr_73349	Family9	Pr_73350	Family127
		Block DOES NOT EXIST	Pr_73351	Family174	Pr_73352	Family6792
BlockID: Pra_45	Present (diff. copies)					
		Block DOES NOT EXIST	Pr_82873	Family719	Pr_82874	Family3432
		Block EXISTS	Pr_82876	Family6015	Pr_82877	Family1906
BlockID: Pra_46	Present					
		Block EXISTS	Pr_85097	Family2242	Pr_85098	Family782
		Block EXISTS	Pr_85099	Family782	Pr_85100	Family2242
BlockID: Pra_47	Present					
		Block EXISTS	Pr_71069	Family194	Pr_71070	Family203
		Block EXISTS	Pr_71906	Family194	Pr_71907	Family203
BlockID: Pra_48	Gene missing					
		Block DOES NOT EXIST	Pr_42566	No families	Pr_85284	No families
		Block DOES NOT EXIST	Pr_49751	No families	Pr_80425	No families
BlockID: Pra_5	Present					
		Block EXISTS	Pr_78169	Family187	Pr_78170	Family340
		Block DOES NOT EXIST	Pr_78171	Family340	Pr_78172	Family1520
		Block EXISTS	Pr_78173	Family340	Pr_78174	Family187
BlockID: Pra_50	Dissimilar families					
		Block DOES NOT EXIST	Pr_41853	Family4680	Pr_85111	Family30961
		Block DOES NOT EXIST	Pr_42981	Family4680	Pr_85391	Family4033
BlockID: Pra_51	Dissimilar families					
		Block DOES NOT EXIST	Pr_73259	Family1551	Pr_73260	Family297
		Block DOES NOT EXIST	Pr_73263	Family297	Pr_73264	Family16124
BlockID: Pra_52	Dissimilar families					
		Block DOES NOT EXIST	Pr_76304	Family26	Pr_76305	Family6
		Block DOES NOT EXIST	Pr_76311	Family8562	Pr_76312	Family26
BlockID: Pra_53	Dissimilar families					
		Block DOES NOT EXIST	Pr_73242	Family14613	Pr_73243	Family30743
		Block DOES NOT EXIST	Pr_85221	Family5651	Pr_85222	Family14613
BlockID: Pra_54	Present					
		Block EXISTS	Pr_40367	Family100	Pr_84650	Family191
		Block EXISTS	Pr_85109	Family100	Pr_85110	Family191
BlockID: Pra_55	Present (diff. copies)					
		Block DOES NOT EXIST	Pr_71753	Family39	Pr_79959	Family74
		Block EXISTS	Pr_79970	Family74	Pr_79971	Family1904
BlockID: Pra_56	Present					

	Block EXISTS	Pr_72124	Family6865	Pr_83514	Family569
	Block EXISTS	Pr_72365	Family6865	Pr_85726	Family569
BlockID: Pra_57	Dissimilar families				
	Block DOES NOT EXIST	Pr_84537	Family1097	Pr_84538	Family1496
	Block DOES NOT EXIST	Pr_84541	Family1496	Pr_84542	Family1754
BlockID: Pra_58	Dissimilar families				
	Block DOES NOT EXIST	Pr_80924	Family1207	Pr_80925	Family1755
	Block DOES NOT EXIST	Pr_95260	Family1896	Pr_95261	Family713
BlockID: Pra_59	Present (diff. copies)				
	Block DOES NOT EXIST	Pr_72886	Family365	Pr_72887	Family14611
	Block DOES NOT EXIST	Pr_77154	Family365	Pr_77155	Family1677
	Block EXISTS	Pr_83853	Family322	Pr_83854	Family365
BlockID: Pra_6	Present				
	Block EXISTS	Pr_79588	Family10870	Pr_79589	Family14629
	Block EXISTS	Pr_83556	Family14629	Pr_83557	Family10870
BlockID: Pra_60	Present				
	Block EXISTS	Pr_85084	Family313	Pr_85085	Family475
	Block EXISTS	Pr_85615	Family313	Pr_97140	Family475
BlockID: Pra_61	Present				
	Block EXISTS	Pr_84068	Family10727	Pr_84069	Family12467
	Block EXISTS	Pr_84754	Family12467	Pr_84755	Family10727
BlockID: Pra_62	Dissimilar families				
	Block DOES NOT EXIST	Pr_72108	Family1256	Pr_83360	Family4443
	Block DOES NOT EXIST	Pr_72111	Family1256	Pr_83369	Family9053
BlockID: Pra_63	Present				
	Block EXISTS	Pr_82678	Family181	Pr_82679	Family1075
	Block EXISTS	Pr_82680	Family1075	Pr_82681	Family181
BlockID: Pra_64	Present				
	Block EXISTS	Pr_80529	Family560	Pr_80530	Family1691
	Block EXISTS	Pr_80533	Family1691	Pr_80534	Family560
BlockID: Pra_65	Gene missing				
	Block DOES NOT EXIST	Pr_80907	Family640	Pr_80908	No families
	Block DOES NOT EXIST	Pr_80910	No families	Pr_80911	Family640
BlockID: Pra_66	Present				
	Block EXISTS	Pr_41857	Family67	Pr_85114	Family1675
	Block EXISTS	Pr_41862	Family67	Pr_85120	Family1675
BlockID: Pra_67	Dissimilar families				
	Block DOES NOT EXIST	Pr_75730	Family907	Pr_75731	Family554
	Block DOES NOT EXIST	Pr_80287	Family11038	Pr_80288	No families
	Block DOES NOT EXIST	Pr_81922	No families	Pr_81923	Family554
BlockID: Pra_68	Dissimilar families				
	Block DOES NOT EXIST	Pr_81600	Family81	Pr_81601	Family18596
	Block DOES NOT EXIST	Pr_81613	Family30	Pr_96070	Family30
BlockID: Pra_69	Present				
	Block EXISTS	Pr_82130	Family429	Pr_96244	Family77
	Block EXISTS	Pr_82132	Family429	Pr_82133	Family77
BlockID: Pra_7	Present				
	Block EXISTS	Pr_74930	Family556	Pr_74931	Family2008
	Block EXISTS	Pr_74960	Family2008	Pr_74961	Family556
	Block DOES NOT EXIST	Pr_74962	Family2008	Pr_74963	Family30773
BlockID: Pra_70	Present				
	Block EXISTS	Pr_48733	Family2197	Pr_79706	Family6909
	Block DOES NOT EXIST	Pr_80115	Family18647	Pr_80116	Family556
	Block EXISTS	Pr_80117	Family6909	Pr_80118	Family2197
BlockID: Pra_71	Gene missing				
	Block DOES NOT EXIST	Pr_74297	Family686	Pr_74299	Family4
	Block DOES NOT EXIST	Pr_78057	Family4	Pr_78058	No families
BlockID: Pra_72	Present (diff. copies)				
	Block DOES NOT EXIST	Pr_74231	Family4	Pr_74232	No families
	Block DOES NOT EXIST	Pr_78070	Family4	Pr_78071	Family10348

	Block DOES NOT EXIST	Pr_82362	Family1964	Pr_82363	Family4
	Block EXISTS	Pr_82365	Family1964	Pr_82366	Family4
BlockID: Pra_73	Present				
	Block EXISTS	Pr_74233	Family4	Pr_74234	Family963
	Block EXISTS	Pr_83989	Family963	Pr_83990	Family4
BlockID: Pra_74	Present				
	Block EXISTS	Pr_50148	Family2787	Pr_71817	Family1355
	Block EXISTS	Pr_71696	Family1355	Pr_95374	Family2787
BlockID: Pra_75	Present				
	Block EXISTS	Pr_42003	Family66	Pr_75973	Family129
	Block EXISTS	Pr_71377	Family66	Pr_75965	Family129
	Block EXISTS	Pr_75967	Family129	Pr_75968	Family66
	Block EXISTS	Pr_75969	Family129	Pr_75970	Family66
BlockID: Pra_76	Gene missing				
	Block DOES NOT EXIST	Pr_76273	Family16153	Pr_76274	No families
	Block DOES NOT EXIST	Pr_83937	No families	Pr_83938	No families
BlockID: Pra_77	Present				
	Block EXISTS	Pr_72933	Family3458	Pr_72934	Family3457
	Block EXISTS	Pr_84156	Family3457	Pr_84157	Family3458
BlockID: Pra_78	Dissimilar families				
	Block DOES NOT EXIST	Pr_83225	Family12266	Pr_96555	Family11029
	Block DOES NOT EXIST	Pr_85350	Family30969	Pr_85351	Family12266
BlockID: Pra_79	Dissimilar families				
	Block DOES NOT EXIST	Pr_43055	Family34	Pr_76471	Family15061
	Block DOES NOT EXIST	Pr_76470	Family15061	Pr_94491	Family11
BlockID: Pra_8	Dissimilar families				
	Block DOES NOT EXIST	Pr_74979	Family556	Pr_74980	Family10996
	Block DOES NOT EXIST	Pr_84745	Family10996	Pr_84746	Family6909
	Block DOES NOT EXIST	Pr_84913	Family18599	Pr_84914	Family556
BlockID: Pra_80	Dissimilar families				
	Block DOES NOT EXIST	Pr_40722	Family13464	Pr_84765	Family352
	Block EXISTS	Pr_85408	Family11	Pr_85409	Family351
BlockID: Pra_81	Gene missing				
	Block DOES NOT EXIST	Pr_39486	Family30702	Pr_84275	No families
	Block DOES NOT EXIST	Pr_52427	No families	Pr_74305	Family638
BlockID: Pra_82	Dissimilar families				
	Block DOES NOT EXIST	Pr_72172	Family58	Pr_83945	Family14303
	Block DOES NOT EXIST	Pr_83941	Family8376	Pr_83942	Family58
BlockID: Pra_83	Present (diff. copies)				
	Block DOES NOT EXIST	Pr_78779	Family2901	Pr_78780	Family806
	Block EXISTS	Pr_78782	Family806	Pr_78783	Family307
BlockID: Pra_84	Present (diff. copies)				
	Block EXISTS	Pr_83699	Family1564	Pr_96650	Family196
	Block DOES NOT EXIST	Pr_83700	Family12384	Pr_83701	Family196
BlockID: Pra_85	Dissimilar families				
	Block DOES NOT EXIST	Pr_77070	Family562	Pr_77071	Family30815
	Block DOES NOT EXIST	Pr_77140	Family6124	Pr_77141	Family562
BlockID: Pra_86	Dissimilar families				
	Block DOES NOT EXIST	Pr_44065	Family157	Pr_76765	Family1721
	Block EXISTS	Pr_76761	Family1721	Pr_76762	Family975
BlockID: Pra_87	Dissimilar families				
	Block DOES NOT EXIST	Pr_85096	Family15145	Pr_85097	Family2242
	Block DOES NOT EXIST	Pr_85100	Family2242	Pr_85101	Family3186
BlockID: Pra_88	Present				
	Block EXISTS	Pr_80732	Family165	Pr_80733	Family18653
	Block EXISTS	Pr_80734	Family18653	Pr_80735	Family165
BlockID: Pra_89	Present				
	Block EXISTS	Pr_77845	Family884	Pr_77846	Family9
	Block EXISTS	Pr_77847	Family9	Pr_77848	Family884
BlockID: Pra_9	Dissimilar families				

	Block DOES NOT EXIST	Pr_83387	Family556	Pr_83388	Family30929
	Block DOES NOT EXIST	Pr_84691	Family556	Pr_84692	Family30954
BlockID: Pra_90	Present				
	Block EXISTS	Pr_71296	Family740	Pr_75271	Family228
	Block EXISTS	Pr_71567	Family740	Pr_77924	Family228
	Block EXISTS	Pr_72376	Family740	Pr_85848	Family228
BlockID: Pra_91	Present				
	Block EXISTS	Pr_85360	Family4239	Pr_85361	Family5513
	Block EXISTS	Pr_96500	Family5513	Pr_96502	Family4239
BlockID: Pra_92	Present				
	Block EXISTS	Pr_79190	Family724	Pr_79191	Family725
	Block EXISTS	Pr_83764	Family725	Pr_83765	Family724
BlockID: Pra_93	Present				
	Block EXISTS	Pr_85217	Family570	Pr_85218	Family5396
	Block EXISTS	Pr_85338	Family5396	Pr_85339	Family570
BlockID: Pra_94	Dissimilar families				
	Block DOES NOT EXIST	Pr_78806	No families	Pr_78807	Family2313
	Block EXISTS	Pr_85224	Family2313	Pr_85225	Family3489
BlockID: Pra_95	Present				
	Block EXISTS	Pr_79218	Family481	Pr_79219	Family268
	Block EXISTS	Pr_79224	Family268	Pr_79225	Family481
BlockID: Pra_96	Present				
	Block EXISTS	Pr_82715	Family671	Pr_82716	Family148
	Block EXISTS	Pr_82719	Family148	Pr_82720	Family671
	Block DOES NOT EXIST	Pr_84119	Family16686	Pr_84120	Family148
BlockID: Pra_97	Present				
	Block EXISTS	Pr_75880	Family1198	Pr_75881	Family982
	Block EXISTS	Pr_75884	Family982	Pr_75885	Family1198
BlockID: Pra_98	Dissimilar families				
	Block DOES NOT EXIST	Pr_83228	Family8449	Pr_96556	Family31097
	Block DOES NOT EXIST	Pr_85348	Family102	Pr_85349	Family30968
BlockID: Pra_99	Dissimilar families				
	Block DOES NOT EXIST	Pr_74366	Family102	Pr_74367	Family4
	Block DOES NOT EXIST	Pr_74368	Family30764	Pr_74369	Family4
BlockID: Pso_1	Dissimilar families				
	Block DOES NOT EXIST	Ps_136148	Family8	Ps_136149	Family1793
	Block DOES NOT EXIST	Ps_136162	Family472	Ps_136163	Family8
BlockID: Pso_10	Present				
	Block EXISTS	Ps_128078	Family2860	Ps_128079	Family1969
	Block DOES NOT EXIST	Ps_130015	Family23442	Ps_130016	Family432
	Block EXISTS	Ps_130806	Family2860	Ps_130807	Family1969
	Block DOES NOT EXIST	Ps_132082	Family16005	Ps_132083	No families
	Block EXISTS	Ps_132112	Family2860	Ps_132113	Family1969
	Block DOES NOT EXIST	Ps_132126	Family2860	Ps_132127	Family6421
	Block EXISTS	Ps_132493	Family10764	Ps_132495	Family432
	Block DOES NOT EXIST	Ps_134071	Family1969	Ps_134072	No families
	Block EXISTS	Ps_134389	Family10764	Ps_134390	Family432
	Block DOES NOT EXIST	Ps_134396	Family31571	Ps_134397	Family432
	Block DOES NOT EXIST	Ps_136079	No families	Ps_136080	Family1969
	Block DOES NOT EXIST	Ps_137391	Family432	Ps_137392	No families
	Block DOES NOT EXIST	Ps_138660	Family1969	Ps_138662	Family18809
	Block DOES NOT EXIST	Ps_139944	Family28585	Ps_139946	Family432
	Block DOES NOT EXIST	Ps_142440	Family13506	Ps_142441	No families
	Block EXISTS	Ps_143217	Family1969	Ps_143220	Family18238
	Block DOES NOT EXIST	Ps_143313	Family14416	Ps_143315	Family432
BlockID: Pso_100	Present				
	Block EXISTS	Ps_130335	Family1721	Ps_130336	Family975
	Block EXISTS	Ps_130337	Family975	Ps_130338	Family1721
BlockID: Pso_101	Present (diff. copies)				
	Block EXISTS	Ps_140480	Family121	Ps_140481	Family1402

	Block DOES NOT EXIST	Ps_140482	Family12453	Ps_140483	Family121
BlockID: Pso_102 Gene missing					
	Block DOES NOT EXIST	Ps_129701	Family9	Ps_129702	No families
	Block DOES NOT EXIST	Ps_139298	No families	Ps_139299	Family9
BlockID: Pso_103 Dissimilar families					
	Block DOES NOT EXIST	Ps_129267	Family16331	Ps_129268	Family75
	Block EXISTS	Ps_129560	Family743	Ps_129561	Family75
BlockID: Pso_104 Present					
	Block DOES NOT EXIST	Ps_137149	Family10419	Ps_137150	Family1479
	Block EXISTS	Ps_137211	Family58	Ps_137212	Family1479
	Block EXISTS	Ps_138901	Family58	Ps_138902	Family1479
	Block EXISTS	Ps_141990	Family58	Ps_141991	Family1479
	Block EXISTS	Ps_143081	Family1479	Ps_143082	Family58
BlockID: Pso_105 Present					
	Block EXISTS	Ps_130353	Family1479	Ps_130354	Family698
	Block EXISTS	Ps_137150	Family1479	Ps_137151	Family698
	Block EXISTS	Ps_142396	Family1479	Ps_142397	Family698
BlockID: Pso_106 Present					
	Block DOES NOT EXIST	Ps_132003	Family38	Ps_132004	Family10696
	Block EXISTS	Ps_132042	Family25	Ps_132043	Family38
	Block EXISTS	Ps_139169	Family38	Ps_139170	Family25
	Block EXISTS	Ps_141138	Family38	Ps_141139	Family3145
	Block EXISTS	Ps_141150	Family38	Ps_141152	Family3145
	Block EXISTS	Ps_142146	Family38	Ps_142147	Family25
	Block DOES NOT EXIST	Ps_144157	Family25	Ps_144158	Family473
BlockID: Pso_107 Present					
	Block EXISTS	Ps_135482	Family84	Ps_135483	Family38
	Block EXISTS	Ps_138608	Family38	Ps_138609	Family84
BlockID: Pso_108 Dissimilar families					
	Block DOES NOT EXIST	Ps_128100	Family38	Ps_128101	Family18790
	Block DOES NOT EXIST	Ps_128103	Family18790	Ps_128104	Family726
BlockID: Pso_109 Present					
	Block DOES NOT EXIST	Ps_115857	Family491	Ps_133938	Family16745
	Block EXISTS	Ps_133330	Family113	Ps_133331	Family491
	Block EXISTS	Ps_133936	Family491	Ps_133937	Family113
BlockID: Pso_11 Gene missing					
	Block DOES NOT EXIST	Ps_131665	Family270	Ps_131666	No families
	Block DOES NOT EXIST	Ps_131678	No families	Ps_131679	Family270
BlockID: Pso_110 Present					
	Block EXISTS	Ps_144653	Family4977	Ps_144654	Family2316
	Block EXISTS	Ps_144656	Family2316	Ps_144657	Family4977
BlockID: Pso_111 Gene missing					
	Block DOES NOT EXIST	Ps_139665	Family683	Ps_139666	No families
	Block DOES NOT EXIST	Ps_143765	No families	Ps_143766	Family683
BlockID: Pso_112 Gene missing					
	Block DOES NOT EXIST	Ps_130154	No families	Ps_130155	Family9902
	Block DOES NOT EXIST	Ps_131742	Family6979	Ps_131743	No families
BlockID: Pso_113 Dissimilar families					
	Block DOES NOT EXIST	Ps_129289	Family31410	Ps_129290	Family75
	Block EXISTS	Ps_129297	Family421	Ps_129298	Family75
BlockID: Pso_114 Gene missing					
	Block DOES NOT EXIST	Ps_136256	No families	Ps_136257	Family18166
	Block DOES NOT EXIST	Ps_142086	No families	Ps_142087	Family18166
BlockID: Pso_115 Dissimilar families					
	Block DOES NOT EXIST	Ps_127051	Family117	Ps_127053	No families
	Block DOES NOT EXIST	Ps_130611	No families	Ps_130612	Family117
	Block DOES NOT EXIST	Ps_135734	Family386	Ps_135735	No families
	Block DOES NOT EXIST	Ps_138492	Family10948	Ps_138494	Family386
	Block DOES NOT EXIST	Ps_144023	Family117	Ps_144025	No families
BlockID: Pso_116 Dissimilar families					

	Block DOES NOT EXIST	Ps_111966	Family18761	Ps_129487	Family12285
	Block DOES NOT EXIST	Ps_115742	Family31189	Ps_115743	Family197
BlockID: Pso_117 Gene missing					
	Block DOES NOT EXIST	Ps_131839	No families	Ps_131840	Family1646
	Block DOES NOT EXIST	Ps_143242	Family1646	Ps_143243	No families
BlockID: Pso_118 Dissimilar families					
	Block DOES NOT EXIST	Ps_129693	Family31422	Ps_129694	Family117
	Block DOES NOT EXIST	Ps_132885	Family18793	Ps_132886	Family2021
	Block DOES NOT EXIST	Ps_140829	Family386	Ps_140833	Family14671
	Block DOES NOT EXIST	Ps_144518	Family117	Ps_144519	Family12500
BlockID: Pso_119 Present (diff. copies)					
	Block EXISTS	Ps_133798	Family386	Ps_133799	Family4
	Block DOES NOT EXIST	Ps_139191	Family117	Ps_139192	Family4
BlockID: Pso_12 Dissimilar families					
	Block DOES NOT EXIST	Ps_135533	Family79	Ps_135534	Family89
	Block DOES NOT EXIST	Ps_141316	Family9791	Ps_141317	Family79
BlockID: Pso_120 Dissimilar families					
	Block DOES NOT EXIST	Ps_127050	Family2	Ps_127051	Family117
	Block DOES NOT EXIST	Ps_132799	Family117	Ps_132800	Family1213
BlockID: Pso_121 Gene missing					
	Block DOES NOT EXIST	Ps_129127	Family386	Ps_129129	No families
	Block DOES NOT EXIST	Ps_131984	No families	Ps_131985	Family117
BlockID: Pso_122 Present					
	Block EXISTS	Ps_128066	Family84	Ps_128069	Family117
	Block EXISTS	Ps_139823	Family117	Ps_139825	Family84
BlockID: Pso_123 Gene missing					
	Block DOES NOT EXIST	Ps_129542	No families	Ps_129543	Family117
	Block DOES NOT EXIST	Ps_143655	Family117	Ps_143660	Family12285
BlockID: Pso_124 Present (diff. copies)					
	Block DOES NOT EXIST	Ps_129905	Family117	Ps_129908	Family11941
	Block DOES NOT EXIST	Ps_130970	Family386	Ps_130972	Family11793
	Block EXISTS	Ps_137712	Family386	Ps_137714	Family4
BlockID: Pso_125 Present					
	Block EXISTS	Ps_129460	Family14670	Ps_129461	Family12503
	Block EXISTS	Ps_129621	Family12503	Ps_129622	Family14670
BlockID: Pso_126 Present					
	Block EXISTS	Ps_141973	Family231	Ps_141974	Family356
	Block EXISTS	Ps_141975	Family356	Ps_141976	Family231
BlockID: Pso_127 Present					
	Block EXISTS	Ps_108703	Family223	Ps_133444	Family289
	Block EXISTS	Ps_131520	Family289	Ps_131521	Family223
BlockID: Pso_128 Present					
	Block EXISTS	Ps_109654	Family2789	Ps_144596	Family2027
	Block EXISTS	Ps_143826	Family2027	Ps_143827	Family2789
BlockID: Pso_129 Dissimilar families					
	Block DOES NOT EXIST	Ps_134650	Family7531	Ps_134651	Family548
	Block DOES NOT EXIST	Ps_134656	Family1602	Ps_157017	Family548
BlockID: Pso_13 Dissimilar families					
	Block DOES NOT EXIST	Ps_132699	Family1076	Ps_156551	Family6175
	Block DOES NOT EXIST	Ps_135329	Family1076	Ps_135330	Family1069
BlockID: Pso_130 Present					
	Block EXISTS	Ps_141895	Family853	Ps_141896	Family206
	Block EXISTS	Ps_142215	Family206	Ps_158491	Family853
BlockID: Pso_131 Gene missing					
	Block DOES NOT EXIST	Ps_129903	Family8702	Ps_129904	No families
	Block DOES NOT EXIST	Ps_144897	No families	Ps_144898	Family31943
BlockID: Pso_132 Gene missing					
	Block DOES NOT EXIST	Ps_141914	Family233	Ps_141915	No families
	Block DOES NOT EXIST	Ps_142408	Family233	Ps_142410	Family2
BlockID: Pso_133 Gene missing					

	Block DOES NOT EXIST	Ps_136669	Family2043	Ps_136670	No families
	Block DOES NOT EXIST	Ps_143954	No families	Ps_143955	Family2043
BlockID: Pso_134 Dissimilar families					
	Block DOES NOT EXIST	Ps_127638	Family31355	Ps_127639	Family4845
	Block DOES NOT EXIST	Ps_131325	Family4845	Ps_131326	Family31474
BlockID: Pso_135 Present					
	Block EXISTS	Ps_142760	Family41	Ps_142761	Family3118
	Block EXISTS	Ps_143984	Family41	Ps_143986	Family3118
BlockID: Pso_136 Dissimilar families					
	Block DOES NOT EXIST	Ps_108330	Family8622	Ps_129021	No families
	Block DOES NOT EXIST	Ps_111565	Family303	Ps_129035	Family539
BlockID: Pso_137 Dissimilar families					
	Block DOES NOT EXIST	Ps_139693	Family802	Ps_139694	Family9
	Block DOES NOT EXIST	Ps_139696	Family802	Ps_139699	Family10573
BlockID: Pso_138 Present					
	Block EXISTS	Ps_127493	Family222	Ps_127495	Family117
	Block EXISTS	Ps_134513	Family222	Ps_134517	Family117
	Block EXISTS	Ps_137742	Family222	Ps_137744	Family117
	Block DOES NOT EXIST	Ps_138989	Family222	Ps_138990	Family386
	Block DOES NOT EXIST	Ps_141779	Family117	Ps_141780	Family1113
	Block EXISTS	Ps_143247	Family222	Ps_143250	Family117
BlockID: Pso_139 Present					
	Block EXISTS	Ps_130788	Family21	Ps_130789	Family95
	Block EXISTS	Ps_130803	Family21	Ps_130804	Family95
BlockID: Pso_14 Dissimilar families					
	Block DOES NOT EXIST	Ps_136988	Family75	Ps_136989	Family274
	Block DOES NOT EXIST	Ps_144704	Family1977	Ps_144705	Family274
BlockID: Pso_140 Present (diff. copies)					
	Block EXISTS	Ps_137950	Family4618	Ps_137951	Family715
	Block DOES NOT EXIST	Ps_142882	Family17890	Ps_142883	Family4618
BlockID: Pso_141 Dissimilar families					
	Block DOES NOT EXIST	Ps_143904	Family136	Ps_143905	Family8812
	Block DOES NOT EXIST	Ps_143906	Family467	Ps_143907	Family136
BlockID: Pso_142 Present					
	Block DOES NOT EXIST	Ps_127138	Family25552	Ps_127139	Family64
	Block EXISTS	Ps_127475	Family656	Ps_127476	Family64
	Block DOES NOT EXIST	Ps_128092	No families	Ps_128093	Family64
	Block EXISTS	Ps_128849	Family967	Ps_128850	Family64
	Block EXISTS	Ps_129016	Family967	Ps_129017	Family64
	Block EXISTS	Ps_130532	Family967	Ps_130533	Family64
	Block EXISTS	Ps_130742	Family656	Ps_130743	Family635
	Block DOES NOT EXIST	Ps_130839	Family64	Ps_130840	No families
	Block DOES NOT EXIST	Ps_131751	No families	Ps_131752	Family64
	Block EXISTS	Ps_131894	Family64	Ps_131895	Family10731
	Block EXISTS	Ps_132216	Family967	Ps_132217	Family64
	Block EXISTS	Ps_132879	Family64	Ps_132880	Family967
	Block EXISTS	Ps_133101	Family64	Ps_133102	Family967
	Block DOES NOT EXIST	Ps_133103	Family64	Ps_133104	No families
	Block EXISTS	Ps_133843	Family656	Ps_133844	Family64
	Block EXISTS	Ps_135092	Family656	Ps_135093	Family635
	Block EXISTS	Ps_136516	Family490	Ps_136517	Family64
	Block EXISTS	Ps_137183	Family64	Ps_137184	Family656
	Block EXISTS	Ps_138149	Family64	Ps_138150	Family10731
	Block EXISTS	Ps_138535	Family967	Ps_138536	Family64
	Block EXISTS	Ps_138837	Family64	Ps_138838	Family967
	Block DOES NOT EXIST	Ps_138951	No families	Ps_138952	Family31725
	Block EXISTS	Ps_139062	Family64	Ps_139063	Family10731
	Block EXISTS	Ps_141970	Family656	Ps_141971	Family64
	Block EXISTS	Ps_143844	Family656	Ps_143845	Family635
	Block DOES NOT EXIST	Ps_144187	No families	Ps_144188	Family64

BlockID: Pso_143 Present					
	Block EXISTS	Ps_120228	Family740	Ps_139405	Family228
	Block EXISTS	Ps_136457	Family740	Ps_136458	Family228
	Block EXISTS	Ps_139400	Family740	Ps_139401	Family228
BlockID: Pso_144 Gene missing					
	Block DOES NOT EXIST	Ps_132590	No families	Ps_132591	Family84
	Block DOES NOT EXIST	Ps_141876	Family84	Ps_141877	No families
BlockID: Pso_145 Present					
	Block EXISTS	Ps_135764	Family1012	Ps_135765	Family10064
	Block EXISTS	Ps_158968	Family10064	Ps_158969	Family1012
BlockID: Pso_146 Present					
	Block DOES NOT EXIST	Ps_137147	Family698	Ps_137148	Family4710
	Block EXISTS	Ps_138905	Family14439	Ps_138906	Family698
	Block EXISTS	Ps_141430	Family698	Ps_141431	Family6914
	Block EXISTS	Ps_141433	Family698	Ps_141434	Family14439
	Block EXISTS	Ps_143762	Family698	Ps_143763	Family6914
BlockID: Pso_147 Present					
	Block EXISTS	Ps_135217	Family581	Ps_135218	Family8521
	Block EXISTS	Ps_135219	Family581	Ps_135220	Family8521
BlockID: Pso_148 Gene missing					
	Block DOES NOT EXIST	Ps_132038	Family553	Ps_132039	No families
	Block DOES NOT EXIST	Ps_134401	Family31572	Ps_134402	No families
BlockID: Pso_149 Present					
	Block EXISTS	Ps_127831	Family8457	Ps_127832	Family1079
	Block EXISTS	Ps_138463	Family1079	Ps_138464	Family8457
BlockID: Pso_15 Dissimilar families					
	Block DOES NOT EXIST	Ps_132225	Family673	Ps_132226	Family31501
	Block DOES NOT EXIST	Ps_132227	Family52	Ps_132228	Family8816
	Block DOES NOT EXIST	Ps_140272	Family673	Ps_140273	Family8816
BlockID: Pso_150 Present					
	Block EXISTS	Ps_129395	Family827	Ps_129396	Family1974
	Block EXISTS	Ps_140570	Family1974	Ps_140571	Family827
BlockID: Pso_151 Present					
	Block EXISTS	Ps_131237	Family585	Ps_131238	Family1078
	Block EXISTS	Ps_133241	Family1078	Ps_133243	Family585
	Block DOES NOT EXIST	Ps_143134	Family585	Ps_158705	Family8391
BlockID: Pso_152 Dissimilar families					
	Block DOES NOT EXIST	Ps_109644	Family7	Ps_144505	Family1911
	Block DOES NOT EXIST	Ps_139316	Family676	Ps_139317	Family7
BlockID: Pso_153 Dissimilar families					
	Block DOES NOT EXIST	Ps_140053	Family29433	Ps_140054	Family6189
	Block DOES NOT EXIST	Ps_140056	Family6189	Ps_140057	Family1401
BlockID: Pso_154 Dissimilar families					
	Block DOES NOT EXIST	Ps_140693	Family733	Ps_140694	Family53
	Block DOES NOT EXIST	Ps_140708	Family606	Ps_140709	Family733
BlockID: Pso_155 Gene missing					
	Block DOES NOT EXIST	Ps_137295	No families	Ps_137296	Family12511
	Block DOES NOT EXIST	Ps_137297	Family12511	Ps_137298	No families
BlockID: Pso_156 Gene missing					
	Block DOES NOT EXIST	Ps_138537	Family74	Ps_138538	Family18843
	Block DOES NOT EXIST	Ps_138542	No families	Ps_138543	Family74
BlockID: Pso_157 Gene missing					
	Block DOES NOT EXIST	Ps_138682	Family6191	Ps_138683	No families
	Block DOES NOT EXIST	Ps_143546	No families	Ps_143547	Family6191
BlockID: Pso_158 Dissimilar families					
	Block DOES NOT EXIST	Ps_128390	Family84	Ps_128392	Family10764
	Block DOES NOT EXIST	Ps_139943	Family84	Ps_139944	Family28585
BlockID: Pso_159 Present					
	Block EXISTS	Ps_138764	Family64	Ps_138765	Family84
	Block EXISTS	Ps_139060	Family84	Ps_139062	Family64

BlockID: Pso_16 Present (diff. copies)					
	Block EXISTS	Ps_109619	Family250	Ps_144173	Family52
	Block DOES NOT EXIST	Ps_124664	Family673	Ps_144176	Family250
BlockID: Pso_160 Present					
	Block EXISTS	Ps_108235	Family112	Ps_128058	Family84
	Block EXISTS	Ps_108238	Family112	Ps_128066	Family84
BlockID: Pso_161 Gene missing					
	Block DOES NOT EXIST	Ps_138109	No families	Ps_138110	Family84
	Block DOES NOT EXIST	Ps_141516	Family84	Ps_141517	Family11386
BlockID: Pso_162 Dissimilar families					
	Block DOES NOT EXIST	Ps_131174	Family165	Ps_131175	Family6892
	Block DOES NOT EXIST	Ps_131176	Family755	Ps_131177	Family165
BlockID: Pso_163 Present					
	Block DOES NOT EXIST	Ps_140284	No families	Ps_140285	Family654
	Block EXISTS	Ps_141659	Family654	Ps_141660	Family7
	Block EXISTS	Ps_141663	Family7	Ps_141664	Family654
BlockID: Pso_164 Present					
	Block EXISTS	Ps_133852	Family9364	Ps_133853	Family165
	Block EXISTS	Ps_133855	Family9364	Ps_133856	Family165
BlockID: Pso_165 Present (diff. copies)					
	Block EXISTS	Ps_132224	Family12503	Ps_132225	Family673
	Block DOES NOT EXIST	Ps_140270	Family52	Ps_140271	Family12503
BlockID: Pso_166 Gene missing					
	Block DOES NOT EXIST	Ps_130561	No families	Ps_130562	No families
	Block DOES NOT EXIST	Ps_132904	Family244	Ps_132905	No families
	Block DOES NOT EXIST	Ps_140484	Family1267	Ps_140485	No families
BlockID: Pso_167 Gene missing					
	Block DOES NOT EXIST	Ps_140619	Family244	Ps_140620	No families
	Block DOES NOT EXIST	Ps_142158	No families	Ps_142159	No families
BlockID: Pso_168 Present					
	Block EXISTS	Ps_139989	Family1036	Ps_139990	Family239
	Block EXISTS	Ps_140001	Family239	Ps_140002	Family1036
BlockID: Pso_169 Dissimilar families					
	Block EXISTS	Ps_130470	Family1404	Ps_130471	Family1136
	Block DOES NOT EXIST	Ps_132072	Family1136	Ps_132073	Family15610
BlockID: Pso_17 Present (diff. copies)					
	Block DOES NOT EXIST	Ps_134036	Family11969	Ps_134038	Family12299
	Block EXISTS	Ps_141027	Family14023	Ps_141028	Family12299
BlockID: Pso_170 Dissimilar families					
	Block DOES NOT EXIST	Ps_109283	Family13853	Ps_140348	Family1252
	Block DOES NOT EXIST	Ps_140345	Family1252	Ps_140346	Family154
BlockID: Pso_171 Present					
	Block EXISTS	Ps_131939	Family170	Ps_131940	Family1138
	Block EXISTS	Ps_141758	Family1138	Ps_141759	Family170
BlockID: Pso_172 Gene missing					
	Block DOES NOT EXIST	Ps_113004	Family641	Ps_130564	Family27
	Block DOES NOT EXIST	Ps_130565	No families	Ps_130566	Family27
BlockID: Pso_173 Present					
	Block EXISTS	Ps_138389	Family15	Ps_138390	Family11608
	Block EXISTS	Ps_139420	Family15	Ps_139421	Family11608
BlockID: Pso_174 Present					
	Block EXISTS	Ps_132585	Family66	Ps_132586	Family129
	Block EXISTS	Ps_132595	Family66	Ps_132597	Family129
BlockID: Pso_175 Present (diff. copies)					
	Block DOES NOT EXIST	Ps_128824	Family1066	Ps_128825	No families
	Block DOES NOT EXIST	Ps_131290	Family1066	Ps_131291	No families
	Block EXISTS	Ps_143952	Family233	Ps_143953	Family1066
	Block DOES NOT EXIST	Ps_144194	Family1066	Ps_144195	No families
BlockID: Pso_176 Present					
	Block EXISTS	Ps_108381	Family513	Ps_129396	Family1974

	Block EXISTS	Ps_140569	Family513	Ps_140570	Family1974
BlockID: Pso_177 Dissimilar families					
	Block DOES NOT EXIST	Ps_139001	Family755	Ps_139002	Family6734
	Block DOES NOT EXIST	Ps_139006	Family446	Ps_139007	Family1679
BlockID: Pso_178 Present					
	Block EXISTS	Ps_108239	Family112	Ps_110682	Family14658
	Block EXISTS	Ps_110691	Family112	Ps_128075	Family14658
	Block EXISTS	Ps_110709	Family112	Ps_110713	Family14658
BlockID: Pso_179 Dissimilar families					
	Block DOES NOT EXIST	Ps_138566	Family11647	Ps_138567	Family33
	Block DOES NOT EXIST	Ps_138568	Family33	Ps_138569	Family7958
BlockID: Pso_18 Present					
	Block EXISTS	Ps_109553	Family2286	Ps_143353	Family18837
	Block EXISTS	Ps_118708	Family2286	Ps_137510	Family18837
BlockID: Pso_180 Present					
	Block EXISTS	Ps_108627	Family559	Ps_132443	Family2114
	Block EXISTS	Ps_109504	Family559	Ps_142727	Family2114
BlockID: Pso_181 Present					
	Block EXISTS	Ps_108581	Family1412	Ps_131700	Family524
	Block EXISTS	Ps_108582	Family1412	Ps_131702	Family524
BlockID: Pso_182 Present					
	Block EXISTS	Ps_110348	Family18759	Ps_110356	Family14657
	Block EXISTS	Ps_125450	Family14657	Ps_125453	Family18759
BlockID: Pso_183 Present					
	Block EXISTS	Ps_130852	Family724	Ps_130853	Family725
	Block EXISTS	Ps_139082	Family724	Ps_139083	Family725
	Block EXISTS	Ps_141060	Family724	Ps_141061	Family725
BlockID: Pso_184 Present					
	Block EXISTS	Ps_140630	Family1913	Ps_140631	Family1912
	Block EXISTS	Ps_143477	Family1913	Ps_143478	Family1912
BlockID: Pso_185 Gene missing					
	Block DOES NOT EXIST	Ps_134316	Family16579	Ps_134318	No families
	Block DOES NOT EXIST	Ps_134321	Family10638	Ps_134322	Family16579
BlockID: Pso_186 Present					
	Block EXISTS	Ps_134611	Family6390	Ps_134612	Family53
	Block EXISTS	Ps_139430	Family6390	Ps_139431	Family53
BlockID: Pso_187 Present					
	Block EXISTS	Ps_128347	Family901	Ps_128348	Family2614
	Block EXISTS	Ps_143533	Family2614	Ps_143534	Family901
	Block DOES NOT EXIST	Ps_143818	Family2614	Ps_143819	Family233
BlockID: Pso_188 Present					
	Block EXISTS	Ps_132454	Family982	Ps_132455	Family1198
	Block EXISTS	Ps_132458	Family982	Ps_132459	Family1739
BlockID: Pso_189 Present					
	Block EXISTS	Ps_130879	Family10504	Ps_130880	Family11042
	Block EXISTS	Ps_130940	Family10504	Ps_130941	Family11042
	Block EXISTS	Ps_138598	Family11042	Ps_138599	Family10504
BlockID: Pso_19 Present					
	Block EXISTS	Ps_109178	Family107	Ps_138872	Family39
	Block EXISTS	Ps_138876	Family107	Ps_138877	Family39
BlockID: Pso_190 Dissimilar families					
	Block DOES NOT EXIST	Ps_141354	Family11709	Ps_141355	Family9802
	Block DOES NOT EXIST	Ps_141391	Family9802	Ps_141392	Family12111
BlockID: Pso_191 Dissimilar families					
	Block DOES NOT EXIST	Ps_109431	Family1130	Ps_141905	Family7295
	Block DOES NOT EXIST	Ps_109432	Family1130	Ps_141912	Family2
BlockID: Pso_192 Dissimilar families					
	Block DOES NOT EXIST	Ps_135852	Family2	Ps_135853	Family5166
	Block DOES NOT EXIST	Ps_156556	Family3222	Ps_156558	Family2
BlockID: Pso_193 Present					

	Block EXISTS	Ps_128204	Family9390	Ps_128205	Family2
	Block EXISTS	Ps_141912	Family2	Ps_141913	Family9390
BlockID: Pso_194 Present					
	Block EXISTS	Ps_109578	Family7	Ps_143680	Family2
	Block EXISTS	Ps_138853	Family7	Ps_138854	Family2
BlockID: Pso_195 Present					
	Block EXISTS	Ps_131096	Family2	Ps_131097	Family8
	Block EXISTS	Ps_131109	Family2	Ps_131110	Family8
BlockID: Pso_196 Present					
	Block EXISTS	Ps_135757	Family86	Ps_135758	Family2
	Block EXISTS	Ps_136289	Family2	Ps_136290	Family86
BlockID: Pso_197 Dissimilar families					
	Block DOES NOT EXIST	Ps_130151	Family12299	Ps_130153	Family554
	Block DOES NOT EXIST	Ps_130694	Family12379	Ps_130696	Family554
BlockID: Pso_198 Present					
	Block EXISTS	Ps_134986	Family1703	Ps_134987	Family8498
	Block EXISTS	Ps_138978	Family1703	Ps_138979	Family8498
	Block DOES NOT EXIST	Ps_143192	Family6650	Ps_143193	Family1703
BlockID: Pso_199 Dissimilar families					
	Block DOES NOT EXIST	Ps_135908	Family103	Ps_135909	Family17145
	Block DOES NOT EXIST	Ps_135910	Family237	Ps_135911	Family103
BlockID: Pso_2 Present (diff. copies)					
	Block DOES NOT EXIST	Ps_138399	Family31705	Ps_138400	Family18841
	Block EXISTS	Ps_142341	Family18841	Ps_142342	Family310
BlockID: Pso_20 Present					
	Block EXISTS	Ps_131970	Family58	Ps_131972	Family432
	Block EXISTS	Ps_141435	Family58	Ps_141436	Family432
BlockID: Pso_200 Gene missing					
	Block DOES NOT EXIST	Ps_139109	Family268	Ps_139110	No families
	Block DOES NOT EXIST	Ps_139112	Family268	Ps_139113	Family638
BlockID: Pso_201 Present					
	Block EXISTS	Ps_123918	Family350	Ps_143557	Family11735
	Block EXISTS	Ps_123922	Family350	Ps_143565	Family86
	Block EXISTS	Ps_143738	Family86	Ps_143739	Family350
BlockID: Pso_202 Present					
	Block EXISTS	Ps_128616	Family1018	Ps_128617	Family4456
	Block EXISTS	Ps_128618	Family4456	Ps_128619	Family1018
BlockID: Pso_203 Present					
	Block EXISTS	Ps_132294	Family2620	Ps_132295	Family7935
	Block EXISTS	Ps_132297	Family7935	Ps_132298	Family2620
BlockID: Pso_204 Present					
	Block DOES NOT EXIST	Ps_119018	Family18562	Ps_138040	Family11020
	Block DOES NOT EXIST	Ps_137148	Family4710	Ps_137149	Family10419
	Block EXISTS	Ps_138900	Family4710	Ps_138901	Family58
	Block DOES NOT EXIST	Ps_141434	Family14439	Ps_141435	Family58
	Block DOES NOT EXIST	Ps_141989	Family8089	Ps_141990	Family58
	Block EXISTS	Ps_143089	Family58	Ps_143090	Family4710
	Block DOES NOT EXIST	Ps_143763	Family6914	Ps_143764	Family10419
	Block EXISTS	Ps_144851	Family4710	Ps_144852	Family58
BlockID: Pso_205 Dissimilar families					
	Block DOES NOT EXIST	Ps_113434	Family16502	Ps_131018	Family389
	Block DOES NOT EXIST	Ps_113435	Family604	Ps_131020	Family389
BlockID: Pso_206 Present					
	Block EXISTS	Ps_108581	Family1412	Ps_131698	Family139
	Block EXISTS	Ps_108582	Family1412	Ps_131704	Family139
	Block EXISTS	Ps_131739	Family139	Ps_156352	Family1412
BlockID: Pso_207 Dissimilar families					
	Block DOES NOT EXIST	Ps_133969	Family16874	Ps_133970	Family20521
	Block DOES NOT EXIST	Ps_133979	Family503	Ps_133980	Family3027
BlockID: Pso_21 Dissimilar families					

	Block DOES NOT EXIST	Ps_135081	Family2529	Ps_135082	Family3483
	Block DOES NOT EXIST	Ps_139165	Family3483	Ps_139166	Family31732
BlockID: Pso_22	Dissimilar families				
	Block DOES NOT EXIST	Ps_129688	Family17195	Ps_129689	Family8470
	Block DOES NOT EXIST	Ps_141675	Family9515	Ps_141677	Family8470
BlockID: Pso_23	Dissimilar families				
	Block DOES NOT EXIST	Ps_134351	No families	Ps_134352	Family34
	Block DOES NOT EXIST	Ps_139125	Family11386	Ps_157939	Family464
BlockID: Pso_24	Present				
	Block EXISTS	Ps_136381	Family1988	Ps_157394	Family37
	Block EXISTS	Ps_136404	Family37	Ps_136405	Family1988
BlockID: Pso_25	Present				
	Block EXISTS	Ps_140818	Family2538	Ps_140819	Family385
	Block EXISTS	Ps_140820	Family385	Ps_140821	Family2538
BlockID: Pso_26	Present				
	Block EXISTS	Ps_139333	Family222	Ps_139334	Family36
	Block EXISTS	Ps_139738	Family36	Ps_139739	Family222
BlockID: Pso_27	Present				
	Block EXISTS	Ps_108478	Family14656	Ps_156135	Family128
	Block EXISTS	Ps_108480	Family128	Ps_130428	Family14656
BlockID: Pso_28	Present				
	Block EXISTS	Ps_130016	Family432	Ps_130017	Family320
	Block EXISTS	Ps_131972	Family432	Ps_131973	Family320
	Block EXISTS	Ps_132113	Family1969	Ps_132114	Family320
	Block EXISTS	Ps_132495	Family432	Ps_132496	Family320
	Block EXISTS	Ps_133346	Family320	Ps_133347	Family432
	Block EXISTS	Ps_134070	Family320	Ps_134071	Family1969
	Block EXISTS	Ps_135500	Family432	Ps_135501	Family320
	Block EXISTS	Ps_136080	Family1969	Ps_136081	Family320
	Block EXISTS	Ps_139610	Family320	Ps_139611	Family432
	Block EXISTS	Ps_139946	Family432	Ps_139947	Family320
	Block EXISTS	Ps_143216	Family320	Ps_143217	Family1969
	Block EXISTS	Ps_143433	Family320	Ps_143434	Family1969
BlockID: Pso_29	Dissimilar families				
	Block DOES NOT EXIST	Ps_133560	Family821	Ps_133561	Family145
	Block DOES NOT EXIST	Ps_142665	Family145	Ps_142666	Family7099
BlockID: Pso_3	Present				
	Block EXISTS	Ps_136920	Family4	Ps_136921	Family78
	Block EXISTS	Ps_139213	Family78	Ps_139214	Family4
BlockID: Pso_30	Dissimilar families				
	Block DOES NOT EXIST	Ps_122221	Family4267	Ps_141688	Family13534
	Block DOES NOT EXIST	Ps_143702	Family11308	Ps_143703	Family4267
BlockID: Pso_31	Dissimilar families				
	Block DOES NOT EXIST	Ps_133959	Family2773	Ps_133960	Family6732
	Block DOES NOT EXIST	Ps_133963	Family6732	Ps_133964	Family3450
BlockID: Pso_32	Present				
	Block EXISTS	Ps_132504	Family1736	Ps_132505	Family1718
	Block EXISTS	Ps_143883	Family1718	Ps_143884	Family1736
BlockID: Pso_33	Gene missing				
	Block DOES NOT EXIST	Ps_115405	No families	Ps_133479	Family222
	Block DOES NOT EXIST	Ps_119867	No families	Ps_138989	Family222
BlockID: Pso_34	Present				
	Block EXISTS	Ps_110348	Family18759	Ps_127734	Family7308
	Block EXISTS	Ps_125453	Family18759	Ps_144755	Family7308
BlockID: Pso_35	Dissimilar families				
	Block DOES NOT EXIST	Ps_132109	Family6	Ps_132110	Family18809
	Block DOES NOT EXIST	Ps_132123	Family11307	Ps_132126	Family2860
BlockID: Pso_36	Present				
	Block EXISTS	Ps_133777	Family6	Ps_133778	Family15
	Block EXISTS	Ps_134683	Family6	Ps_134684	Family15

BlockID: Pso_37	Gene missing					
		Block DOES NOT EXIST	Ps_128070	Family4596	Ps_128071	No families
		Block DOES NOT EXIST	Ps_132589	Family4596	Ps_132590	No families
		Block DOES NOT EXIST	Ps_141877	No families	Ps_141878	Family4596
BlockID: Pso_38	Present					
		Block EXISTS	Ps_138223	Family2822	Ps_138224	Family6662
		Block EXISTS	Ps_138231	Family6662	Ps_138232	Family2822
BlockID: Pso_39	Dissimilar families					
		Block DOES NOT EXIST	Ps_133796	Family594	Ps_133798	Family386
		Block DOES NOT EXIST	Ps_138990	Family386	Ps_138991	Family31727
BlockID: Pso_4	Dissimilar families					
		Block DOES NOT EXIST	Ps_131130	Family4	Ps_131131	Family5
		Block DOES NOT EXIST	Ps_137693	No families	Ps_137694	Family142
BlockID: Pso_40	Present					
		Block EXISTS	Ps_119902	Family7	Ps_139055	Family1405
		Block EXISTS	Ps_122984	Family7	Ps_142601	Family1405
BlockID: Pso_41	Present					
		Block EXISTS	Ps_140249	Family17027	Ps_140250	Family475
		Block EXISTS	Ps_140260	Family475	Ps_140261	Family17027
BlockID: Pso_42	Dissimilar families					
		Block EXISTS	Ps_133575	Family12	Ps_133576	Family145
		Block DOES NOT EXIST	Ps_144266	Family12	Ps_144267	Family6718
BlockID: Pso_43	Gene missing					
		Block DOES NOT EXIST	Ps_131842	Family5769	Ps_131843	Family41
		Block DOES NOT EXIST	Ps_131848	Family41	Ps_131849	No families
BlockID: Pso_44	Dissimilar families					
		Block DOES NOT EXIST	Ps_134698	Family2955	Ps_134699	Family473
		Block DOES NOT EXIST	Ps_140157	Family38	Ps_140158	Family5769
BlockID: Pso_45	Dissimilar families					
		Block EXISTS	Ps_131020	Family389	Ps_131021	Family7
		Block DOES NOT EXIST	Ps_131041	No families	Ps_131042	Family389
BlockID: Pso_46	Present					
		Block EXISTS	Ps_136207	Family12009	Ps_136208	Family2737
		Block EXISTS	Ps_136213	Family2737	Ps_136214	Family12009
BlockID: Pso_47	Present					
		Block EXISTS	Ps_108473	Family23	Ps_130365	Family399
		Block EXISTS	Ps_108475	Family23	Ps_130388	Family399
BlockID: Pso_48	Present					
		Block EXISTS	Ps_142235	Family6137	Ps_142236	Family9014
		Block EXISTS	Ps_142241	Family9014	Ps_142242	Family6137
BlockID: Pso_49	Present					
		Block EXISTS	Ps_141015	Family12747	Ps_141016	Family416
		Block EXISTS	Ps_143388	Family416	Ps_143389	Family12747
BlockID: Pso_5	Dissimilar families					
		Block DOES NOT EXIST	Ps_129902	Family204	Ps_129903	Family8702
		Block DOES NOT EXIST	Ps_144898	Family31943	Ps_144899	Family204
BlockID: Pso_50	Dissimilar families					
		Block DOES NOT EXIST	Ps_116205	Family138	Ps_134325	Family2445
		Block DOES NOT EXIST	Ps_134531	Family138	Ps_134532	Family5976
BlockID: Pso_51	Present					
		Block EXISTS	Ps_127846	Family77	Ps_127847	Family53
		Block EXISTS	Ps_140694	Family53	Ps_140695	Family77
BlockID: Pso_52	Dissimilar families					
		Block DOES NOT EXIST	Ps_134617	Family606	Ps_134618	Family281
		Block DOES NOT EXIST	Ps_139431	Family53	Ps_139432	Family281
BlockID: Pso_53	Present					
		Block EXISTS	Ps_127842	Family53	Ps_127843	Family1465
		Block EXISTS	Ps_127847	Family53	Ps_127848	Family1465
BlockID: Pso_54	Present					
		Block DOES NOT EXIST	Ps_129409	Family31415	Ps_129410	No families

	Block EXISTS	Ps_131043	Family10414	Ps_131044	Family6189
	Block EXISTS	Ps_133881	Family10414	Ps_133882	Family6189
	Block DOES NOT EXIST	Ps_135372	Family6189	Ps_135373	Family2946
	Block EXISTS	Ps_136153	Family10414	Ps_136154	Family6189
	Block DOES NOT EXIST	Ps_140054	Family6189	Ps_140055	No families
	Block DOES NOT EXIST	Ps_141701	Family6189	Ps_141702	No families
	Block DOES NOT EXIST	Ps_141786	Family6189	Ps_141787	No families
BlockID: Pso_55	Present				
	Block EXISTS	Ps_132013	Family25	Ps_132014	Family6911
	Block EXISTS	Ps_132044	Family25	Ps_132045	Family6911
BlockID: Pso_56	Dissimilar families				
	Block DOES NOT EXIST	Ps_109225	Family29	Ps_139603	Family2241
	Block DOES NOT EXIST	Ps_139645	Family5234	Ps_139646	Family29
BlockID: Pso_57	Present				
	Block EXISTS	Ps_140778	Family610	Ps_140779	Family79
	Block EXISTS	Ps_140782	Family79	Ps_140783	Family610
BlockID: Pso_58	Dissimilar families				
	Block DOES NOT EXIST	Ps_140309	Family7678	Ps_140310	Family1123
	Block DOES NOT EXIST	Ps_140313	Family220	Ps_140314	Family1123
BlockID: Pso_59	Dissimilar families				
	Block DOES NOT EXIST	Ps_132661	Family2848	Ps_132662	Family18012
	Block DOES NOT EXIST	Ps_142929	No families	Ps_142930	Family31859
BlockID: Pso_6	Present				
	Block EXISTS	Ps_129660	Family9	Ps_129661	Family6911
	Block EXISTS	Ps_129662	Family6911	Ps_129663	Family9
BlockID: Pso_60	Dissimilar families				
	Block DOES NOT EXIST	Ps_129705	Family11444	Ps_129706	Family10955
	Block DOES NOT EXIST	Ps_129707	Family11444	Ps_129708	Family87
BlockID: Pso_61	Dissimilar families				
	Block DOES NOT EXIST	Ps_137760	Family11763	Ps_137761	Family5512
	Block DOES NOT EXIST	Ps_143474	Family3805	Ps_143475	Family5512
BlockID: Pso_62	Present (diff. copies)				
	Block DOES NOT EXIST	Ps_109200	No families	Ps_109201	Family11468
	Block EXISTS	Ps_109204	Family11468	Ps_139328	Family7
BlockID: Pso_63	Present				
	Block EXISTS	Ps_108654	Family7	Ps_132903	Family244
	Block EXISTS	Ps_131034	Family7	Ps_131035	Family244
BlockID: Pso_64	Present				
	Block EXISTS	Ps_138679	Family3058	Ps_138680	Family2118
	Block EXISTS	Ps_143814	Family2118	Ps_143815	Family3058
BlockID: Pso_65	Gene missing				
	Block DOES NOT EXIST	Ps_139701	No families	Ps_139702	No families
	Block DOES NOT EXIST	Ps_140221	No families	Ps_140222	Family4844
BlockID: Pso_66	Gene missing				
	Block DOES NOT EXIST	Ps_138487	No families	Ps_138488	Family10998
	Block DOES NOT EXIST	Ps_139608	No families	Ps_139609	No families
BlockID: Pso_67	Present				
	Block EXISTS	Ps_128174	Family727	Ps_128175	Family1251
	Block EXISTS	Ps_128178	Family1251	Ps_128179	Family727
BlockID: Pso_68	Dissimilar families				
	Block DOES NOT EXIST	Ps_142234	Family0	Ps_142235	Family6137
	Block DOES NOT EXIST	Ps_142242	Family6137	Ps_142243	Family4905
BlockID: Pso_69	Present				
	Block EXISTS	Ps_136652	Family931	Ps_136653	Family69
	Block EXISTS	Ps_142343	Family931	Ps_142344	Family69
	Block EXISTS	Ps_143888	Family931	Ps_143889	Family69
BlockID: Pso_7	Present				
	Block EXISTS	Ps_131372	Family174	Ps_131373	Family127
	Block EXISTS	Ps_131376	Family127	Ps_131377	Family174
BlockID: Pso_70	Present				

	Block EXISTS	Ps_143825	Family34	Ps_143826	Family2027
	Block EXISTS	Ps_144596	Family2027	Ps_144597	Family34
BlockID: Pso_71	Present				
	Block EXISTS	Ps_109131	Family120	Ps_109132	Family42
	Block EXISTS	Ps_109133	Family120	Ps_138365	Family42
BlockID: Pso_72	Present				
	Block EXISTS	Ps_130945	Family18803	Ps_130946	Family2454
	Block EXISTS	Ps_130949	Family2454	Ps_130950	Family18803
BlockID: Pso_73	Present				
	Block EXISTS	Ps_139045	Family4	Ps_139046	Family4734
	Block EXISTS	Ps_143224	Family4734	Ps_143225	Family4
BlockID: Pso_74	Present				
	Block EXISTS	Ps_131657	Family85	Ps_131658	Family1168
	Block EXISTS	Ps_144374	Family85	Ps_144375	Family1168
	Block EXISTS	Ps_144377	Family85	Ps_144378	Family1168
BlockID: Pso_75	Dissimilar families				
	Block DOES NOT EXIST	Ps_128346	Family1561	Ps_128347	Family901
	Block DOES NOT EXIST	Ps_143534	Family901	Ps_143535	Family233
BlockID: Pso_76	Dissimilar families				
	Block DOES NOT EXIST	Ps_139683	Family14140	Ps_139684	Family429
	Block DOES NOT EXIST	Ps_139686	No families	Ps_139687	Family77
BlockID: Pso_77	Present				
	Block EXISTS	Ps_133243	Family585	Ps_133244	Family14287
	Block EXISTS	Ps_143040	Family14287	Ps_143041	Family585
BlockID: Pso_78	Dissimilar families				
	Block DOES NOT EXIST	Ps_124358	Family31246	Ps_143885	Family4715
	Block DOES NOT EXIST	Ps_140634	Family4715	Ps_158174	Family6467
BlockID: Pso_79	Present (diff. copies)				
	Block EXISTS	Ps_134952	Family13244	Ps_134953	Family10373
	Block DOES NOT EXIST	Ps_135009	Family11618	Ps_135010	Family10373
BlockID: Pso_8	Present				
	Block EXISTS	Ps_139401	Family228	Ps_139402	Family14
	Block EXISTS	Ps_139403	Family14	Ps_139404	Family228
BlockID: Pso_80	Present				
	Block EXISTS	Ps_108619	Family947	Ps_108620	Family6498
	Block EXISTS	Ps_108621	Family947	Ps_132315	Family6498
BlockID: Pso_81	Dissimilar families				
	Block EXISTS	Ps_135819	Family243	Ps_135820	Family70
	Block DOES NOT EXIST	Ps_135822	Family418	Ps_157306	No families
BlockID: Pso_82	Present				
	Block EXISTS	Ps_113278	Family24	Ps_131000	Family572
	Block EXISTS	Ps_140536	Family572	Ps_140537	Family24
BlockID: Pso_83	Present				
	Block EXISTS	Ps_141282	Family239	Ps_141283	Family379
	Block EXISTS	Ps_141285	Family379	Ps_141286	Family239
BlockID: Pso_84	Dissimilar families				
	Block DOES NOT EXIST	Ps_130496	Family134	Ps_130497	Family12506
	Block DOES NOT EXIST	Ps_130498	Family18801	Ps_130499	Family134
BlockID: Pso_85	Dissimilar families				
	Block DOES NOT EXIST	Ps_132889	Family12378	Ps_132890	Family554
	Block DOES NOT EXIST	Ps_142351	Family11941	Ps_142353	Family12244
BlockID: Pso_86	Present				
	Block EXISTS	Ps_134706	Family4602	Ps_134707	Family7534
	Block EXISTS	Ps_134710	Family7534	Ps_134711	Family4602
BlockID: Pso_87	Present				
	Block EXISTS	Ps_144416	Family187	Ps_144417	Family340
	Block DOES NOT EXIST	Ps_144418	Family1520	Ps_144419	Family340
	Block EXISTS	Ps_144420	Family340	Ps_144421	Family187
BlockID: Pso_88	Dissimilar families				
	Block DOES NOT EXIST	Ps_133123	Family18489	Ps_156643	Family5293

	Block DOES NOT EXIST	Ps_143463	Family5293	Ps_143464	Family18862
BlockID: Pso_89	Present				
	Block EXISTS	Ps_139046	Family4734	Ps_139047	Family474
	Block EXISTS	Ps_143223	Family474	Ps_143224	Family4734
BlockID: Pso_9	Gene missing				
	Block DOES NOT EXIST	Ps_136254	Family432	Ps_136256	No families
	Block DOES NOT EXIST	Ps_143315	Family432	Ps_143316	No families
BlockID: Pso_90	Present				
	Block EXISTS	Ps_109030	Family47	Ps_137432	Family105
	Block EXISTS	Ps_137420	Family105	Ps_137421	Family47
BlockID: Pso_91	Present				
	Block EXISTS	Ps_138685	Family105	Ps_138686	Family86
	Block EXISTS	Ps_143548	Family86	Ps_143549	Family105
BlockID: Pso_92	Present				
	Block EXISTS	Ps_132021	Family4666	Ps_132022	Family25
	Block EXISTS	Ps_132026	Family25	Ps_132027	Family4666
BlockID: Pso_93	Present				
	Block EXISTS	Ps_109456	Family31	Ps_142236	Family9014
	Block EXISTS	Ps_109457	Family31	Ps_142241	Family9014
BlockID: Pso_94	Present				
	Block DOES NOT EXIST	Ps_143790	Family227	Ps_143791	Family3623
	Block EXISTS	Ps_143792	Family14689	Ps_143793	Family227
	Block EXISTS	Ps_144411	Family14689	Ps_144412	Family227
BlockID: Pso_95	One family				
	Block DOES NOT EXIST	Ps_138329	Family271	Ps_138330	Family271
	Block DOES NOT EXIST	Ps_138335	Family271	Ps_138336	Family271
BlockID: Pso_96	Dissimilar families				
	Block DOES NOT EXIST	Ps_131226	Family1862	Ps_131227	Family11227
	Block DOES NOT EXIST	Ps_144395	Family1862	Ps_144396	Family7389
BlockID: Pso_97	Gene missing				
	Block DOES NOT EXIST	Ps_134707	Family7534	Ps_134708	No families
	Block DOES NOT EXIST	Ps_134709	Family26	Ps_134710	Family7534
BlockID: Pso_98	Present				
	Block EXISTS	Ps_136398	Family12512	Ps_136399	Family1480
	Block EXISTS	Ps_139588	Family1480	Ps_139589	Family12512
BlockID: Pso_99	Present				
	Block EXISTS	Ps_137552	Family671	Ps_137553	Family148
	Block EXISTS	Ps_137594	Family148	Ps_137595	Family671

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