

**Table S4. Table showing the results of differential gene analysis using edgeR for the pair T6 - P18. It has the**

Gene ID (PITG #)	logConc	logFC	p.value
PITG_08841   Pi conserved hypothetical protein (129 nt)	-28.7946	42.44285	1.03E-11
PITG_08845   Pi mannitol dehydrogenase, putative (1065 nt)	-12.9399	9.148329	1.29E-09
PITG_18920   Pi conserved hypothetical protein (1307 nt)	-14.3386	10.5281	1.78E-09
PITG_17826   Pi conserved hypothetical protein (2000 nt)	-14.6435	9.936781	3.05E-09
PITG_00251   Pi conserved hypothetical protein (1831 nt)	-30.1356	-39.7609	5.09E-09
PITG_00121   Pi sporangia induced predicted protein (1146 nt)	-30.4166	39.19887	1.87E-08
PITG_04074   Pi secreted RxLR effector peptide, putative (528 nt)	-11.8658	7.458751	2.36E-08
PITG_08795   Pi conserved hypothetical protein (2861 nt)	-30.391	39.25016	3.00E-08
PITG_15969   Pi conserved hypothetical protein (2656 nt)	-13.1505	7.302491	3.66E-08
PITG_02501   Pi conserved hypothetical protein (986 nt)	-12.7925	-8.73206	3.68E-08
PITG_15375   Pi conserved hypothetical protein (2035 nt)	-13.1535	8.422314	3.77E-08
PITG_07355   Pi cleavage induced hypothetical protein (1265 nt)	-13.3278	7.440945	3.88E-08
PITG_14412   Pi carbonic anhydrase, putative (1128 nt)	-30.5379	38.95622	3.88E-08
PITG_08844   Pi mannitol dehydrogenase, putative (1696 nt)	-12.2247	8.214878	4.35E-08
PITG_14312   Pi methylenetetrahydrofolate dehydrogenase [NAD+], putative (1065 nt)	-29.8839	-40.2643	4.38E-08
PITG_08880   Pi ADP-ribosylation factor family (2009 nt)	-13.9244	7.461892	6.95E-08
PITG_18845   Pi hypothetical protein (799 nt)	-29.8223	-40.3876	8.38E-08
PITG_13671   Pi glucanase inhibitor protein 3 (839 nt)	-30.1922	-39.6478	9.69E-08
PITG_17002   Pi conserved hypothetical protein (1054 nt)	-14.396	7.530123	9.73E-08
PITG_11863   Pi transmembrane protein, putative (700 nt)	-14.1585	7.531594	9.95E-08
PITG_04999   Pi MtN3-like protein (1252 nt)	-13.3094	6.984689	1.03E-07
PITG_09297   Pi conserved hypothetical protein (697 nt)	-12.0001	6.481005	1.15E-07
PITG_14726   Pi hypothetical protein (1975 nt)	-30.7582	38.51566	1.18E-07
PITG_07921   Pi PLAC8 family protein (459 nt)	-15.5907	8.454336	1.22E-07
PITG_13327   Pi conserved hypothetical protein (852 nt)	-15.253	8.717838	1.26E-07
PITG_16727   Pi conserved hypothetical protein (1484 nt)	-30.776	38.48019	1.32E-07
PITG_19602   Pi putative GPI-anchored serine-threonine rich hypothetical protein (1540 nt)	-14.6339	8.111968	1.37E-07
PITG_12920   Pi hypothetical protein (1569 nt)	-30.768	-38.4962	1.39E-07
PITG_18578   Pi dual specificity protein phosphatase, putative (1540 nt)	-12.8215	6.61211	1.55E-07
PITG_12336   Pi Crinkler (CRN) family protein, pseudogene (491 nt)	-30.5314	-38.9692	2.05E-07
PITG_06021   Pi glucokinase, putative (1041 nt)	-30.3094	-39.4134	2.13E-07
PITG_04121   Pi sorbitol dehydrogenase, putative (1080 nt)	-9.438	6.280735	2.24E-07
PITG_08843   Pi mannitol dehydrogenase, putative (1065 nt)	-30.4197	39.1927	2.42E-07
PITG_19103   Pi conserved hypothetical protein (684 nt)	-15.0188	7.684184	2.66E-07
PITG_11621   Pi conserved hypothetical protein (881 nt)	-15.7742	8.084523	2.69E-07
PITG_12878   Pi hypothetical protein similar to sexually induced protein 3 (1316 nt)	-14.2906	7.435291	2.94E-07
PITG_15628   Pi conserved hypothetical protein (1316 nt)	-13.3406	6.850096	3.02E-07
PITG_17828   Pi putative GPI-anchored serine-threonine rich hypothetical protein (1623 nt)	-14.1031	7.101265	3.09E-07
PITG_01363   Pi conserved hypothetical protein (1623 nt)	-30.961	38.11006	4.07E-07
PITG_09383   Pi aquaporin, putative (825 nt)	-15.8824	7.867173	4.62E-07
PITG_19399   Pi methylenetetrahydrofolate dehydrogenase [NAD+], putative (1065 nt)	-14.0064	-10.0668	4.64E-07
PITG_00761   Pi protein kinase, putative (1140 nt)	-14.9427	-8.21662	4.69E-07
PITG_02507   Pi conserved hypothetical protein (972 nt)	-12.5157	6.390227	4.73E-07
PITG_07059   Pi MADS-box transcription factor, putative (1697 nt)	-15.8907	7.850452	4.86E-07
PITG_05394   Pi conserved hypothetical protein (2421 nt)	-15.9094	7.813151	5.40E-07

PITG_06085	Pi hypothetical protein (1199 nt)	-30.8179	-38.3963	5.77E-07
PITG_14530	Pi conserved hypothetical protein (383 nt)	-14.4877	8.015498	7.02E-07
PITG_05949	Pi conserved hypothetical protein (3151 nt)	-30.9898	38.05247	7.17E-07
PITG_17477	Pi conserved hypothetical protein (1125 nt)	-15.5053	8.208552	7.20E-07
PITG_06741	Pi conserved hypothetical protein (8256 nt)	-13.1109	6.763309	7.27E-07
PITG_14663	Pi conserved hypothetical protein (533 nt)	-13.2501	7.134613	8.00E-07
PITG_02030	Pi cleavage induced hypothetical protein (1042 nt)	-15.9814	7.669184	8.45E-07
PITG_17825	Pi conserved hypothetical protein (707 nt)	-30.9721	38.08799	8.64E-07
PITG_13496	Pi elicitor-like transglutaminase, putative (2063 nt)	-14.5267	6.795024	9.01E-07
PITG_00149	Pi conserved hypothetical protein (5349 nt)	-30.7392	38.55373	9.06E-07
PITG_04281	Pi Cleavage induced conserved protein (432 nt)	-15.6054	8.015148	9.41E-07
PITG_08103	Pi hypothetical protein (333 nt)	-30.2447	-39.5428	9.50E-07
PITG_19930	Pi conserved hypothetical protein (1199 nt)	-14.4273	6.721978	9.70E-07
PITG_15968	Pi mucin-like protein (3491 nt)	-16.0127	7.606571	1.01E-06
PITG_18443	Pi conserved hypothetical protein (563 nt)	-15.9354	7.766054	1.02E-06
PITG_10381	Pi SCP-like extracellular protein (2091 nt)	-14.2994	6.403146	1.18E-06
PITG_11238	Pi nuclear LIM factor interactor-interacting protein cleavage-	-14.7993	6.723436	1.24E-06
PITG_13183	Pi sporangia induced conserved hypothetical protein (674 nt)	-16.0538	7.524302	1.30E-06
PITG_22878	Pi zonadhesin-like protein (1343 nt)	-14.4861	6.604482	1.41E-06
PITG_04335	Pi AP-2 complex subunit alpha, putative (3043 nt)	-16.0515	7.529893	1.42E-06
PITG_16389	Pi crinkler (CRN) family protein, pseudogene (1467 nt)	-31.1802	-37.6718	1.48E-06
PITG_14624	Pi conserved hypothetical protein (801 nt)	-13.6282	6.985622	1.64E-06
PITG_16382	Pi HAM34-like putative membrane protein, putative (3491 n	-12.9909	5.836011	1.72E-06
PITG_13581	Pi ATP-binding Cassette (ABC) Superfamily (4050 nt)	-31.1781	37.676	1.82E-06
PITG_05956	Pi conserved hypothetical protein (2443 nt)	-31.2149	37.60222	1.88E-06
PITG_11239	Pi nuclear LIM factor interactor-interacting protein cleavage-	-31.1874	37.65734	1.95E-06
PITG_09306	Pi conserved hypothetical protein (1203 nt)	-13.5767	5.985883	2.00E-06
PITG_10571	Pi hypothetical protein (357 nt)	-31.1613	37.70944	2.15E-06
PITG_11987	Pi glycoside hydrolase, putative (2422 nt)	-16.1537	7.324496	2.42E-06
PITG_11858	Pi conserved hypothetical protein (1256 nt)	-14.6486	-6.96557	2.45E-06
PITG_18680	Pi cleavage induced conserved hypothetical protein (1279 nt)	-31.2332	37.56577	2.57E-06
PITG_01266	Pi glycoside hydrolase, putative (1680 nt)	-16.1183	7.399258	2.73E-06
PITG_06381	Pi hypothetical protein (468 nt)	-12.0831	5.554617	2.79E-06
PITG_13551	Pi creatine kinase, mitochondrial precursor (2465 nt)	-14.4319	6.138714	2.97E-06
PITG_16465	Pi conserved hypothetical protein (722 nt)	-15.7834	7.656995	3.03E-06
PITG_11241	Pi nuclear LIM factor interactor-interacting protein spore-spore	-12.0937	5.990141	3.15E-06
PITG_15858	Pi conserved hypothetical protein (1103 nt)	-14.9477	6.726566	3.20E-06
PITG_05941	Pi conserved hypothetical protein (1926 nt)	-13.8467	6.040168	3.55E-06
PITG_02429	Pi cAMP-dependent protein kinase catalytic subunit, putative	-15.4485	6.824942	3.59E-06
PITG_05387	Pi ATP-binding Cassette (ABC) Superfamily (1371 nt)	-31.2612	-37.5097	3.66E-06
PITG_07146	Pi conserved hypothetical protein (458 nt)	-16.0078	7.63221	3.90E-06
PITG_13267	Pi conserved hypothetical protein (1109 nt)	-16.1184	7.403861	3.98E-06
PITG_11903	Pi conserved hypothetical protein (1712 nt)	-13.8745	5.854872	4.24E-06
PITG_01333	Pi complement control module protein, putative (753 nt)	-12.3574	5.391977	4.26E-06
PITG_06261	Pi conserved hypothetical protein (759 nt)	-31.3475	37.33712	4.53E-06
PITG_05806	Pi AP-2 complex subunit mu (2148 nt)	-31.3462	37.33971	4.90E-06
PITG_01415	Pi conserved hypothetical protein (1455 nt)	-31.3603	37.31148	4.93E-06

PITG_04957	Pi AP-2 complex subunit sigma-1 (439 nt)	-15.27	6.842364	4.94E-06
PITG_09767	Pi conserved hypothetical protein (1714 nt)	-30.9235	-38.1852	5.16E-06
PITG_09249	Pi sporangia induced hypothetical protein (706 nt)	-14.9331	6.455199	5.40E-06
PITG_09194	Pi aquaporin, putative (713 nt)	-30.9727	-38.0867	5.54E-06
PITG_09667	Pi sporangia induced bZIP regulated hypothetical protein (54	-31.285	37.46218	5.54E-06
PITG_16893	Pi hypothetical protein (1418 nt)	-12.219	5.588243	5.77E-06
PITG_02029	Pi cleavage induced hypothetical protein (1963 nt)	-31.405	37.22206	5.92E-06
PITG_21568	Pi histone H1, putative (779 nt)	-30.5108	-39.0105	6.02E-06
PITG_17362	Pi conserved hypothetical protein (1039 nt)	-31.3342	37.36369	6.17E-06
PITG_02008	Pi cleavage induced hypothetical protein (1557 nt)	-31.3639	37.30422	6.21E-06
PITG_08000	Pi glucosylceramidase (2040 nt)	-15.5613	6.597891	6.43E-06
PITG_17486	Pi conserved hypothetical protein (1200 nt)	-16.3325	6.966942	6.79E-06
PITG_22022	Pi cysteine protease family C01A, putative (1504 nt)	-30.9298	38.17253	6.88E-06
PITG_15861	Pi conserved hypothetical protein (879 nt)	-16.3351	6.961765	7.11E-06
PITG_16494	Pi hypothetical protein (410 nt)	-14.8765	6.095485	7.16E-06
PITG_14567	Pi conserved hypothetical protein (387 nt)	-11.0285	5.610748	7.22E-06
PITG_17675	Pi bzip regulated hypothetical protein (861 nt)	-13.3035	5.337752	7.27E-06
PITG_12545	Pi croquemort-like mating protein M82, putative (2332 nt)	-30.8316	-38.3689	7.45E-06
PITG_10378	Pi conserved hypothetical protein (999 nt)	-11.0378	-6.89207	7.57E-06
PITG_19088	Pi conserved hypothetical protein (676 nt)	-30.9765	-38.0791	7.67E-06
PITG_16221	Pi Crinkler (CRN) family protein (1982 nt)	-15.671	-6.87997	7.91E-06
PITG_00332	Pi Monovalent Cation:Proton Antiporter-1 (CPA1) Family (20	-16.3471	6.938739	8.03E-06
PITG_13269	Pi conserved hypothetical protein (1039 nt)	-16.3471	6.938739	8.03E-06
PITG_04721	Pi dynein light chain/pantothenate kinase (377 nt)	-16.3003	7.03612	8.25E-06
PITG_05392	Pi conserved hypothetical protein (1245 nt)	-12.6987	5.937752	8.43E-06
PITG_10153	Pi conserved hypothetical protein (868 nt)	-13.4202	-6.7783	8.52E-06
PITG_17410	Pi protein kinase, putative (1201 nt)	-31.4767	37.07878	9.04E-06
PITG_16967	Pi cleavage induced hypothetical protein (2571 nt)	-31.4708	37.09044	9.96E-06
PITG_20413	Pi putative GP-anchored serine-rich elicitor INL13-like protein	-16.3213	6.995196	1.01E-05
PITG_10999	Pi endo-1,3(4)-beta-glucanase, putative (2238 nt)	-31.4866	37.05896	1.02E-05
PITG_15166	Pi secreted RxLR effector peptide, putative (519 nt)	-30.5876	-38.857	1.09E-05
PITG_03627	Pi conserved hypothetical protein (1434 nt)	-16.2949	7.051915	1.14E-05
PITG_08897	Pi hypothetical protein (439 nt)	-11.0287	6.584375	1.15E-05
PITG_14177	Pi conserved hypothetical protein (401 nt)	-31.5243	36.98346	1.17E-05
PITG_08569	Pi conserved hypothetical protein (1127 nt)	-16.023	7.177782	1.24E-05
PITG_11848	Pi conserved hypothetical protein (1239 nt)	-31.4891	37.05396	1.26E-05
PITG_00937	Pi sporangia induced hypothetical protein (2469 nt)	-31.5412	36.94964	1.30E-05
PITG_06474	Pi conserved hypothetical protein (1321 nt)	-31.1852	-37.6616	1.30E-05
PITG_09354	Pi aquaporin, putative (866 nt)	-14.4888	-6.1439	1.30E-05
PITG_22150	Pi conserved hypothetical protein (976 nt)	-31.5296	36.97286	1.32E-05
PITG_19078	Pi conserved hypothetical protein (1213 nt)	-12.7674	5.474684	1.34E-05
PITG_02658	Pi conserved hypothetical protein (1370 nt)	-14.9182	-6.42822	1.34E-05
PITG_10870	Pi conserved hypothetical protein (1393 nt)	-16.3629	6.913873	1.45E-05
PITG_12798	Pi short chain dehydrogenase, putative (766 nt)	-30.9396	-38.1529	1.46E-05
PITG_21937	Pi conserved hypothetical protein (1908 nt)	-31.5459	36.94026	1.46E-05
PITG_13601	Pi cleavage induced hypothetical protein (1338 nt)	-31.4586	37.11501	1.55E-05
PITG_06142	Pi copine-like protein (2275 nt)	-14.3123	-6.40595	1.61E-05

PITG_00877	Pi putative GPI anchor protein (1686 nt)	-15.7227	6.275041	1.64E-05
PITG_10365	Pi conserved hypothetical protein (819 nt)	-10.7082	-5.97773	1.66E-05
PITG_10934	Pi conserved hypothetical protein (1731 nt)	-14.064	5.291476	1.68E-05
PITG_06019	Pi glucokinase, putative (919 nt)	-14.8835	-6.39083	1.68E-05
PITG_02657	Pi conserved hypothetical protein (1664 nt)	-15.0486	-6.16401	1.70E-05
PITG_08875	Pi conserved hypothetical protein (1037 nt)	-16.0957	7.034665	1.70E-05
PITG_09979	Pi conserved hypothetical protein (1417 nt)	-16.4885	6.654896	1.71E-05
PITG_16981	Pi thrombospondin-like protein (7212 nt)	-15.5046	6.73609	1.71E-05
PITG_12911	Pi conserved hypothetical protein (511 nt)	-31.4563	37.11944	1.78E-05
PITG_08382	Pi ATP-binding Cassette (ABC) superfamily (665 nt)	-16.5019	6.6281	1.81E-05
PITG_16199	Pi conserved hypothetical protein (1818 nt)	-16.4985	6.634879	1.81E-05
PITG_22667	Pi conserved hypothetical protein (1285 nt)	-31.5002	37.0318	1.83E-05
PITG_10364	Pi conserved hypothetical protein (810 nt)	-10.9339	-5.67551	1.85E-05
PITG_07999	Pi alpha-tubulin, putative (1757 nt)	-12.647	4.915093	1.86E-05
PITG_05295	Pi conserved hypothetical protein (847 nt)	-31.5977	36.83666	1.93E-05
PITG_16278	Pi conserved hypothetical protein (571 nt)	-15.4578	5.70629	1.98E-05
PITG_00321	Pi conserved hypothetical protein (1365 nt)	-31.6182	36.79573	2.03E-05
PITG_15376	Pi conserved hypothetical protein (1641 nt)	-16.5172	6.597461	2.03E-05
PITG_12686	Pi conserved hypothetical protein (930 nt)	-13.3596	-5.06337	2.03E-05
PITG_13934	Pi calcium-dependent protein kinase, putative (2099 nt)	-31.5469	36.93834	2.05E-05
PITG_08913	Pi conserved hypothetical protein (435 nt)	-31.5172	-36.9977	2.05E-05
PITG_08750	Pi conserved hypothetical protein (543 nt)	-16.5259	6.580081	2.15E-05
PITG_08612	Pi cell 5A endo-1,4-beta-glucanase, putative (1789 nt)	-16.5285	6.57486	2.15E-05
PITG_11102	Pi cGMP-dependent protein kinase, putative (2475 nt)	-31.6105	36.81117	2.17E-05
PITG_04317	Pi Major Facilitator Superfamily (MFS) (1527 nt)	-15.8993	7.387903	2.19E-05
PITG_11572	Pi conserved hypothetical protein (1158 nt)	-11.9218	-6.04662	2.24E-05
PITG_13414	Pi conserved hypothetical protein (1014 nt)	-15.5143	6.352905	2.32E-05
PITG_19294	Pi protein kinase (900 nt)	-31.5969	36.83827	2.35E-05
PITG_10799	Pi conserved hypothetical protein (955 nt)	-16.4363	6.769134	2.41E-05
PITG_00891	Pi conserved hypothetical protein (837 nt)	-16.5527	6.52656	2.43E-05
PITG_14607	Pi conserved hypothetical protein (1089 nt)	-31.65	36.73205	2.59E-05
PITG_03309	Pi Intraflagellar Transport Protein 140 (4726 nt)	-31.6365	36.75914	2.60E-05
PITG_07406	Pi conserved hypothetical protein (1008 nt)	-31.6278	36.77652	2.61E-05
PITG_09137	Pi conserved hypothetical protein (551 nt)	-31.6481	36.73594	2.76E-05
PITG_05389	Pi ATP-binding Cassette (ABC) Superfamily (836 nt)	-31.6398	-36.7524	2.77E-05
PITG_07633	Pi conserved hypothetical protein (533 nt)	-12.4754	6.782122	2.82E-05
PITG_10413	Pi SCP-like extracellular protein (549 nt)	-31.5937	36.84481	2.85E-05
PITG_01096	Pi ATP-binding Cassette (ABC) Superfamily (2979 nt)	-14.1963	5.210972	2.87E-05
PITG_00489	Pi conserved hypothetical protein (1605 nt)	-16.5721	6.488792	2.93E-05
PITG_22247	Pi conserved hypothetical protein (2879 nt)	-31.6719	36.68839	2.93E-05
PITG_00962	Pi conserved hypothetical protein (774 nt)	-14.4893	5.157931	2.98E-05
PITG_00123	Pi sporangia induced hypothetical protein (453 nt)	-13.0146	4.930936	2.99E-05
PITG_04075	Pi sporangia induced hypothetical protein (496 nt)	-31.5854	36.86125	3.06E-05
PITG_18173	Pi conserved hypothetical protein (792 nt)	-31.5901	-36.852	3.06E-05
PITG_21584	Pi hypothetical protein (2912 nt)	-31.0016	38.02893	3.08E-05
PITG_08209	Pi conserved hypothetical protein (505 nt)	-31.6887	-36.6546	3.12E-05
PITG_18169	Pi conserved hypothetical protein (547 nt)	-31.6795	36.67307	3.12E-05

PITG_18678	Pi transmembrane protein, putative (3121 nt)	-31.5589	36.9143	3.17E-05
PITG_04378	Pi elicitin-like protein (723 nt)	-13.06	-5.29758	3.30E-05
PITG_21854	Pi cAMP protein kinase (1375 nt)	-16.5892	6.454436	3.33E-05
PITG_06591	Pi berberine-like protein (1700 nt)	-31.6947	36.64267	3.33E-05
PITG_17396	Pi syntaxin, putative (1273 nt)	-31.6383	36.75557	3.34E-05
PITG_13001	Pi glucose transporter, putative (1485 nt)	-31.1325	37.76707	3.36E-05
PITG_10199	Pi conserved hypothetical protein (417 nt)	-14.6598	5.708614	3.51E-05
PITG_17760	Pi Amino Acid/Auxin Permease (AAP) Family (1518 nt)	-31.639	-36.7541	3.56E-05
PITG_12533	Pi hypothetical protein (204 nt)	-14.6102	-5.90446	3.59E-05
PITG_06669	Pi conserved hypothetical protein (1191 nt)	-15.2849	-7.67168	3.76E-05
PITG_14474	Pi conserved hypothetical protein (696 nt)	-31.4447	37.14274	3.79E-05
PITG_03052	Pi Drug/Metabolite Transporter (DMT) Superfamily (548 nt)	-16.2163	6.791059	3.83E-05
PITG_07190	Pi conserved hypothetical protein (1667 nt)	-30.7655	-38.5011	3.85E-05
PITG_10375	Pi conserved hypothetical protein (813 nt)	-11.8233	-5.64903	3.97E-05
PITG_11997	Pi conserved hypothetical protein (798 nt)	-10.6056	4.576535	4.01E-05
PITG_10211	Pi conserved hypothetical protein (697 nt)	-15.829	6.068157	4.01E-05
PITG_00674	Pi carbonic anhydrase, putative (1051 nt)	-14.6525	5.226947	4.06E-05
PITG_00129	Pi copine-like protein, putative (1517 nt)	-31.6212	-36.7898	4.06E-05
PITG_06227	Pi carbohydrate-binding protein, putative (1080 nt)	-31.522	-36.9882	4.12E-05
PITG_03979	Pi conserved hypothetical protein (1152 nt)	-15.4843	6.404148	4.13E-05
PITG_17315	Pi sporangia induced conserved hypothetical protein (2444 r	-31.7321	36.56799	4.34E-05
PITG_03875	Pi sporangia induced hypothetical protein (527 nt)	-14.2837	5.167478	4.36E-05
PITG_07958	Pi conserved hypothetical protein (1102 nt)	-16.6514	6.329151	4.38E-05
PITG_07853	Pi conserved hypothetical protein (2058 nt)	-14.8969	5.208047	4.40E-05
PITG_14683	Pi conserved hypothetical protein (1460 nt)	-13.8067	5.782827	4.51E-05
PITG_15414	Pi sporangia induced 28 kDa inner dynein arm light chain (86	-31.6464	36.73938	4.51E-05
PITG_02819	Pi conserved hypothetical protein (471 nt)	-16.6023	6.432151	4.52E-05
PITG_22795	Pi conserved hypothetical protein (1113 nt)	-31.4899	37.05225	4.54E-05
PITG_01055	Pi conserved hypothetical protein (1823 nt)	-31.7208	36.5905	4.56E-05
PITG_20196	Pi hypothetical protein (555 nt)	-11.2909	-5.24796	4.57E-05
PITG_07424	Pi cytochrome P450, putative (1695 nt)	-13.4727	-6.10029	4.60E-05
PITG_07996	Pi alpha-tubulin (1698 nt)	-14.3581	5.218768	4.61E-05
PITG_10915	Pi conserved hypothetical protein (1692 nt)	-31.7453	36.54141	4.64E-05
PITG_14384	Pi sodium/potassium-transporting ATPase subunit alpha, put	-31.7484	36.53533	4.64E-05
PITG_11875	Pi peptidase, putative (1983 nt)	-15.0434	5.490119	4.69E-05
PITG_03704	Pi conserved hypothetical protein (672 nt)	-16.665	6.301848	4.70E-05
PITG_17017	Pi hypothetical protein (969 nt)	-31.6581	36.71592	4.77E-05
PITG_21811	Pi conserved hypothetical protein (378 nt)	-31.6375	36.75706	4.81E-05
PITG_07410	Pi conserved hypothetical protein (1287 nt)	-31.7154	36.6013	4.81E-05
PITG_07992	Pi conserved hypothetical protein (612 nt)	-31.7238	36.58457	4.84E-05
PITG_15151	Pi conserved hypothetical protein (423 nt)	-31.5984	-36.8353	4.94E-05
PITG_14401	Pi myb-like DNA-binding protein, putative (4060 nt)	-31.5789	-36.8743	5.03E-05
PITG_02399	Pi conserved hypothetical protein (760 nt)	-13.3991	4.713523	5.08E-05
PITG_12935	Pi conserved hypothetical protein (399 nt)	-15.1096	-6.04827	5.16E-05
PITG_02638	Pi hypothetical protein (1487 nt)	-16.2501	6.71904	5.23E-05
PITG_06721	Pi conserved hypothetical protein (649 nt)	-15.9196	5.881149	5.37E-05
PITG_06087	Pi secreted RxLR effector peptide, putative (384 nt)	-31.5939	36.84429	5.55E-05

PITG_01249	Pi conserved hypothetical protein (618 nt)	-14.9404	5.423625	5.65E-05
PITG_06225	Pi flagellar radial spoke protein, putative (1437 nt)	-15.4232	5.475715	5.66E-05
PITG_08879	Pi hypothetical protein (510 nt)	-14.0671	-5.47904	5.82E-05
PITG_15900	Pi ATP-binding Cassette (ABC) Superfamily (3873 nt)	-15.4314	5.459233	5.90E-05
PITG_03961	Pi conserved hypothetical protein (1104 nt)	-15.6018	5.42522	5.95E-05
PITG_03212	Pi hypothetical protein (405 nt)	-16.6815	6.271803	5.99E-05
PITG_06022	Pi glucokinase, putative (1126 nt)	-14.355	-6.32296	6.12E-05
PITG_16849	Pi hypothetical protein (713 nt)	-15.8129	-6.60357	6.12E-05
PITG_19978	Pi conserved hypothetical protein (497 nt)	-13.6288	4.861663	6.39E-05
PITG_00564	Pi conserved hypothetical protein (1083 nt)	-11.64	-4.68264	6.41E-05
PITG_16061	Pi sodium/potassium-transporting ATPase subunit alpha, put	-15.9335	5.856325	6.41E-05
PITG_15448	Pi conserved hypothetical protein (569 nt)	-16.1817	7.316049	6.52E-05
PITG_01716	Pi hypothetical protein (844 nt)	-15.9633	5.793785	6.59E-05
PITG_10372	Pi conserved hypothetical protein (1547 nt)	-11.8511	-7.27179	6.75E-05
PITG_03924	Pi alcohol dehydrogenase, putative (1236 nt)	-31.7079	-36.6164	6.76E-05
PITG_08720	Pi conserved hypothetical protein (1254 nt)	-31.7809	36.47039	6.80E-05
PITG_21363	Pi putative GPI-anchored serine-threonine rich hypothetical	-16.3128	6.595892	6.83E-05
PITG_19040	Pi conserved hypothetical protein (240 nt)	-31.6785	36.67508	7.13E-05
PITG_13881	Pi conserved hypothetical protein (954 nt)	-31.8308	36.37053	7.18E-05
PITG_07530	Pi conserved hypothetical protein (1857 nt)	-31.8372	-36.3578	7.18E-05
PITG_22861	Pi conserved hypothetical protein (1655 nt)	-31.796	36.44004	7.30E-05
PITG_08099	Pi PLAC8 family protein (711 nt)	-31.7491	36.53389	7.33E-05
PITG_02509	Pi conserved hypothetical protein (730 nt)	-15.659	5.308968	7.37E-05
PITG_13286	Pi conserved hypothetical protein (521 nt)	-14.5602	-5.03243	7.51E-05
PITG_11845	Pi conserved hypothetical protein (563 nt)	-31.7895	36.45313	7.60E-05
PITG_22870	Pi avr2 secreted RxLR effector peptide, putative (351 nt)	-16.0912	6.994644	7.62E-05
PITG_19146	Pi conserved hypothetical protein (900 nt)	-31.8457	-36.3408	7.75E-05
PITG_02381	Pi conserved hypothetical protein (1985 nt)	-15.9907	-6.24369	7.94E-05
PITG_02139	Pi conserved hypothetical protein (976 nt)	-31.8034	-36.4254	8.03E-05
PITG_15017	Pi protein phosphatase 2C, putative (1689 nt)	-13.9254	4.74585	8.03E-05
PITG_15150	Pi chaperone clpB (1245 nt)	-14.534	-5.9638	8.09E-05
PITG_14054	Pi secreted RxLR effector peptide, putative (690 nt)	-31.399	-37.2341	8.12E-05
PITG_13175	Pi ATP-binding Cassette (ABC) Superfamily (5847 nt)	-31.853	36.32606	8.38E-05
PITG_13889	Pi 4-coumarate-CoA ligase, putative (2240 nt)	-14.2071	4.807276	8.40E-05
PITG_15162	Pi secreted RxLR effector peptide, putative (510 nt)	-31.4176	-37.1969	8.45E-05
PITG_21794	Pi conserved hypothetical protein (683 nt)	-15.2244	5.5658	8.61E-05
PITG_20641	Pi Crinkler (CRN) family protein, pseudogene (2044 nt)	-14.4485	-6.13579	8.74E-05
PITG_03948	Pi tubby-like protein (2140 nt)	-15.1708	5.235068	9.10E-05
PITG_09887	Pi alternative oxidase, putative (913 nt)	-31.8429	36.34637	9.11E-05
PITG_03172	Pi conserved hypothetical protein (1120 nt)	-31.8196	36.39298	9.23E-05
PITG_06672	Pi P-type ATPase (P-ATPase) Superfamily (3138 nt)	-16.3679	6.485589	9.28E-05
PITG_01706	Pi conserved hypothetical protein (1809 nt)	-31.8741	36.28387	9.57E-05
PITG_03742	Pi conserved hypothetical protein (909 nt)	-13.889	-5.20003	9.64E-05
PITG_11299	Pi conserved hypothetical protein (327 nt)	-31.8648	-36.3025	9.83E-05
PITG_12088	Pi hypothetical protein (632 nt)	-31.4786	-37.0749	0.000101
PITG_08812	Pi conserved hypothetical protein (1614 nt)	-11.114	4.388319	0.000102
PITG_02840	Pi WD repeat-containing protein srw1 (2088 nt)	-16.0261	5.669722	0.000102

PITG_06166	Pi conserved hypothetical protein (1116 nt)	-31.5087	37.01475	0.000103
PITG_11857	Pi C2 domain-containing protein, putative (1331 nt)	-15.4132	-5.43352	0.000105
PITG_05205	Pi ATP-binding Cassette (ABC) superfamily (610 nt)	-14.9648	5.077152	0.000105
PITG_17342	Pi Sporangia Induced Dynein Regulatory Complex Protein (16	-16.7787	6.078388	0.000106
PITG_14138	Pi glycoside hydrolase, putative (1240 nt)	-31.8922	36.24768	0.000107
PITG_14626	Pi dual specificity tyrosine-phosphorylation-regulated kinase	-16.1816	-5.85726	0.000108
PITG_05746	Pi conserved hypothetical protein (617 nt)	-15.3341	5.986043	0.000108
PITG_12568	Pi sporangia induced parkin coregulated protein (1424 nt)	-31.8904	36.25132	0.000109
PITG_09952	Pi radial spoke protein (872 nt)	-16.8126	6.006793	0.00011
PITG_16466	Pi sporulation induced hypothetical protein (863 nt)	-31.838	36.35614	0.000112
PITG_12015	Pi hypothetical protein (3961 nt)	-31.7571	-36.5179	0.000113
PITG_17027	Pi conserved hypothetical protein (679 nt)	-31.548	36.93602	0.000115
PITG_01130	Pi conserved hypothetical protein (1730 nt)	-15.336	5.983938	0.000115
PITG_12084	Pi Crinkler (CRN) family protein, pseudogene (2736 nt)	-31.9319	-36.1683	0.000116
PITG_19451	Pi cleavage induced conserved hypothetical protein (554 nt)	-31.9126	36.20686	0.000116
PITG_17975	Pi dual 3',5'-cyclic-AMP and-GMP phosphodiesterase, putativ	-31.7862	36.45969	0.000117
PITG_13769	Pi sporangia induced conserved hypothetical protein (960 nt)	-13.6129	4.836785	0.000117
PITG_02418	Pi conserved hypothetical protein (1689 nt)	-31.8064	-36.4194	0.000118
PITG_22104	Pi conserved hypothetical protein (482 nt)	-15.4819	6.043314	0.00012
PITG_14182	Pi conserved hypothetical protein (1586 nt)	-31.8533	36.32541	0.000121
PITG_00844	Pi copine-like protein, putative (1103 nt)	-31.6867	-36.6587	0.000122
PITG_08409	Pi conserved hypothetical protein (634 nt)	-13.6635	4.454674	0.000123
PITG_12827	Pi sporulation induced hypothetical protein (582 nt)	-14.3788	4.776426	0.000126
PITG_13494	Pi elicitor-like transglutaminase, putative (1278 nt)	-31.9222	36.1878	0.000127
PITG_13583	Pi ATP-binding Cassette (ABC) Superfamily (4243 nt)	-31.926	36.1802	0.000127
PITG_04866	Pi conserved hypothetical protein (574 nt)	-31.907	36.21815	0.000129
PITG_22686	Pi protein kinase (8109 nt)	-31.907	36.21815	0.000129
PITG_12796	Pi short chain dehydrogenase, putative (958 nt)	-14.3577	-6.31917	0.000129
PITG_07959	Pi conserved hypothetical protein (1146 nt)	-16.0233	5.680974	0.000129
PITG_03695	Pi hypothetical protein (706 nt)	-9.81781	-5.04048	0.00013
PITG_20815	Pi ATP-binding Cassette (ABC) Superfamily (1008 nt)	-12.9309	-5.25217	0.000131
PITG_11477	Pi conserved hypothetical protein (605 nt)	-31.5207	36.99063	0.000133
PITG_04912	Pi conserved hypothetical protein (1214 nt)	-16.7867	6.065279	0.000134
PITG_10294	Pi conserved hypothetical protein (899 nt)	-31.8851	36.26195	0.000134
PITG_17740	Pi conserved hypothetical protein (1389 nt)	-13.6935	-4.48936	0.000135
PITG_13520	Pi conserved hypothetical protein (559 nt)	-16.7972	6.043296	0.000138
PITG_02028	Pi conserved hypothetical protein (2584 nt)	-31.9434	36.14521	0.000138
PITG_06816	Pi conserved hypothetical protein (1079 nt)	-12.8833	4.497997	0.00014
PITG_12186	Pi sporangia induced mitogen-activated protein kinase, puta	-31.9278	36.17657	0.00014
PITG_13814	Pi serine/threonine protein kinase (1146 nt)	-31.9278	36.17657	0.00014
PITG_20140	Pi conserved hypothetical protein (1737 nt)	-14.6449	-5.84627	0.00014
PITG_01793	Pi conserved hypothetical protein (1992 nt)	-14.5814	4.771686	0.000144
PITG_17668	Pi conserved hypothetical protein (710 nt)	-12.8584	-4.84582	0.000146
PITG_13815	Pi conserved hypothetical protein (1398 nt)	-16.0683	-6.09025	0.000148
PITG_09066	Pi conserved hypothetical protein (1363 nt)	-15.7544	-6.58438	0.000149
PITG_16094	Pi hypothetical protein (479 nt)	-31.7788	36.47454	0.000149
PITG_06689	Pi sporangia induced conserved hypothetical protein (1006 r	-14.2821	4.659629	0.000149

PITG_13115	Pi conserved hypothetical protein (1254 nt)	-31.9574	36.11728	0.000151
PITG_14792	Pi conserved hypothetical protein (2590 nt)	-31.9778	-36.0764	0.000151
PITG_22758	Pi arabinofuranosidase (1062 nt)	-31.6474	36.73734	0.000152
PITG_11375	Pi conserved hypothetical protein (640 nt)	-15.3252	6.304986	0.000152
PITG_14950	Pi conserved hypothetical protein (456 nt)	-31.8518	-36.3284	0.000153
PITG_11996	Pi conserved hypothetical protein (820 nt)	-9.27151	4.269911	0.000153
PITG_04558	Pi hypothetical protein (2958 nt)	-16.3901	6.427478	0.000154
PITG_15335	Pi thioredoxin/dynein outer arm protein (670 nt)	-15.8216	5.736569	0.000156
PITG_05294	Pi conserved hypothetical protein (1647 nt)	-15.2861	5.434919	0.000158
PITG_06791	Pi conserved hypothetical protein (1442 nt)	-14.211	4.465772	0.000159
PITG_04049	Pi secreted RxLR effector peptide, putative (474 nt)	-31.727	36.57821	0.00016
PITG_08334	Pi conserved hypothetical protein (714 nt)	-31.9416	36.14889	0.00016
PITG_17945	Pi chitinase, putative (822 nt)	-13.5947	-5.12233	0.000161
PITG_19293	Pi hypothetical protein (339 nt)	-14.5078	5.474546	0.000162
PITG_09868	Pi hypothetical protein (977 nt)	-16.482	6.259801	0.000164
PITG_21640	Pi conserved hypothetical protein (926 nt)	-16.0678	-6.09213	0.000165
PITG_17718	Pi conserved hypothetical protein (758 nt)	-31.9798	36.07252	0.000165
PITG_15491	Pi glutaredoxin (599 nt)	-31.6932	36.64571	0.000166
PITG_05835	Pi sporangia induced conserved hypothetical protein (1028 r	-31.9632	36.10577	0.000166
PITG_10765	Pi beta-glucan synthesis-associated protein, putative (2189 r	-13.4846	-4.71526	0.000167
PITG_06143	Pi Voltage-gated Ion Channel (VIC) Superfamily (1038 nt)	-31.9531	36.12584	0.000168
PITG_19101	Pi Voltage-gated Ion Channel (VIC) Superfamily (2045 nt)	-16.8411	5.956614	0.00017
PITG_19648	Pi conserved hypothetical protein (1292 nt)	-16.3826	6.435429	0.000172
PITG_17419	Pi conserved hypothetical protein (835 nt)	-16.882	5.869917	0.000174
PITG_20291	Pi Ammonium Transporter (Amt) Family (1011 nt)	-16.7413	6.167214	0.000174
PITG_10303	Pi conserved hypothetical protein (992 nt)	-31.8018	-36.4285	0.000175
PITG_07151	Pi conserved hypothetical protein (2220 nt)	-16.2291	6.711498	0.000176
PITG_06219	Pi conserved hypothetical protein (1323 nt)	-16.2728	-5.67474	0.000177
PITG_15229	Pi conserved hypothetical protein (991 nt)	-15.0316	-4.96413	0.000179
PITG_14357	Pi dimeric dihydrodiol dehydrogenase, putative (1155 nt)	-15.5901	5.141582	0.000179
PITG_09065	Pi conserved hypothetical protein (1125 nt)	-31.8701	-36.2919	0.00018
PITG_13890	Pi hypothetical protein (319 nt)	-31.7682	36.49562	0.000181
PITG_02551	Pi calmodulin-like protein (595 nt)	-32.0029	36.02635	0.000181
PITG_18065	Pi conserved hypothetical protein (4337 nt)	-32.0029	36.02635	0.000181
PITG_01556	Pi conserved hypothetical protein (1966 nt)	-14.6646	4.604635	0.000182
PITG_14581	Pi conserved hypothetical protein (1445 nt)	-13.3072	-4.51795	0.000184
PITG_08785	Pi conserved hypothetical protein (3335 nt)	-15.1826	5.215026	0.000185
PITG_16262	Pi hypothetical protein (1312 nt)	-15.5118	-5.23704	0.000187
PITG_00395	Pi cathepsin B, cysteine protease family C01A, putative (121.	-14.0107	4.548325	0.000189
PITG_14253	Pi conserved hypothetical protein (1734 nt)	-16.9267	5.77861	0.00019
PITG_19647	Pi meiosis-specific nuclear structural protein 1, putative (145	-16.8907	5.854416	0.000191
PITG_08458	Pi kinesin-like protein (2444 nt)	-31.9394	36.15322	0.000194
PITG_23029	Pi Crinkler (CRN) family protein, pseudogene (1794 nt)	-16.106	-6.01554	0.000197
PITG_20755	Pi conserved hypothetical protein (477 nt)	-14.6937	-4.76512	0.000199
PITG_22860	Pi Crinkler (CRN) family protein, pseudogene (237 nt)	-14.314	-4.77636	0.0002
PITG_04454	Pi sporangia induced hypothetical protein (1319 nt)	-31.9712	36.08964	0.0002
PITG_19098	Pi conserved hypothetical protein (930 nt)	-12.591	-4.34056	0.000201



PITG_10374	Pi conserved hypothetical protein (915 nt)	-11.4122	-5.31425	0.000201
PITG_12139	Pi conserved hypothetical protein (1308 nt)	-13.2303	5.960256	0.000201
PITG_08979	Pi vacuolar protein sorting-associated protein, putative (440)	-31.9571	36.11782	0.000201
PITG_15759	Pi conserved hypothetical protein (701 nt)	-31.9571	36.11782	0.000201
PITG_15336	Pi conserved hypothetical protein (639 nt)	-16.0891	5.552453	0.000202
PITG_20053	Pi conserved hypothetical protein (558 nt)	-15.1408	4.972081	0.000204
PITG_03580	Pi hypothetical protein (1000 nt)	-31.0251	37.98181	0.000205
PITG_18383	Pi conserved hypothetical protein (471 nt)	-16.9245	5.784814	0.000209
PITG_09030	Pi dynein light chain, putative (333 nt)	-16.931	5.769973	0.00021
PITG_03211	Pi conserved hypothetical protein (457 nt)	-31.8254	36.38129	0.000211
PITG_05608	Pi transmembrane protein, putative (3096 nt)	-31.8254	36.38129	0.000211
PITG_03434	Pi conserved hypothetical protein (1225 nt)	-13.8043	4.83476	0.000217
PITG_20518	Pi sporangia induced hypothetical protein (1250 nt)	-31.8838	36.2646	0.000218
PITG_14420	Pi conserved hypothetical protein (2520 nt)	-31.8631	-36.3059	0.000219
PITG_02922	Pi Polycystin Cation Channel (PCC) Family (3330 nt)	-16.9399	5.753039	0.00022
PITG_11854	Pi C2 domain-containing protein, putative (1331 nt)	-15.9075	-6.28133	0.000224
PITG_13562	Pi conserved hypothetical protein (1052 nt)	-31.9001	36.23197	0.000224
PITG_21525	Pi conserved hypothetical protein (3571 nt)	-14.0676	-4.53924	0.000224
PITG_06212	Pi conserved hypothetical protein (813 nt)	-16.1454	6.851852	0.000227
PITG_01507	Pi conserved hypothetical protein (2668 nt)	-15.1903	4.620576	0.000228
PITG_14861	Pi conserved hypothetical protein (1617 nt)	-31.8177	-36.3968	0.000228
PITG_13675	Pi conserved hypothetical protein (1029 nt)	-14.6425	4.509212	0.000234
PITG_20397	Pi conserved hypothetical protein (1646 nt)	-15.1696	4.663288	0.000234
PITG_22669	Pi NPP1-like protein, pseudogene (732 nt)	-15.9206	5.917242	0.000234
PITG_08085	Pi conserved hypothetical protein (526 nt)	-31.6899	-36.6523	0.000235
PITG_11885	Pi cleavage induced hypothetical protein (1739 nt)	-15.4777	4.896767	0.000238
PITG_18195	Pi conserved hypothetical protein (766 nt)	-32.0241	35.98389	0.000241
PITG_02076	Pi conserved hypothetical protein (803 nt)	-32.0425	35.94714	0.000242
PITG_00569	Pi phosphatidylinositol kinase (PIK-B) (3526 nt)	-31.9653	36.10158	0.000243
PITG_04071	Pi putative extracellular dioxygenase (1131 nt)	-31.9655	36.10111	0.000243
PITG_18505	Pi conserved hypothetical protein (2997 nt)	-31.8715	36.28909	0.000245
PITG_07847	Pi conserved hypothetical protein (1047 nt)	-31.1026	37.82686	0.00025
PITG_14467	Pi conserved hypothetical protein (561 nt)	-16.4883	6.230959	0.000253
PITG_02167	Pi conserved hypothetical protein (1490 nt)	-32.0441	35.94383	0.000254
PITG_07317	Pi protein kinase (2850 nt)	-32.0441	35.94383	0.000254
PITG_12277	Pi conserved hypothetical protein (5146 nt)	-13.2068	4.2366	0.000254
PITG_15268	Pi conserved hypothetical protein (633 nt)	-14.8848	-5.36157	0.000255
PITG_07170	Pi conserved hypothetical protein (772 nt)	-32.0415	-35.9491	0.000263
PITG_16081	Pi hypothetical protein (3123 nt)	-31.9914	-36.0493	0.000264
PITG_06860	Pi ATP-binding Cassette (ABC) Superfamily (4112 nt)	-13.7053	-5.9702	0.000265
PITG_11898	Pi conserved hypothetical protein (1307 nt)	-32.0768	35.87851	0.000268
PITG_12982	Pi conserved hypothetical protein (1242 nt)	-32.0677	35.89674	0.000268
PITG_08285	Pi conserved hypothetical protein (1548 nt)	-31.904	36.22419	0.000269
PITG_14946	Pi conserved hypothetical protein (1047 nt)	-14.7496	4.5963	0.000269
PITG_02815	Pi conserved hypothetical protein (653 nt)	-15.2885	8.416075	0.000269
PITG_11584	Pi conserved hypothetical protein (1228 nt)	-10.8227	-4.48241	0.000272
PITG_15212	Pi conserved hypothetical protein (836 nt)	-13.9363	-5.75186	0.000275

PITG_10094	Pi Intraflagellar Transport Protein 88 (3210 nt)	-32.0486	35.93492	0.000277
PITG_15994	Pi conserved hypothetical protein (845 nt)	-31.9703	-36.0916	0.000278
PITG_02568	Pi conserved hypothetical protein (1143 nt)	-16.1528	6.826998	0.000288
PITG_15021	Pi conserved hypothetical protein (899 nt)	-32.0531	35.92599	0.00029
PITG_15948	Pi serine protease family S33, putative (1622 nt)	-16.1143	5.509291	0.000294
PITG_01276	Pi conserved hypothetical protein (2314 nt)	-17.0034	5.626155	0.000297
PITG_02143	Pi myb-like DNA-binding protein, putative (1070 nt)	-32.0943	-35.8434	0.000297
PITG_02257	Pi conserved hypothetical protein (309 nt)	-32.0814	35.86933	0.000297
PITG_17806	Pi Amino Acid/Auxin Permease (AAP) Family (1452 nt)	-32.0218	35.98848	0.0003
PITG_08685	Pi conserved hypothetical protein (920 nt)	-15.3808	4.815009	0.000303
PITG_12278	Pi sterol O-acyltransferase, putative (1380 nt)	-32.0739	35.88434	0.000306
PITG_02342	Pi conserved hypothetical protein (581 nt)	-16.5405	6.128977	0.000306
PITG_08613	Pi cell 5A endo-1,4-beta-glucanase, putative (1749 nt)	-14.3777	-4.85818	0.000308
PITG_06248	Pi ATP-binding Cassette (ABC) Superfamily (3961 nt)	-16.2081	5.308518	0.00031
PITG_03202	Pi hypothetical protein (671 nt)	-16.9911	5.651679	0.000311
PITG_08839	Pi conserved hypothetical protein (1515 nt)	-16.9911	5.651679	0.000311
PITG_09252	Pi conserved hypothetical protein (695 nt)	-16.9911	5.651679	0.000311
PITG_13560	Pi endoglucanase, putative (700 nt)	-32.086	35.86007	0.000311
PITG_14840	Pi conserved hypothetical protein (2958 nt)	-31.5457	36.94078	0.000312
PITG_13456	Pi conserved hypothetical protein (391 nt)	-15.0411	5.557942	0.000316
PITG_06678	Pi conserved hypothetical protein (1004 nt)	-14.9585	-6.11081	0.000316
PITG_07115	Pi ATP-binding Cassette (ABC) Superfamily (4158 nt)	-31.9663	-36.0995	0.000318
PITG_03433	Pi regulator of chromosome condensation (RCC1)-like protei	-15.2158	4.823973	0.00032
PITG_03593	Pi alanine aminotransferase 2 (1739 nt)	-16.3688	-5.48322	0.000324
PITG_16112	Pi Intraflagellar Transport Protein 57 (1424 nt)	-16.621	5.984096	0.000324
PITG_17237	Pi succinate dehydrogenase iron-sulfur protein (621 nt)	-16.6176	5.990781	0.000324
PITG_10687	Pi conserved hypothetical protein (468 nt)	-31.9946	-36.0429	0.000329
PITG_13198	Pi conserved hypothetical protein (815 nt)	-31.1975	37.63704	0.00033
PITG_05000	Pi MtN3-like protein (849 nt)	-32.1032	35.82575	0.00033
PITG_17679	Pi M96 mating-specific protein family (1339 nt)	-32.1164	-35.7993	0.00033
PITG_14354	Pi conserved hypothetical protein (2139 nt)	-11.7806	-4.93977	0.000334
PITG_07020	Pi conserved hypothetical protein (568 nt)	-15.2112	4.876821	0.000335
PITG_01164	Pi glucan 1,3-beta-glucosidase, putative (1119 nt)	-31.9581	-36.116	0.000336
PITG_12313	Pi hypothetical protein (691 nt)	-32.0954	35.84136	0.000338
PITG_15572	Pi conserved hypothetical protein (2690 nt)	-31.8478	36.33652	0.000339
PITG_20221	Pi sporangia induced phosphatidyl inositol kinase (1863 nt)	-14.849	4.663118	0.00034
PITG_19863	Pi conserved hypothetical protein (2178 nt)	-32.0105	-36.011	0.000343
PITG_06289	Pi conserved hypothetical protein (1754 nt)	-16.3397	-5.54291	0.000343
PITG_10683	Pi conserved hypothetical protein (966 nt)	-32.0436	-35.9449	0.000343
PITG_04969	Pi conserved hypothetical protein (1865 nt)	-14.6935	-5.75651	0.000343
PITG_13795	Pi conserved hypothetical protein (2454 nt)	-32.1079	35.81625	0.000345
PITG_17297	Pi conserved hypothetical protein (3320 nt)	-32.0417	35.94874	0.000345
PITG_14055	Pi alcohol dehydrogenase, putative (1170 nt)	-15.1085	-4.72563	0.000347
PITG_05391	Pi histone H1, putative (1061 nt)	-13.0674	-4.6637	0.000352
PITG_20692	Pi EF hand containing protein, putative (1367 nt)	-16.9851	5.669508	0.000363
PITG_09904	Pi hypothetical protein (3114 nt)	-32.1257	35.78079	0.000368
PITG_13264	Pi conserved hypothetical protein (1151 nt)	-32.0263	35.9796	0.000374

PITG_04871	Pi conserved hypothetical protein (2382 nt)	-32.1175	35.79704	0.000375
PITG_14731	Pi conserved hypothetical protein (2188 nt)	-32.1152	-35.8017	0.000375
PITG_00722	Pi conserved hypothetical protein (1226 nt)	-32.0898	-35.8525	0.000379
PITG_03161	Pi conserved hypothetical protein (3229 nt)	-32.1354	35.76124	0.000384
PITG_02222	Pi conserved hypothetical protein (975 nt)	-12.2247	4.722047	0.000386
PITG_20741	Pi hypothetical protein (623 nt)	-32.0462	35.93965	0.000392
PITG_16853	Pi conserved hypothetical protein (1845 nt)	-15.0975	4.83323	0.000393
PITG_17816	Pi Crinkler (CRN) family protein, pseudogene (1701 nt)	-16.3969	-5.42744	0.000394
PITG_15471	Pi conserved hypothetical protein (2307 nt)	-31.9597	36.11264	0.000395
PITG_08871	Pi conserved hypothetical protein (701 nt)	-17.0488	5.534268	0.000395
PITG_09384	Pi aquaporin, putative (825 nt)	-14.7563	4.746094	0.000397
PITG_10063	Pi omega-3 fatty acid desaturase, endoplasmic reticulum, pu	-15.9678	5.442373	0.000399
PITG_05611	Pi conserved hypothetical protein (1091 nt)	-13.9029	-4.50159	0.0004
PITG_03437	Pi conserved hypothetical protein (1021 nt)	-32.0832	35.86569	0.000401
PITG_22333	Pi CTD small phosphatase-like protein, putative (957 nt)	-14.9529	5.092861	0.000402
PITG_10542	Pi conserved hypothetical protein (1600 nt)	-16.6291	5.961002	0.000403
PITG_22157	Pi Major Facilitator Superfamily (MFS) (1483 nt)	-13.4076	5.38245	0.000405
PITG_12173	Pi conserved hypothetical protein (1693 nt)	-16.4171	-5.38647	0.000405
PITG_02792	Pi conserved hypothetical protein (1898 nt)	-14.6831	-4.866	0.000409
PITG_15190	Pi conserved hypothetical protein (973 nt)	-31.2846	-37.463	0.000409
PITG_02081	Pi conserved hypothetical protein (1706 nt)	-17.0629	5.507173	0.000411
PITG_20435	Pi EF hand containing protein, putative (1097 nt)	-17.0629	5.507173	0.000411
PITG_01956	Pi conserved hypothetical protein (2669 nt)	-32.0668	35.89855	0.000412
PITG_22091	Pi potential noncoding RNA (521 nt)	-31.2975	37.43716	0.000414
PITG_13282	Pi ATP-binding Cassette (ABC) Superfamily (4764 nt)	-31.6381	-36.7558	0.000415
PITG_02841	Pi conserved hypothetical protein (1129 nt)	-14.733	-4.76501	0.000418
PITG_04928	Pi conserved hypothetical protein (1404 nt)	-14.4234	-5.48176	0.000423
PITG_20591	Pi conserved hypothetical protein (1398 nt)	-17.0066	5.625632	0.000425
PITG_07389	Pi conserved hypothetical protein (1305 nt)	-32.0519	35.92826	0.000426
PITG_14466	Pi conserved hypothetical protein (1410 nt)	-14.7919	4.350358	0.000431
PITG_13604	Pi P-type ATPase (P-ATPase) Superfamily (4258 nt)	-32.1224	35.78733	0.000435
PITG_08807	Pi conserved hypothetical protein (618 nt)	-16.9903	5.661044	0.000435
PITG_11562	Pi myb-like DNA-binding protein, putative (880 nt)	-31.9163	-36.1995	0.000437
PITG_04714	Pi conserved hypothetical protein (534 nt)	-13.4439	-4.20466	0.00044
PITG_16963	Pi transglutaminase elicitor M81C (2242 nt)	-15.2176	4.831863	0.000442
PITG_01040	Pi ras family GTPase, putative (985 nt)	-17.0729	5.486229	0.000443
PITG_12584	Pi DNA binding protein, putative (1363 nt)	-12.5607	3.885937	0.000449
PITG_00834	Pi conserved hypothetical protein (740 nt)	-12.2735	-5.52371	0.00045
PITG_02116	Pi protein kinase (449 nt)	-32.088	35.85615	0.000454
PITG_04490	Pi conserved hypothetical protein (872 nt)	-16.2899	5.143568	0.000459
PITG_07848	Pi conserved hypothetical protein (1029 nt)	-16.4311	-5.359	0.000459
PITG_10012	Pi Drug/Metabolite Transporter (DMT) Superfamily (1203 nt)	-32.167	-35.698	0.000465
PITG_09291	Pi conserved hypothetical protein (604 nt)	-14.1822	-4.74566	0.000466
PITG_12039	Pi conserved hypothetical protein (572 nt)	-13.6514	4.284835	0.000467
PITG_00055	Pi conserved hypothetical protein (1335 nt)	-31.8516	36.32898	0.000468
PITG_11722	Pi conserved hypothetical protein (392 nt)	-31.8366	-36.3589	0.000474
PITG_11760	Pi HSF-type DNA-binding protein, putative (711 nt)	-31.8366	-36.3589	0.000474

PITG_07911	Pi cytosolic 5'-nucleotidase III-like protein (1156 nt)	-16.9399	5.770907	0.00048
PITG_09262	Pi Equilibrative Nucleoside Transporter (ENT) Family (1356 nt)	-31.4116	-37.2088	0.000482
PITG_10132	Pi conserved hypothetical protein (3213 nt)	-14.3867	4.453664	0.000494
PITG_17881	Pi conserved hypothetical protein (1136 nt)	-16.6449	5.922515	0.000498
PITG_11024	Pi conserved hypothetical protein (534 nt)	-32.1922	-35.6477	0.000499
PITG_09218	Pi secreted RxLR effector peptide, putative (498 nt)	-15.5791	5.800438	0.000501
PITG_22363	Pi major Facilitator Superfamily (MFS)-like protein (448 nt)	-31.3928	37.24643	0.000503
PITG_05235	Pi conserved hypothetical protein (399 nt)	-32.0928	35.84651	0.000512
PITG_10997	Pi hypothetical protein (2542 nt)	-32.0928	35.84651	0.000512
PITG_15042	Pi sporangia-induced kinesin-like protein (1308 nt)	-17.1033	5.426357	0.000518
PITG_17696	Pi hypothetical protein (551 nt)	-17.0701	5.495668	0.000519
PITG_22350	Pi hypothetical protein (288 nt)	-13.6304	5.272483	0.000521
PITG_18335	Pi glycoside hydrolase, putative (1332 nt)	-32.1505	35.73118	0.000524
PITG_04158	Pi glycoside hydrolase, putative (897 nt)	-32.0772	-35.8777	0.000527
PITG_11252	Pi heat shock protein 70 (1965 nt)	-31.4241	37.1839	0.000529
PITG_14591	Pi choline-phosphate cytidylyltransferase B (955 nt)	-14.0921	4.025286	0.00053
PITG_00897	Pi conserved hypothetical protein (1429 nt)	-32.1323	35.76743	0.000531
PITG_08755	Pi myb-like DNA-binding protein, putative (987 nt)	-16.0489	4.52412	0.000537
PITG_04023	Pi conserved hypothetical protein (1584 nt)	-32.2186	-35.595	0.000539
PITG_06273	Pi conserved hypothetical protein (922 nt)	-32.1832	35.66561	0.000539
PITG_07886	Pi EF-hand domain-containing protein, putative (1866 nt)	-32.1832	35.66561	0.000539
PITG_11526	Pi conserved hypothetical protein (2882 nt)	-32.1832	35.66561	0.000539
PITG_10769	Pi conserved hypothetical protein (911 nt)	-32.1321	35.7679	0.000553
PITG_14980	Pi conserved hypothetical protein (1487 nt)	-14.7175	4.056991	0.00056
PITG_06382	Pi conserved hypothetical protein (807 nt)	-16.0587	4.506256	0.000562
PITG_00033	Pi hypothetical protein (889 nt)	-32.1744	35.6834	0.000562
PITG_15320	Pi Voltage-gated Ion Channel (VIC) Superfamily (2520 nt)	-17.0758	5.486243	0.000562
PITG_20285	Pi adenylate kinase, putative (2334 nt)	-17.0758	5.486243	0.000562
PITG_21208	Pi conserved hypothetical protein (357 nt)	-32.1744	35.6834	0.000562
PITG_00514	Pi myb-like DNA-binding protein, putative (627 nt)	-14.0248	3.936503	0.000562
PITG_16069	Pi heat shock protein 101 (2853 nt)	-12.2643	-4.2518	0.000563
PITG_02788	Pi dynein 18 kDa light chain (447 nt)	-32.1556	35.72095	0.000567
PITG_21764	Pi caltractin (690 nt)	-14.1877	4.132381	0.000572
PITG_22479	Pi conserved hypothetical protein (512 nt)	-17.0018	5.645078	0.000577
PITG_15398	Pi conserved hypothetical protein (2334 nt)	-14.5405	4.338271	0.00058
PITG_01219	Pi conserved hypothetical protein (1646 nt)	-17.1347	5.363448	0.000584
PITG_00789	Pi conserved hypothetical protein (393 nt)	-32.1899	-35.6522	0.000584
PITG_20324	Pi conserved hypothetical protein (1335 nt)	-14.1061	-5.33108	0.000585
PITG_11627	Pi conserved hypothetical protein (1284 nt)	-32.1218	-35.7886	0.000586
PITG_05656	Pi WD domain-containing protein, putative (4811 nt)	-16.9459	5.764121	0.000587
PITG_16553	Pi conserved hypothetical protein (802 nt)	-14.9574	4.446322	0.000596
PITG_15549	Pi Mitochondrial Carrier (MC) Family (1028 nt)	-15.0634	4.410701	0.000602
PITG_04445	Pi conserved hypothetical protein (1692 nt)	-16.7244	5.777156	0.000604
PITG_18119	Pi conserved hypothetical protein (1968 nt)	-32.2058	-35.6205	0.000605
PITG_00447	Pi sporangia induced hypothetical protein (1163 nt)	-16.2317	5.28027	0.000612
PITG_03995	Pi ATP-dependent DNA helicase, putative (1613 nt)	-14.5993	-5.03787	0.000616
PITG_10076	Pi conserved hypothetical protein (930 nt)	-31.9684	36.09538	0.000622

PITG_10353	Pi conserved hypothetical protein (688 nt)	-15.0185	-5.09788	0.000627
PITG_23034	Pi Regulator of G protein signaling (2740 nt)	-32.1991	35.63388	0.000628
PITG_03484	Pi conserved hypothetical protein (398 nt)	-16.3343	5.057696	0.000636
PITG_06139	Pi conserved hypothetical protein (1730 nt)	-32.0977	35.83666	0.000659
PITG_19094	Pi conserved hypothetical protein (1027 nt)	-17.1403	5.352377	0.00066
PITG_05386	Pi Zinc (Zn <sup>2+</sup> )-Iron (Fe <sup>2+</sup> ) Permease (ZIP) Family (2693 nt)	-15.0882	-4.67144	0.000661
PITG_06184	Pi conserved hypothetical protein (2648 nt)	-15.3567	-5.56897	0.000663
PITG_08471	Pi protein kinase (1178 nt)	-16.4729	-5.27649	0.000664
PITG_22947	Pi acyl-protein thioesterase, putative (817 nt)	-16.6966	5.819186	0.00067
PITG_15334	Pi hypothetical protein (436 nt)	-17.0465	5.554823	0.000671
PITG_02995	Pi conserved hypothetical protein (701 nt)	-14.9141	-4.40019	0.000673
PITG_19382	Pi conserved hypothetical protein (1280 nt)	-13.0108	-3.86533	0.000677
PITG_01281	Pi conserved hypothetical protein (544 nt)	-32.2045	35.62306	0.000678
PITG_09307	Pi conserved hypothetical protein (388 nt)	-13.7808	-4.75424	0.00068
PITG_13895	Pi sporangia induced conserved hypothetical protein (2312 nt)	-17.0876	5.46749	0.00068
PITG_14005	Pi conserved hypothetical protein (1653 nt)	-14.5068	-5.22558	0.000682
PITG_14252	Pi conserved hypothetical protein (2175 nt)	-16.3796	6.378558	0.000684
PITG_06120	Pi conserved hypothetical protein (1155 nt)	-32.1228	-35.7865	0.000684
PITG_15552	Pi phosphatidylinositol-4-phosphate-5-kinase (PIPK-C) (2006 nt)	-14.9952	4.368866	0.000687
PITG_01811	Pi F-box protein, putative (1187 nt)	-14.9668	-4.29344	0.00069
PITG_23305	Pi hypothetical protein (1044 nt)	-31.8538	-36.3246	0.000697
PITG_16043	Pi conserved hypothetical protein (1179 nt)	-14.1105	-3.97639	0.000699
PITG_14908	Pi bzip controlled hypothetical protein (631 nt)	-16.1146	6.851829	0.0007
PITG_00530	Pi conserved hypothetical protein (1328 nt)	-14.5057	-4.53012	0.000704
PITG_05708	Pi conserved hypothetical protein (1346 nt)	-32.239	35.55403	0.000711
PITG_06309	Pi Voltage-gated Ion Channel (VIC) Superfamily (2325 nt)	-32.2457	35.54074	0.000711
PITG_04034	Pi SUMO protease, putative (3312 nt)	-16.2589	-5.58468	0.000716
PITG_11011	Pi conserved hypothetical protein (537 nt)	-12.9476	-4.11611	0.000728
PITG_05288	Pi conserved hypothetical protein (1815 nt)	-32.0812	35.86974	0.000728
PITG_23198	Pi Crinkler (CRN) family protein, pseudogene (1143 nt)	-32.0812	35.86974	0.000728
PITG_15820	Pi conserved hypothetical protein (2086 nt)	-15.8185	-4.62079	0.000729
PITG_03636	Pi hypothetical protein (383 nt)	-32.231	-35.5701	0.000732
PITG_22311	Pi conserved hypothetical protein (2017 nt)	-32.2602	-35.5118	0.000738
PITG_09482	Pi conserved hypothetical protein (1825 nt)	-14.0914	-4.56159	0.000739
PITG_07458	Pi Ammonium Transporter (Amt) Family (1395 nt)	-17.1783	5.276217	0.000749
PITG_05103	Pi conserved hypothetical protein (1077 nt)	-15.2476	-4.62825	0.00075
PITG_00060	Pi hypothetical protein (647 nt)	-32.185	35.66218	0.000758
PITG_03050	Pi conserved hypothetical protein (4071 nt)	-32.2514	35.52939	0.000765
PITG_08107	Pi hypothetical protein (888 nt)	-32.2514	35.52939	0.000765
PITG_07752	Pi conserved hypothetical protein (2454 nt)	-32.1502	35.73161	0.000769
PITG_06904	Pi conserved hypothetical protein (885 nt)	-32.2674	35.49734	0.000777
PITG_07833	Pi similar to sea slug pheromone (795 nt)	-32.2674	35.49734	0.000777
PITG_02186	Pi FKBP-type peptidyl-prolyl cis-trans isomerase, putative (544 nt)	-13.6314	3.746883	0.00078
PITG_08404	Pi cleavage induced hypothetical protein (853 nt)	-16.0979	4.431173	0.000781
PITG_19800	Pi secreted RxLR effector peptide, putative (621 nt)	-16.5455	-5.12977	0.000782
PITG_01098	Pi ATP-binding Cassette (ABC) superfamily (273 nt)	-16.0872	4.456024	0.000784
PITG_15047	Pi conserved hypothetical protein (2076 nt)	-32.2221	35.58791	0.000787

PITG_11140	Pi sodium-dependent phosphate transporter, putative (1551 nt)	-17.1585	5.320828	0.000794
PITG_17781	Pi conserved hypothetical protein (1531 nt)	-32.2466	-35.5389	0.000794
PITG_14716	Pi conserved hypothetical protein (841 nt)	-32.0191	-35.9939	0.000802
PITG_21042	Pi conserved hypothetical protein (1237 nt)	-32.0291	-35.9739	0.000802
PITG_09193	Pi aquaporin, putative (942 nt)	-14.5897	-5.1485	0.000805
PITG_21618	Pi Voltage-gated Ion Channel (VIC) Superfamily (821 nt)	-32.275	-35.4821	0.000805
PITG_14486	Pi MtN3-like protein (1577 nt)	-15.4781	-5.20056	0.000808
PITG_07487	Pi EF hand containing protein, putative (688 nt)	-16.1396	4.342795	0.000816
PITG_06529	Pi conserved hypothetical protein (2592 nt)	-32.2303	35.5715	0.000823
PITG_17400	Pi conserved hypothetical protein (1270 nt)	-11.6404	-4.018	0.00084
PITG_10412	Pi SCP-like extracellular protein (915 nt)	-16.2408	5.271002	0.000845
PITG_20619	Pi pirin (1082 nt)	-12.667	-4.71071	0.000846
PITG_17088	Pi conserved hypothetical protein (1389 nt)	-15.6867	4.48621	0.000846
PITG_06519	Pi conserved hypothetical protein (1617 nt)	-16.7522	5.707906	0.000849
PITG_10154	Pi conserved hypothetical protein (1158 nt)	-13.8771	-4.50273	0.000851
PITG_01277	Pi hypothetical protein (834 nt)	-32.284	35.46412	0.000853
PITG_03859	Pi conserved hypothetical protein (1775 nt)	-17.196	5.240948	0.000853
PITG_07687	Pi conserved hypothetical protein (2886 nt)	-17.196	5.240948	0.000853
PITG_04464	Pi conserved hypothetical protein (949 nt)	-32.2958	35.44055	0.000853
PITG_20094	Pi hypothetical protein (2087 nt)	-32.2958	35.44055	0.000853
PITG_16268	Pi conserved hypothetical protein (1369 nt)	-32.0721	-35.8879	0.000871
PITG_04320	Pi Major Facilitator Superfamily (MFS) (1530 nt)	-32.1904	35.65123	0.000877
PITG_05607	Pi formin-homology 2 domain-containing protein (5378 nt)	-32.1904	35.65123	0.000877
PITG_06854	Pi conserved hypothetical protein (620 nt)	-32.1904	35.65123	0.000877
PITG_16099	Pi conserved hypothetical protein (4496 nt)	-17.2022	5.229506	0.000884
PITG_11484	Pi secreted RxLR effector peptide, putative (408 nt)	-12.9085	4.876191	0.00089
PITG_14740	Pi conserved hypothetical protein (1719 nt)	-32.1479	35.7364	0.000891
PITG_04447	Pi conserved hypothetical protein (2249 nt)	-32.2606	35.51091	0.000896
PITG_16959	Pi transglutaminase elicitor M81D (1759 nt)	-32.004	36.02404	0.000899
PITG_14057	Pi alcohol dehydrogenase, putative (1005 nt)	-14.6499	-4.38321	0.000901
PITG_01186	Pi lipase, putative (1775 nt)	-31.937	-36.1581	0.000907
PITG_21203	Pi conserved hypothetical protein (1229 nt)	-32.2206	-35.5908	0.00091
PITG_06949	Pi Intraflagellar Transport Protein 20 (713 nt)	-14.8722	4.050806	0.000914
PITG_05427	Pi conserved hypothetical protein (2562 nt)	-17.2084	5.217963	0.000915
PITG_11938	Pi conserved hypothetical protein (747 nt)	-17.2084	5.217963	0.000915
PITG_03273	Pi conserved hypothetical protein (768 nt)	-14.9318	4.227856	0.000927
PITG_07065	Pi conserved hypothetical protein (1494 nt)	-32.2571	35.51791	0.000928
PITG_03162	Pi cleavage induced hypothetical protein (683 nt)	-16.4088	4.907139	0.000929
PITG_00081	Pi protein kinase, putative (2507 nt)	-16.438	4.845903	0.000937
PITG_09350	Pi aquaporin, putative (903 nt)	-14.3651	-4.89081	0.000944
PITG_05880	Pi conserved hypothetical protein (1713 nt)	-15.1808	4.172237	0.000947
PITG_05371	Pi conserved hypothetical protein (1051 nt)	-17.0764	5.498919	0.000948
PITG_11838	Pi Major facilitator Superfamily (1301 nt)	-32.279	35.47412	0.000948
PITG_17063	Pi secreted RxLR effector peptide, putative (483 nt)	-14.9666	4.161297	0.000949
PITG_02654	Pi serine hydrolase (FSH1)-like protein, putative (858 nt)	-32.2896	-35.4529	0.000961
PITG_03911	Pi thioredoxin-like protein (1317 nt)	-32.2899	-35.4523	0.000961
PITG_13590	Pi ATP-binding Cassette (ABC) superfamily (4143 nt)	-16.4282	-5.37162	0.000965

PITG_11878	Pi conserved hypothetical protein (723 nt)	-16.1495	5.079885	0.000976
PITG_19984	Pi conserved hypothetical protein (1292 nt)	-32.2157	35.60076	0.000977
PITG_16074	Pi heat shock protein 101 (2766 nt)	-11.5234	-3.99917	0.000977
PITG_06027	Pi hypothetical protein (1266 nt)	-31.7333	-36.5655	0.000981
PITG_02950	Pi conserved hypothetical protein (684 nt)	-15.7122	-4.73402	0.000983
PITG_15659	Pi ribonucleoside-diphosphate reductase small chain (1180 r	-31.7448	36.54246	0.000984
PITG_16190	Pi hypothetical protein (2274 nt)	-31.7448	36.54246	0.000984
PITG_07882	Pi conserved hypothetical protein (2100 nt)	-15.7604	4.329511	0.000994
PITG_08451	Pi conserved hypothetical protein (2212 nt)	-32.2743	-35.4836	0.000996
PITG_05712	Pi conserved hypothetical protein (471 nt)	-32.2629	35.5063	0.000996
PITG_12763	Pi IQ and ubiquitin-like domain-containing protein, putative (	-16.7215	5.755295	0.001005
PITG_11495	Pi Multidrug/Oligosaccharidyl-lipid/Polysaccharide (MOP) Fli	-16.8051	5.606759	0.001007
PITG_04697	Pi conserved hypothetical protein (2515 nt)	-32.3071	35.41788	0.001009
PITG_04849	Pi conserved hypothetical protein (1595 nt)	-17.2378	5.15828	0.001009
PITG_04379	Pi putative GPI-anchored serine-rich hypothetical protein (59	-32.2348	-35.5625	0.001012
PITG_15576	Pi glycoside hydrolase, putative (911 nt)	-32.2849	35.46229	0.001016
PITG_21762	Pi conserved hypothetical protein (1042 nt)	-16.4278	4.869194	0.001016
PITG_01211	Pi transmembrane protein, putative (1710 nt)	-17.1449	5.354964	0.001018
PITG_17390	Pi protein kinase (2076 nt)	-17.1449	5.354964	0.001018
PITG_11629	Pi conserved hypothetical protein (503 nt)	-15.7651	4.318307	0.001019
PITG_04396	Pi conserved hypothetical protein (552 nt)	-15.7136	-4.84144	0.001031
PITG_17735	Pi conserved hypothetical protein (2304 nt)	-17.2385	5.157916	0.001044
PITG_16392	Pi conserved hypothetical protein (2654 nt)	-16.3013	5.148583	0.001047
PITG_15473	Pi conserved hypothetical protein (1992 nt)	-32.2889	35.4543	0.001051
PITG_03669	Pi conserved hypothetical protein (1037 nt)	-15.744	5.473755	0.001053
PITG_02050	Pi putative chitin synthase (Chitin-UDP-GlcNac-transferase) (	-16.5781	-5.06578	0.001058
PITG_04102	Pi conserved hypothetical protein (1084 nt)	-14.5166	3.780284	0.001063
PITG_20209	Pi conserved hypothetical protein (1670 nt)	-12.176	3.632502	0.00107
PITG_00125	Pi conserved hypothetical protein (1671 nt)	-15.4055	-4.30668	0.001072
PITG_09312	Pi conserved hypothetical protein (656 nt)	-32.3078	35.41653	0.00108
PITG_19967	Pi conserved hypothetical protein (1981 nt)	-32.3078	35.41653	0.00108
PITG_01512	Pi conserved hypothetical protein (864 nt)	-32.1303	35.7715	0.001083
PITG_10475	Pi kinesin-like protein (2201 nt)	-32.1303	35.7715	0.001083
PITG_04948	Pi conserved hypothetical protein (757 nt)	-17.1928	5.254138	0.001088
PITG_00244	Pi hypothetical protein (2329 nt)	-32.2623	-35.5076	0.001091
PITG_23180	Pi Crinkler (CRN) family protein, pseudogene (594 nt)	-12.5822	-3.536	0.0011
PITG_16483	Pi conserved hypothetical protein (1136 nt)	-16.1859	4.25174	0.001114
PITG_09885	Pi ATP-binding Cassette (ABC) Superfamily (1842 nt)	-32.35	35.33219	0.001119
PITG_16057	Pi enolase-like protein, putative (1713 nt)	-17.2502	5.132589	0.001119
PITG_23316	Pi cleavage induced predicted protein (1947 nt)	-32.3563	35.3195	0.001119
PITG_00011	Pi conserved hypothetical protein (591 nt)	-11.8996	-4.31233	0.001121
PITG_09309	Pi conserved hypothetical protein (1971 nt)	-32.149	-35.7342	0.001122
PITG_03830	Pi 3'5'-cyclic nucleotide phosphodiesterase, putative (3449 n	-14.0501	-3.77642	0.001123
PITG_20332	Pi conserved hypothetical protein (4246 nt)	-16.4782	4.765412	0.001131
PITG_07689	Pi secreted RxLR effector peptide, putative (315 nt)	-31.976	36.0802	0.001135
PITG_18543	Pi conserved hypothetical protein (1311 nt)	-15.0273	-4.17318	0.001138
PITG_08120	Pi conserved hypothetical protein (821 nt)	-15.9035	-4.45135	0.001141

PITG_13323	Pi spore induced hypothetical protein (651 nt)	-15.7838	4.282771	0.001141
PITG_06580	Pi conserved hypothetical protein (3943 nt)	-17.172	5.30065	0.001142
PITG_08387	Pi phosphatidylinositol kinase (PIK-H1) (3080 nt)	-32.2689	35.49434	0.001142
PITG_13316	Pi conserved hypothetical protein (1400 nt)	-32.2689	35.49434	0.001142
PITG_16999	Pi conserved hypothetical protein (734 nt)	-10.425	-3.97537	0.001154
PITG_16628	Pi hypothetical protein (1281 nt)	-32.3531	-35.326	0.001157
PITG_01308	Pi conserved hypothetical protein (318 nt)	-32.1373	-35.7575	0.001162
PITG_02650	Pi hypothetical protein (228 nt)	-14.9521	4.408198	0.001164
PITG_08130	Pi conserved hypothetical protein (358 nt)	-16.3323	6.432285	0.001165
PITG_03106	Pi conserved hypothetical protein (2633 nt)	-32.3378	35.35654	0.001196
PITG_08128	Pi conserved hypothetical protein (1080 nt)	-32.3378	35.35654	0.001196
PITG_13907	Pi conserved hypothetical protein (483 nt)	-32.3378	35.35654	0.001196
PITG_22117	Pi transglutaminase elicitor-like protein (1112 nt)	-32.0412	-35.9498	0.001202
PITG_03974	Pi conserved hypothetical protein (1086 nt)	-32.1772	35.67778	0.001212
PITG_10897	Pi Chloride Channel (ClC) Family (2473 nt)	-32.1772	35.67778	0.001212
PITG_22894	Pi secreted RxLR effector peptide, putative (276 nt)	-15.5213	4.263917	0.001213
PITG_13677	Pi phosphatidylinositol-4-phosphate-5-kinase (PIPK-D7/GPCF	-15.2041	-4.62214	0.001227
PITG_18382	Pi conserved hypothetical protein (806 nt)	-13.312	3.983057	0.001231
PITG_03926	Pi conserved hypothetical protein (816 nt)	-17.222	5.195748	0.001235
PITG_10745	Pi conserved hypothetical protein (615 nt)	-32.3201	35.39193	0.001235
PITG_05457	Pi regulator of chromosome condensation (RCC1)-like protei	-17.245	5.145843	0.001236
PITG_15821	Pi conserved hypothetical protein (564 nt)	-32.3679	-35.2963	0.001236
PITG_02303	Pi ornithine decarboxylase 1 (1502 nt)	-14.5856	3.796998	0.001237
PITG_06906	Pi conserved hypothetical protein (2088 nt)	-13.9129	-4.00357	0.001241
PITG_06160	Pi HECT E3 ubiquitin ligase, putative (4422 nt)	-17.2	5.243793	0.001244
PITG_06964	Pi protein kinase, putative (2352 nt)	-32.2971	35.43799	0.001244
PITG_09834	Pi conserved hypothetical protein (3282 nt)	-17.2	5.243793	0.001244
PITG_21371	Pi conserved hypothetical protein (599 nt)	-17.2	5.243793	0.001244
PITG_04834	Pi conserved hypothetical protein (4770 nt)	-14.9432	3.907814	0.001246
PITG_07635	Pi conserved hypothetical protein (2342 nt)	-32.2477	35.53665	0.00125
PITG_12844	Pi conserved hypothetical protein (762 nt)	-32.2477	35.53665	0.00125
PITG_02748	Pi conserved hypothetical protein (981 nt)	-15.1782	-4.67438	0.001254
PITG_21285	Pi hypothetical protein (794 nt)	-16.8454	5.528462	0.001271
PITG_12004	Pi conserved hypothetical protein (1823 nt)	-32.1183	-35.7956	0.001272
PITG_15214	Pi conserved hypothetical protein (1016 nt)	-32.331	35.3701	0.001277
PITG_04480	Pi conserved hypothetical protein (883 nt)	-15.8725	4.575721	0.001283
PITG_21621	Pi cysteine protease family (429 nt)	-17.2888	5.05522	0.001291
PITG_07200	Pi conserved hypothetical protein (1056 nt)	-15.3725	-4.37859	0.001311
PITG_12812	Pi sporangia induced conserved hypothetical protein (1529 r	-15.4545	4.352225	0.001313
PITG_00273	Pi N-acetylated-alpha-linked acidic dipeptidase-like protein (	-15.9393	5.131869	0.001324
PITG_02107	Pi conserved hypothetical protein (579 nt)	-16.1737	5.027884	0.001331
PITG_12609	Pi Crinkler (CRN) family protein (1561 nt)	-32.385	-35.262	0.001333
PITG_15244	Pi ATP-binding Cassette (ABC) Superfamily (4052 nt)	-32.3627	35.30672	0.001333
PITG_16614	Pi Crinkler (CRN) family protein (1281 nt)	-15.7682	-4.62197	0.001337
PITG_22517	Pi dynein heavy chain (1942 nt)	-16.8667	5.488167	0.001345
PITG_15999	Pi conserved hypothetical protein (784 nt)	-13.0695	3.797007	0.001348
PITG_14010	Pi conserved hypothetical protein (1545 nt)	-32.275	35.48208	0.001351



PITG_15253	Pi ATP-binding Cassette (ABC) Superfamily (1364 nt)	-32.2704	35.49133	0.001351
PITG_03679	Pi conserved hypothetical protein (1258 nt)	-17.2522	5.13445	0.001363
PITG_19763	Pi conserved hypothetical protein (638 nt)	-32.3505	35.33112	0.001363
PITG_14691	Pi hypothetical protein (2751 nt)	-15.0664	-5.01012	0.001366
PITG_13248	Pi conserved hypothetical protein (1178 nt)	-14.8246	-3.95839	0.001367
PITG_15175	Pi conserved hypothetical protein (1117 nt)	-14.9618	3.870444	0.00137
PITG_03051	Pi Drug/Metabolite Transporter (DMT) Superfamily (1306 nt)	-32.3691	35.29382	0.001376
PITG_14400	Pi myb-like DNA-binding protein, putative (917 nt)	-14.0032	-4.24856	0.001378
PITG_13540	Pi hypothetical protein (3066 nt)	-32.2109	-35.6103	0.00138
PITG_12403	Pi conserved hypothetical protein (1453 nt)	-15.2121	3.889471	0.001386
PITG_22124	Pi P-type ATPase (P-ATPase) Superfamily (3539 nt)	-32.094	-35.8442	0.001398
PITG_15269	Pi conserved hypothetical protein (700 nt)	-15.7405	-4.79056	0.001405
PITG_21352	Pi conserved hypothetical protein (3558 nt)	-16.2144	4.950004	0.001406
PITG_20047	Pi 2-isopropylmalate synthase, putative (630 nt)	-32.1697	-35.6927	0.001406
PITG_03612	Pi G-protein alpha subunit 1 (1608 nt)	-14.5604	3.855549	0.001407
PITG_12140	Pi peroxisomal Lon protease (2784 nt)	-14.7701	-4.00042	0.001411
PITG_18923	Pi putative GPI-anchored serine-rich hypothetical protein (81	-12.1692	-3.54863	0.001418
PITG_05143	Pi conserved hypothetical protein (498 nt)	-17.2766	5.082665	0.001421
PITG_11185	Pi hypothetical protein (579 nt)	-32.3757	35.2808	0.001421
PITG_15041	Pi conserved hypothetical protein (651 nt)	-32.3757	35.2808	0.001421
PITG_16499	Pi cytochrome P450, putative (1572 nt)	-17.2766	5.082665	0.001421
PITG_22047	Pi E3 ubiquitin-protein ligase HERC, putative (1561 nt)	-17.2766	5.082665	0.001421
PITG_04777	Pi conserved hypothetical protein (1102 nt)	-13.4239	-3.59604	0.00143
PITG_10326	Pi hypothetical protein (2982 nt)	-31.8883	-36.2554	0.001443
PITG_04521	Pi conserved hypothetical protein (1795 nt)	-31.8966	-36.2388	0.001443
PITG_10493	Pi hypothetical protein (927 nt)	-31.8966	-36.2388	0.001443
PITG_00124	Pi ser/thr kinase (1093 nt)	-15.5081	4.239358	0.001443
PITG_14124	Pi glycoside hydrolase, putative (927 nt)	-32.1277	-35.7768	0.00146
PITG_14862	Pi conserved hypothetical protein (1476 nt)	-32.1162	-35.7997	0.00146
PITG_03933	Pi CTD small phosphatase-like protein, putative (1269 nt)	-12.1315	3.460188	0.001467
PITG_20148	Pi conserved hypothetical protein (3544 nt)	-15.4899	4.279555	0.001484
PITG_07943	Pi phospholipid-transporting ATPase, putative (7899 nt)	-17.3228	4.987391	0.001495
PITG_11616	Pi conserved hypothetical protein (1011 nt)	-16.1931	4.251173	0.001513
PITG_08549	Pi mitogen-activated protein kinase kinase kinase, putative (	-17.2837	5.070414	0.001514
PITG_12660	Pi conserved hypothetical protein (1298 nt)	-17.2837	5.070414	0.001514
PITG_05150	Pi conserved hypothetical protein (2939 nt)	-15.4491	4.393834	0.00152
PITG_08480	Pi ubiquitin, putative (2784 nt)	-32.2559	-35.5203	0.001526
PITG_09595	Pi conserved hypothetical protein (783 nt)	-15.7101	4.58513	0.00153
PITG_08509	Pi conserved hypothetical protein (828 nt)	-12.8056	-3.68329	0.001535
PITG_15100	Pi histidine ammonia-lyase (1846 nt)	-14.3665	-3.82782	0.001536
PITG_22677	Pi PcF and SCR74-like cys-rich secreted peptide, putative (21	-16.8921	5.434898	0.001539
PITG_07184	Pi conserved hypothetical protein (1653 nt)	-32.4019	35.22822	0.001542
PITG_08922	Pi Rab11 family GTPase, putative (1075 nt)	-32.4019	35.22822	0.001542
PITG_13766	Pi WD repeat protein 35 (6588 nt)	-17.3161	5.001601	0.001542
PITG_05223	Pi phosphatidylinositol-3,4,5-trisphosphate 5-phosphatase, p	-32.3571	35.31795	0.001549
PITG_18992	Pi acyltransferase family (1344 nt)	-32.3571	35.31795	0.001549
PITG_20902	Pi outer dynein arm-docking complex subunit 3 (803 nt)	-32.3571	35.31795	0.001549

PITG_12761	Pi secreted RxLR effector peptide, putative (849 nt)	-32.3361	-35.3599	0.00155
PITG_03164	Pi conserved hypothetical protein (632 nt)	-14.7969	3.824233	0.001554
PITG_06318	Pi conserved hypothetical protein (2615 nt)	-16.2281	4.174164	0.001562
PITG_17554	Pi myb-like DNA-binding protein, putative (640 nt)	-32.3066	-35.4189	0.001564
PITG_05682	Pi conserved hypothetical protein (405 nt)	-14.1891	3.994738	0.001569
PITG_17855	Pi conserved hypothetical protein (2509 nt)	-16.2683	4.085387	0.00158
PITG_07143	Pi catalase-peroxidase, putative (2105 nt)	-32.4089	35.21441	0.001591
PITG_07697	Pi conserved hypothetical protein (840 nt)	-32.4196	-35.1929	0.001591
PITG_21961	Pi conserved hypothetical protein (1683 nt)	-15.4609	4.371364	0.00161
PITG_04232	Pi conserved hypothetical protein (1917 nt)	-32.4015	-35.2292	0.001612
PITG_08729	Pi conserved hypothetical protein (780 nt)	-16.5727	-5.08101	0.001613
PITG_09216	Pi secreted RxLR effector peptide, putative (528 nt)	-14.4931	4.925865	0.00164
PITG_16089	Pi conserved hypothetical protein (1434 nt)	-15.0469	3.99755	0.001646
PITG_18302	Pi conserved hypothetical protein (558 nt)	-32.352	-35.3281	0.00165
PITG_01395	Pi glycoside hydrolase, putative (1716 nt)	-15.7082	-4.74118	0.001661
PITG_02357	Pi P-type ATPase (P-ATPase) Superfamily (3566 nt)	-13.3281	3.804878	0.001663
PITG_13052	Pi glycoside hydrolase, putative (1197 nt)	-14.1939	-3.81031	0.001684
PITG_10965	Pi conserved hypothetical protein (2415 nt)	-32.402	35.22814	0.001692
PITG_18497	Pi Crinkler (CRN) family protein (1358 nt)	-11.6501	-3.42828	0.001703
PITG_05866	Pi conserved hypothetical protein (715 nt)	-32.4582	-35.1157	0.00174
PITG_08628	Pi conserved hypothetical protein (1098 nt)	-17.3366	4.959775	0.00174
PITG_03869	Pi hypothetical protein (708 nt)	-17.317	5.003773	0.001744
PITG_20024	Pi hypothetical protein (816 nt)	-17.317	5.003773	0.001744
PITG_13084	Pi conserved hypothetical protein (795 nt)	-32.2788	-35.4745	0.00175
PITG_11522	Pi aspartyl protease family A01B, putative (1473 nt)	-16.2864	4.049149	0.001752
PITG_05397	Pi conserved hypothetical protein (3759 nt)	-17.2156	5.223713	0.001776
PITG_14148	Pi hypothetical protein (1080 nt)	-15.3187	4.97616	0.001777
PITG_16936	Pi conserved hypothetical protein (498 nt)	-13.6116	3.449887	0.001793
PITG_20533	Pi conserved hypothetical protein (989 nt)	-32.4409	-35.1503	0.001793
PITG_05203	Pi ATP-binding Cassette (ABC) superfamily (3362 nt)	-17.3515	4.930881	0.001793
PITG_15067	Pi conserved hypothetical protein (1969 nt)	-32.4573	-35.1175	0.001793
PITG_14489	Pi conserved hypothetical protein (1783 nt)	-16.475	-5.28269	0.001804
PITG_07046	Pi major vault protein (2627 nt)	-16.4838	-5.26515	0.001804
PITG_10686	Pi conserved hypothetical protein (796 nt)	-32.1819	-35.6684	0.00181
PITG_06926	Pi cysteine protease family C01A, putative (1245 nt)	-32.3329	35.36623	0.00181
PITG_08437	Pi conserved hypothetical protein (1400 nt)	-31.9965	36.03918	0.001842
PITG_01273	Pi PLAC8 family protein (315 nt)	-32.4434	35.14532	0.001848
PITG_03438	Pi lipin-like protein (1587 nt)	-16.4548	-5.19335	0.001848
PITG_10362	Pi conserved hypothetical protein (867 nt)	-9.66792	-6.37989	0.001864
PITG_04032	Pi conserved hypothetical protein (789 nt)	-15.4333	4.417299	0.001869
PITG_22544	Pi conserved hypothetical protein (723 nt)	-16.5663	4.589175	0.001879
PITG_11882	Pi conserved hypothetical protein (901 nt)	-13.3346	-3.3715	0.001884
PITG_01816	Pi conserved hypothetical protein (1913 nt)	-17.3248	4.991237	0.00191
PITG_06916	Pi conserved hypothetical protein (3997 nt)	-17.3248	4.991237	0.00191
PITG_08008	Pi protein kinase, putative (2631 nt)	-17.3248	4.991237	0.00191
PITG_08423	Pi kinesin-like protein (3419 nt)	-17.3248	4.991237	0.00191
PITG_17854	Pi conserved hypothetical protein (2622 nt)	-32.2095	-35.6131	0.001914

PITG_18332	Pi glycoside hydrolase, putative (1104 nt)	-32.2095	-35.6131	0.001914
PITG_04130	Pi cobalamin synthesis protein, putative (1715 nt)	-31.971	36.09006	0.001922
PITG_06107	Pi protein kinase, putative (1699 nt)	-15.2936	3.726712	0.001925
PITG_16956	Pi transglutaminase elicitor, putative (2508 nt)	-16.6355	-4.95457	0.001941
PITG_19623	Pi polygalacturonase, putative (1188 nt)	-32.308	-35.416	0.00195
PITG_11296	Pi DNA mismatch repair protein Msh3, putative (3033 nt)	-16.661	-4.90268	0.001981
PITG_13674	Pi conserved hypothetical protein (717 nt)	-32.3099	35.41233	0.00199
PITG_13651	Pi conserved hypothetical protein (915 nt)	-16.0236	-4.21041	0.002003
PITG_18521	Pi conserved hypothetical protein (897 nt)	-16.7123	-4.79702	0.002015
PITG_12466	Pi Proton-dependent Oligopeptide Transporter (POT) Family	-32.2394	-35.5533	0.002031
PITG_19100	Pi Voltage-gated Ion Channel (VIC) Superfamily (1416 nt)	-17.1688	5.32875	0.002033
PITG_07344	Pi conserved hypothetical protein (2091 nt)	-32.4654	35.10135	0.002037
PITG_09650	Pi conserved hypothetical protein (639 nt)	-32.4654	35.10135	0.002037
PITG_23307	Pi hypothetical cleavage-induced transcript lacking long ORF	-16.0218	4.966894	0.002044
PITG_05537	Pi copper-transporting ATPase, putative (4125 nt)	-14.6883	-4.02474	0.002056
PITG_21190	Pi secreted RxLR effector peptide, putative (1020 nt)	-32.4021	-35.228	0.002057
PITG_08417	Pi conserved hypothetical protein (668 nt)	-14.2506	3.574543	0.002065
PITG_21313	Pi glucokinase, putative (933 nt)	-12.6041	-3.91238	0.002067
PITG_10884	Pi protein kinase, putative (2730 nt)	-13.9235	3.593336	0.00208
PITG_11823	Pi hypothetical protein (954 nt)	-16.9224	5.367562	0.002089
PITG_10460	Pi conserved hypothetical protein (5694 nt)	-16.7254	-4.76996	0.002095
PITG_06788	Pi exoglucanase 1 precursor (1575 nt)	-16.5953	4.531179	0.002095
PITG_10284	Pi cellulose binding elicitor lectin (CBEL), putative (1639 nt)	-32.4582	35.11571	0.002097
PITG_11396	Pi conserved hypothetical protein (3393 nt)	-32.4726	35.0869	0.002097
PITG_12196	Pi conserved hypothetical protein (699 nt)	-32.4766	-35.0788	0.002097
PITG_16473	Pi serine protease family S08A, putative (1422 nt)	-32.4726	35.0869	0.002097
PITG_17478	Pi conserved hypothetical protein (432 nt)	-32.4726	35.0869	0.002097
PITG_22475	Pi conserved hypothetical protein (956 nt)	-14.3853	3.583634	0.002124
PITG_04690	Pi pyridine nucleotide-disulphide oxidoreductase, putative (1	-11.8344	-3.74295	0.002129
PITG_14505	Pi conserved hypothetical protein (389 nt)	-32.4425	-35.1471	0.002141
PITG_13231	Pi cobalamin synthesis protein, putative (1371 nt)	-32.451	35.13005	0.002158
PITG_10507	Pi cleavage induced hypothetical protein (1441 nt)	-15.4647	3.840124	0.002159
PITG_02721	Pi tubulin polyglutamylase, putative (1992 nt)	-16.6943	5.756689	0.002161
PITG_21141	Pi ATP-binding Cassette (ABC) superfamily (1744 nt)	-16.3255	3.970896	0.002168
PITG_05605	Pi radial spoke head protein, putative (2076 nt)	-32.3397	35.35279	0.002172
PITG_07078	Pi conserved hypothetical protein (2564 nt)	-32.3397	35.35279	0.002172
PITG_09605	Pi conserved hypothetical protein (608 nt)	-32.3514	-35.3293	0.002172
PITG_12916	Pi cysteine protease family C01A, putative (1440 nt)	-15.2931	-4.44464	0.002179
PITG_06182	Pi conserved hypothetical protein (1473 nt)	-13.9544	-4.02276	0.002189
PITG_04373	Pi secreted RxLR effector peptide, putative (426 nt)	-13.0889	-3.53585	0.00219
PITG_00772	Pi Major Facilitator Superfamily (MFS) (1662 nt)	-32.4226	35.18692	0.002204
PITG_07531	Pi conserved hypothetical protein (2090 nt)	-15.871	-4.41644	0.002206
PITG_13396	Pi conserved hypothetical protein (587 nt)	-11.9468	-3.50173	0.002212
PITG_01284	Pi conserved hypothetical protein (426 nt)	-15.5913	4.073006	0.002212
PITG_10991	Pi conserved hypothetical protein (1197 nt)	-32.076	35.88018	0.002219
PITG_10430	Pi peroxisomal acyl-coenzyme A oxidase, putative (1976 nt)	-32.4944	-35.0432	0.00222
PITG_10474	Pi hypothetical protein (1124 nt)	-17.3882	4.859424	0.00222

PITG_07574	Pi conserved hypothetical protein (1383 nt)	-13.3684	-3.46775	0.002239
PITG_12058	Pi ATP-binding Cassette (ABC) Superfamily (2430 nt)	-15.901	4.052094	0.002241
PITG_22431	Pi conserved hypothetical protein (835 nt)	-16.5959	-5.03745	0.002247
PITG_09897	Pi conserved hypothetical protein (781 nt)	-15.9355	-4.39421	0.002259
PITG_07423	Pi conserved hypothetical protein (1173 nt)	-15.7948	-4.68537	0.002269
PITG_06510	Pi conserved hypothetical protein (925 nt)	-14.0552	-3.47861	0.002279
PITG_03925	Pi hypothetical protein (699 nt)	-32.4805	-35.071	0.002285
PITG_06759	Pi conserved hypothetical protein (3396 nt)	-13.9067	-3.47399	0.002298
PITG_17142	Pi Major Facilitator Superfamily (MFS) (1380 nt)	-16.7653	-4.69014	0.002341
PITG_10764	Pi transmembrane protein, putative (1509 nt)	-32.4936	-35.0449	0.00235
PITG_15445	Pi conserved hypothetical protein (1188 nt)	-32.5009	-35.0304	0.00235
PITG_17399	Pi conserved hypothetical protein (454 nt)	-16.6482	-4.9305	0.002355
PITG_10750	Pi beta-glucan synthesis-associated protein, putative (2402 r	-15.3726	-4.28465	0.002356
PITG_22830	Pi Crinkler (CRN) family protein, pseudogene (498 nt)	-13.7635	-3.40824	0.002361
PITG_03053	Pi Drug/Metabolite Transporter (DMT) Superfamily (674 nt)	-15.8914	-4.48691	0.002364
PITG_05296	Pi cleavage induced hypothetical protein (1213 nt)	-15.3573	3.818423	0.002369
PITG_20241	Pi transmembrane protein, putative (1626 nt)	-32.108	-35.816	0.002373
PITG_13060	Pi conserved hypothetical protein (964 nt)	-13.5521	-3.56603	0.00239
PITG_01568	Pi cGMP 3',5'-cyclic phosphodiesterase subunit delta, putativ	-14.6705	4.275186	0.002391
PITG_02613	Pi conserved hypothetical protein (799 nt)	-32.5171	-34.9979	0.002397
PITG_04876	Pi hypothetical protein (381 nt)	-32.5171	-34.9979	0.002397
PITG_06908	Pi elicitor-like protein (522 nt)	-17.411	4.810913	0.002397
PITG_12890	Pi conserved hypothetical protein (1289 nt)	-17.411	4.810913	0.002397
PITG_15065	Pi conserved hypothetical protein (1365 nt)	-32.5171	-34.9979	0.002397
PITG_01441	Pi conserved hypothetical protein (360 nt)	-14.0608	3.583998	0.002401
PITG_07342	Pi conserved hypothetical protein (761 nt)	-15.0552	-4.71378	0.002408
PITG_01919	Pi Mitochondrial Carrier (MC) Family (1106 nt)	-16.7653	-4.69063	0.002421
PITG_15655	Pi conserved hypothetical protein (2621 nt)	-16.9904	5.242986	0.002421
PITG_06456	Pi maintenance of ploidy protein mob1 (780 nt)	-16.3444	4.692657	0.00243
PITG_14582	Pi sporangia induced hypothetical protein (657 nt)	-14.8767	4.099418	0.002438
PITG_14288	Pi polysaccharide lyase, putative (1681 nt)	-32.097	-35.838	0.00245
PITG_19474	Pi cobalamin adenosyltransferase, putative (704 nt)	-16.3736	-5.34706	0.002452
PITG_10495	Pi hypothetical protein (1115 nt)	-13.7803	-6.3677	0.002452
PITG_10380	Pi conserved hypothetical protein (1392 nt)	-32.3708	35.29052	0.002454
PITG_08758	Pi Chloride Channel (ClC) Family (2575 nt)	-15.1511	3.701778	0.002458
PITG_03170	Pi SCP-like extracellular protein (558 nt)	-32.4958	35.04057	0.002465
PITG_06038	Pi conserved hypothetical protein (977 nt)	-32.5198	-34.9925	0.002465
PITG_07417	Pi conserved hypothetical protein (858 nt)	-32.5198	-34.9925	0.002465
PITG_10274	Pi acetyltransferase (GNAT) family, putative (871 nt)	-32.5368	-34.9584	0.002465
PITG_11879	Pi hypothetical protein (1593 nt)	-32.0973	35.83757	0.002465
PITG_19649	Pi endopolygalacturonase, putative (967 nt)	-17.3329	4.978861	0.002471
PITG_06607	Pi protein kinase, putative (2332 nt)	-16.5986	4.531903	0.002481
PITG_01868	Pi conserved hypothetical protein (1683 nt)	-32.4578	35.11654	0.002486
PITG_14127	Pi conserved hypothetical protein (1123 nt)	-15.025	-4.02024	0.002502
PITG_09471	Pi F-box protein, putative (879 nt)	-16.6051	4.514531	0.002503
PITG_17161	Pi conserved hypothetical protein (2064 nt)	-16.7661	-4.68931	0.002503
PITG_07270	Pi conserved hypothetical protein (4688 nt)	-16.6116	4.501461	0.002503

PITG_01056	Pi myb-like DNA-binding protein, putative (1658 nt)	-14.2651	3.632288	0.002504
PITG_13491	Pi calcineurin-like phosphoesterase, putative (1645 nt)	-15.7813	-4.59476	0.002512
PITG_13002	Pi Major Facilitator Superfamily (MFS) (1476 nt)	-14.1629	4.259879	0.002515
PITG_20693	Pi crinkler (CRN) family protein, pseudogene (2824 nt)	-16.0382	-4.18355	0.002517
PITG_06365	Pi conserved hypothetical protein (1917 nt)	-15.7552	-4.64669	0.002518
PITG_04833	Pi conserved hypothetical protein (1761 nt)	-32.4298	35.17242	0.002542
PITG_07076	Pi Voltage-gated Ion Channel (VIC) Superfamily (4657 nt)	-32.4298	35.17242	0.002542
PITG_22944	Pi secreted peptide, putative, 3' partial (1327 nt)	-32.4298	35.17242	0.002542
PITG_14570	Pi conserved hypothetical protein (1274 nt)	-15.243	4.031297	0.002599
PITG_13030	Pi P-type ATPase (P-ATPase) Superfamily (3897 nt)	-15.6127	4.032209	0.002617
PITG_03485	Pi hypothetical protein (1088 nt)	-17.022	5.181972	0.002625
PITG_06480	Pi protein kinase, putative (6057 nt)	-16.7932	-4.63435	0.002625
PITG_13083	Pi conserved hypothetical protein (786 nt)	-32.4739	-35.0844	0.002629
PITG_02774	Pi multiple inositol polyphosphate phosphatase, putative (44	-16.3425	3.942003	0.002673
PITG_07319	Pi calcium-activated potassium channel subunit alpha-1, putative	-16.3425	3.942003	0.002673
PITG_12124	Pi protein phosphatase 2C, putative (1356 nt)	-16.7666	-4.6891	0.002673
PITG_11096	Pi hypothetical protein (1086 nt)	-32.4873	35.05748	0.002676
PITG_12273	Pi conserved hypothetical protein (1558 nt)	-32.5343	-34.9635	0.002676
PITG_18445	Pi hypothetical protein (1604 nt)	-32.3168	35.39852	0.002681
PITG_18913	Pi hypothetical protein (716 nt)	-16.0234	4.273761	0.002689
PITG_04590	Pi conserved hypothetical protein (1771 nt)	-15.8587	-4.44057	0.002693
PITG_11463	Pi carbohydrate-binding protein, putative (753 nt)	-13.9935	3.575239	0.002712
PITG_07242	Pi conserved hypothetical protein (639 nt)	-15.2164	-3.79436	0.002713
PITG_09890	Pi alternative oxidase, mitochondrial precursor (1034 nt)	-12.2045	-4.14431	0.002723
PITG_11937	Pi conserved hypothetical protein (1005 nt)	-15.9969	4.663888	0.002734
PITG_07165	Pi serine protease family S10, putative (1536 nt)	-32.5137	-35.0047	0.00275
PITG_07331	Pi conserved hypothetical protein (1314 nt)	-32.522	-34.9881	0.00275
PITG_15060	Pi conserved hypothetical protein (3840 nt)	-32.5137	-35.0047	0.00275
PITG_14226	Pi conserved hypothetical protein (1554 nt)	-15.7605	4.056412	0.002754
PITG_09121	Pi conserved hypothetical protein (667 nt)	-16.9947	5.225125	0.002761
PITG_05729	Pi conserved hypothetical protein (1581 nt)	-16.0044	-4.25531	0.002777
PITG_22675	Pi secreted RxLR effector peptide, putative (363 nt)	-32.2854	35.4613	0.002796
PITG_14267	Pi Crinkler (CRN) family protein, pseudogene (1902 nt)	-12.2214	-3.29879	0.002813
PITG_15270	Pi conserved hypothetical protein (788 nt)	-15.1417	-3.94673	0.002814
PITG_07793	Pi Outer Dynein Arm Light Chain 2 (550 nt)	-14.0815	3.414524	0.002825
PITG_16434	Pi conserved hypothetical protein (2661 nt)	-32.4653	35.1015	0.002855
PITG_21303	Pi secreted RxLR effector peptide, putative, 3' partial (634 nt)	-13.75	-5.86326	0.002858
PITG_16472	Pi kazal serine protease inhibitor PbraEPI2 (981 nt)	-15.2221	-3.78308	0.002871
PITG_05697	Pi Crinkler (CRN) family protein, pseudogene (862 nt)	-12.9251	-3.18666	0.002884
PITG_08178	Pi conserved hypothetical protein (2157 nt)	-32.1653	35.70152	0.002892
PITG_02230	Pi conserved hypothetical protein (2093 nt)	-32.5334	-34.9652	0.002903
PITG_15744	Pi conserved hypothetical protein (1112 nt)	-32.4949	35.04235	0.002903
PITG_07832	Pi conserved hypothetical protein (1376 nt)	-32.3468	35.33851	0.002907
PITG_13638	Pi glucanase inhibitor protein 1 (777 nt)	-32.3468	35.33851	0.002907
PITG_02306	Pi hypothetical protein (1337 nt)	-17.4596	4.714679	0.002915
PITG_06804	Pi conserved hypothetical protein (16341 nt)	-17.4596	4.714679	0.002915
PITG_07345	Pi transmembrane protein, putative (2031 nt)	-32.5433	34.94544	0.002915

PITG_12103	Pi conserved hypothetical protein (1092 nt)	-17.4596	4.714679	0.002915
PITG_12950	Pi cAMP-specific 3',5'-cyclic phosphodiesterase, putative (26	-32.5433	34.94544	0.002915
PITG_17791	Pi ubiquitin-specific protease, putative (8249 nt)	-32.5512	34.92967	0.002915
PITG_18987	Pi hypothetical protein (354 nt)	-32.5586	-34.915	0.002915
PITG_05481	Pi conserved hypothetical protein (1622 nt)	-17.3419	4.96696	0.002923
PITG_15908	Pi conserved hypothetical protein (5365 nt)	-17.3419	4.96696	0.002923
PITG_18412	Pi pre-mRNA cleavage complex II protein Clp1, putative (131	-32.5131	-35.006	0.002982
PITG_01445	Pi protein kinase, putative (2103 nt)	-16.6486	4.430407	0.002986
PITG_01086	Pi conserved hypothetical protein (1296 nt)	-11.0014	-3.75866	0.003015
PITG_14937	Pi conserved hypothetical protein (2201 nt)	-14.8065	3.526423	0.003037
PITG_01713	Pi conserved hypothetical protein (1559 nt)	-16.605	4.523495	0.003041
PITG_16898	Pi hypothetical protein (426 nt)	-12.7724	3.136923	0.003058
PITG_10966	Pi conserved hypothetical protein (672 nt)	-32.5261	34.9799	0.003073
PITG_15264	Pi transmembrane protein, putative (1623 nt)	-32.5261	34.9799	0.003073
PITG_19117	Pi conserved hypothetical protein (1705 nt)	-32.5261	34.9799	0.003073
PITG_12215	Pi Zinc (Zn <sup>2+</sup> )-Iron (Fe <sup>2+</sup> ) Permease (ZIP) Family (1005 nt)	-16.1493	4.023461	0.003103
PITG_14580	Pi conserved hypothetical protein (1702 nt)	-15.8172	-4.52289	0.003109
PITG_00792	Pi conserved hypothetical protein (478 nt)	-16.0288	-4.20575	0.003113
PITG_01553	Pi HECT ubiquitin ligase, putative (2046 nt)	-16.6953	-4.83754	0.003115
PITG_15116	Pi Multidrug/Oligosaccharidyl-lipid/Polysaccharide (MOP) Fli	-15.0056	-3.52889	0.003124
PITG_03519	Pi conserved hypothetical protein (1339 nt)	-14.1034	-3.3824	0.003125
PITG_05629	Pi Poly(A) polymerase, putative (1901 nt)	-16.8076	-4.6063	0.003143
PITG_01655	Pi conserved hypothetical protein (910 nt)	-32.5116	35.00886	0.003145
PITG_03690	Pi hypothetical protein (483 nt)	-32.5276	34.97697	0.003155
PITG_06023	Pi conserved hypothetical protein (1107 nt)	-32.5276	34.97697	0.003155
PITG_11021	Pi conserved hypothetical protein (721 nt)	-15.7169	4.147141	0.003216
PITG_15616	Pi protein kinase (861 nt)	-15.6999	4.570801	0.003217
PITG_00005	Pi protein kinase, putative (1646 nt)	-32.2035	-35.6251	0.003222
PITG_02393	Pi conserved hypothetical protein (1545 nt)	-32.5026	35.02683	0.00323
PITG_03062	Pi conserved hypothetical protein (1880 nt)	-32.5026	35.02683	0.00323
PITG_05836	Pi conserved hypothetical protein (1684 nt)	-32.5026	35.02683	0.00323
PITG_08487	Pi conserved hypothetical protein (1651 nt)	-15.4891	-4.05043	0.003233
PITG_19636	Pi polygalacturonase, putative (474 nt)	-16.5999	-5.0342	0.003246
PITG_07253	Pi conserved hypothetical protein (300 nt)	-17.3774	4.894958	0.003268
PITG_03240	Pi conserved hypothetical protein (5329 nt)	-16.6295	4.473019	0.003282
PITG_07586	Pi conserved hypothetical protein (547 nt)	-15.4916	4.640305	0.003286
PITG_15963	Pi conserved hypothetical protein (1521 nt)	-15.6363	4.404946	0.003288
PITG_03443	Pi lipin-like protein (1587 nt)	-15.509	-4.01059	0.003306
PITG_00705	Pi conserved hypothetical protein (759 nt)	-32.5128	-35.0065	0.003316
PITG_19915	Pi conserved hypothetical protein (808 nt)	-32.5332	-34.9657	0.003316
PITG_12695	Pi conserved hypothetical protein (1068 nt)	-12.9855	-3.25151	0.00332
PITG_02341	Pi conserved hypothetical protein (678 nt)	-32.534	34.96415	0.003323
PITG_05865	Pi serine/threonine protein kinase (1321 nt)	-32.534	34.96415	0.003323
PITG_20917	Pi sulfatase-like protein (939 nt)	-32.534	34.96415	0.003323
PITG_03646	Pi vacuolar protein-sorting-associated protein, putative (147	-16.8367	-4.5473	0.003328
PITG_18721	Pi conserved hypothetical protein (939 nt)	-15.2125	3.580932	0.003348
PITG_08757	Pi Voltage-gated Ion Channel (VIC) Superfamily (1309 nt)	-32.4731	35.08598	0.003356

PITG_09787	Pi cytochrome P450, putative (1697 nt)	-14.386	-3.91225	0.003383
PITG_03064	Pi kinesin-like protein (3993 nt)	-17.5026	4.627635	0.003384
PITG_03203	Pi exocyst complex component 4, putative (2990 nt)	-17.4943	4.644238	0.003384
PITG_10347	Pi secreted RxLR effector peptide, putative (1329 nt)	-32.5196	34.99289	0.00341
PITG_15077	Pi serine protease family S33, putative (1402 nt)	-32.5546	-34.9228	0.00341
PITG_04634	Pi conserved hypothetical protein (3590 nt)	-15.6772	3.94488	0.003439
PITG_11274	Pi long-chain-fatty-acid-CoA ligase, putative (2647 nt)	-14.025	-3.49561	0.003444
PITG_19609	Pi dynein-like protein (1863 nt)	-15.0051	3.684274	0.003445
PITG_01661	Pi conserved hypothetical protein (1396 nt)	-16.4006	3.827646	0.00345
PITG_19150	Pi hypothetical protein (1125 nt)	-15.6266	-3.86639	0.003456
PITG_00416	Pi calcium-dependent protein kinase, putative (2172 nt)	-32.6043	-34.8235	0.00347
PITG_08840	Pi conserved hypothetical protein (499 nt)	-32.5592	34.91379	0.00347
PITG_10429	Pi SCP-like extracellular protein (694 nt)	-32.6043	-34.8235	0.00347
PITG_02500	Pi conserved hypothetical protein (790 nt)	-14.5611	-4.05968	0.00348
PITG_01143	Pi conserved hypothetical protein (838 nt)	-32.2404	35.55125	0.00348
PITG_03278	Pi sporangia induced hypothetical protein (2039 nt)	-15.2764	3.817993	0.003484
PITG_13274	Pi hypothetical protein (558 nt)	-17.463	4.714689	0.003499
PITG_21642	Pi conserved hypothetical protein (463 nt)	-16.1139	-4.03212	0.00351
PITG_17744	Pi conserved hypothetical protein (1778 nt)	-17.0705	5.080458	0.003538
PITG_21553	Pi thioredoxin-like protein (1306 nt)	-32.4747	-35.0827	0.003538
PITG_01027	Pi SF-assemblin, putative (1047 nt)	-32.5672	34.89775	0.003559
PITG_04341	Pi transmembrane protein, putative (1410 nt)	-32.5672	34.89775	0.003559
PITG_04615	Pi glucan 1,3-beta-glucosidase, putative (1681 nt)	-32.422	-35.188	0.003566
PITG_21255	Pi conserved hypothetical protein (2166 nt)	-32.2427	-35.5468	0.003581
PITG_01142	Pi protein kinase, putative (1185 nt)	-14.7519	3.66143	0.003583
PITG_10611	Pi conserved hypothetical protein (973 nt)	-32.5035	35.02518	0.003586
PITG_11989	Pi alcohol dehydrogenase, putative (982 nt)	-32.2116	35.60886	0.003592
PITG_21516	Pi memo-like protein (1521 nt)	-13.7732	-3.42654	0.003596
PITG_14620	Pi FKBP-type peptidyl-prolyl cis-trans isomerase, putative (52	-14.8173	4.309485	0.00361
PITG_19818	Pi conserved hypothetical protein (533 nt)	-15.9469	3.973115	0.003636
PITG_04324	Pi conserved hypothetical protein (1751 nt)	-16.69	4.346248	0.003647
PITG_08052	Pi conserved hypothetical protein (438 nt)	-32.6004	-34.8313	0.00365
PITG_11910	Pi serine protease family S08A, putative (1458 nt)	-32.5776	34.87698	0.00365
PITG_21258	Pi conserved hypothetical protein (1986 nt)	-32.5776	34.87698	0.00365
PITG_06862	Pi ATP-binding Cassette (ABC) Superfamily (4122 nt)	-14.1836	-4.53517	0.003662
PITG_07167	Pi conserved hypothetical protein (551 nt)	-32.405	-35.2221	0.003663
PITG_21523	Pi cytochrome P450, putative (1965 nt)	-32.405	-35.2221	0.003663
PITG_11235	Pi conserved hypothetical protein (741 nt)	-17.4148	4.819168	0.00368
PITG_14087	Pi conserved hypothetical protein (2506 nt)	-17.4148	4.819168	0.00368
PITG_15459	Pi GAF domain-containing protein (3303 nt)	-32.5421	34.948	0.003682
PITG_15867	Pi syntaxin-binding protein, putative (2129 nt)	-15.705	3.843718	0.003688
PITG_21923	Pi conserved hypothetical protein (1163 nt)	-32.2673	35.4975	0.003691
PITG_10392	Pi conserved hypothetical protein (632 nt)	-14.333	-4.02123	0.003723
PITG_14594	Pi ubiquitin-conjugating enzyme E2, putative (604 nt)	-10.6262	-3.54466	0.003735
PITG_07273	Pi conserved hypothetical protein (726 nt)	-17.4765	4.683792	0.003742
PITG_09166	Pi conserved hypothetical protein (760 nt)	-32.6103	-34.8114	0.003742
PITG_11647	Pi conserved hypothetical protein (1107 nt)	-17.4765	4.683792	0.003742

PITG_13545	Pi conserved hypothetical protein (1320 nt)	-12.053	-4.05958	0.003752
PITG_07714	Pi ATP-binding Cassette (ABC) superfamily (4094 nt)	-16.4278	3.771527	0.003759
PITG_22432	Pi Zinc (Zn <sup>2+</sup> )-Iron (Fe <sup>2+</sup> ) Permease (ZIP) Family (981 nt)	-16.6752	4.37716	0.003759
PITG_00515	Pi hypothetical protein (1168 nt)	-16.8521	-4.51664	0.003765
PITG_01955	Pi P-type ATPase (P-ATPase) Superfamily (4198 nt)	-32.5107	35.01069	0.003776
PITG_11400	Pi cleavage induced hypothetical protein (1011 nt)	-32.2441	35.54394	0.00379
PITG_03673	Pi conserved hypothetical protein (940 nt)	-14.567	3.261982	0.003818
PITG_22846	Pi elicitor-like protein (375 nt)	-32.4452	35.14172	0.003825
PITG_20849	Pi alcohol dehydrogenase, putative (1090 nt)	-15.0773	3.338638	0.003829
PITG_02855	Pi conserved hypothetical protein (1233 nt)	-32.5754	34.88134	0.003836
PITG_05619	Pi conserved hypothetical protein (1496 nt)	-32.5754	34.88134	0.003836
PITG_10226	Pi Ammonium Transporter (Amt) Family (1557 nt)	-32.5754	34.88134	0.003836
PITG_14720	Pi aldose 1-epimerase, putative (963 nt)	-32.5754	34.88134	0.003836
PITG_01845	Pi conserved hypothetical protein (766 nt)	-13.1797	-3.21602	0.003846
PITG_20037	Pi hypothetical protein (1299 nt)	-13.046	3.294032	0.003853
PITG_12511	Pi conserved hypothetical protein (1963 nt)	-15.197	3.540313	0.003854
PITG_00782	Pi conserved hypothetical protein (1044 nt)	-15.0114	-3.5175	0.003854
PITG_11276	Pi conserved hypothetical protein (507 nt)	-32.5335	-34.9652	0.003874
PITG_21410	Pi elicitor-like protein INF4 (459 nt)	-13.2273	4.047891	0.003887
PITG_13306	Pi secreted RxLR effector peptide, putative (300 nt)	-14.3622	-4.47161	0.003913
PITG_10269	Pi conserved hypothetical protein (749 nt)	-11.323	-3.56111	0.003945
PITG_09473	Pi conserved hypothetical protein (747 nt)	-15.8437	3.889671	0.003949
PITG_15687	Pi conserved hypothetical protein (743 nt)	-13.2424	-3.40344	0.003966
PITG_09849	Pi conserved hypothetical protein (987 nt)	-15.0688	-4.1839	0.003968
PITG_03657	Pi kinesin-like protein (1304 nt)	-15.2195	-3.71309	0.00397
PITG_08046	Pi kinesin-like protein (3040 nt)	-15.7143	3.82512	0.003971
PITG_17333	Pi serine/threonine protein kinase (1905 nt)	-13.9806	-3.32665	0.003971
PITG_17834	Pi phospholipid hydroperoxide glutathione peroxidase, putative (1000 nt)	-16.8527	-4.51618	0.003996
PITG_01316	Pi conserved hypothetical protein (708 nt)	-13.8463	-3.31979	0.004
PITG_10882	Pi conserved hypothetical protein (1014 nt)	-32.6119	-34.8083	0.004031
PITG_07422	Pi conserved hypothetical protein (1236 nt)	-32.3133	-35.4055	0.004039
PITG_17580	Pi protein kinase (333 nt)	-32.2953	35.44153	0.004039
PITG_11248	Pi hypothetical protein (786 nt)	-11.7063	-3.96755	0.004122
PITG_06965	Pi cleavage induced conserved hypothetical protein (4599 nt)	-17.3879	4.88322	0.004135
PITG_02796	Pi myosin-like protein (4929 nt)	-15.0127	-3.51506	0.004157
PITG_10040	Pi conserved hypothetical protein (701 nt)	-32.6508	-34.7304	0.004161
PITG_12883	Pi conserved hypothetical protein (576 nt)	-32.6308	-34.7706	0.004161
PITG_16298	Pi conserved hypothetical protein (2074 nt)	-32.6261	-34.78	0.004161
PITG_02646	Pi conserved hypothetical protein (1623 nt)	-32.5941	34.84385	0.004161
PITG_13794	Pi conserved hypothetical protein (1424 nt)	-32.6024	34.82721	0.004161
PITG_20716	Pi conserved hypothetical protein (1027 nt)	-32.6024	34.82721	0.004161
PITG_04135	Pi glycoside hydrolase, putative (864 nt)	-16.0012	4.678906	0.004171
PITG_05334	Pi conserved hypothetical protein (1455 nt)	-17.4543	4.739162	0.004175
PITG_23282	Pi Crinkler (CRN) family protein, pseudogene (4320 nt)	-13.4004	-3.11484	0.004188
PITG_02671	Pi cAMP-dependent protein kinase regulatory subunit (1775 nt)	-13.4204	3.0974	0.0042
PITG_04687	Pi hypothetical protein (1162 nt)	-15.7245	5.401525	0.004206
PITG_00552	Pi memo-like protein (1522 nt)	-11.4732	-3.25184	0.004216



PITG_17332	Pi conserved hypothetical protein (1138 nt)	-15.6699	-3.77977	0.004226
PITG_13529	Pi secreted RxLR effector peptide, putative (489 nt)	-15.6517	-3.81754	0.004227
PITG_11977	Pi conserved hypothetical protein (2109 nt)	-14.2996	-3.65424	0.00423
PITG_12625	Pi conserved hypothetical protein (2471 nt)	-32.5891	-34.8538	0.004234
PITG_04450	Pi Zinc (Zn <sup>2+</sup> )-Iron (Fe <sup>2+</sup> ) Permease (ZIP) Family (1794 nt)	-32.6311	34.76982	0.004262
PITG_19465	Pi hypothetical protein (492 nt)	-17.5318	4.571194	0.004262
PITG_03307	Pi conserved hypothetical protein (1277 nt)	-16.7478	4.2262	0.004275
PITG_07271	Pi conserved hypothetical protein (4240 nt)	-16.7478	4.2262	0.004275
PITG_10287	Pi adenylate cyclase, putative (4726 nt)	-16.7478	4.2262	0.004275
PITG_20791	Pi ADP-ribosylation factor family (689 nt)	-15.2183	3.652748	0.004276
PITG_21033	Pi conserved hypothetical protein (321 nt)	-32.4951	35.04195	0.004287
PITG_22862	Pi conserved hypothetical protein (762 nt)	-32.4951	35.04195	0.004287
PITG_09831	Pi conserved hypothetical protein (677 nt)	-15.1131	4.430694	0.004288
PITG_15547	Pi Amino Acid-Polyamine-Organocation (APC) Family (960 nt)	-32.3243	35.38343	0.004315
PITG_20066	Pi maltose O-acetyltransferase, putative (543 nt)	-32.3243	35.38343	0.004315
PITG_07698	Pi conserved hypothetical protein (867 nt)	-32.3436	-35.3449	0.004315
PITG_03080	Pi hypothetical protein (999 nt)	-13.23	-3.78103	0.004317
PITG_10911	Pi conserved hypothetical protein (1182 nt)	-16.1423	-3.97598	0.004323
PITG_09403	Pi hypothetical protein (583 nt)	-13.2533	-3.04208	0.004325
PITG_15660	Pi mitochondrial carnitine/acylcarnitine carrier protein, puta	-12.048	-3.44955	0.004358
PITG_00688	Pi cytochrome oxidase assembly protein, putative (1797 nt)	-14.7205	-3.60135	0.004358
PITG_03592	Pi conserved hypothetical protein (3269 nt)	-17.0563	5.092817	0.004359
PITG_07910	Pi 5'-AMP-activated protein kinase catalytic subunit, putative	-16.6887	4.357618	0.004359
PITG_14938	Pi conserved hypothetical protein (474 nt)	-17.0563	5.092817	0.004359
PITG_20600	Pi protein kinase (441 nt)	-16.6887	4.357618	0.004359
PITG_19302	Pi secreted RxLR effector peptide, putative (1524 nt)	-32.2781	35.47596	0.004383
PITG_12480	Pi conserved hypothetical protein (1597 nt)	-14.0024	-3.2003	0.004384
PITG_13135	Pi copper-transporting ATPase, putative (3057 nt)	-32.5541	-34.9238	0.004387
PITG_03488	Pi dynein heavy chain (13140 nt)	-17.1233	4.977137	0.0044
PITG_12252	Pi conserved hypothetical protein (4475 nt)	-16.8831	-4.45501	0.0044
PITG_20199	Pi Crinkler (CRN) family protein, pseudogene (770 nt)	-17.1111	5.00158	0.0044
PITG_10121	Pi conserved hypothetical protein (738 nt)	-32.3284	-35.3753	0.004432
PITG_14084	Pi catechol O-methyltransferase, putative (1111 nt)	-16.4232	4.529013	0.004443
PITG_22126	Pi conserved hypothetical protein (2049 nt)	-32.5757	-34.8807	0.004444
PITG_11891	Pi conserved hypothetical protein (1104 nt)	-13.2539	4.641732	0.004466
PITG_04134	Pi conserved hypothetical protein (1923 nt)	-15.9849	-4.18817	0.004469
PITG_02212	Pi mitogen-activated protein kinase, putative (1318 nt)	-32.6194	34.79332	0.00447
PITG_04112	Pi transmembrane protein, putative (4285 nt)	-17.5206	4.595673	0.00447
PITG_20080	Pi carbohydrate-binding protein, putative (1664 nt)	-17.5236	4.589688	0.00447
PITG_02011	Pi calcineurin subunit B, putative (1489 nt)	-14.1005	3.124162	0.004476
PITG_11755	Pi putative GPI-anchored serine-threonine rich hypothetical	-11.8461	-3.05458	0.004496
PITG_10049	Pi protein kinase (2110 nt)	-16.8108	-4.60473	0.004515
PITG_09346	Pi conserved hypothetical protein (1107 nt)	-13.3248	-3.21241	0.004518
PITG_02108	Pi dynein light chain-like protein (485 nt)	-16.0962	4.782246	0.004523
PITG_14551	Pi hypothetical protein (629 nt)	-15.7897	3.726965	0.004524
PITG_02401	Pi phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase, p	-14.7572	-3.5274	0.004566
PITG_06288	Pi protein kinase (2737 nt)	-32.6464	-34.7394	0.004578

PITG_18898	Pi vacuolar protein sorting-associated protein, putative (611 nt)	-32.6464	-34.7394	0.004578
PITG_04047	Pi hypothetical protein (740 nt)	-15.856	-4.44479	0.004584
PITG_07951	Pi conserved hypothetical protein (631 nt)	-15.3999	4.179343	0.004613
PITG_07136	Pi serine protease family S33, putative (984 nt)	-32.3546	35.32289	0.004629
PITG_14999	Pi hypothetical protein (1256 nt)	-32.3546	35.32289	0.004629
PITG_08110	Pi conserved hypothetical protein (1126 nt)	-16.7483	-4.73433	0.004633
PITG_04536	Pi conserved hypothetical protein (1351 nt)	-16.2164	3.889212	0.004645
PITG_09009	Pi conserved hypothetical protein (1516 nt)	-16.7313	4.263575	0.004659
PITG_02737	Pi conserved hypothetical protein (1280 nt)	-13.9121	-3.42145	0.004689
PITG_00840	Pi hypothetical protein (492 nt)	-15.1487	-4.5202	0.004733
PITG_00478	Pi conserved hypothetical protein (3441 nt)	-17.0604	5.077453	0.004753
PITG_11196	Pi conserved hypothetical protein (777 nt)	-16.7163	4.300903	0.004755
PITG_12824	Pi glutamate carboxypeptidase, putative (2310 nt)	-16.4833	-5.27883	0.004775
PITG_20374	Pi conserved hypothetical protein (2933 nt)	-14.1793	-3.32501	0.004791
PITG_04706	Pi potential pseudogene (372 nt)	-17.53	4.579679	0.004798
PITG_11969	Pi ATP-binding Cassette (ABC) Superfamily (4122 nt)	-15.1198	3.253618	0.004853
PITG_03562	Pi conserved hypothetical protein (3350 nt)	-14.9133	-3.78869	0.004853
PITG_17122	Pi Amino Acid/Auxin Permease (AAP) Family (1471 nt)	-16.423	4.526624	0.004881
PITG_13511	Pi phosphatidylinositol-4-phosphate-5-kinase (PIPK-D6/GPCF)	-16.1589	4.676401	0.004892
PITG_10862	Pi cytochrome c oxidase assembly protein COX11, mitochondri	-13.1206	-3.39114	0.004907
PITG_08492	Pi cytochrome b5-like protein (914 nt)	-32.6282	34.77572	0.004912
PITG_11490	Pi conserved hypothetical protein (1911 nt)	-32.6282	34.77572	0.004912
PITG_07810	Pi hypothetical protein (798 nt)	-13.416	3.113161	0.004949
PITG_10127	Pi ras family GTPase, putative (1150 nt)	-15.9469	4.11336	0.004995
PITG_00839	Pi conserved hypothetical protein (797 nt)	-10.9243	-3.45387	0.005007
PITG_20858	Pi hypothetical protein (1227 nt)	-32.5977	-34.8367	0.005009
PITG_17559	Pi myb-like DNA-binding protein, putative (627 nt)	-14.9851	-3.71486	0.005021
PITG_07007	Pi hypothetical protein (1026 nt)	-15.8041	3.973825	0.005022
PITG_05204	Pi ATP-binding Cassette (ABC) superfamily (1497 nt)	-17.5579	4.51817	0.005028
PITG_06734	Pi conserved hypothetical protein (2133 nt)	-32.6486	34.73488	0.005028
PITG_20040	Pi conserved hypothetical protein (1107 nt)	-32.7033	-34.6254	0.005028
PITG_02462	Pi actin-like protein (1227 nt)	-32.6399	34.75237	0.005028
PITG_15706	Pi conserved hypothetical protein (558 nt)	-14.1873	-4.39005	0.005043
PITG_07248	Pi protein kinase (2918 nt)	-16.0851	3.680108	0.005052
PITG_08352	Pi conserved hypothetical protein (370 nt)	-13.3139	3.034132	0.005053
PITG_13345	Pi conserved hypothetical protein (1800 nt)	-16.4567	-5.1755	0.005071
PITG_12757	Pi alpha-ketoglutarate-dependent sulfonate dioxygenase, pu	-32.5757	-34.8807	0.005129
PITG_15058	Pi transmembrane protein, putative (4373 nt)	-32.5757	-34.8807	0.005129
PITG_01899	Pi conserved hypothetical protein (803 nt)	-14.797	3.368981	0.005142
PITG_12098	Pi Crinkler (CRN) family protein, pseudogene (1258 nt)	-11.5123	-3.0305	0.005191
PITG_10636	Pi conserved hypothetical protein (1056 nt)	-13.9724	4.07274	0.005193
PITG_11275	Pi conserved hypothetical protein (573 nt)	-16.084	3.684126	0.005209
PITG_02409	Pi Folate-Biopterin Transporter (FBT) Family (1707 nt)	-14.6172	3.836196	0.005216
PITG_11859	Pi hypothetical protein (989 nt)	-14.5214	3.621324	0.005224
PITG_10390	Pi conserved hypothetical protein (527 nt)	-14.599	-4.51498	0.005232
PITG_09548	Pi syntaxin-like protein (1222 nt)	-13.4802	-3.24471	0.005235
PITG_00614	Pi protein kinase (570 nt)	-32.6664	34.69939	0.005261

PITG_17108	Pi protein phosphatase 1 regulatory subunit 7, putative (253	-17.5673	4.501254	0.005261
PITG_21065	Pi conserved hypothetical protein (2122 nt)	-32.6664	34.69939	0.005261
PITG_21238	Pi secreted RxLR effector peptide, putative (384 nt)	-17.5805	4.474782	0.005261
PITG_01775	Pi protein phosphatase 2C, putative (1181 nt)	-14.4586	-3.22944	0.005288
PITG_12296	Pi conserved hypothetical protein (1833 nt)	-14.9642	-3.75928	0.00531
PITG_17163	Pi conserved hypothetical protein (1082 nt)	-16.177	-3.9072	0.005349
PITG_14123	Pi calcineurin-like phosphoesterase, putative (1560 nt)	-15.9523	-4.2527	0.005358
PITG_02616	Pi caltractin (763 nt)	-13.3681	3.321759	0.005364
PITG_22717	Pi elicitin-like protein (420 nt)	-32.6851	-34.6619	0.005381
PITG_16321	Pi conserved hypothetical protein (660 nt)	-32.6045	34.8231	0.005388
PITG_06976	Pi conserved hypothetical protein (1373 nt)	-13.436	-3.43784	0.005402
PITG_05655	Pi conserved hypothetical protein (5861 nt)	-15.8662	3.847186	0.005407
PITG_10107	Pi Multidrug/Oligosaccharidyl-lipid/Polysaccharide (MOP) Fli	-16.0398	4.238923	0.005419
PITG_18336	Pi glycoside hydrolase, putative (1398 nt)	-16.768	4.191679	0.005441
PITG_18644	Pi conserved hypothetical protein (3472 nt)	-14.4024	3.204855	0.005442
PITG_03639	Pi cellulose binding elicitor lectin (CBEL), putative (1030 nt)	-11.015	-3.27835	0.005446
PITG_13603	Pi conserved hypothetical protein (683 nt)	-32.5192	34.99365	0.005454
PITG_09675	Pi phosphatidate cytidyltransferase, putative (1488 nt)	-16.8366	-4.55442	0.005473
PITG_00795	Pi conserved hypothetical protein (983 nt)	-13.8263	-3.52742	0.005518
PITG_03431	Pi conserved hypothetical protein (1826 nt)	-16.7482	-4.73581	0.005533
PITG_16204	Pi protein kinase (4683 nt)	-32.4256	-35.1809	0.005542
PITG_20302	Pi conserved hypothetical protein (1115 nt)	-32.4256	-35.1809	0.005542
PITG_13807	Pi hypothetical protein (645 nt)	-9.77255	3.047743	0.005566
PITG_19991	Pi hypothetical protein (720 nt)	-16.9332	-4.35432	0.005572
PITG_16049	Pi conserved hypothetical protein (882 nt)	-16.223	-3.81218	0.00558
PITG_10373	Pi conserved hypothetical protein (930 nt)	-9.50453	-3.80435	0.005593
PITG_07728	Pi conserved hypothetical protein (3552 nt)	-15.1121	3.470171	0.005661
PITG_03811	Pi protein kinase (892 nt)	-13.4711	-3.26304	0.005661
PITG_11471	Pi Amino Acid-Polyamine-Organocation (APC) Family (1456 r	-32.4086	-35.215	0.005682
PITG_11020	Pi conserved hypothetical protein (1377 nt)	-16.9323	-4.35655	0.005724
PITG_20434	Pi hypothetical protein (587 nt)	-16.9496	-4.32186	0.005724
PITG_00094	Pi conserved hypothetical protein (4402 nt)	-16.7751	4.180347	0.005744
PITG_02148	Pi conserved hypothetical protein (938 nt)	-32.6702	34.69174	0.005754
PITG_13825	Pi ras family GTPase, putative (618 nt)	-32.6756	34.68097	0.005754
PITG_11249	Pi heat shock 70 kDa protein (2183 nt)	-11.7676	-3.25006	0.005798
PITG_00362	Pi conserved hypothetical protein (1377 nt)	-17.1186	4.963464	0.005817
PITG_06202	Pi conserved hypothetical protein (818 nt)	-16.2081	-3.84485	0.005874
PITG_20749	Pi sporangia induced conserved hypothetical protein (981 nt	-17.145	4.91996	0.005901
PITG_21888	Pi hypothetical protein (942 nt)	-15.9718	4.057974	0.005946
PITG_17508	Pi glucosylceramidase, putative (1500 nt)	-16.5294	-5.18762	0.005954
PITG_21037	Pi conserved hypothetical protein (401 nt)	-16.5294	-5.18762	0.005954
PITG_06578	Pi protein kinase (1389 nt)	-14.5158	3.181496	0.005956
PITG_08689	Pi hypothetical protein (982 nt)	-14.623	-3.3734	0.005957
PITG_10131	Pi conserved hypothetical protein (563 nt)	-32.3908	35.25049	0.005971
PITG_03149	Pi conserved hypothetical protein (910 nt)	-13.9129	3.066843	0.005978
PITG_13422	Pi conserved hypothetical protein (2145 nt)	-14.9898	-3.56183	0.006001
PITG_15849	Pi hypothetical protein (264 nt)	-32.4193	35.19355	0.006031

PITG_16093	Pi conserved hypothetical protein (801 nt)	-13.8854	-3.10103	0.006036
PITG_20350	Pi D-amino acid dehydrogenase small subunit, putative (199:	-15.78	-3.55642	0.006048
PITG_00945	Pi conserved hypothetical protein (1286 nt)	-16.1954	-3.87089	0.00605
PITG_17230	Pi conserved hypothetical protein (1256 nt)	-11.5928	3.049875	0.006064
PITG_18418	Pi conserved hypothetical protein (1581 nt)	-16.7037	4.339361	0.006102
PITG_03958	Pi hypothetical protein (337 nt)	-12.6034	2.997436	0.006109
PITG_00556	Pi conserved hypothetical protein (1274 nt)	-16.062	-4.03433	0.006124
PITG_06655	Pi hypothetical protein (327 nt)	-32.7073	34.61742	0.006126
PITG_07016	Pi Voltage-gated Ion Channel (VIC) Superfamily (2668 nt)	-32.7073	34.61742	0.006126
PITG_07537	Pi conserved hypothetical protein (1333 nt)	-17.6078	4.41831	0.006126
PITG_12267	Pi conserved hypothetical protein (2446 nt)	-17.6078	4.41831	0.006126
PITG_12572	Pi conserved hypothetical protein (2855 nt)	-32.7073	34.61742	0.006126
PITG_15758	Pi conserved hypothetical protein (3908 nt)	-32.7073	34.61742	0.006126
PITG_19182	Pi DNA cross-link repair protein, putative (2025 nt)	-32.7312	-34.5696	0.006126
PITG_04310	Pi hypothetical protein (484 nt)	-32.7066	-34.6189	0.006126
PITG_14566	Pi lariat debranching enzyme B (1542 nt)	-32.7066	-34.6189	0.006126
PITG_09468	Pi conserved hypothetical protein (1978 nt)	-32.6624	-34.7073	0.006148
PITG_03862	Pi conserved hypothetical protein (360 nt)	-15.2818	-3.74816	0.006172
PITG_02998	Pi S-adenosyl-L-methionine-dependent methyltransferase, p	-32.5986	-34.835	0.006174
PITG_21767	Pi similar to sea slug pheromone (795 nt)	-32.4433	-35.1455	0.00618
PITG_23049	Pi cyst germination specific acidic repeat protein precursor, p	-32.4433	-35.1455	0.00618
PITG_03941	Pi conserved hypothetical protein (2328 nt)	-17.6174	4.400049	0.006259
PITG_17162	Pi conserved hypothetical protein (3300 nt)	-17.6174	4.400049	0.006259
PITG_20362	Pi conserved hypothetical protein (1466 nt)	-14.7091	-4.72879	0.006283
PITG_07129	Pi conserved hypothetical protein (2982 nt)	-17.4015	4.874104	0.006294
PITG_05747	Pi conserved hypothetical protein (779 nt)	-15.5474	3.43819	0.006304
PITG_19993	Pi GMP synthase [glutamine-hydrolyzing], putative (1587 nt)	-14.7141	3.168437	0.006323
PITG_10526	Pi conserved hypothetical protein (3273 nt)	-32.4327	35.16662	0.006331
PITG_09910	Pi arabinogalactan endo-1,4-beta-galactosidase (1077 nt)	-15.4786	-3.97764	0.006375
PITG_11988	Pi Mitochondrial Carrier (MC) Family (857 nt)	-32.7168	34.5986	0.006394
PITG_12942	Pi conserved hypothetical protein (1295 nt)	-32.7168	34.5986	0.006394
PITG_13908	Pi conserved hypothetical protein (775 nt)	-32.7168	34.5986	0.006394
PITG_17370	Pi conserved hypothetical protein (1896 nt)	-16.1692	-3.9279	0.006399
PITG_17437	Pi conserved hypothetical protein (1821 nt)	-16.9864	-4.2479	0.0064
PITG_04456	Pi hypothetical protein (1641 nt)	-17.5882	4.468245	0.006423
PITG_21384	Pi hypothetical protein (1601 nt)	-17.5882	4.468245	0.006423
PITG_14601	Pi hypothetical protein (369 nt)	-9.10553	3.240441	0.006469
PITG_14568	Pi conserved hypothetical protein (1108 nt)	-13.6572	2.969087	0.00647
PITG_02678	Pi conserved hypothetical protein (1105 nt)	-15.9349	3.707927	0.006488
PITG_04974	Pi conserved hypothetical protein (1077 nt)	-16.0787	-4.00101	0.006488
PITG_07411	Pi conserved hypothetical protein (1236 nt)	-32.7246	-34.583	0.006531
PITG_09061	Pi conserved hypothetical protein (771 nt)	-32.6795	34.67302	0.006531
PITG_01170	Pi potassium/sodium hyperpolarization-activated cyclic nucle	-16.8069	4.116709	0.006533
PITG_06302	Pi M96 mating-specific protein family (849 nt)	-16.2366	-3.78621	0.006545
PITG_10984	Pi choline transporter-like protein (2525 nt)	-32.6373	34.75756	0.006564
PITG_12522	Pi conserved hypothetical protein (566 nt)	-32.6373	34.75756	0.006564
PITG_16710	Pi conserved hypothetical protein (2562 nt)	-32.6373	34.75756	0.006564

PITG_19815	Pi conserved hypothetical protein (3665 nt)	-32.6373	34.75756	0.006564
PITG_07239	Pi tartrate-resistant acid phosphatase type 5, putative (1204	-16.9882	-4.24483	0.006568
PITG_16092	Pi Multidrug/Oligosaccharidyl-lipid/Polysaccharide (MOP) Fli	-16.8181	4.08715	0.006568
PITG_03008	Pi conserved hypothetical protein (1887 nt)	-16.6265	-4.84341	0.006581
PITG_13260	Pi tenascin-like protein (3393 nt)	-17.5523	4.549226	0.006598
PITG_00351	Pi conserved hypothetical protein (2181 nt)	-32.4539	35.12424	0.0066
PITG_06167	Pi conserved hypothetical protein (2883 nt)	-32.4539	35.12424	0.0066
PITG_14402	Pi conserved hypothetical protein (819 nt)	-32.4539	35.12424	0.0066
PITG_15337	Pi secreted RxLR effector peptide, putative (501 nt)	-32.4539	35.12424	0.0066
PITG_07682	Pi conserved hypothetical protein (3584 nt)	-16.6851	4.386885	0.006622
PITG_03923	Pi conserved hypothetical protein (491 nt)	-15.1019	-4.8349	0.006648
PITG_19645	Pi conserved hypothetical protein (1338 nt)	-14.6805	3.58548	0.006657
PITG_01677	Pi conserved hypothetical protein (1394 nt)	-32.694	-34.6441	0.006707
PITG_08494	Pi conserved hypothetical protein (1132 nt)	-16.1252	3.605521	0.006735
PITG_20295	Pi conserved hypothetical protein (1230 nt)	-16.1252	3.605521	0.006735
PITG_01076	Pi ATPase AFG2 protein (2272 nt)	-16.9703	-4.28098	0.006739
PITG_05388	Pi conserved hypothetical protein (1065 nt)	-32.4798	-35.0725	0.006758
PITG_01407	Pi D-isomer specific 2-hydroxyacid dehydrogenase, putative	-14.092	-3.69796	0.006768
PITG_18379	Pi conserved hypothetical protein (387 nt)	-16.5455	4.289568	0.006819
PITG_11552	Pi conserved hypothetical protein (532 nt)	-13.7831	-3.32652	0.00682
PITG_17498	Pi conserved hypothetical protein (721 nt)	-15.4259	-3.98066	0.006863
PITG_15745	Pi adhesin-like protein (2106 nt)	-16.7987	5.488987	0.006883
PITG_11461	Pi HECT E3 ubiquitin ligase, putative (3357 nt)	-15.5919	-3.84626	0.006909
PITG_04129	Pi cobalamin synthesis protein, putative (1680 nt)	-32.4772	35.07777	0.006918
PITG_22933	Pi secreted RxLR effector peptide, putative (483 nt)	-14.8907	-3.25938	0.006925
PITG_16322	Pi conserved hypothetical protein (2059 nt)	-15.0719	-3.39718	0.007033
PITG_03515	Pi conserved hypothetical protein (706 nt)	-32.6447	-34.7428	0.007048
PITG_02979	Pi conserved hypothetical protein (438 nt)	-16.2744	-3.71009	0.00705
PITG_10443	Pi peroxisomal acyl-coenzyme A oxidase, putative (2002 nt)	-16.9848	-4.25278	0.007092
PITG_13968	Pi dynein heavy chain (13181 nt)	-15.8239	3.607728	0.007131
PITG_13003	Pi glucose transporter, putative (1559 nt)	-13.3486	3.803582	0.007164
PITG_07493	Pi Crinkler (CRN) family protein (561 nt)	-13.7837	-3.44564	0.007164
PITG_04435	Pi Crinkler (CRN) family protein (2520 nt)	-15.2942	-3.72537	0.007173
PITG_09495	Pi conserved hypothetical protein (594 nt)	-32.6214	-34.7894	0.007204
PITG_01492	Pi conserved hypothetical protein (429 nt)	-14.1696	3.364807	0.007213
PITG_14945	Pi conserved hypothetical protein (806 nt)	-15.5708	3.39304	0.007258
PITG_00076	Pi hypothetical protein (680 nt)	-32.4904	35.05141	0.007266
PITG_17954	Pi conserved hypothetical protein (2384 nt)	-32.4904	35.05141	0.007266
PITG_11133	Pi conserved hypothetical protein (1295 nt)	-15.1249	-3.3594	0.007271
PITG_02619	Pi hypothetical protein (309 nt)	-14.7123	3.025484	0.007328
PITG_01819	Pi conserved hypothetical protein (1123 nt)	-13.9847	-3.12315	0.007344
PITG_20675	Pi conserved hypothetical protein (1808 nt)	-15.3262	-3.49943	0.007355
PITG_02147	Pi Voltage-gated Ion Channel (VIC) Superfamily (2985 nt)	-16.8519	4.01809	0.007383
PITG_07831	Pi conserved hypothetical protein (766 nt)	-16.845	4.031857	0.007383
PITG_12301	Pi conserved hypothetical protein (795 nt)	-17.6389	4.364835	0.007406
PITG_05858	Pi conserved hypothetical protein (1331 nt)	-16.2884	-3.68099	0.007416
PITG_00841	Pi conserved hypothetical protein (675 nt)	-13.6091	-4.38936	0.007435

PITG_22462	Pi conserved hypothetical protein (337 nt)	-12.284	2.829801	0.007438
PITG_01196	Pi hypothetical protein (981 nt)	-15.978	4.929141	0.007442
PITG_21918	Pi amino acid/auxin permease-like protein (561 nt)	-16.9176	-4.39211	0.007468
PITG_08202	Pi conserved hypothetical protein (896 nt)	-17.6518	4.330338	0.007533
PITG_08882	Pi choline transporter-like protein (2436 nt)	-32.7611	34.50983	0.007533
PITG_11818	Pi conserved hypothetical protein (1541 nt)	-32.7513	34.52945	0.007533
PITG_02680	Pi conserved hypothetical protein (3812 nt)	-16.1375	3.588201	0.007537
PITG_08954	Pi conserved hypothetical protein (2823 nt)	-17.2343	4.755158	0.007569
PITG_22827	Pi Crinkler (CRN) family protein, pseudogene (304 nt)	-15.9844	-4.07913	0.007581
PITG_06392	Pi hypothetical protein (1540 nt)	-16.182	-3.90397	0.007586
PITG_17863	Pi MtN3-like protein (810 nt)	-16.2888	-3.6806	0.007624
PITG_08817	Pi conserved hypothetical protein (1735 nt)	-16.9668	-4.2899	0.007649
PITG_03199	Pi ubiquitin-conjugating enzyme E2, putative (492 nt)	-12.7363	2.866044	0.007654
PITG_17877	Pi hypothetical protein (516 nt)	-32.771	34.49002	0.007686
PITG_20739	Pi hypothetical protein (558 nt)	-32.771	34.49002	0.007686
PITG_05099	Pi conserved hypothetical protein (900 nt)	-32.7565	-34.5192	0.007686
PITG_08958	Pi protein kinase (537 nt)	-17.6422	4.350404	0.007686
PITG_13497	Pi elicitor-like transglutaminase, putative (2006 nt)	-15.2231	-3.70434	0.007703
PITG_13655	Pi glucanase inhibitor protein, putative (774 nt)	-16.1895	4.582831	0.007706
PITG_03739	Pi conserved hypothetical protein (5650 nt)	-32.6851	34.66194	0.007718
PITG_09470	Pi arabinan endo-1,5-alpha-L-arabinosidase A precursor (110	-32.6851	34.66194	0.007718
PITG_13660	Pi conserved hypothetical protein (2658 nt)	-11.6206	-3.32298	0.00772
PITG_06425	Pi conserved hypothetical protein (547 nt)	-13.96	3.019595	0.007738
PITG_04108	Pi conserved hypothetical protein (1432 nt)	-14.1605	-3.00795	0.007741
PITG_05733	Pi glutathione gamma-glutamylcysteinyltransferase, putative	-15.8093	3.386669	0.007761
PITG_16320	Pi conserved hypothetical protein (759 nt)	-15.9441	3.690562	0.007761
PITG_10124	Pi Drug/Metabolite Transporter (DMT) Superfamily (1202 nt)	-16.0646	-4.02847	0.007792
PITG_01434	Pi conserved hypothetical protein (2721 nt)	-16.1856	4.30341	0.007793
PITG_04650	Pi conserved hypothetical protein (856 nt)	-15.2986	3.338009	0.007809
PITG_15620	Pi Voltage-gated Ion Channel (VIC) Superfamily (3285 nt)	-16.2746	4.101721	0.00782
PITG_04910	Pi serine/threonine protein kinase (2511 nt)	-15.3585	-3.35924	0.00783
PITG_00790	Pi conserved hypothetical protein (2195 nt)	-16.1689	3.514439	0.007836
PITG_05862	Pi mitogen-activated protein kinase, putative (3958 nt)	-16.1689	3.514439	0.007836
PITG_00156	Pi beta-tubulin (1747 nt)	-12.6675	2.785777	0.00784
PITG_16682	Pi conserved hypothetical protein (798 nt)	-32.7823	-34.4675	0.007841
PITG_18449	Pi conserved hypothetical protein (1009 nt)	-17.2165	4.774696	0.007842
PITG_15669	Pi conserved hypothetical protein (1362 nt)	-32.7202	-34.5916	0.007878
PITG_18312	Pi conserved hypothetical protein (1141 nt)	-12.7063	-3.55982	0.007895
PITG_18296	Pi coproporphyrinogen III oxidase, mitochondrial precursor (	-15.2103	-3.90293	0.007901
PITG_05456	Pi DNA mismatch repair protein mutS, putative (1891 nt)	-32.6938	-34.6445	0.007951
PITG_13304	Pi conserved hypothetical protein (810 nt)	-17.2402	4.738795	0.007952
PITG_19654	Pi conserved hypothetical protein (451 nt)	-15.844	-3.42917	0.007991
PITG_18066	Pi conserved hypothetical protein (1681 nt)	-15.9603	3.657501	0.00802
PITG_00024	Pi conserved hypothetical protein (1959 nt)	-16.1748	3.504458	0.008053
PITG_02441	Pi hypothetical protein (2940 nt)	-16.1748	3.504458	0.008053
PITG_06629	Pi conserved hypothetical protein (1112 nt)	-16.1748	3.504458	0.008053
PITG_12534	Pi 4-coumarate-CoA ligase, putative (2139 nt)	-13.4253	-2.86233	0.008056

PITG_11749	Pi conserved hypothetical protein (1044 nt)	-16.3398	3.642379	0.008116
PITG_09296	Pi sterol 3-beta-glucosyltransferase, putative (6765 nt)	-14.9981	-3.54565	0.008154
PITG_15319	Pi Voltage-gated Ion Channel (VIC) Superfamily (4882 nt)	-17.6152	4.4174	0.008206
PITG_07336	Pi hypothetical protein (2464 nt)	-16.2596	4.140106	0.008243
PITG_09891	Pi conserved hypothetical protein (1419 nt)	-14.8758	-3.22756	0.008256
PITG_09483	Pi conserved hypothetical protein (1458 nt)	-16.2897	-3.6805	0.008274
PITG_02713	Pi brefeldin A-inhibited guanine nucleotide-exchange proteir	-32.7264	34.57934	0.008322
PITG_17037	Pi calcineurin-like phosphoesterase (1581 nt)	-32.7787	-34.4748	0.008322
PITG_21171	Pi conserved hypothetical protein (596 nt)	-15.692	-3.55766	0.008338
PITG_08322	Pi conserved hypothetical protein (552 nt)	-13.1245	-5.25769	0.008354
PITG_10927	Pi conserved hypothetical protein (727 nt)	-15.0062	-4.32772	0.008448
PITG_18534	Pi trans-1,2-dihydrobenzene-1,2-diol dehydrogenase, putati	-13.5964	2.849582	0.008454
PITG_03076	Pi ATP-dependent helicase, RECQ family protein (2383 nt)	-32.7498	-34.5326	0.008488
PITG_15884	Pi guanylate-binding protein, putative (2455 nt)	-32.7498	-34.5326	0.008488
PITG_03804	Pi myosin-like protein (4796 nt)	-15.7388	-3.55006	0.008501
PITG_03159	Pi conserved hypothetical protein (555 nt)	-16.3168	-3.62472	0.008504
PITG_12821	Pi conserved hypothetical protein (2837 nt)	-17.0437	-4.13335	0.008556
PITG_07426	Pi conserved hypothetical protein (1196 nt)	-17.0449	-4.13091	0.008556
PITG_22527	Pi conserved hypothetical protein (446 nt)	-17.0449	-4.13091	0.008556
PITG_16439	Pi conserved hypothetical protein (1453 nt)	-14.6769	-3.32618	0.008558
PITG_15956	Pi epoxide hydrolase, putative (1137 nt)	-32.584	-34.8642	0.008601
PITG_14358	Pi trans-1,2-dihydrobenzene-1,2-diol dehydrogenase, putati	-15.1286	3.236015	0.008627
PITG_07741	Pi secreted RxLR effector peptide, putative (348 nt)	-32.6408	34.75053	0.00864
PITG_15662	Pi conserved hypothetical protein (1467 nt)	-15.3117	3.173066	0.008692
PITG_16021	Pi conserved hypothetical protein (1775 nt)	-12.0968	-2.86515	0.008698
PITG_00984	Pi serine hydrolase (FSH1), putative (889 nt)	-13.0717	-3.35736	0.008743
PITG_10533	Pi conserved hypothetical protein (1218 nt)	-17.0239	-4.17336	0.008763
PITG_05731	Pi origin recognition complex subunit, putative (1392 nt)	-17.026	-4.16917	0.008763
PITG_12450	Pi hypothetical protein (887 nt)	-16.5246	4.319989	0.008778
PITG_14188	Pi kinesin-like protein KIF6 (2729 nt)	-16.5825	4.214672	0.008793
PITG_16120	Pi conserved hypothetical protein (756 nt)	-14.9152	-3.21089	0.00887
PITG_14415	Pi conserved hypothetical protein (3134 nt)	-16.9034	-4.42326	0.008896
PITG_15642	Pi conserved hypothetical protein (1448 nt)	-14.9883	-3.06295	0.008924
PITG_07031	Pi conserved hypothetical protein (2213 nt)	-15.3155	3.166485	0.008961
PITG_14947	Pi conserved hypothetical protein (835 nt)	-15.3083	3.180871	0.008961
PITG_02323	Pi hypothetical protein (603 nt)	-17.0474	-4.12669	0.008973
PITG_07251	Pi protein kinase (2493 nt)	-32.5693	34.89361	0.008983
PITG_08938	Pi hypothetical protein (605 nt)	-32.5693	34.89361	0.008983
PITG_09715	Pi conserved hypothetical protein (562 nt)	-32.5693	34.89361	0.008983
PITG_02570	Pi conserved hypothetical protein (578 nt)	-32.6019	-34.8283	0.008983
PITG_13390	Pi conserved hypothetical protein (1345 nt)	-15.818	3.640352	0.009056
PITG_10308	Pi conserved hypothetical protein (2740 nt)	-15.0855	-3.44243	0.009072
PITG_13381	Pi conserved hypothetical protein (1234 nt)	-12.2201	-2.94755	0.009116
PITG_14281	Pi sporangia induced conserved hypothetical protein (1368 r	-16.3682	3.585542	0.009152
PITG_12524	Pi elongation factor 3, putative (3478 nt)	-16.3565	3.609006	0.009152
PITG_15865	Pi conserved hypothetical protein (1048 nt)	-13.6067	-3.23475	0.00916
PITG_02499	Pi conserved hypothetical protein (1724 nt)	-16.1732	-3.81194	0.009167

PITG_01328	Pi conserved hypothetical protein (1343 nt)	-32.5801	-34.8719	0.009177
PITG_17301	Pi conserved hypothetical protein (380 nt)	-17.0222	-4.17746	0.009187
PITG_06778	Pi clusterin-associated protein 1 (1386 nt)	-15.8605	3.540373	0.00921
PITG_19402	Pi conserved hypothetical protein (1551 nt)	-16.056	-4.04525	0.009248
PITG_00706	Pi isoamyl acetate-hydrolyzing esterase 1, putative (824 nt)	-13.3716	2.768854	0.00928
PITG_14056	Pi conserved hypothetical protein (1861 nt)	-32.7475	-34.537	0.009357
PITG_02314	Pi conserved hypothetical protein (1137 nt)	-32.8195	34.39318	0.009357
PITG_02622	Pi conserved hypothetical protein (2367 nt)	-32.8195	34.39318	0.009357
PITG_03691	Pi conserved hypothetical protein (1602 nt)	-32.8195	34.39318	0.009357
PITG_19642	Pi conserved hypothetical protein (1156 nt)	-17.7304	4.173109	0.009357
PITG_21876	Pi conserved hypothetical protein (991 nt)	-32.8195	34.39318	0.009357
PITG_23058	Pi conserved hypothetical protein (2172 nt)	-32.8195	34.39318	0.009357
PITG_03444	Pi dynein heavy chain (13863 nt)	-17.7199	4.194063	0.009357
PITG_07049	Pi conserved hypothetical protein (1561 nt)	-32.5752	34.88167	0.009374
PITG_10835	Pi secreted RxLR effector peptide, putative (726 nt)	-32.5752	34.88167	0.009374
PITG_16044	Pi CRN domain-containing protein-containing protein (1076 nt)	-17.0281	-4.16615	0.009405
PITG_09708	Pi conserved hypothetical protein (886 nt)	-16.8744	3.978851	0.009405
PITG_06570	Pi long-chain-fatty-acid-CoA ligase, putative (2636 nt)	-15.4051	-3.49829	0.00941
PITG_10815	Pi conserved hypothetical protein (1393 nt)	-14.7834	-3.41105	0.009424
PITG_12594	Pi TRAF3-interacting protein, putative (2339 nt)	-14.813	3.033598	0.00947
PITG_09690	Pi hypothetical protein (1701 nt)	-16.1286	-3.90073	0.009503
PITG_08015	Pi Dynein 1b Light Intermediate Chain (1212 nt)	-16.2612	4.449047	0.009509
PITG_10667	Pi conserved hypothetical protein (2577 nt)	-32.8568	-34.3186	0.009534
PITG_14459	Pi conserved hypothetical protein (849 nt)	-32.809	34.41407	0.009534
PITG_18659	Pi conserved hypothetical protein (408 nt)	-15.1598	3.094208	0.009659
PITG_02094	Pi dnaJ heat shock protein (994 nt)	-15.9592	3.389123	0.009688
PITG_19093	Pi conserved hypothetical protein (1419 nt)	-17.7415	4.152784	0.009713
PITG_22927	Pi hypothetical protein (834 nt)	-17.7415	4.152784	0.009713
PITG_01963	Pi conserved hypothetical protein (2094 nt)	-16.9357	-4.35824	0.009734
PITG_10556	Pi conserved hypothetical protein (1362 nt)	-16.9357	-4.35824	0.009734
PITG_15672	Pi conserved hypothetical protein (1341 nt)	-16.3315	-3.59579	0.009759
PITG_06923	Pi conserved hypothetical protein (1964 nt)	-15.5325	3.075706	0.009768
PITG_05922	Pi dynein heavy chain (13827 nt)	-15.4468	3.112322	0.009779
PITG_18984	Pi conserved hypothetical protein (5340 nt)	-15.6205	3.515055	0.009779
PITG_19142	Pi alkylated DNA repair protein alkB-like protein (1118 nt)	-15.7417	-3.54519	0.009837
PITG_12939	Pi conserved hypothetical protein (3961 nt)	-16.5235	-5.03415	0.009846
PITG_14119	Pi conserved hypothetical protein (647 nt)	-17.5226	4.62876	0.009895
PITG_01708	Pi hypothetical protein (874 nt)	-17.6997	4.237396	0.009895
PITG_08793	Pi conserved hypothetical protein (3312 nt)	-32.7985	34.43505	0.009895
PITG_13755	Pi phosphatidylinositol kinase (PIK-E3) (1488 nt)	-32.7985	34.43505	0.009895
PITG_10701	Pi carbohydrate-binding protein, putative (1605 nt)	-15.4638	3.224338	0.00993
PITG_13307	Pi conserved hypothetical protein (737 nt)	-12.9464	-2.99733	0.009937
PITG_04867	Pi conserved hypothetical protein (4644 nt)	-16.751	4.266916	0.009948
PITG_12446	Pi conserved hypothetical protein (1687 nt)	-17.0643	-4.09224	0.009965
PITG_03282	Pi conserved hypothetical protein (3024 nt)	-15.5507	3.037278	0.010013
PITG_09208	Pi aquaporin, putative (745 nt)	-32.7004	34.63138	0.010019
PITG_00375	Pi haustorium-specific membrane protein, putative (3072 nt)	-16.2155	4.250435	0.01002



PITG_02456	Pi conserved hypothetical protein (3667 nt)	-32.8408	-34.3506	0.01008
PITG_04848	Pi conserved hypothetical protein (649 nt)	-32.7812	34.46975	0.01008
PITG_14948	Pi conserved hypothetical protein (535 nt)	-32.8408	-34.3506	0.01008
PITG_22957	Pi conserved hypothetical protein (1545 nt)	-32.7812	34.46975	0.01008
PITG_17606	Pi cation-transporting ATPase, putative (3417 nt)	-14.795	3.008338	0.010089
PITG_22896	Pi secreted RxLR effector peptide, putative (585 nt)	-14.1412	3.780375	0.010093
PITG_03584	Pi hypothetical protein (2286 nt)	-14.2526	3.209867	0.010093
PITG_06014	Pi conserved hypothetical protein (1740 nt)	-32.6122	34.80768	0.0101
PITG_06989	Pi acyltransferase family (1139 nt)	-32.6244	-34.7834	0.0101
PITG_07636	Pi serine protease family S15, putative (2178 nt)	-32.6478	-34.7365	0.0101
PITG_16111	Pi conserved hypothetical protein (1490 nt)	-32.6244	-34.7834	0.0101
PITG_20254	Pi large conductance mechanosensitive channel, putative (1511 nt)	-32.6244	-34.7834	0.0101
PITG_21522	Pi conserved hypothetical protein (1510 nt)	-32.6244	-34.7834	0.0101
PITG_22632	Pi polysaccharide lyase, putative (385 nt)	-32.6478	-34.7365	0.0101
PITG_08536	Pi conserved hypothetical protein (1168 nt)	-14.9862	-3.64731	0.010103
PITG_18943	Pi conserved hypothetical protein (882 nt)	-15.8886	-3.3393	0.010113
PITG_12452	Pi conserved hypothetical protein (567 nt)	-16.9186	3.886164	0.010195
PITG_16324	Pi conserved hypothetical protein (1098 nt)	-16.5984	4.177683	0.01027
PITG_05689	Pi conserved hypothetical protein (1700 nt)	-13.4236	-3.04127	0.01036
PITG_14993	Pi protein-L-isoaspartate O-methyltransferase, putative (720 nt)	-14.3166	-4.13607	0.010373
PITG_17125	Pi conserved hypothetical protein (753 nt)	-15.8971	3.463286	0.010391
PITG_11368	Pi conserved hypothetical protein (1143 nt)	-15.211	-3.18641	0.010394
PITG_21013	Pi kinesin-associated protein, putative (2124 nt)	-15.7029	3.392225	0.010397
PITG_15129	Pi conserved hypothetical protein (1772 nt)	-32.7453	-34.5415	0.010418
PITG_12841	Pi conserved hypothetical protein (2114 nt)	-17.3158	4.589954	0.010428
PITG_11983	Pi conserved hypothetical protein (920 nt)	-14.9418	3.095293	0.01049
PITG_17677	Pi conserved hypothetical protein (1271 nt)	-15.751	-3.62984	0.010514
PITG_22817	Pi conserved hypothetical protein (234 nt)	-32.6297	34.77279	0.010521
PITG_13544	Pi conserved hypothetical protein (2742 nt)	-15.8382	-3.44711	0.010567
PITG_04594	Pi aspartyl-tRNA synthetase, putative (1215 nt)	-13.7602	3.287153	0.010592
PITG_05193	Pi conserved hypothetical protein (1056 nt)	-16.1199	-3.9177	0.010597
PITG_03882	Pi histone H2A type 1 (529 nt)	-12.7702	-2.83405	0.010609
PITG_18851	Pi conserved hypothetical protein (900 nt)	-14.704	2.950181	0.010623
PITG_02687	Pi conserved hypothetical protein (601 nt)	-32.7878	34.45642	0.010651
PITG_00595	Pi conserved hypothetical protein (2676 nt)	-16.9118	3.902655	0.010666
PITG_00022	Pi Multidrug/Oligosaccharidyl-lipid/Polysaccharide (MOP) FliC	-16.2504	3.349603	0.010667
PITG_06646	Pi conserved hypothetical protein (4498 nt)	-16.2504	3.349603	0.010667
PITG_05328	Pi conserved hypothetical protein (2246 nt)	-13.9599	-3.17615	0.010668
PITG_00392	Pi serine protease family S33, putative (907 nt)	-16.186	-3.78629	0.01068
PITG_04296	Pi ATP-binding Cassette (ABC) Superfamily (1896 nt)	-16.0318	3.514559	0.01068
PITG_00672	Pi conserved hypothetical protein (2295 nt)	-32.747	34.5382	0.010693
PITG_03181	Pi conserved hypothetical protein (2415 nt)	-32.747	34.5382	0.010693
PITG_11027	Pi conserved hypothetical protein (2652 nt)	-32.747	34.5382	0.010693
PITG_18709	Pi conserved hypothetical protein (1109 nt)	-32.747	34.5382	0.010693
PITG_12619	Pi Crinkler (CRN) family protein (1740 nt)	-11.4005	-2.6696	0.010734
PITG_19013	Pi hypothetical protein (2144 nt)	-32.6332	-34.7656	0.010737
PITG_22802	Pi secreted RxLR effector peptide, putative (225 nt)	-32.6332	-34.7656	0.010737

PITG_03374	Pi conserved hypothetical protein (2227 nt)	-15.2899	-3.74372	0.010752
PITG_12123	Pi sporangia induced myosin-like protein (1021 nt)	-15.8214	3.370445	0.01085
PITG_18257	Pi conserved hypothetical protein (1514 nt)	-32.775	-34.4821	0.010896
PITG_20077	Pi conserved hypothetical protein (1269 nt)	-16.1973	-3.76386	0.010906
PITG_09983	Pi protocadherin Fat-like protein (10467 nt)	-16.2568	3.338544	0.010937
PITG_10751	Pi conserved hypothetical protein (797 nt)	-16.9223	-4.38926	0.011034
PITG_03634	Pi nucleoside diphosphate kinase, putative (1229 nt)	-32.7917	34.44871	0.011046
PITG_05831	Pi conserved hypothetical protein (1057 nt)	-32.7917	34.44871	0.011046
PITG_13772	Pi conserved hypothetical protein (2493 nt)	-32.837	-34.3581	0.011046
PITG_16559	Pi glycoside hydrolase, putative (2511 nt)	-32.7917	34.44871	0.011046
PITG_20464	Pi conserved hypothetical protein (991 nt)	-32.7917	34.44871	0.011046
PITG_03585	Pi hypothetical protein (459 nt)	-13.5944	2.842726	0.011137
PITG_19111	Pi conserved hypothetical protein (2034 nt)	-14.4811	-2.91435	0.011151
PITG_05863	Pi conserved hypothetical protein (654 nt)	-16.905	3.919163	0.011153
PITG_13802	Pi conserved hypothetical protein (1184 nt)	-15.1464	3.137241	0.011202
PITG_23281	Pi Crinkler (CRN) family protein, pseudogene (1825 nt)	-13.0373	-2.78318	0.011226
PITG_00643	Pi protein kinase, putative (2750 nt)	-32.6578	34.71645	0.011226
PITG_17314	Pi cysteine protease family C01A, putative (1077 nt)	-32.6578	34.71645	0.011226
PITG_00710	Pi isoamyl acetate-hydrolyzing esterase, putative (823 nt)	-15.4393	3.214984	0.011233
PITG_11292	Pi conserved hypothetical protein (802 nt)	-32.8059	-34.4203	0.011248
PITG_22056	Pi conserved hypothetical protein (714 nt)	-32.8059	-34.4203	0.011248
PITG_00868	Pi naringenin,2-oxoglutarate 3-dioxygenase, putative (987 nt)	-16.8921	3.955107	0.011294
PITG_15406	Pi Amino Acid/Auxin Permease (AAP) Family (1470 nt)	-14.2568	-2.77316	0.011331
PITG_03096	Pi hypothetical protein (1264 nt)	-11.8001	-2.92572	0.011347
PITG_03554	Pi endo-1,3(4)-beta-glucanase, putative (2036 nt)	-16.2897	4.090098	0.011385
PITG_10558	Pi conserved hypothetical protein (2168 nt)	-32.6718	-34.6885	0.011449
PITG_14100	Pi conserved hypothetical protein (1340 nt)	-32.6718	-34.6885	0.011449
PITG_16135	Pi conserved hypothetical protein (1432 nt)	-15.1958	3.100439	0.011482
PITG_02275	Pi peroxisomal trans-2-enoyl-CoA reductase, putative (486 n	-32.7653	34.50143	0.011524
PITG_15951	Pi hypothetical protein (1263 nt)	-16.7925	-4.51348	0.011636
PITG_00046	Pi sporangia induced conserved hypothetical protein (2619 r	-17.2893	4.631285	0.011658
PITG_20628	Pi conserved hypothetical protein (4791 nt)	-16.9199	3.892306	0.011658
PITG_18127	Pi conserved hypothetical protein (5592 nt)	-15.9231	-3.27147	0.011684
PITG_02893	Pi conserved hypothetical protein (1012 nt)	-15.3918	3.010591	0.011768
PITG_18822	Pi Crinkler (CRN) family protein, pseudogene (1859 nt)	-13.7365	-3.00977	0.011815
PITG_19656	Pi GMP synthase [glutamine-hydrolyzing], putative (1416 nt)	-15.2045	3.084222	0.01182
PITG_13843	Pi conserved hypothetical protein (456 nt)	-16.1722	-3.71144	0.011866
PITG_07514	Pi crinkler (CRN) family protein, pseudogene (695 nt)	-14.0581	-3.24245	0.011871
PITG_00582	Pi secreted RxLR effector peptide, putative (648 nt)	-32.7768	34.47842	0.011872
PITG_11068	Pi hypothetical protein (521 nt)	-32.7768	34.47842	0.011872
PITG_16731	Pi conserved hypothetical protein (609 nt)	-13.5101	-2.72018	0.011947
PITG_01865	Pi regulator of chromosome condensation (RCC1)-like protei	-32.83	34.37217	0.011957
PITG_02473	Pi HECT E3 ubiquitin ligase, putative (1995 nt)	-32.8924	-34.2472	0.011957
PITG_19143	Pi conserved hypothetical protein (907 nt)	-32.8797	-34.2726	0.011957
PITG_20027	Pi Major Facilitator Superfamily (MFS) (1638 nt)	-32.8797	-34.2726	0.011957
PITG_18300	Pi conserved hypothetical protein (573 nt)	-32.8065	-34.4191	0.011959
PITG_21110	Pi Mitochondrial Carrier (MC) Family (1080 nt)	-14.87	3.213715	0.01197

PITG_09635	Pi orotidine 5'-phosphate decarboxylase, putative (1621 nt)	-16.8376	-4.42743	0.012001
PITG_18356	Pi beta-glucan synthesis-associated protein KRE6 (2462 nt)	-16.2677	3.31493	0.012001
PITG_19060	Pi conserved hypothetical protein (321 nt)	-14.5522	-3.04139	0.012017
PITG_20715	Pi deoxyribodipyrimidine photolyase, putative (1763 nt)	-15.2053	3.196971	0.012033
PITG_07109	Pi conserved hypothetical protein (2827 nt)	-14.6553	-2.99474	0.012054
PITG_07968	Pi protein kinase, putative (1581 nt)	-15.6404	-3.75114	0.012098
PITG_03370	Pi conserved hypothetical protein (850 nt)	-16.2234	-3.71173	0.012103
PITG_09930	Pi type II inositol-3,4-bisphosphate 4-phosphatase, putative (1158 nt)	-16.9873	-4.25462	0.012109
PITG_04989	Pi sorbitol dehydrogenase, putative (1158 nt)	-14.4814	2.85463	0.012183
PITG_03648	Pi hypothetical protein (919 nt)	-17.1109	-3.9997	0.012183
PITG_16327	Pi conserved hypothetical protein (707 nt)	-13.5429	2.929759	0.01222
PITG_12989	Pi glutathione S-transferase theta, putative (785 nt)	-14.4792	-3.02112	0.012319
PITG_01218	Pi conserved hypothetical protein (1353 nt)	-32.8406	34.35081	0.012376
PITG_02269	Pi conserved hypothetical protein (729 nt)	-32.9093	-34.2135	0.012376
PITG_17055	Pi endo-1,4-beta-xylanase, putative (1422 nt)	-32.8406	34.35081	0.012376
PITG_21598	Pi conserved hypothetical protein (1836 nt)	-32.8624	-34.3074	0.012376
PITG_21945	Pi NmrA-like family protein, putative (1022 nt)	-32.8406	34.35081	0.012376
PITG_09962	Pi conserved hypothetical protein (2799 nt)	-15.6905	-3.65008	0.012389
PITG_19665	Pi conserved hypothetical protein (2043 nt)	-13.8547	-2.92438	0.012395
PITG_06360	Pi conserved hypothetical protein (1029 nt)	-15.7774	3.233944	0.012407
PITG_02119	Pi protein kinase, putative (1583 nt)	-13.3691	-2.73165	0.012421
PITG_17552	Pi myb-like DNA-binding protein, putative (773 nt)	-14.931	-3.31419	0.012512
PITG_23048	Pi secreted RxLR effector peptide, putative (483 nt)	-14.9932	-3.40886	0.012512
PITG_09283	Pi conserved hypothetical protein (591 nt)	-13.5842	-2.6894	0.012523
PITG_08630	Pi hypothetical protein (864 nt)	-17.7072	4.235454	0.012524
PITG_14832	Pi hypothetical protein (809 nt)	-17.7072	4.235454	0.012524
PITG_20844	Pi conserved hypothetical protein (1697 nt)	-17.7072	4.235454	0.012524
PITG_02766	Pi patatin-like phospholipase, putative (2211 nt)	-32.8986	-34.235	0.012589
PITG_14698	Pi conserved hypothetical protein (1683 nt)	-32.8742	-34.2837	0.012589
PITG_11794	Pi conserved hypothetical protein (2011 nt)	-16.6746	4.030482	0.012622
PITG_17946	Pi hypothetical protein (692 nt)	-15.9226	-3.27449	0.012625
PITG_07120	Pi conserved hypothetical protein (2986 nt)	-16.2488	3.365585	0.01266
PITG_12948	Pi conserved hypothetical protein (1899 nt)	-14.2747	-2.73758	0.012666
PITG_07786	Pi hypothetical protein (438 nt)	-14.065	-3.27432	0.012689
PITG_03986	Pi bardet-Biedl syndrome 1 family protein (2368 nt)	-16.9515	3.82474	0.012716
PITG_16338	Pi conserved hypothetical protein (1409 nt)	-13.9157	-2.80083	0.012722
PITG_01859	Pi conserved hypothetical protein (1535 nt)	-32.8028	34.42642	0.012747
PITG_07088	Pi Major Facilitator Superfamily (MFS) (1479 nt)	-14.8173	-3.34283	0.012761
PITG_12903	Pi protein kinase (2275 nt)	-15.7973	3.190275	0.012814
PITG_08553	Pi calcium/calmodulin dependent protein kinase, putative (1158 nt)	-13.9307	2.824189	0.012817
PITG_11676	Pi conserved hypothetical protein (1299 nt)	-15.3554	-3.43988	0.012836
PITG_02552	Pi conserved hypothetical protein (1095 nt)	-32.7224	-34.5872	0.012852
PITG_06725	Pi conserved hypothetical protein (2837 nt)	-32.7067	34.6188	0.012852
PITG_10299	Pi conserved hypothetical protein (479 nt)	-32.7067	34.6188	0.012852
PITG_11025	Pi hypothetical protein (1299 nt)	-32.7067	34.6188	0.012852
PITG_13155	Pi conserved hypothetical protein (921 nt)	-32.7224	-34.5872	0.012852
PITG_11218	Pi conserved hypothetical protein (935 nt)	-15.5804	2.980929	0.01286

PITG_01282	Pi conserved hypothetical protein (1990 nt)	-15.8	-3.34246	0.012946
PITG_17405	Pi conserved hypothetical protein (2008 nt)	-32.8043	-34.4236	0.012974
PITG_11253	Pi serine/threonine protein kinase (3351 nt)	-16.2856	4.380823	0.013021
PITG_16810	Pi conserved hypothetical protein (1884 nt)	-15.5098	-3.20822	0.013057
PITG_00846	Pi conserved hypothetical protein (1337 nt)	-15.9231	3.160427	0.01307
PITG_08051	Pi conserved hypothetical protein (574 nt)	-32.6967	-34.6388	0.013095
PITG_16256	Pi conserved hypothetical protein (1489 nt)	-32.6967	-34.6388	0.013095
PITG_17520	Pi conserved hypothetical protein (430 nt)	-32.6967	-34.6388	0.013095
PITG_20529	Pi conserved hypothetical protein (4934 nt)	-32.6967	-34.6388	0.013095
PITG_14455	Pi Cation Diffusion Facilitator (CDF) Family (1155 nt)	-13.3761	-2.66615	0.013102
PITG_09341	Pi conserved hypothetical protein (1148 nt)	-15.7987	3.189374	0.013143
PITG_20337	Pi conserved hypothetical protein (1056 nt)	-12.0808	3.153206	0.013154
PITG_17167	Pi conserved hypothetical protein (802 nt)	-13.8616	2.730181	0.013177
PITG_12222	Pi sporangia induced conserved hypothetical protein (1771 r	-32.8517	34.32876	0.013248
PITG_18801	Pi conserved hypothetical protein (2091 nt)	-32.8517	34.32876	0.013248
PITG_22129	Pi conserved hypothetical protein (576 nt)	-32.8517	34.32876	0.013248
PITG_12350	Pi conserved hypothetical protein (1215 nt)	-14.7604	-3.09978	0.013262
PITG_06757	Pi conserved hypothetical protein (916 nt)	-13.6296	-2.87605	0.013262
PITG_15395	Pi conserved hypothetical protein (751 nt)	-17.329	4.554242	0.013266
PITG_05468	Pi conserved hypothetical protein (836 nt)	-15.4926	-3.24432	0.013276
PITG_18402	Pi conserved hypothetical protein (1056 nt)	-12.3647	3.254065	0.013319
PITG_04868	Pi ADP/ATP translocase, putative (933 nt)	-9.82324	2.537745	0.013389
PITG_15444	Pi conserved hypothetical protein (2945 nt)	-32.9041	-34.224	0.013474
PITG_15442	Pi transmembrane protein, putative (1282 nt)	-14.6553	-2.8868	0.013496
PITG_01493	Pi conserved hypothetical protein (557 nt)	-12.5545	3.331337	0.013531
PITG_14632	Pi conserved hypothetical protein (1024 nt)	-10.565	-2.4797	0.013531
PITG_11085	Pi phospholipid-transporting ATPase, putative (4464 nt)	-16.4861	3.653104	0.013544
PITG_11466	Pi tubby-like protein (1823 nt)	-14.601	-2.94402	0.013569
PITG_22065	Pi conserved hypothetical protein (1121 nt)	-11.3645	-2.9209	0.013586
PITG_19797	Pi amino acid/auxin permease-like protein (1191 nt)	-32.7427	-34.5466	0.013591
PITG_11504	Pi cleavage induced hypothetical protein (1043 nt)	-16.448	3.42585	0.01369
PITG_11832	Pi conserved hypothetical protein (1280 nt)	-32.8698	-34.2925	0.013702
PITG_13146	Pi RNA pseudouridylate synthase-like protein (1798 nt)	-32.8698	-34.2925	0.013702
PITG_17264	Pi WD domain-containing protein, putative (2009 nt)	-13.7673	-2.66958	0.013727
PITG_01074	Pi conserved hypothetical protein (1684 nt)	-16.8658	-4.51034	0.01378
PITG_02363	Pi conserved hypothetical protein (495 nt)	-15.7504	-3.43774	0.013875
PITG_13937	Pi hypothetical protein (666 nt)	-15.8207	3.143419	0.013962
PITG_06605	Pi conserved hypothetical protein (1433 nt)	-16.982	3.759386	0.014024
PITG_20115	Pi adenylate kinase, putative (1616 nt)	-15.4467	3.041142	0.014104
PITG_08315	Pi conserved hypothetical protein (719 nt)	-15.8051	3.182256	0.014167
PITG_19939	Pi glucosylceramidase, putative (2151 nt)	-15.3767	-3.48168	0.014307
PITG_14968	Pi cAMP-dependent protein kinase catalytic subunit alpha, p	-14.5261	-3.0929	0.014372
PITG_08175	Pi hypothetical protein (415 nt)	-16.8708	-4.35946	0.014515
PITG_01709	Pi hypothetical protein (1063 nt)	-32.759	34.51421	0.014597
PITG_03692	Pi Voltage-gated Ion Channel (VIC) Superfamily (1818 nt)	-32.759	34.51421	0.014597
PITG_07536	Pi conserved hypothetical protein (811 nt)	-32.759	34.51421	0.014597
PITG_12502	Pi conserved hypothetical protein (900 nt)	-32.759	34.51421	0.014597

PITG_18334	Pi alcohol dehydrogenase, putative (1017 nt)	-32.759	34.51421	0.014597
PITG_03600	Pi bardet-Biedl syndrome 2 protein (2234 nt)	-16.9907	3.744727	0.014608
PITG_01075	Pi conserved hypothetical protein (559 nt)	-17.134	-3.95394	0.014608
PITG_21667	Pi conserved hypothetical protein (1008 nt)	-17.364	4.491221	0.014608
PITG_03118	Pi mRNA decapping enzyme (1290 nt)	-32.8712	-34.2897	0.014649
PITG_03788	Pi conserved hypothetical protein (1241 nt)	-14.8298	-2.9598	0.014684
PITG_01272	Pi lysosomal acid lipase/cholesteryl ester hydrolase, putative	-15.8545	-3.31841	0.014726
PITG_20866	Pi beta-glucan synthesis-associated protein (2232 nt)	-17.0622	-4.10371	0.014747
PITG_05597	Pi conserved hypothetical protein (897 nt)	-15.9761	-3.16429	0.014783
PITG_06599	Pi conserved hypothetical protein (984 nt)	-14.8121	-2.99549	0.014809
PITG_02352	Pi P-type ATPase (P-ATPase) Superfamily (3239 nt)	-13.8527	2.648118	0.014858
PITG_07116	Pi ATP-binding Cassette (ABC) Superfamily (1497 nt)	-32.7773	-34.4776	0.014859
PITG_09195	Pi conserved hypothetical protein (907 nt)	-32.7773	-34.4776	0.014859
PITG_09467	Pi pectin lyase, putative (696 nt)	-32.7773	-34.4776	0.014859
PITG_13582	Pi glycosyl hydrolase, putative (3124 nt)	-32.7773	-34.4776	0.014859
PITG_15140	Pi conserved hypothetical protein (3796 nt)	-32.7773	-34.4776	0.014859
PITG_16847	Pi conserved hypothetical protein (2167 nt)	-32.7773	-34.4776	0.014859
PITG_16928	Pi conserved hypothetical protein (824 nt)	-32.7773	-34.4776	0.014859
PITG_15011	Pi hypothetical protein (1329 nt)	-15.427	2.943584	0.014873
PITG_15593	Pi conserved hypothetical protein (887 nt)	-13.0955	2.597441	0.014932
PITG_17270	Pi conserved hypothetical protein (784 nt)	-32.9229	-34.1863	0.014944
PITG_13960	Pi endoribonuclease L-PSP, putative (700 nt)	-13.8353	2.875647	0.014981
PITG_03356	Pi conserved hypothetical protein (1164 nt)	-17.1149	-3.99571	0.015023
PITG_08419	Pi sporangia induced hypothetical protein (689 nt)	-16.0128	3.558729	0.015029
PITG_19249	Pi conserved hypothetical protein (1432 nt)	-16.0049	3.574535	0.015029
PITG_02492	Pi microtubule-associated protein, putative (7118 nt)	-15.6878	2.938065	0.015105
PITG_15735	Pi protein kinase, putative (3069 nt)	-12.9329	-2.67768	0.015106
PITG_05283	Pi hypothetical protein (1701 nt)	-32.7495	-34.5332	0.015124
PITG_07895	Pi sulfatase-like protein (2741 nt)	-32.7495	-34.5332	0.015124
PITG_11889	Pi putative GPI-anchored serine-threonine rich hypothetical	-32.7495	-34.5332	0.015124
PITG_17304	Pi conserved hypothetical protein (980 nt)	-32.7495	-34.5332	0.015124
PITG_20579	Pi conserved hypothetical protein (669 nt)	-32.7495	-34.5332	0.015124
PITG_17704	Pi conserved hypothetical protein (1413 nt)	-32.8634	34.30526	0.015142
PITG_06398	Pi conserved hypothetical protein (1713 nt)	-15.8875	2.994638	0.015145
PITG_05672	Pi conserved hypothetical protein (1898 nt)	-14.3984	-3.08328	0.015178
PITG_00343	Pi conserved hypothetical protein (2037 nt)	-32.954	-34.1242	0.015182
PITG_04345	Pi hypothetical protein (735 nt)	-32.954	-34.1242	0.015182
PITG_16316	Pi conserved hypothetical protein (2640 nt)	-32.954	-34.1242	0.015182
PITG_00230	Pi peptidyl-prolyl cis-trans isomerase, mitochondrial precursor	-17.371	4.472582	0.01521
PITG_14107	Pi conserved hypothetical protein (573 nt)	-17.1358	-3.9512	0.01521
PITG_08802	Pi NAD-specific glutamate dehydrogenase, putative (3177 nt)	-14.1303	2.799661	0.015214
PITG_03468	Pi endoplasmic oxidoreductin, putative (1549 nt)	-16.263	-3.63219	0.015217
PITG_03038	Pi Major Facilitator Superfamily (MFS) (1617 nt)	-13.5573	-2.7439	0.015224
PITG_10645	Pi conserved hypothetical protein (3802 nt)	-16.459	-3.34021	0.015338
PITG_06327	Pi chromodomain protein, putative (1504 nt)	-32.7528	34.52653	0.015394
PITG_20230	Pi Amino Acid/Auxin Permease (AAP) Family (1497 nt)	-32.7528	34.52653	0.015394
PITG_21040	Pi conserved hypothetical protein (1900 nt)	-32.7528	34.52653	0.015394

PITG_03891	Pi conserved hypothetical protein (1556 nt)	-32.9006	-34.2308	0.015394
PITG_06067	Pi conserved hypothetical protein (1275 nt)	-32.9006	-34.2308	0.015394
PITG_11853	Pi C2 domain-containing protein, putative (1193 nt)	-16.0816	-3.8754	0.015493
PITG_13840	Pi conserved hypothetical protein (1269 nt)	-15.9905	-3.13673	0.015514
PITG_22468	Pi conserved hypothetical protein (438 nt)	-16.1731	-3.70461	0.015525
PITG_21544	Pi conserved hypothetical protein (1151 nt)	-16.089	-4.1137	0.015526
PITG_16840	Pi conserved hypothetical protein (405 nt)	-16.2654	3.348707	0.015608
PITG_14322	Pi methylenetetrahydrofolate dehydrogenase [NAD+], putative	-14.8637	2.668641	0.015608
PITG_11870	Pi conserved hypothetical protein (1853 nt)	-12.9103	-2.82522	0.015636
PITG_07717	Pi ATP-binding Cassette (ABC) Superfamily (4092 nt)	-15.2492	2.998298	0.015649
PITG_10472	Pi conserved hypothetical protein (1187 nt)	-32.8671	-34.298	0.015649
PITG_15878	Pi conserved hypothetical protein (701 nt)	-32.8041	-34.4238	0.015667
PITG_08431	Pi diacylglycerol acyltransferase, putative (1263 nt)	-32.9465	-34.1391	0.015668
PITG_11298	Pi conserved hypothetical protein (696 nt)	-32.9465	-34.1391	0.015668
PITG_17961	Pi Dicarboxylate/Amino Acid:Cation (Na or H ) Symporter (D	-16.6864	4.00338	0.015684
PITG_13546	Pi sphingosine kinase, putative (1761 nt)	-16.2776	-3.60322	0.015749
PITG_20830	Pi conserved hypothetical protein (3586 nt)	-14.5208	-2.93878	0.015783
PITG_13819	Pi conserved hypothetical protein (2376 nt)	-16.4094	-3.44353	0.015885
PITG_08695	Pi extended synaptotagmin, putative (1264 nt)	-15.9649	3.33901	0.015901
PITG_09067	Pi M96 mating-specific protein family (2232 nt)	-14.1637	-3.00635	0.01601
PITG_00628	Pi hypothetical protein (338 nt)	-13.0267	-3.10782	0.016012
PITG_07160	Pi serine protease family S10, putative (1817 nt)	-13.7268	-2.81658	0.016101
PITG_02241	Pi conserved hypothetical protein (1095 nt)	-14.9284	-3.05829	0.016104
PITG_07939	Pi conserved hypothetical protein (2746 nt)	-14.293	-3.00723	0.016124
PITG_12317	Pi conserved hypothetical protein (793 nt)	-15.9823	3.298676	0.01627
PITG_18233	Pi conserved hypothetical protein (756 nt)	-12.7637	-2.49641	0.016283
PITG_07967	Pi protein kinase, putative (1453 nt)	-13.7487	-2.91564	0.016296
PITG_19466	Pi conserved hypothetical protein (1491 nt)	-16.2381	-3.57882	0.016342
PITG_04976	Pi conserved hypothetical protein (2466 nt)	-17.0252	3.672802	0.016594
PITG_13834	Pi vacuolar protein, putative (11155 nt)	-17.0252	3.672802	0.016594
PITG_17652	Pi conserved hypothetical protein (878 nt)	-17.178	-3.8651	0.016594
PITG_19791	Pi conserved hypothetical protein (1354 nt)	-17.2034	-3.81445	0.016594
PITG_01187	Pi dolichol kinase, putative (1034 nt)	-32.9402	-34.1518	0.016678
PITG_01855	Pi mannosyl-oligosaccharide alpha-1,2-mannosidase, putative	-32.9402	-34.1518	0.016678
PITG_12174	Pi conserved hypothetical protein (2057 nt)	-32.9402	-34.1518	0.016678
PITG_12518	Pi conserved hypothetical protein (2695 nt)	-32.9402	-34.1518	0.016678
PITG_07501	Pi Crinkler (CRN) family protein (748 nt)	-12.1544	-2.63571	0.016678
PITG_12808	Pi Amino Acid/Auxin Permease (AAP) Family (1485 nt)	-12.7439	2.88121	0.01671
PITG_10212	Pi ADP-ribosylation factor family (634 nt)	-14.8832	3.080788	0.016719
PITG_22959	Pi protein kinase, putative (1777 nt)	-11.8634	-2.74834	0.016787
PITG_21220	Pi Rab28 family GTPase, putative (708 nt)	-15.4182	3.237554	0.016793
PITG_00929	Pi conserved hypothetical protein (862 nt)	-17.7242	4.218994	0.016794
PITG_14222	Pi sporangia induced conserved hypothetical protein (1313 nt)	-17.7242	4.218994	0.016794
PITG_14743	Pi conserved hypothetical protein (4802 nt)	-15.3875	-3.37528	0.016822
PITG_08769	Pi demethylmenaquinone methyltransferase, putative (672 nt)	-14.6255	-3.06116	0.016824
PITG_17073	Pi conserved hypothetical protein (2050 nt)	-17.4082	4.405086	0.016917
PITG_23093	Pi NPP1-like protein, pseudogene (701 nt)	-17.2666	4.619442	0.016939

PITG_19144	Pi conserved hypothetical protein (840 nt)	-16.3081	3.252563	0.016973
PITG_06773	Pi regulator of chromosome condensation (RCC1), putative (	-16.4878	3.345871	0.01706
PITG_17132	Pi flagella associated protein (3083 nt)	-16.5432	3.537298	0.01706
PITG_17722	Pi conserved hypothetical protein (1082 nt)	-16.4878	3.345871	0.01706
PITG_05749	Pi conserved hypothetical protein (888 nt)	-32.8155	34.40109	0.017078
PITG_07686	Pi conserved hypothetical protein (1952 nt)	-32.8155	34.40109	0.017078
PITG_13860	Pi protein kinase, putative (1146 nt)	-32.8364	-34.3593	0.017078
PITG_15658	Pi hypothetical protein (2142 nt)	-32.8364	-34.3593	0.017078
PITG_16031	Pi conserved hypothetical protein (1179 nt)	-32.8364	-34.3593	0.017078
PITG_16742	Pi conserved hypothetical protein (513 nt)	-32.8364	-34.3593	0.017078
PITG_19887	Pi conserved hypothetical protein (4715 nt)	-32.8364	-34.3593	0.017078
PITG_22823	Pi expressed protein (507 nt)	-32.8364	-34.3593	0.017078
PITG_08677	Pi inositol 2-dehydrogenase, putative (1170 nt)	-12.9029	3.135921	0.017246
PITG_01594	Pi hypothetical protein (697 nt)	-15.3258	-2.95633	0.017333
PITG_03316	Pi hypothetical protein (459 nt)	-32.8062	-34.4197	0.017366
PITG_08984	Pi protein kinase, putative (2467 nt)	-15.8793	-3.26925	0.017408
PITG_04382	Pi 50S ribosomal protein L27 (478 nt)	-12.8634	2.443132	0.017422
PITG_15603	Pi conserved hypothetical protein (1020 nt)	-15.2092	-3.27328	0.017496
PITG_15050	Pi conserved hypothetical protein (1959 nt)	-15.5268	2.880357	0.017631
PITG_15290	Pi IQ and AAA domain-containing protein, putative (2839 nt)	-15.3198	3.811066	0.017707
PITG_14949	Pi conserved hypothetical protein (1160 nt)	-14.0041	-2.58842	0.017722
PITG_17344	Pi cleavage induced hypothetical protein (1552 nt)	-14.5195	2.842716	0.017795
PITG_02203	Pi conserved hypothetical protein (2022 nt)	-15.9016	-3.22414	0.017799
PITG_08059	Pi conserved hypothetical protein (1164 nt)	-16.357	3.138131	0.017809
PITG_16274	Pi M96 mating-specific protein family (1200 nt)	-13.8776	-2.80731	0.017817
PITG_18677	Pi conserved hypothetical protein (2072 nt)	-14.7195	-2.80974	0.017859
PITG_06345	Pi conserved hypothetical protein (2853 nt)	-17.194	-3.8347	0.017916
PITG_12648	Pi conserved hypothetical protein (1371 nt)	-11.826	2.482689	0.017941
PITG_08595	Pi conserved hypothetical protein (766 nt)	-14.9874	-3.20472	0.01795
PITG_18603	Pi conserved hypothetical protein (1088 nt)	-15.1782	4.071059	0.018077
PITG_14431	Pi conserved hypothetical protein (1571 nt)	-15.6942	2.749287	0.01823
PITG_00213	Pi hypothetical protein (1007 nt)	-12.3475	-2.66691	0.018243
PITG_04895	Pi conserved hypothetical protein (1584 nt)	-14.6358	-2.92718	0.018302
PITG_16804	Pi conserved hypothetical protein (1269 nt)	-15.144	2.873666	0.01835
PITG_10052	Pi choline/Carnitine O-acyltransferase, putative (1929 nt)	-14.225	2.644626	0.018442
PITG_12747	Pi conserved hypothetical protein (1334 nt)	-13.2697	-2.68091	0.018479
PITG_01188	Pi aspartate aminotransferase, putative (2034 nt)	-16.8686	-4.35811	0.018505
PITG_18795	Pi conserved hypothetical protein (966 nt)	-32.9836	-34.0649	0.018572
PITG_09377	Pi ER degradation-enhancing alpha-mannosidase-like proteir	-16.4763	-3.30733	0.01858
PITG_00754	Pi gamma-glutamyltranspeptidase, putative (1671 nt)	-15.8815	-3.17942	0.018669
PITG_09090	Pi conserved hypothetical protein (1818 nt)	-13.5015	-2.51947	0.018788
PITG_02692	Pi conserved hypothetical protein (1703 nt)	-16.9777	-4.28506	0.0188
PITG_01513	Pi dynein light chain intermediate polypeptide, putative (884	-16.1031	3.099168	0.018816
PITG_03423	Pi dynein heavy chain (12423 nt)	-16.0225	3.63265	0.01882
PITG_02156	Pi conserved hypothetical protein (541 nt)	-15.5718	-3.00875	0.018822
PITG_10675	Pi protein kinase, putative (1566 nt)	-32.9359	-34.1602	0.018856
PITG_12993	Pi serine/threonine protein kinase (1089 nt)	-32.9359	-34.1602	0.018856

PITG_20525	Pi conserved hypothetical protein (737 nt)	-32.9359	-34.1602	0.018856
PITG_00101	Pi HECT E3 ubiquitin ligase, putative (6796 nt)	-17.0388	3.655839	0.018958
PITG_17576	Pi protein kinase, putative (1986 nt)	-15.381	-3.38782	0.018966
PITG_21202	Pi conserved hypothetical protein (1899 nt)	-16.158	3.661787	0.019141
PITG_01722	Pi conserved hypothetical protein (1347 nt)	-15.0808	-3.01075	0.019182
PITG_04077	Pi carbohydrate esterase, putative (699 nt)	-15.6244	3.467364	0.019214
PITG_05100	Pi conserved hypothetical protein (693 nt)	-15.1155	-2.87256	0.019218
PITG_18922	Pi conserved hypothetical protein (1842 nt)	-15.0544	-2.87037	0.019332
PITG_18951	Pi carbohydrate-binding protein, putative (2346 nt)	-13.8697	-2.78714	0.019368
PITG_10165	Pi conserved hypothetical protein (2226 nt)	-16.3726	3.114393	0.019375
PITG_04478	Pi protein kinase (1275 nt)	-14.5577	-2.76234	0.019498
PITG_15301	Pi protein kinase (929 nt)	-14.9502	-2.7736	0.019526
PITG_03362	Pi HECT E3 ubiquitin ligase, putative (2057 nt)	-33.0038	-34.0245	0.019541
PITG_09320	Pi ATP-binding Cassette (ABC) Superfamily (2251 nt)	-33.0038	-34.0245	0.019541
PITG_16340	Pi conserved hypothetical protein (1657 nt)	-33.0379	-33.9564	0.019541
PITG_19643	Pi conserved hypothetical protein (945 nt)	-14.7385	3.059547	0.019608
PITG_08304	Pi cGMP-dependent protein kinase, putative (4180 nt)	-13.9367	-2.53682	0.019614
PITG_04584	Pi conserved hypothetical protein (1664 nt)	-15.8465	-3.44632	0.019622
PITG_13673	Pi conserved hypothetical protein (2148 nt)	-13.1589	-2.57087	0.019631
PITG_06661	Pi Chloride Channel (ClC) Family (2119 nt)	-16.2747	3.34107	0.019719
PITG_10096	Pi conserved hypothetical protein (4107 nt)	-17.0627	3.597965	0.019762
PITG_21509	Pi conserved hypothetical protein (1726 nt)	-17.2506	-3.71997	0.019762
PITG_12357	Pi gastricsin, putative (1410 nt)	-17.1051	-4.02115	0.019804
PITG_01962	Pi conserved hypothetical protein (1068 nt)	-33.0278	-33.9764	0.019823
PITG_03040	Pi conserved hypothetical protein (2196 nt)	-33.0278	-33.9764	0.019823
PITG_17839	Pi protein kinase (653 nt)	-33.0278	-33.9764	0.019823
PITG_04399	Pi Amino Acid/Auxin Permease (AAP) Family (1010 nt)	-32.901	-34.2301	0.019906
PITG_12498	Pi conserved hypothetical protein (1583 nt)	-32.901	-34.2301	0.019906
PITG_20947	Pi conserved hypothetical protein (454 nt)	-15.516	3.624798	0.019983
PITG_02104	Pi conserved hypothetical protein (1808 nt)	-15.9005	-3.22722	0.020026
PITG_22241	Pi conserved hypothetical protein (549 nt)	-17.2297	-3.76207	0.020124
PITG_15846	Pi conserved hypothetical protein (2814 nt)	-12.9518	-2.56703	0.020157
PITG_14833	Pi conserved hypothetical protein (1892 nt)	-15.1042	-2.83282	0.020214
PITG_01654	Pi Delta(5) fatty acid desaturase, putative (1711 nt)	-15.0867	2.88398	0.020214
PITG_01869	Pi alpha,alpha-trehalose-phosphate synthase [UDP-forming],	-32.868	-34.2962	0.020221
PITG_07772	Pi conserved hypothetical protein (2037 nt)	-32.868	-34.2962	0.020221
PITG_09663	Pi hypothetical protein (538 nt)	-32.868	-34.2962	0.020221
PITG_13050	Pi hypothetical protein (455 nt)	-32.868	-34.2962	0.020221
PITG_21773	Pi hypothetical protein (1354 nt)	-32.868	-34.2962	0.020221
PITG_21784	Pi conserved hypothetical protein (1308 nt)	-32.868	-34.2962	0.020221
PITG_13372	Pi conserved hypothetical protein (845 nt)	-13.9447	2.469216	0.02044
PITG_08469	Pi conserved hypothetical protein (1791 nt)	-15.8822	-3.17663	0.020493
PITG_09765	Pi hypothetical protein (1420 nt)	-16.0521	3.153248	0.02056
PITG_12453	Pi conserved hypothetical protein (1539 nt)	-14.9831	-2.64983	0.020578
PITG_22343	Pi conserved hypothetical protein (921 nt)	-14.7631	2.778629	0.020583
PITG_19764	Pi conserved hypothetical protein (3585 nt)	-16.8027	3.776053	0.020621
PITG_02221	Pi thymidylate kinase (651 nt)	-32.9458	-34.1405	0.020638



PITG_01981	Pi conserved hypothetical protein (1011 nt)	-14.9614	-2.69455	0.020702
PITG_22007	Pi conserved hypothetical protein (436 nt)	-13.0853	-2.44833	0.020706
PITG_20842	Pi conserved hypothetical protein (522 nt)	-16.399	3.056103	0.020713
PITG_08551	Pi conserved hypothetical protein (123 nt)	-15.2389	3.134589	0.020762
PITG_05151	Pi Amino Acid/Auxin Permease (AAP) Family (1545 nt)	-14.4622	-2.62077	0.02089
PITG_07961	Pi cleavage induced tubulin alpha chain (1549 nt)	-14.7889	3.088308	0.020908
PITG_02559	Pi conserved hypothetical protein (1807 nt)	-32.9784	-34.0753	0.020982
PITG_07520	Pi conserved hypothetical protein (970 nt)	-32.9784	-34.0753	0.020982
PITG_14709	Pi conserved hypothetical protein (572 nt)	-33.0192	-33.9938	0.020982
PITG_21482	Pi conserved hypothetical protein (1096 nt)	-32.9784	-34.0753	0.020982
PITG_22529	Pi conserved hypothetical protein (1086 nt)	-33.0192	-33.9938	0.020982
PITG_13387	Pi conserved hypothetical protein (898 nt)	-12.5112	-2.37879	0.021078
PITG_16478	Pi acyl-CoA dehydrogenase, putative (2462 nt)	-15.5535	-3.04476	0.021108
PITG_20484	Pi conserved hypothetical protein (782 nt)	-12.6381	3.074644	0.021137
PITG_17948	Pi conserved hypothetical protein (1056 nt)	-16.4443	-3.3782	0.021138
PITG_05421	Pi conserved hypothetical protein (1945 nt)	-14.0719	-2.86914	0.021329
PITG_01199	Pi conserved hypothetical protein (711 nt)	-16.304	3.280625	0.021423
PITG_14696	Pi serine hydroxymethyltransferase 1, mitochondrial precurs	-12.823	2.478115	0.021469
PITG_18001	Pi ubiquitin, putative (625 nt)	-12.4464	3.082705	0.021474
PITG_08543	Pi conserved hypothetical protein (984 nt)	-15.6192	2.767607	0.021487
PITG_16208	Pi conserved hypothetical protein (1179 nt)	-15.6232	-2.90644	0.021502
PITG_17421	Pi hypothetical protein (1635 nt)	-15.9161	-3.19582	0.021511
PITG_00659	Pi conserved hypothetical protein (2015 nt)	-17.1928	-3.84114	0.021564
PITG_10935	Pi phosphatidylinositol kinase (PIK-I) (3717 nt)	-17.1691	-3.88861	0.021564
PITG_16267	Pi Major Facilitator Superfamily (MFS) (1363 nt)	-17.1691	-3.88861	0.021564
PITG_19107	Pi conserved hypothetical protein (1288 nt)	-17.1691	-3.88861	0.021564
PITG_12195	Pi katanin p60 ATPase-containing subunit, putative (2120 nt)	-16.188	3.201372	0.021606
PITG_03454	Pi conserved hypothetical protein (1378 nt)	-13.3625	-2.59466	0.021837
PITG_21024	Pi conserved hypothetical protein (2342 nt)	-13.6078	-2.79611	0.021844
PITG_21213	Pi conserved hypothetical protein (394 nt)	-16.9955	-4.11247	0.021895
PITG_18503	Pi Crinkler (CRN) family protein (1363 nt)	-10.9158	-2.35591	0.021906
PITG_03559	Pi conserved hypothetical protein (1530 nt)	-16.0344	2.937884	0.021928
PITG_06830	Pi ubiquitin-conjugating enzyme E2, putative (834 nt)	-15.965	2.845376	0.021939
PITG_21151	Pi Annexin (Annexin) Family (1009 nt)	-13.1393	-3.0705	0.021968
PITG_08881	Pi succinyl-CoA ligase beta-chain, mitochondrial precursor (2	-12.1586	2.395135	0.022025
PITG_13258	Pi Mitochondrial Carrier (MC) Family (894 nt)	-14.7584	-2.63011	0.022093
PITG_15385	Pi hypothetical protein (354 nt)	-14.097	2.614093	0.022179
PITG_06651	Pi adiponectin receptor protein, putative (1700 nt)	-13.566	2.439906	0.022283
PITG_16939	Pi conserved hypothetical protein (2557 nt)	-17.0315	-4.17666	0.022311
PITG_04861	Pi conserved hypothetical protein (1383 nt)	-16.5341	-3.18956	0.022332
PITG_07898	Pi sulfatase-like protein (2445 nt)	-16.9742	-4.15467	0.022332
PITG_08712	Pi conserved hypothetical protein (801 nt)	-16.5341	-3.18956	0.022332
PITG_15851	Pi conserved hypothetical protein (1463 nt)	-16.5843	3.455062	0.022332
PITG_22951	Pi similar to sea slug pheromone (261 nt)	-14.0114	2.898644	0.0224
PITG_10763	Pi lysocardiolipin acyltransferase, putative (1851 nt)	-13.3787	-2.66587	0.022724
PITG_08018	Pi conserved hypothetical protein (1362 nt)	-13.8023	-2.49749	0.022728
PITG_15541	Pi conserved hypothetical protein (778 nt)	-16.5521	-3.15416	0.022775

PITG_18024	Pi conserved hypothetical protein (2420 nt)	-16.5352	-3.18789	0.022775
PITG_05346	Pi cation-transporting ATPase, putative (4774 nt)	-16.4958	-3.27413	0.022796
PITG_15543	Pi conserved hypothetical protein (1270 nt)	-16.4958	-3.27413	0.022796
PITG_21993	Pi conserved hypothetical protein (967 nt)	-16.0919	-2.93328	0.022878
PITG_16940	Pi tRNA guanosine-2'-O-methyltransferase, putative (1490 nt)	-15.4056	-2.72903	0.02293
PITG_02952	Pi sporangia induced Bardet-Biedl syndrome 4 protein (1381 nt)	-16.2969	3.41895	0.023025
PITG_01015	Pi protein kinase, putative, pseudogene (1641 nt)	-15.5372	-3.15934	0.023118
PITG_00546	Pi myosin-like protein (4229 nt)	-33.0126	-34.0069	0.023142
PITG_03099	Pi hypothetical protein (966 nt)	-33.0126	-34.0069	0.023142
PITG_14163	Pi Voltage-gated Ion Channel (VIC) Superfamily (1572 nt)	-33.0126	-34.0069	0.023142
PITG_19857	Pi conserved hypothetical protein (2813 nt)	-33.0126	-34.0069	0.023142
PITG_21639	Pi M96 mating-specific protein family (1088 nt)	-33.0126	-34.0069	0.023142
PITG_01258	Pi ras family GTPase, putative (807 nt)	-14.6594	2.55612	0.023153
PITG_03372	Pi conserved hypothetical protein (1359 nt)	-15.3328	-2.87532	0.023197
PITG_10321	Pi conserved hypothetical protein (1432 nt)	-14.5783	2.757362	0.023209
PITG_12221	Pi conserved hypothetical protein (3529 nt)	-16.7362	3.892326	0.023252
PITG_09579	Pi riboflavin biosynthesis protein ribBA, putative (1873 nt)	-14.7479	-2.60018	0.023254
PITG_00964	Pi conserved hypothetical protein (1301 nt)	-14.4883	-2.56859	0.023276
PITG_02949	Pi conserved hypothetical protein (919 nt)	-13.7353	-2.73246	0.023323
PITG_03748	Pi conserved hypothetical protein (3027 nt)	-32.9732	-34.0857	0.023465
PITG_11921	Pi epoxide hydrolase, putative (890 nt)	-32.9732	-34.0857	0.023465
PITG_14483	Pi conserved hypothetical protein (1593 nt)	-32.9732	-34.0857	0.023465
PITG_17669	Pi M96 mating-specific protein family (1476 nt)	-32.9732	-34.0857	0.023465
PITG_23063	Pi Crinkler (CRN) family protein (585 nt)	-13.1018	-2.39962	0.023469
PITG_02911	Pi conserved hypothetical protein (971 nt)	-15.0759	2.60042	0.023592
PITG_03597	Pi alanyl-tRNA synthetase domain-containing protein 1, putative (1647 nt)	-14.6171	-2.80716	0.023641
PITG_02562	Pi conserved hypothetical protein (1647 nt)	-14.5167	-2.51162	0.023647
PITG_01255	Pi eukaryotic translation initiation factor 5, putative (1329 nt)	-12.2997	2.346312	0.023669
PITG_19605	Pi conserved hypothetical protein (899 nt)	-17.2785	-3.66413	0.023701
PITG_22076	Pi conserved hypothetical protein (546 nt)	-16.344	-3.59326	0.023763
PITG_13321	Pi conserved hypothetical protein (1411 nt)	-16.5908	3.140337	0.023836
PITG_19658	Pi ATP-binding Cassette (ABC) Superfamily (474 nt)	-16.4631	-3.34406	0.023844
PITG_05455	Pi hypothetical protein (1667 nt)	-32.9357	-34.1607	0.023913
PITG_20218	Pi hypothetical protein (629 nt)	-32.9357	-34.1607	0.023913
PITG_17026	Pi palmitoyltransferase, putative (2162 nt)	-15.8941	-3.24131	0.023968
PITG_13366	Pi conserved hypothetical protein (3990 nt)	-14.4034	-2.48004	0.023969
PITG_11773	Pi protein phosphatase 2C, putative (2350 nt)	-15.0712	-2.9677	0.024
PITG_12256	Pi anoctamin-like protein (2882 nt)	-15.1614	-3.14534	0.024
PITG_06666	Pi kinesin-like protein (2770 nt)	-17.4766	4.245048	0.024018
PITG_05582	Pi glutathione S-transferase, putative (705 nt)	-9.92365	-2.29576	0.024048
PITG_10256	Pi conserved hypothetical protein (2930 nt)	-17.112	3.500783	0.024106
PITG_10082	Pi conserved hypothetical protein (1668 nt)	-17.2572	-3.70712	0.024106
PITG_08867	Pi mannitol dehydrogenase, putative (2842 nt)	-13.8043	-2.46282	0.024113
PITG_08376	Pi conserved hypothetical protein (974 nt)	-13.177	-2.42616	0.024184
PITG_06228	Pi hypothetical protein (641 nt)	-15.7159	-3.49777	0.024249
PITG_01136	Pi conserved hypothetical protein (3534 nt)	-32.8768	34.27848	0.024263
PITG_07878	Pi conserved hypothetical protein (1659 nt)	-32.8768	34.27848	0.024263

PITG_04048	Pi conserved hypothetical protein (1554 nt)	-14.9307	-3.11537	0.024287
PITG_15686	Pi conserved hypothetical protein (1242 nt)	-16.2238	3.129854	0.024337
PITG_10323	Pi hypothetical protein (382 nt)	-16.2661	-3.51632	0.024375
PITG_03092	Pi conserved hypothetical protein (441 nt)	-13.8564	-2.73493	0.024384
PITG_17349	Pi conserved hypothetical protein (1247 nt)	-14.4654	-2.57034	0.02445
PITG_09453	Pi conserved hypothetical protein (1145 nt)	-13.6376	-2.86549	0.024459
PITG_17639	Pi phosphatidylinositol kinase (1910 nt)	-16.1247	3.004375	0.024505
PITG_22856	Pi Crinkler (CRN) family protein (2421 nt)	-16.3265	-3.40275	0.024505
PITG_09344	Pi kinesin-like protein (2518 nt)	-17.5135	4.192133	0.024517
PITG_00451	Pi 2-oxoisovalerate dehydrogenase subunit beta, mitochond	-12.6316	-2.54999	0.024559
PITG_05883	Pi bardet-Biedl syndrome 5 protein (1047 nt)	-15.7495	2.860233	0.02456
PITG_17441	Pi conserved hypothetical protein (522 nt)	-16.551	-3.1586	0.024607
PITG_04859	Pi Polycystin Cation Channel (PCC) Family (1653 nt)	-16.5866	3.458925	0.024607
PITG_18874	Pi conserved hypothetical protein (1275 nt)	-13.8345	2.366775	0.024738
PITG_12459	Pi protein kinase (931 nt)	-17.2171	-3.79222	0.024859
PITG_03123	Pi M96 mating-specific protein family (2036 nt)	-17.2426	-3.74125	0.024859
PITG_06002	Pi mismatch repair endonuclease pms1, putative (3223 nt)	-17.2426	-3.74125	0.024859
PITG_11050	Pi endo-1,3(4)-beta-glucanase, putative (2340 nt)	-17.2426	-3.74125	0.024859
PITG_13373	Pi conserved hypothetical protein (1037 nt)	-13.1716	-2.69534	0.02494
PITG_03610	Pi conserved hypothetical protein (1190 nt)	-16.1237	-2.86899	0.025012
PITG_06106	Pi Intraflagellar Transport Protein 81 (2181 nt)	-16.1017	3.052182	0.025012
PITG_06900	Pi beta-secretase, putative (2660 nt)	-16.1076	-2.90119	0.025012
PITG_15864	Pi conserved hypothetical protein (506 nt)	-13.4748	-2.74024	0.025028
PITG_03192	Pi secreted RxLR effector peptide, putative (435 nt)	-16.0492	3.562117	0.025028
PITG_15382	Pi alpha kinase (1681 nt)	-13.831	2.61094	0.025033
PITG_08736	Pi conserved hypothetical protein (2528 nt)	-14.777	-2.69569	0.025065
PITG_16258	Pi hypothetical protein (522 nt)	-15.7187	2.939022	0.025073
PITG_04884	Pi conserved hypothetical protein (872 nt)	-15.7483	-3.33358	0.025076
PITG_10651	Pi conserved hypothetical protein (1140 nt)	-16.5372	3.246383	0.02508
PITG_21022	Pi P-type ATPase (P-ATPase) Superfamily (4173 nt)	-15.462	2.768604	0.025115
PITG_00439	Pi conserved hypothetical protein (1452 nt)	-15.2021	2.646834	0.02517
PITG_10454	Pi carbamoyl-phosphate synthase [ammonia], putative (5076	-14.1645	2.619029	0.025332
PITG_09597	Pi conserved hypothetical protein (1395 nt)	-14.0815	-2.67286	0.025411
PITG_19644	Pi carbohydrate-binding protein, putative (2295 nt)	-14.2683	2.900718	0.025413
PITG_12318	Pi ATP-binding Cassette (ABC) Superfamily (2112 nt)	-15.4251	-2.69003	0.025436
PITG_06335	Pi conserved hypothetical protein (3335 nt)	-16.1691	-3.694	0.025513
PITG_05272	Pi conserved hypothetical protein (2186 nt)	-33.0844	-33.8634	0.025541
PITG_07433	Pi conserved hypothetical protein (1193 nt)	-33.1209	-33.7902	0.025541
PITG_08004	Pi glucosylceramidase, putative (2009 nt)	-33.1209	-33.7902	0.025541
PITG_12902	Pi conserved hypothetical protein (1108 nt)	-33.1209	-33.7902	0.025541
PITG_13303	Pi conserved hypothetical protein (1686 nt)	-33.1209	-33.7902	0.025541
PITG_18614	Pi conserved hypothetical protein (949 nt)	-33.1209	-33.7902	0.025541
PITG_03340	Pi conserved hypothetical protein (646 nt)	-13.3839	-2.4528	0.025544
PITG_10722	Pi conserved hypothetical protein (1447 nt)	-15.898	-3.23393	0.02557
PITG_09998	Pi conserved hypothetical protein (862 nt)	-11.8986	-2.64484	0.025615
PITG_19363	Pi conserved hypothetical protein (1697 nt)	-16.3151	3.274498	0.025642
PITG_21049	Pi conserved hypothetical protein (466 nt)	-14.6559	-2.56501	0.025679

PITG_01931	Pi conserved hypothetical protein (1755 nt)	-14.6856	2.503691	0.025687
PITG_01457	Pi conserved hypothetical protein (3662 nt)	-16.5735	-3.11065	0.02571
PITG_00292	Pi hypothetical protein (493 nt)	-15.6707	-2.81142	0.02574
PITG_05140	Pi L-threonine 3-dehydrogenase, putative (1071 nt)	-12.9677	-2.35227	0.025779
PITG_05577	Pi glutathione S-transferase, putative (2532 nt)	-8.66047	-2.29858	0.025785
PITG_14104	Pi conserved hypothetical protein (978 nt)	-33.0728	-33.8866	0.02587
PITG_16213	Pi protein kinase, putative (1315 nt)	-16.1003	3.068231	0.025897
PITG_10926	Pi fatty acid synthase subunit alpha, putative (12098 nt)	-14.8271	2.679983	0.025905
PITG_10995	Pi conserved hypothetical protein (1065 nt)	-14.7906	-2.61647	0.02595
PITG_00833	Pi conserved hypothetical protein (1007 nt)	-9.95826	-2.60876	0.025966
PITG_21932	Pi hypothetical protein (919 nt)	-13.2821	-2.64252	0.026024
PITG_16311	Pi ubiquitin family protein, putative (918 nt)	-11.1584	2.540493	0.026067
PITG_19025	Pi conserved hypothetical protein (840 nt)	-16.5935	-3.07134	0.026194
PITG_04924	Pi conserved hypothetical protein (1134 nt)	-33.0964	-33.8392	0.026202
PITG_06718	Pi tenascin-like protein (2301 nt)	-17.1005	3.530923	0.02621
PITG_13548	Pi conserved hypothetical protein (495 nt)	-17.2697	-3.6841	0.02621
PITG_13317	Pi conserved hypothetical protein (1118 nt)	-15.4092	-2.79029	0.026342
PITG_08526	Pi conserved hypothetical protein (499 nt)	-15.9205	-3.09921	0.02638
PITG_18800	Pi conserved hypothetical protein (1069 nt)	-14.8339	2.706489	0.026514
PITG_11294	Pi alcohol dehydrogenase, putative (1221 nt)	-33.1087	-33.8147	0.026537
PITG_02588	Pi conserved hypothetical protein (915 nt)	-16.1247	-2.86896	0.026575
PITG_11457	Pi phosphoribosylformylglycinamide synthase (4128 nt)	-16.1021	3.05705	0.026575
PITG_08722	Pi conserved hypothetical protein (1333 nt)	-15.0406	-2.53485	0.026633
PITG_17360	Pi 12-oxophytodienoate reductase, putative (1119 nt)	-16.5978	-3.06322	0.026685
PITG_04405	Pi conserved hypothetical protein (1606 nt)	-15.9816	-3.0651	0.026711
PITG_18118	Pi conserved hypothetical protein (848 nt)	-15.1998	-3.56201	0.026801
PITG_10014	Pi conserved hypothetical protein (828 nt)	-15.6294	-2.81697	0.026866
PITG_20128	Pi transemembrane protein, putative (1342 nt)	-33.0624	-33.9073	0.026877
PITG_10681	Pi conserved hypothetical protein (1103 nt)	-13.8368	-2.53158	0.02694
PITG_04174	Pi hypothetical protein (696 nt)	-13.7579	2.443188	0.026951
PITG_00107	Pi conserved hypothetical protein (1243 nt)	-16.195	4.435716	0.026967
PITG_07241	Pi Monovalent Cation:Proton Antiporter-1 (CPA1) Family (22	-13.8515	-2.56708	0.027003
PITG_11604	Pi hypothetical protein (679 nt)	-13.7112	2.382682	0.027007
PITG_17401	Pi conserved hypothetical protein (891 nt)	-12.1774	-2.43074	0.027012
PITG_22286	Pi Crinkler (CRN) family protein, pseudogene (924 nt)	-14.1731	-2.45067	0.027013
PITG_17629	Pi conserved hypothetical protein (593 nt)	-16.967	3.851338	0.027052
PITG_11267	Pi conserved hypothetical protein (714 nt)	-16.0887	-3.84545	0.027138
PITG_08305	Pi conserved hypothetical protein (8670 nt)	-15.0472	-2.52197	0.027265
PITG_10452	Pi CAD protein (4584 nt)	-15.1938	2.786265	0.027452
PITG_00469	Pi conserved hypothetical protein (1536 nt)	-15.657	-2.9151	0.027455
PITG_18171	Pi mitochondrial 2-oxoglutarate/malate carrier protein, puta	-16.5595	-3.14505	0.027543
PITG_03476	Pi conserved hypothetical protein (1247 nt)	-15.6959	-2.76101	0.027635
PITG_11881	Pi conserved hypothetical protein (902 nt)	-16.6303	3.369934	0.027684
PITG_02449	Pi conserved hypothetical protein (1012 nt)	-14.4966	-2.55239	0.027719
PITG_22108	Pi conserved hypothetical protein (857 nt)	-13.5059	2.493619	0.027793
PITG_11246	Pi conserved hypothetical protein (1571 nt)	-15.0932	2.809774	0.027813
PITG_12113	Pi conserved hypothetical protein (1158 nt)	-15.2019	2.48394	0.02786

PITG_19508	Pi conserved hypothetical protein (2224 nt)	-16.9715	-4.15388	0.028055
PITG_16664	Pi conserved hypothetical protein (682 nt)	-16.5292	3.926107	0.028204
PITG_02075	Pi 1-acyl-sn-glycerol-3-phosphate acyltransferase, putative (:	-14.9698	-2.62109	0.02833
PITG_20197	Pi histone acetyltransferase, putative (2061 nt)	-15.995	-3.03783	0.028346
PITG_01429	Pi serine protease family S33, putative (1941 nt)	-17.2959	-3.63377	0.028445
PITG_09682	Pi conserved hypothetical protein (1069 nt)	-17.2959	-3.63377	0.028445
PITG_01809	Pi conserved hypothetical protein (1961 nt)	-15.2402	-2.55902	0.028498
PITG_08544	Pi Solute:Sodium Symporter (SSS) Family (1159 nt)	-16.0407	2.688195	0.02856
PITG_20253	Pi Large Conductance Mechanosensitive Ion Channel (MscL)	-17.3382	-3.54468	0.02864
PITG_00861	Pi conserved hypothetical protein (1384 nt)	-14.4176	-2.53776	0.028745
PITG_10555	Pi conserved hypothetical protein (1371 nt)	-33.0108	-34.0105	0.028771
PITG_10801	Pi sister chromatid cohesion protein PDS5 (4001 nt)	-33.0108	-34.0105	0.028771
PITG_14435	Pi conserved hypothetical protein (1786 nt)	-33.0108	-34.0105	0.028771
PITG_17302	Pi multicopper oxidase, putative (1814 nt)	-33.0108	-34.0105	0.028771
PITG_16264	Pi conserved hypothetical protein (1408 nt)	-15.6486	-3.01524	0.028931
PITG_08236	Pi conserved hypothetical protein (1544 nt)	-12.4469	-2.26659	0.028945
PITG_05135	Pi hypothetical protein (463 nt)	-16.2444	3.450955	0.028957
PITG_03375	Pi conserved hypothetical protein (2260 nt)	-33.0992	-33.8338	0.028986
PITG_04641	Pi conserved hypothetical protein (1368 nt)	-33.0992	-33.8338	0.028986
PITG_12496	Pi conserved hypothetical protein (1593 nt)	-14.8287	-2.59135	0.029032
PITG_21183	Pi conserved hypothetical protein (2061 nt)	-14.8293	-2.59021	0.029032
PITG_16339	Pi protein kinase, putative (1542 nt)	-15.3617	2.592421	0.029082
PITG_05261	Pi conserved hypothetical protein (682 nt)	-17.3118	-3.59786	0.029095
PITG_06416	Pi conserved hypothetical protein (2157 nt)	-17.3429	-3.53575	0.029095
PITG_02621	Pi CTP synthase, putative (1809 nt)	-15.1752	2.463124	0.029146
PITG_05443	Pi hypothetical protein (746 nt)	-32.9723	-34.0876	0.029157
PITG_06671	Pi canalicular multispecific organic anion transporter, putativ	-32.9723	-34.0876	0.029157
PITG_10175	Pi conserved hypothetical protein (1981 nt)	-32.9723	-34.0876	0.029157
PITG_16842	Pi conserved hypothetical protein (696 nt)	-32.9723	-34.0876	0.029157
PITG_17845	Pi carbonic anhydrase, putative (535 nt)	-32.9723	-34.0876	0.029157
PITG_19489	Pi conserved hypothetical protein (1287 nt)	-32.9723	-34.0876	0.029157
PITG_22141	Pi conserved hypothetical protein (1282 nt)	-32.9723	-34.0876	0.029157
PITG_03419	Pi flagellar protein, putative (4935 nt)	-16.4523	2.956777	0.029231
PITG_10849	Pi conserved hypothetical protein (2061 nt)	-16.4523	2.956777	0.029231
PITG_13490	Pi urocanase, putative (2405 nt)	-14.7814	-2.58353	0.029244
PITG_10217	Pi glucan 1,3-beta-glucosidase, putative (3102 nt)	-16.4436	-3.39239	0.029312
PITG_11978	Pi conserved hypothetical protein (579 nt)	-33.0545	-33.9231	0.029351
PITG_15367	Pi Voltage-gated Ion Channel (VIC) Superfamily (1774 nt)	-33.0545	-33.9231	0.029351
PITG_04513	Pi RIB72 protein (1656 nt)	-17.165	3.396157	0.029555
PITG_04639	Pi conserved hypothetical protein (1213 nt)	-17.165	3.396157	0.029555
PITG_15443	Pi conserved hypothetical protein (876 nt)	-17.3002	-3.62159	0.029555
PITG_10637	Pi conserved hypothetical protein (1272 nt)	-14.5157	3.162746	0.029598
PITG_09768	Pi dentin sialophosphoprotein-like protein (1715 nt)	-12.2154	-2.21329	0.02966
PITG_20985	Pi fibronectin type III domain-containing protein (4156 nt)	-16.1516	2.958218	0.029686
PITG_04891	Pi conserved hypothetical protein (1528 nt)	-16.6587	3.30624	0.029733
PITG_09729	Pi conserved hypothetical protein (864 nt)	-15.1003	2.728816	0.02985
PITG_06263	Pi H/ACA ribonucleoprotein complex subunit 4 (2103 nt)	-13.7989	2.350227	0.029999

PITG_18884	Pi conserved hypothetical protein (1702 nt)	-13.7383	2.248028	0.03003
PITG_13901	Pi conserved hypothetical protein (3281 nt)	-17.1534	-3.93143	0.030057
PITG_03960	Pi conserved hypothetical protein (1106 nt)	-15.8544	2.829465	0.030127
PITG_07024	Pi inosine-5'-monophosphate dehydrogenase 2 (1726 nt)	-14.4914	2.457698	0.030166
PITG_10190	Pi conserved hypothetical protein (796 nt)	-16.6168	-3.02474	0.030263
PITG_15164	Pi conserved hypothetical protein (2019 nt)	-16.6394	-2.97944	0.030263
PITG_17325	Pi lipase, putative (1586 nt)	-17.0386	-4.02538	0.030263
PITG_15577	Pi hypothetical protein (1345 nt)	-17.5768	4.060994	0.03049
PITG_20458	Pi conserved hypothetical protein (1046 nt)	-17.5768	4.060994	0.03049
PITG_15321	Pi aminomethyltransferase (1298 nt)	-14.3238	2.429767	0.030603
PITG_14550	Pi conserved hypothetical protein (609 nt)	-15.4623	2.680014	0.030631
PITG_02109	Pi conserved hypothetical protein (2412 nt)	-13.746	-2.55093	0.030633
PITG_22064	Pi conserved hypothetical protein (349 nt)	-9.80843	-2.42636	0.030674
PITG_17512	Pi calcium/calmodulin-dependent protein kinase, putative (1	-14.3526	2.359897	0.030694
PITG_06035	Pi conserved hypothetical protein (1038 nt)	-16.6201	-3.01871	0.030799
PITG_02368	Pi polysaccharide lyase, putative (1621 nt)	-16.6017	-3.05998	0.030836
PITG_17721	Pi conserved hypothetical protein (5449 nt)	-16.0306	2.716054	0.030842
PITG_00063	Pi mitogen activated protein kinase 7 (1520 nt)	-16.1617	2.930266	0.030867
PITG_01694	Pi peptidyl-prolyl cis-trans isomerase 1 (686 nt)	-12.1445	2.165438	0.030882
PITG_13663	Pi conserved hypothetical protein (1842 nt)	-17.3264	-3.5703	0.030966
PITG_00797	Pi WD domain-containing protein (2367 nt)	-13.7608	2.279064	0.030979
PITG_11594	Pi ubiquitin family protein, putative (2388 nt)	-15.7215	-2.70967	0.031028
PITG_14970	Pi protein kinase, putative (2617 nt)	-13.0102	-2.21835	0.031039
PITG_06506	Pi conserved hypothetical protein (861 nt)	-14.7108	2.84213	0.031057
PITG_04663	Pi conserved hypothetical protein (2069 nt)	-14.4696	-2.47343	0.031059
PITG_05616	Pi UDP-glucose 4-epimerase, putative (1607 nt)	-12.238	-2.32406	0.031061
PITG_07341	Pi conserved hypothetical protein (819 nt)	-12.2195	-2.61974	0.031148
PITG_14210	Pi Amino Acid/Auxin Permease (AAAP) Family (1597 nt)	-16.1445	2.713588	0.031165
PITG_04394	Pi conserved hypothetical protein (732 nt)	-15.1566	-2.79572	0.031176
PITG_10213	Pi conserved hypothetical protein (1236 nt)	-13.4981	-2.63747	0.031275
PITG_19641	Pi conserved hypothetical protein (4528 nt)	-16.4909	2.872323	0.031341
PITG_18545	Pi tetrahydrofolate dehydrogenase (1038 nt)	-15.5817	2.634112	0.03136
PITG_13378	Pi conserved hypothetical protein (309 nt)	-16.6179	3.406503	0.031385
PITG_07826	Pi hypothetical protein (464 nt)	-13.0739	2.337275	0.031422
PITG_02760	Pi oxidoreductase, putative (881 nt)	-16.4835	-3.30856	0.031451
PITG_13225	Pi conserved hypothetical protein (840 nt)	-12.8445	-2.21454	0.031507
PITG_08704	Pi fatty acid desaturase, putative (1374 nt)	-14.6428	2.577426	0.031533
PITG_18306	Pi conserved hypothetical protein (1823 nt)	-9.22464	-2.16373	0.031536
PITG_17908	Pi urease accessory protein ureG, putative (1996 nt)	-13.9209	-2.57788	0.031682
PITG_15877	Pi conserved hypothetical protein (396 nt)	-14.5378	-3.31496	0.031692
PITG_11013	Pi guanylate kinase (880 nt)	-13.924	2.266287	0.031729
PITG_00448	Pi tRNA (cytosine-5-)-methyltransferase NSUN2, putative (20	-16.1517	2.6998	0.031753
PITG_18252	Pi conserved hypothetical protein (736 nt)	-14.6602	-2.60681	0.031814
PITG_13850	Pi hypothetical protein (2825 nt)	-16.614	3.092991	0.03189
PITG_04700	Pi Transient Receptor Potential Ca <sup>2+</sup> Channel (TRP-CC) Famil	-16.5713	-3.12204	0.031939
PITG_02308	Pi conserved hypothetical protein (812 nt)	-14.3397	2.496382	0.032027
PITG_20485	Pi conserved hypothetical protein (2224 nt)	-14.1342	2.686934	0.032039

PITG_17596	Pi conserved hypothetical protein (2142 nt)	-12.3047	-2.55434	0.032041
PITG_04321	Pi conserved hypothetical protein (1065 nt)	-15.0065	-3.18014	0.032076
PITG_11386	Pi hypothetical protein (2357 nt)	-13.3247	-2.30064	0.03214
PITG_02579	Pi enoyl-CoA hydratase/isomerase family, putative (1085 nt)	-13.4201	-2.33437	0.032168
PITG_03551	Pi histone H3 (411 nt)	-13.076	2.739743	0.032184
PITG_04078	Pi Rab5 family GTPase, putative (745 nt)	-12.309	-2.15157	0.032236
PITG_03054	Pi conserved hypothetical protein (713 nt)	-14.0114	-2.61281	0.032302
PITG_04295	Pi ATP-binding Cassette (ABC) Superfamily (1872 nt)	-16.3843	3.246089	0.032349
PITG_21170	Pi conserved hypothetical protein (446 nt)	-16.4554	-3.24752	0.032349
PITG_15649	Pi Mitochondrial Carrier (MC) Family (840 nt)	-15.4212	-2.69853	0.032357
PITG_00608	Pi conserved hypothetical protein (1108 nt)	-13.3264	2.359581	0.032364
PITG_11153	Pi conserved hypothetical protein (1295 nt)	-16.5344	-3.20047	0.032391
PITG_01145	Pi hypothetical protein (807 nt)	-14.3992	-2.67264	0.032457
PITG_00062	Pi Mitochondrial Protein Translocase (MPT) Family (312 nt)	-11.372	2.177401	0.032522
PITG_15746	Pi SCP-like extracellular protein, putative (1590 nt)	-14.925	2.515737	0.032572
PITG_07896	Pi sulfatase-like protein (2403 nt)	-15.8329	-3.36783	0.032607
PITG_18381	Pi conserved hypothetical protein (1352 nt)	-16.1516	3.374506	0.032611
PITG_14621	Pi conserved hypothetical protein (414 nt)	-14.9814	2.440081	0.032648
PITG_12579	Pi kinesin-like protein (2611 nt)	-16.1826	2.894177	0.032649
PITG_16432	Pi conserved hypothetical protein (1620 nt)	-16.1826	2.894177	0.032649
PITG_15194	Pi Solute:Sodium Symporter (SSS) Family (1223 nt)	-13.2367	-2.24377	0.032712
PITG_21781	Pi conserved hypothetical protein (965 nt)	-17.1254	3.501837	0.032813
PITG_13554	Pi ATP-binding Cassette (ABC) Superfamily (1521 nt)	-14.3294	-2.39332	0.032847
PITG_14722	Pi 12-oxophytodienoate reductase, putative (1155 nt)	-14.3437	-2.44453	0.032847
PITG_08592	Pi conserved hypothetical protein (833 nt)	-16.8884	3.603938	0.032849
PITG_09321	Pi conserved hypothetical protein (656 nt)	-16.1535	2.981089	0.032868
PITG_02914	Pi hypothetical protein (2357 nt)	-16.5394	-3.19092	0.032964
PITG_08475	Pi conserved hypothetical protein (1101 nt)	-16.4909	2.877666	0.033007
PITG_21536	Pi HECT ubiquitin ligase, putative (1180 nt)	-15.6526	3.17763	0.033072
PITG_21256	Pi conserved hypothetical protein (478 nt)	-15.2064	-3.54336	0.033077
PITG_12592	Pi conserved hypothetical protein (1758 nt)	-17.1989	-3.83963	0.033079
PITG_08702	Pi conserved hypothetical protein (4001 nt)	-13.1974	2.241585	0.033111
PITG_06146	Pi conserved hypothetical protein (1188 nt)	-12.3853	2.376485	0.03318
PITG_14855	Pi conserved hypothetical protein (426 nt)	-12.9728	-2.44311	0.0333
PITG_06084	Pi conserved hypothetical protein (1456 nt)	-12.7001	-2.89493	0.033305
PITG_12355	Pi conserved hypothetical protein (1214 nt)	-17.2694	-3.6909	0.033326
PITG_00666	Pi kinesin-like protein (3039 nt)	-17.1628	3.412236	0.033425
PITG_12552	Pi conserved hypothetical protein (2793 nt)	-17.1628	3.412236	0.033425
PITG_01742	Pi thymidine kinase (746 nt)	-17.0498	3.682826	0.033619
PITG_03625	Pi hypothetical protein (814 nt)	-17.0498	3.682826	0.033619
PITG_02563	Pi conserved hypothetical protein (2174 nt)	-15.3558	-2.83031	0.033657
PITG_07212	Pi conserved hypothetical protein (1568 nt)	-17.3246	-3.57643	0.033933
PITG_08977	Pi hypothetical protein (419 nt)	-33.1346	-33.7629	0.033967
PITG_14471	Pi conserved hypothetical protein (1146 nt)	-33.1732	-33.6858	0.033967
PITG_17195	Pi tetrahydrofolate dehydrogenase (2491 nt)	-33.1346	-33.7629	0.033967
PITG_02497	Pi HECT E3 ubiquitin ligase, putative (2229 nt)	-15.4878	-2.63197	0.034
PITG_13419	Pi conserved hypothetical protein (1043 nt)	-15.0732	2.451079	0.034071

PITG_00718	Pi mono-ADP-ribosyltransferase sirtuin-6-like protein (1146 nt)	-15.7485	-2.65583	0.034159
PITG_13128	Pi 7-dehydrocholesterol reductase (1375 nt)	-14.8651	2.445414	0.034209
PITG_22639	Pi conserved hypothetical protein (566 nt)	-16.4646	2.948477	0.034226
PITG_02784	Pi conserved hypothetical protein (1649 nt)	-15.7849	2.945881	0.034341
PITG_13262	Pi cystathionine beta-synthase (1582 nt)	-13.3381	-2.2483	0.034373
PITG_05879	Pi hypothetical protein (704 nt)	-14.6981	2.385963	0.034509
PITG_07343	Pi conserved hypothetical protein (2065 nt)	-16.6476	3.026314	0.03455
PITG_18537	Pi trans-1,2-dihydrobenzene-1,2-diol dehydrogenase, putative	-15.619	-2.99642	0.034781
PITG_16269	Pi M96 mating-specific protein family (1527 nt)	-17.3652	-3.49073	0.034893
PITG_13775	Pi phosphatidylinositol kinase (PIK-J) (3151 nt)	-15.71	-2.73217	0.035029
PITG_09008	Pi conserved hypothetical protein (438 nt)	-14.895	2.762718	0.035036
PITG_04022	Pi conserved hypothetical protein (1818 nt)	-16.6609	-2.93654	0.035129
PITG_00473	Pi tetratricopeptide repeat protein, putative (3075 nt)	-33.1588	-33.7145	0.03513
PITG_03605	Pi 5-methylthioadenosine/S-adenosylhomocysteine deaminase	-33.1588	-33.7145	0.03513
PITG_05320	Pi conserved hypothetical protein (586 nt)	-33.1588	-33.7145	0.03513
PITG_18417	Pi conserved hypothetical protein (1435 nt)	-13.9866	-2.23068	0.035135
PITG_20105	Pi putative methyltransferase, putative (851 nt)	-12.232	2.197932	0.035243
PITG_04288	Pi conserved hypothetical protein (835 nt)	-33.095	-33.842	0.035288
PITG_04998	Pi MtN3-like protein (693 nt)	-33.095	-33.842	0.035288
PITG_07118	Pi conserved hypothetical protein (3736 nt)	-33.095	-33.842	0.035288
PITG_07986	Pi crinkler (CRN) family protein, pseudogene (1115 nt)	-33.095	-33.842	0.035288
PITG_15410	Pi conserved hypothetical protein (1616 nt)	-33.095	-33.842	0.035288
PITG_16556	Pi elongation factor Tu GTP-binding domain-containing protein	-33.095	-33.842	0.035288
PITG_17922	Pi hypothetical protein (395 nt)	-33.095	-33.842	0.035288
PITG_17981	Pi conserved hypothetical protein (771 nt)	-33.095	-33.842	0.035288
PITG_17982	Pi conserved hypothetical protein (2353 nt)	-33.095	-33.842	0.035288
PITG_20222	Pi conserved hypothetical protein (1839 nt)	-33.095	-33.842	0.035288
PITG_20931	Pi conserved hypothetical protein (433 nt)	-33.095	-33.842	0.035288
PITG_21718	Pi conserved hypothetical protein (599 nt)	-33.095	-33.842	0.035288
PITG_21981	Pi carbonic anhydrase, putative (857 nt)	-33.095	-33.842	0.035288
PITG_04381	Pi conserved hypothetical protein (631 nt)	-14.2128	2.331884	0.035306
PITG_11259	Pi conserved hypothetical protein (755 nt)	-14.2506	-2.37163	0.035306
PITG_08493	Pi hypothetical protein (588 nt)	-16.6548	3.330984	0.03532
PITG_18039	Pi conserved hypothetical protein (1487 nt)	-16.6548	3.330984	0.03532
PITG_12439	Pi conserved hypothetical protein (1266 nt)	-15.2511	-2.60178	0.03538
PITG_08413	Pi hypothetical protein (159 nt)	-17.3929	-3.43568	0.035403
PITG_08994	Pi conserved hypothetical protein (1203 nt)	-17.3929	-3.43568	0.035403
PITG_04732	Pi conserved hypothetical protein (2596 nt)	-13.4943	-3.11538	0.035419
PITG_17159	Pi conserved hypothetical protein (903 nt)	-16.1926	-2.73122	0.035435
PITG_06457	Pi conserved hypothetical protein (1426 nt)	-15.0849	-2.50512	0.035481
PITG_09098	Pi conserved hypothetical protein (1329 nt)	-15.74	-2.74745	0.03554
PITG_09463	Pi conserved hypothetical protein (1839 nt)	-14.7758	-3.66185	0.035603
PITG_01231	Pi conserved hypothetical protein (1274 nt)	-33.0516	-33.9288	0.035717
PITG_07381	Pi conserved hypothetical protein (1845 nt)	-33.0516	-33.9288	0.035717
PITG_08050	Pi conserved hypothetical protein (1734 nt)	-33.0516	-33.9288	0.035717
PITG_08805	Pi hypothetical protein (1049 nt)	-33.0516	-33.9288	0.035717
PITG_17171	Pi hypothetical protein (506 nt)	-33.0516	-33.9288	0.035717



PITG_19108	Pi conserved hypothetical protein (1839 nt)	-33.0516	-33.9288	0.035717
PITG_18424	Pi snurportin-like protein (1563 nt)	-15.7395	-2.75006	0.035725
PITG_05331	Pi conserved hypothetical protein (1294 nt)	-16.1572	-2.80648	0.035767
PITG_09684	Pi hypothetical protein (636 nt)	-16.1743	-2.77233	0.035767
PITG_08761	Pi nucleoside diphosphate kinase B (837 nt)	-13.5342	2.176567	0.035805
PITG_03655	Pi conserved hypothetical protein (1287 nt)	-13.9201	-2.42986	0.03597
PITG_03104	Pi conserved hypothetical protein (1542 nt)	-13.0325	-2.28421	0.036097
PITG_00471	Pi pyridoxal biosynthesis lyase pdxS (1094 nt)	-10.5727	-2.67554	0.036218
PITG_03833	Pi diacylglycerol O-acyltransferase, putative (2409 nt)	-15.8897	2.534424	0.036219
PITG_17164	Pi conserved hypothetical protein (889 nt)	-14.9157	-2.47304	0.036226
PITG_07837	Pi conserved hypothetical protein (658 nt)	-16.5228	2.808512	0.036309
PITG_04939	Pi Dicarboxylate/Amino Acid:Cation (Na or H ) Symporter (D	-15.8412	2.459361	0.036322
PITG_11182	Pi conserved hypothetical protein (2220 nt)	-14.0256	-2.39419	0.036405
PITG_01230	Pi hypothetical protein (1386 nt)	-17.4099	-3.40252	0.036439
PITG_19850	Pi conserved hypothetical protein (1578 nt)	-14.7374	-2.4019	0.036478
PITG_04215	Pi conserved hypothetical protein (2212 nt)	-14.0828	2.758032	0.036562
PITG_08496	Pi conserved hypothetical protein (696 nt)	-12.5605	-2.25254	0.036659
PITG_20686	Pi hypothetical protein (273 nt)	-11.8804	2.10517	0.036697
PITG_03881	Pi histone H2A (420 nt)	-12.4649	-2.33179	0.03671
PITG_04980	Pi conserved hypothetical protein (31653 nt)	-16.0869	2.597656	0.03672
PITG_20604	Pi conserved hypothetical protein (480 nt)	-15.6346	3.041454	0.036887
PITG_00301	Pi conserved hypothetical protein (2787 nt)	-17.2054	3.31825	0.036965
PITG_15447	Pi conserved hypothetical protein (2972 nt)	-17.3884	-3.44591	0.036965
PITG_09896	Pi conserved hypothetical protein (324 nt)	-15.077	-2.52306	0.036998
PITG_10886	Pi conserved hypothetical protein (470 nt)	-13.4421	2.241632	0.037102
PITG_01118	Pi conserved hypothetical protein (1302 nt)	-33.1986	-33.6348	0.03714
PITG_09034	Pi conserved hypothetical protein (3808 nt)	-33.1986	-33.6348	0.03714
PITG_10291	Pi conserved hypothetical protein (1955 nt)	-33.1986	-33.6348	0.03714
PITG_05884	Pi AP-2 complex subunit beta, putative (2760 nt)	-13.5093	2.226221	0.037223
PITG_06726	Pi Voltage-gated Ion Channel (VIC) Superfamily (866 nt)	-17.0946	3.590099	0.037294
PITG_00383	Pi conserved hypothetical protein (1121 nt)	-16.0008	-2.93759	0.037365
PITG_07705	Pi conserved hypothetical protein (698 nt)	-14.0749	2.297118	0.037371
PITG_14729	Pi 30S ribosomal protein S16, putative (494 nt)	-13.1942	2.191837	0.03744
PITG_10409	Pi SCP-like extracellular protein (603 nt)	-15.6742	2.692532	0.03745
PITG_06189	Pi conserved hypothetical protein (1399 nt)	-12.1403	-2.36792	0.037461
PITG_20966	Pi hypothetical protein (1577 nt)	-14.1707	2.35538	0.037486
PITG_13173	Pi conserved hypothetical protein (1493 nt)	-17.3568	-3.50948	0.037497
PITG_11052	Pi endo-1,3(4)-beta-glucanase, putative (2085 nt)	-17.0936	-3.91331	0.037514
PITG_06575	Pi transmembrane protein, putative (3054 nt)	-33.147	-33.738	0.037553
PITG_09572	Pi conserved hypothetical protein (1890 nt)	-33.147	-33.738	0.037553
PITG_10702	Pi conserved hypothetical protein (790 nt)	-33.147	-33.738	0.037553
PITG_22562	Pi croquemort-like mating protein, putative (1555 nt)	-16.1104	3.084994	0.037884
PITG_02288	Pi conserved hypothetical protein (1412 nt)	-16.1914	-2.73623	0.038035
PITG_12571	Pi conserved hypothetical protein (1395 nt)	-16.3805	3.236833	0.038035
PITG_05180	Pi hypothetical protein (1391 nt)	-16.6565	-2.94816	0.038126
PITG_18748	Pi conserved hypothetical protein (5857 nt)	-16.5324	2.794761	0.038126
PITG_03494	Pi conserved hypothetical protein (1327 nt)	-17.5339	4.111625	0.038202

PITG_18094	Pi conserved hypothetical protein (8494 nt)	-17.3242	-3.58047	0.038202
PITG_11119	Pi conserved hypothetical protein (3006 nt)	-14.8444	-2.56281	0.038327
PITG_09402	Pi phosphoglycerate kinase (981 nt)	-11.2676	-2.1785	0.038605
PITG_03450	Pi conserved hypothetical protein (1090 nt)	-15.8224	2.731658	0.038666
PITG_09664	Pi protein kinase, putative (2462 nt)	-15.9985	-3.03346	0.038666
PITG_21041	Pi conserved hypothetical protein (2342 nt)	-16.1907	2.883621	0.038704
PITG_15856	Pi conserved hypothetical protein (1310 nt)	-17.2963	-3.63679	0.038762
PITG_02659	Pi serine hydrolase (FSH1)-like protein, putative (831 nt)	-15.6953	-2.92392	0.038773
PITG_03658	Pi phosphoglycerate mutase, putative (1801 nt)	-14.5857	-2.41946	0.038842
PITG_00726	Pi conserved hypothetical protein (1015 nt)	-12.808	-2.11673	0.038852
PITG_20615	Pi conserved hypothetical protein (1342 nt)	-12.9311	-2.32678	0.038907
PITG_00169	Pi conserved hypothetical protein (2737 nt)	-15.2242	2.367199	0.038934
PITG_11473	Pi hypothetical protein (240 nt)	-14.6085	2.471831	0.039025
PITG_00712	Pi isoamyl acetate-hydrolyzing esterase, putative (987 nt)	-14.5395	-2.4217	0.039059
PITG_01312	Pi conserved hypothetical protein (1483 nt)	-16.9477	3.484354	0.039101
PITG_03611	Pi histone H2B (594 nt)	-12.3557	-2.15879	0.039151
PITG_22552	Pi hypothetical protein (1511 nt)	-14.5124	-2.30405	0.039215
PITG_13459	Pi conserved hypothetical protein (676 nt)	-13.5284	2.13367	0.03927
PITG_09723	Pi conserved hypothetical protein (554 nt)	-16.4445	-3.16674	0.039369
PITG_07977	Pi hypothetical protein (1123 nt)	-15.2641	2.609806	0.039495
PITG_17513	Pi conserved hypothetical protein (957 nt)	-16.215	2.571901	0.039768
PITG_13979	Pi conserved hypothetical protein (829 nt)	-16.0168	-2.90611	0.039821
PITG_06336	Pi Glycoside-Pentoside-Hexuronide (GPH):Cation Symporter	-17.5504	4.071442	0.039899
PITG_15485	Pi conserved hypothetical protein (1711 nt)	-12.5329	2.063147	0.039976
PITG_06050	Pi Crinkler (CRN) family protein (1890 nt)	-13.0278	-2.49146	0.039992
PITG_00536	Pi pre-mRNA-splicing factor CWC25-like protein (1726 nt)	-16.2487	-2.61896	0.04005
PITG_09210	Pi hypothetical protein (524 nt)	-17.3542	-3.51683	0.040237
PITG_12232	Pi phosphatidic acid phosphatase, putative (726 nt)	-17.3542	-3.51683	0.040237
PITG_09278	Pi conserved hypothetical protein (1445 nt)	-15.2225	-2.53423	0.040303
PITG_01131	Pi conserved hypothetical protein (1300 nt)	-14.8062	2.468243	0.040428
PITG_01046	Pi beta-lactamase-like protein (1095 nt)	-16.4918	-3.17474	0.040449
PITG_08104	Pi conserved hypothetical protein (611 nt)	-16.4877	-3.18293	0.040449
PITG_05727	Pi conserved hypothetical protein (1947 nt)	-14.1862	-2.33384	0.04063
PITG_22040	Pi transmembrane protein, putative (556 nt)	-13.9047	2.133412	0.040689
PITG_23273	Pi Crinkler (CRN) family protein (2559 nt)	-14.4547	-2.29568	0.040769
PITG_12693	Pi conserved hypothetical protein (715 nt)	-11.3855	-2.39263	0.040812
PITG_05282	Pi phosphatidylinositol-4-phosphate-5-kinase (PIPK-D1/GPCF	-15.0472	-2.46633	0.040857
PITG_01372	Pi conserved hypothetical protein (914 nt)	-16.557	2.736284	0.040986
PITG_17841	Pi conserved hypothetical protein (1180 nt)	-16.557	2.736284	0.040986
PITG_07852	Pi conserved hypothetical protein (2288 nt)	-15.5291	-2.48223	0.041099
PITG_11666	Pi transmembrane protein, putative (3344 nt)	-15.4319	-2.75152	0.041116
PITG_03346	Pi cleavage induced hypothetical protein (1250 nt)	-15.9514	2.635571	0.04116
PITG_02549	Pi conserved hypothetical protein (401 nt)	-16.8843	3.59977	0.041289
PITG_13065	Pi myosin-like protein (5690 nt)	-15.2562	2.465222	0.041321
PITG_19152	Pi conserved hypothetical protein (792 nt)	-16.1016	-2.82426	0.041345
PITG_03757	Pi ATPase (2240 nt)	-14.4807	-2.36956	0.041455
PITG_16512	Pi conserved hypothetical protein (2003 nt)	-15.1447	2.369539	0.041645

PITG_22112	Pi conserved hypothetical protein (1037 nt)	-16.0113	2.978432	0.041669
PITG_20073	Pi pyruvate-flavodoxin oxidoreductase, putative (1733 nt)	-16.1629	-3.69077	0.041779
PITG_06374	Pi Lysosomal Cystine Transporter (LCT) Family (906 nt)	-13.6299	-2.23633	0.041994
PITG_13715	Pi transmembrane protein, putative (3401 nt)	-16.1003	-2.82697	0.042084
PITG_03552	Pi histone H4 (523 nt)	-13.3755	-2.30068	0.042109
PITG_10743	Pi conserved hypothetical protein (7120 nt)	-16.7055	-2.84842	0.042275
PITG_06502	Pi conserved hypothetical protein (2315 nt)	-17.2735	-3.68945	0.042372
PITG_08811	Pi Zinc (Zn <sup>2+</sup> )-Iron (Fe <sup>2+</sup> ) Permease (ZIP) Family (1342 nt)	-17.2735	-3.68945	0.042372
PITG_17116	Pi conserved hypothetical protein (443 nt)	-17.2735	-3.68945	0.042372
PITG_05587	Pi protein kinase, putative (2287 nt)	-14.2252	-2.34715	0.042802
PITG_03947	Pi conserved hypothetical protein (1666 nt)	-16.0811	-2.78015	0.04283
PITG_06094	Pi secreted RxLR effector peptide, putative (489 nt)	-14.6729	2.753113	0.042837
PITG_11438	Pi hypothetical protein (689 nt)	-14.0184	-2.23092	0.042848
PITG_15619	Pi protein kinase (957 nt)	-15.7684	-2.69231	0.042956
PITG_20487	Pi conserved hypothetical protein (1031 nt)	-11.0776	2.665557	0.042987
PITG_06031	Pi conserved hypothetical protein (2188 nt)	-17.2479	-3.74119	0.042991
PITG_15149	Pi conserved hypothetical protein (2030 nt)	-13.9256	-2.22062	0.043004
PITG_11321	Pi conserved hypothetical protein (1853 nt)	-15.4876	-2.71057	0.043061
PITG_13020	Pi inorganic phosphate transporter, putative (1428 nt)	-13.3409	2.333593	0.043179
PITG_08473	Pi conserved hypothetical protein (2967 nt)	-15.7948	-2.63789	0.043199
PITG_06715	Pi serine/threonine-protein phosphatase PP2A catalytic subunit (1037 nt)	-14.8651	2.28063	0.043245
PITG_12650	Pi Crinkler (CRN) family protein, pseudogene (2507 nt)	-10.8496	-2.02546	0.043335
PITG_01662	Pi conserved hypothetical protein (621 nt)	-14.9699	2.564223	0.043359
PITG_00336	Pi conserved hypothetical protein (3015 nt)	-17.4271	-3.36735	0.043463
PITG_03297	Pi conserved hypothetical protein (2244 nt)	-17.2531	3.21849	0.043463
PITG_09086	Pi conserved hypothetical protein (1263 nt)	-17.4632	-3.29525	0.043463
PITG_10473	Pi conserved hypothetical protein (1473 nt)	-17.4271	-3.36735	0.043463
PITG_16962	Pi hypothetical protein (615 nt)	-17.4271	-3.36735	0.043463
PITG_02251	Pi conserved hypothetical protein (420 nt)	-15.49	2.51552	0.043503
PITG_07915	Pi conserved hypothetical protein (2095 nt)	-16.7038	-2.85303	0.043591
PITG_05988	Pi hypothetical protein (452 nt)	-16.4264	-3.19362	0.043597
PITG_13672	Pi conserved hypothetical protein (1059 nt)	-14.6061	-2.37876	0.043606
PITG_06748	Pi myb-like DNA-binding protein, putative (2053 nt)	-13.4277	2.15412	0.043662
PITG_12854	Pi Mitochondrial Carrier (MC) Family (1014 nt)	-12.3157	-2.05687	0.043772
PITG_16272	Pi M96 mating-specific protein family (1792 nt)	-14.6367	-2.27176	0.043827
PITG_21442	Pi EF hand containing protein, putative (631 nt)	-16.5537	2.768568	0.043941
PITG_09995	Pi conserved hypothetical protein (1983 nt)	-16.5132	-3.13174	0.043964
PITG_12843	Pi rab proteins geranylgeranyltransferase component A, putative (1037 nt)	-14.66	-2.22481	0.043977
PITG_16795	Pi conserved hypothetical protein (2033 nt)	-14.747	2.288438	0.044146
PITG_02864	Pi conserved hypothetical protein (2682 nt)	-33.141	-33.7501	0.044228
PITG_04136	Pi conserved hypothetical protein (1644 nt)	-33.141	-33.7501	0.044228
PITG_04377	Pi conserved hypothetical protein (2048 nt)	-33.141	-33.7501	0.044228
PITG_06158	Pi conserved hypothetical protein (1241 nt)	-33.141	-33.7501	0.044228
PITG_06176	Pi conserved hypothetical protein (2960 nt)	-33.141	-33.7501	0.044228
PITG_07817	Pi conserved hypothetical protein (6441 nt)	-33.141	-33.7501	0.044228
PITG_08936	Pi hypothetical protein (2118 nt)	-33.141	-33.7501	0.044228
PITG_09303	Pi conserved hypothetical protein (583 nt)	-33.141	-33.7501	0.044228

PITG_10059	Pi conserved hypothetical protein (1483 nt)	-33.141	-33.7501	0.044228
PITG_11548	Pi conserved hypothetical protein (1535 nt)	-33.141	-33.7501	0.044228
PITG_12532	Pi conserved hypothetical protein (588 nt)	-33.141	-33.7501	0.044228
PITG_14050	Pi conserved hypothetical protein (807 nt)	-33.141	-33.7501	0.044228
PITG_20770	Pi protein kinase (747 nt)	-33.141	-33.7501	0.044228
PITG_21154	Pi conserved hypothetical protein (1440 nt)	-33.141	-33.7501	0.044228
PITG_23274	Pi crinkler (CRN) family protein, 5' partial (1476 nt)	-13.5976	-2.24791	0.044364
PITG_04043	Pi conserved hypothetical protein (1359 nt)	-14.0024	-2.26394	0.044561
PITG_21535	Pi conserved hypothetical protein (3847 nt)	-17.2645	3.198586	0.044623
PITG_15470	Pi conserved hypothetical protein (1371 nt)	-14.6236	-2.68667	0.044624
PITG_16605	Pi Crinkler (CRN) family protein, pseudogene (2513 nt)	-10.0123	-2.0347	0.044627
PITG_15582	Pi conserved hypothetical protein (9886 nt)	-16.2708	2.712138	0.044689
PITG_07087	Pi Major Facilitator Superfamily (MFS) (1425 nt)	-15.4807	2.65934	0.044693
PITG_09679	Pi conserved hypothetical protein (620 nt)	-14.1967	2.188312	0.044727
PITG_05447	Pi sporangia induced sperm flagellar protein (967 nt)	-15.6475	2.642025	0.04474
PITG_07973	Pi Voltage-gated Ion Channel (VIC) Superfamily (1558 nt)	-14.9242	-2.40069	0.044824
PITG_06178	Pi conserved hypothetical protein (1210 nt)	-17.3533	-3.52177	0.044914
PITG_22017	Pi Crinkler (CRN) family protein (536 nt)	-16.9374	-4.20362	0.044945
PITG_06325	Pi conserved hypothetical protein (1299 nt)	-10.6336	-2.01648	0.044981
PITG_00449	Pi conserved hypothetical protein (1134 nt)	-15.0874	2.222039	0.045063
PITG_09997	Pi phosphatidate cytidyltransferase, putative (1128 nt)	-14.844	-2.68648	0.045088
PITG_01290	Pi peptidyl-prolyl cis-trans isomerase C (762 nt)	-13.9355	-2.5792	0.045133
PITG_02842	Pi CDP-alcohol phosphatidyltransferase, putative (1754 nt)	-14.6532	-2.283	0.045248
PITG_16063	Pi conserved hypothetical protein (1501 nt)	-14.6507	-2.24356	0.045248
PITG_21528	Pi GAF domain-containing protein (2073 nt)	-14.5068	2.402638	0.045266
PITG_05182	Pi hypothetical protein (287 nt)	-15.3119	2.63374	0.045295
PITG_11906	Pi Proton-dependent Oligopeptide Transporter (POT) Family	-16.6716	-2.92422	0.045309
PITG_06640	Pi conserved hypothetical protein (1302 nt)	-15.1524	2.419855	0.045377
PITG_04658	Pi methylcrotonoyl-CoA carboxylase subunit alpha, putative	-15.4045	-2.5943	0.045393
PITG_09839	Pi conserved hypothetical protein (3126 nt)	-16.7091	2.9023	0.045614
PITG_08753	Pi tubulin-tyrosine ligase family, putative (1485 nt)	-16.7352	3.166944	0.045614
PITG_09192	Pi mannan endo-1,4-beta-mannosidase, putative (1387 nt)	-16.9394	3.4922	0.045614
PITG_00320	Pi conserved hypothetical protein (1593 nt)	-15.4984	-2.54436	0.045661
PITG_08042	Pi protein kinase (1669 nt)	-12.7002	-2.04955	0.045762
PITG_00973	Pi conserved hypothetical protein (1326 nt)	-14.458	-2.55767	0.045935
PITG_02128	Pi conserved hypothetical protein (8356 nt)	-16.157	2.455492	0.046161
PITG_15925	Pi conserved hypothetical protein (1834 nt)	-15.4916	-2.70524	0.046361
PITG_03652	Pi conserved hypothetical protein (2266 nt)	-16.2283	-2.66561	0.046507
PITG_12231	Pi phosphatidic acid phosphatase (1334 nt)	-13.1963	-2.09715	0.046551
PITG_05183	Pi hypothetical protein (625 nt)	-13.6574	2.124381	0.046648
PITG_22165	Pi conserved hypothetical protein (1306 nt)	-13.3737	-2.09324	0.046662
PITG_15518	Pi conserved hypothetical protein (1535 nt)	-14.7933	-2.2428	0.046703
PITG_10680	Pi conserved hypothetical protein (486 nt)	-13.0007	-2.22611	0.046725
PITG_00766	Pi conserved hypothetical protein (2056 nt)	-33.2128	-33.6064	0.046973
PITG_11049	Pi conserved hypothetical protein (1237 nt)	-33.2128	-33.6064	0.046973
PITG_20234	Pi conserved hypothetical protein (1138 nt)	-33.2128	-33.6064	0.046973
PITG_21688	Pi conserved hypothetical protein (2520 nt)	-33.2128	-33.6064	0.046973

PITG_04645	Pi conserved hypothetical protein (922 nt)	-13.4934	2.140951	0.047298
PITG_14639	Pi aminotransferase, putative (1949 nt)	-14.5144	2.210589	0.047306
PITG_09710	Pi conserved hypothetical protein (465 nt)	-14.7185	2.987738	0.047337
PITG_06727	Pi Voltage-gated Ion Channel (VIC) Superfamily (1441 nt)	-16.7965	3.030635	0.047383
PITG_17510	Pi hypothetical protein (626 nt)	-16.7965	3.030635	0.047383
PITG_02569	Pi Rab11 family GTPase, putative (1821 nt)	-16.8911	3.578077	0.047413
PITG_09016	Pi NADH ubiquinone oxidoreductase, putative (1031 nt)	-14.0642	-2.62646	0.047503
PITG_11183	Pi conserved hypothetical protein (2028 nt)	-14.9072	-2.38352	0.047567
PITG_20489	Pi mucin-like protein (2163 nt)	-11.6566	2.636592	0.047582
PITG_22848	Pi Crinkler (CRN) family protein (1146 nt)	-10.2096	-1.98942	0.047584
PITG_19128	Pi conserved hypothetical protein (1400 nt)	-14.3754	-2.26167	0.047603
PITG_04554	Pi conserved hypothetical protein (862 nt)	-17.4176	-3.38911	0.04762
PITG_06632	Pi conserved hypothetical protein (790 nt)	-17.4521	-3.32013	0.04762
PITG_15411	Pi conserved hypothetical protein (1101 nt)	-17.4176	-3.38911	0.04762
PITG_13324	Pi conserved hypothetical protein (1113 nt)	-11.3926	2.174326	0.047773
PITG_02209	Pi hypothetical protein (836 nt)	-15.2006	2.705747	0.047914
PITG_01296	Pi D-Tyr-tRNA(Tyr) deacylase (698 nt)	-15.7856	2.917336	0.048021
PITG_17328	Pi transmembrane protein, putative (738 nt)	-15.2569	2.23858	0.048073
PITG_05825	Pi conserved hypothetical protein (1258 nt)	-16.7332	-2.79193	0.048078
PITG_09040	Pi conserved hypothetical protein (317 nt)	-16.736	-2.78631	0.048078
PITG_17001	Pi conserved hypothetical protein (913 nt)	-14.7135	2.521977	0.048177
PITG_09742	Pi hypothetical protein (2594 nt)	-10.0604	1.986509	0.048208
PITG_19997	Pi transmembrane protein, putative (2844 nt)	-16.1733	2.428703	0.048425
PITG_04930	Pi conserved hypothetical protein (526 nt)	-17.3283	-3.57959	0.048546
PITG_09870	Pi metalloprotease family M13, putative (2034 nt)	-17.3283	-3.57959	0.048546
PITG_00138	Pi conserved hypothetical protein (525 nt)	-14.8426	-2.29214	0.048561
PITG_14112	Pi conserved hypothetical protein (965 nt)	-15.7024	2.390388	0.04861
PITG_01044	Pi DNA repair protein RAD50, putative (3843 nt)	-16.7307	-2.79753	0.04878
PITG_12529	Pi conserved hypothetical protein (432 nt)	-16.7307	-2.79753	0.04878
PITG_08974	Pi conserved hypothetical protein (4363 nt)	-16.4685	-3.22005	0.048796
PITG_12845	Pi conserved hypothetical protein (680 nt)	-16.2416	2.79498	0.048796
PITG_20490	Pi conserved hypothetical protein (928 nt)	-12.6522	2.638285	0.049161
PITG_23322	Pi hypothetical protein (1055 nt)	-14.7868	-2.46188	0.049192
PITG_01664	Pi conserved hypothetical protein (1463 nt)	-14.5499	-2.27247	0.049242
PITG_11524	Pi serine protease family S10, putative (1662 nt)	-12.9616	1.989785	0.049244
PITG_01440	Pi conserved hypothetical protein (1204 nt)	-33.2546	-33.5228	0.049284
PITG_01929	Pi conserved hypothetical protein (2803 nt)	-33.2546	-33.5228	0.049284
PITG_05523	Pi ubiquitin-specific protease, putative (2915 nt)	-33.2546	-33.5228	0.049284
PITG_08567	Pi conserved hypothetical protein (2527 nt)	-33.2546	-33.5228	0.049284
PITG_09005	Pi conserved hypothetical protein (1933 nt)	-33.2546	-33.5228	0.049284
PITG_09293	Pi GAF domain-containing protein (2362 nt)	-33.2546	-33.5228	0.049284
PITG_04337	Pi conserved hypothetical protein (480 nt)	-12.422	2.089604	0.049402
PITG_20117	Pi 3-ketodihydrosphingosine reductase, putative (1075 nt)	-15.077	-2.40667	0.04948
PITG_15818	Pi conserved hypothetical protein (1282 nt)	-14.9754	-2.35544	0.049546
PITG_15860	Pi hypothetical protein (985 nt)	-14.9046	2.418366	0.049598
PITG_11556	Pi conserved hypothetical protein (966 nt)	-16.1371	-2.75378	0.04966
PITG_15241	Pi conserved hypothetical protein (2148 nt)	-15.8266	3.040397	0.049714

PITG_19488	Pi protein-S-isoprenylcysteine O-methyltransferase (823 nt)	-14.2095	-2.21352	0.049741
PITG_09064	Pi conserved hypothetical protein (1353 nt)	-17.1366	-3.82269	0.049844
PITG_19154	Pi conserved hypothetical protein (672 nt)	-17.1896	3.400178	0.049883
PITG_12224	Pi conserved hypothetical protein (928 nt)	-16.0731	-2.70315	0.049907
PITG_20156	Pi cAMP-dependent protein kinase catalytic subunit, putative	-14.254	2.050487	0.049907
PITG_03712	Pi elongation factor 3, putative (3342 nt)	-9.98881	1.967848	0.049969
PITG_14728	Pi conserved hypothetical protein (1368 nt)	-15.3732	-2.35551	0.050112
PITG_02521	Pi conserved hypothetical protein (1199 nt)	-16.6354	2.585091	0.050202
PITG_11652	Pi conserved hypothetical protein (2815 nt)	-16.6224	2.611013	0.050202
PITG_17036	Pi conserved hypothetical protein (1052 nt)	-17.1637	-3.77354	0.050202
PITG_19972	Pi conserved hypothetical protein (1973 nt)	-16.6224	2.611013	0.050202
PITG_16056	Pi cyclin-dependent kinase-like, putative (1947 nt)	-15.675	3.261153	0.050501
PITG_16973	Pi dynein light chain (449 nt)	-13.1696	2.043222	0.050559
PITG_13160	Pi conserved hypothetical protein (930 nt)	-17.5272	4.075796	0.050562
PITG_07034	Pi myosin-like protein (4211 nt)	-17.1137	-3.8679	0.050573
PITG_15542	Pi conserved hypothetical protein (805 nt)	-15.333	-2.43975	0.050695
PITG_15921	Pi hypothetical protein (663 nt)	-16.0332	-2.86905	0.050699
PITG_00709	Pi conserved hypothetical protein (2184 nt)	-16.0945	-2.75011	0.050734
PITG_01848	Pi dual specificity phosphatase, putative (2488 nt)	-15.5698	-2.40101	0.050738
PITG_12235	Pi makorin-like protein (1010 nt)	-14.9473	-2.35454	0.050739
PITG_11883	Pi conserved hypothetical protein (1266 nt)	-15.3636	2.526116	0.050862
PITG_19369	Pi conserved hypothetical protein (780 nt)	-16.5439	-3.0702	0.050912
PITG_00330	Pi phosphatidylinositol-4-phosphate-5-kinase (PI-PIPK-B) (37	-16.659	-2.95403	0.051063
PITG_00257	Pi conserved hypothetical protein (2512 nt)	-14.7131	-2.25826	0.051223
PITG_01980	Pi conserved hypothetical protein (418 nt)	-15.9098	2.323103	0.051312
PITG_02362	Pi P-type ATPase (P-ATPase) Superfamily (2973 nt)	-14.8902	2.380531	0.051468
PITG_13226	Pi conserved hypothetical protein (1765 nt)	-13.5806	-2.44459	0.051471
PITG_22765	Pi conserved hypothetical protein (937 nt)	-13.4947	2.017876	0.051485
PITG_14533	Pi conserved hypothetical protein (677 nt)	-14.3267	2.226415	0.051486
PITG_21211	Pi conserved hypothetical protein (1583 nt)	-15.5528	-2.36662	0.051635
PITG_16257	Pi conserved hypothetical protein (1794 nt)	-15.1108	-2.33903	0.051635
PITG_05781	Pi eukaryotic translation initiation factor 2-alpha kinase, putative	-13.9092	-2.1326	0.05184
PITG_17285	Pi conserved hypothetical protein (1388 nt)	-16.8046	3.731615	0.051878
PITG_17628	Pi conserved hypothetical protein (1129 nt)	-15.014	2.182512	0.051921
PITG_07582	Pi conserved hypothetical protein (1205 nt)	-16.683	3.490788	0.051986
PITG_08803	Pi mannitol dehydrogenase, putative (4248 nt)	-17.2917	3.161799	0.052051
PITG_20631	Pi conserved hypothetical protein (813 nt)	-17.2917	3.161799	0.052051
PITG_07905	Pi xylose isomerase 1 (1410 nt)	-14.9598	-2.44624	0.05231
PITG_19604	Pi elicitin-like protein (2043 nt)	-16.3605	2.862143	0.052348
PITG_06606	Pi UDP-N-acetylglucosamine-peptide N-acetylglucosaminyltr	-16.633	2.595352	0.052386
PITG_08363	Pi conserved hypothetical protein (5034 nt)	-16.633	2.595352	0.052386
PITG_08775	Pi hypothetical protein (1536 nt)	-15.8638	2.282204	0.052411
PITG_08465	Pi conserved hypothetical protein (1183 nt)	-11.6756	2.396807	0.052455
PITG_08605	Pi conserved hypothetical protein (1206 nt)	-16.3109	-2.49529	0.052496
PITG_08916	Pi kinesin-like protein (2333 nt)	-16.4877	3.028118	0.052496
PITG_17006	Pi hypothetical protein (617 nt)	-16.5003	-3.05382	0.052496
PITG_04570	Pi conserved hypothetical protein (1599 nt)	-14.5024	-2.19977	0.052504

PITG_01250	Pi regulator of chromosome condensation (RCC1)-like protei	-15.328	-2.38555	0.052619
PITG_18250	Pi conserved hypothetical protein (933 nt)	-17.4495	-3.32861	0.052706
PITG_05303	Pi conserved hypothetical protein (1083 nt)	-11.4559	-1.95529	0.052886
PITG_00697	Pi conserved hypothetical protein (643 nt)	-13.7902	2.060488	0.05289
PITG_04612	Pi conserved hypothetical protein (2820 nt)	-15.8099	-2.60945	0.052931
PITG_03761	Pi conserved hypothetical protein (1349 nt)	-15.8391	-2.54942	0.052938
PITG_03296	Pi conserved hypothetical protein (6272 nt)	-16.7797	2.762404	0.052988
PITG_00750	Pi Zinc (Zn <sup>2+</sup> )-Iron (Fe <sup>2+</sup> ) Permease (ZIP) Family (984 nt)	-15.6299	2.736657	0.053001
PITG_05642	Pi WD domain-containing protein, putative (1283 nt)	-15.9895	2.772733	0.053072
PITG_13558	Pi ATP-binding Cassette (ABC) Superfamily (4053 nt)	-14.8243	-2.44158	0.053092
PITG_07638	Pi phospholipase A2, putative (933 nt)	-12.7161	-2.16438	0.053114
PITG_16200	Pi conserved hypothetical protein (1905 nt)	-16.7725	-2.71734	0.053127
PITG_06272	Pi conserved hypothetical protein (1471 nt)	-13.4839	2.041049	0.053174
PITG_19364	Pi pantothenate kinase, putative (1351 nt)	-17.4702	-3.28085	0.053235
PITG_00290	Pi conserved hypothetical protein (504 nt)	-16.1011	2.805491	0.053261
PITG_00148	Pi programmed cell death 6-interacting protein, putative (26	-16.5683	-3.02188	0.053288
PITG_09375	Pi cGMP-dependent protein kinase, putative (4972 nt)	-16.4046	2.768089	0.053288
PITG_15891	Pi palmitoyltransferase, putative (1557 nt)	-16.5683	-3.02188	0.053288
PITG_06144	Pi conserved hypothetical protein (421 nt)	-16.3627	2.584085	0.053288
PITG_07128	Pi conserved hypothetical protein (1116 nt)	-16.1805	2.410515	0.0533
PITG_05218	Pi ATP-binding Cassette (ABC) Superfamily (1692 nt)	-17.4161	-3.39593	0.053368
PITG_07395	Pi hypothetical protein (563 nt)	-17.4161	-3.39593	0.053368
PITG_16918	Pi conserved hypothetical protein (2688 nt)	-17.4161	-3.39593	0.053368
PITG_07117	Pi ATP-binding Cassette (ABC) Superfamily (1960 nt)	-16.9917	-4.0962	0.053449
PITG_06887	Pi myosin-like protein (1178 nt)	-15.5576	-2.42547	0.053455
PITG_17790	Pi 5-aminolevulinat synthase, putative (1828 nt)	-13.8749	2.045972	0.05348
PITG_09637	Pi riboflavin biosynthesis protein ribBA (634 nt)	-15.1445	-2.49316	0.053706
PITG_17949	Pi PNS1-like protein (1539 nt)	-12.5744	-2.20561	0.053741
PITG_12156	Pi Annexin (Annexin) Family (1037 nt)	-15.8051	-2.54189	0.05382
PITG_10490	Pi hypothetical protein (1293 nt)	-15.3643	2.40977	0.053823
PITG_17003	Pi choline/ethanolamine kinase, putative (1129 nt)	-15.364	-2.37567	0.053823
PITG_01592	Pi conserved hypothetical protein (554 nt)	-15.8342	-2.48417	0.053828
PITG_20503	Pi conserved hypothetical protein (1925 nt)	-15.7222	-2.62293	0.053858
PITG_01413	Pi conserved hypothetical protein (1566 nt)	-16.5997	3.118131	0.053861
PITG_15870	Pi conserved hypothetical protein (903 nt)	-15.5724	2.276377	0.053864
PITG_06660	Pi peroxisome biogenesis factor, putative (4144 nt)	-16.7277	-2.80739	0.053875
PITG_18354	Pi succinate dehydrogenase flavoprotein subunit, mitochond	-13.2879	2.114999	0.053949
PITG_04076	Pi conserved hypothetical protein (714 nt)	-14.6104	-2.47381	0.053965
PITG_20488	Pi conserved hypothetical protein (403 nt)	-12.9359	2.381474	0.053999
PITG_03832	Pi mitochondrial Rho GTPase, putative (2358 nt)	-15.3926	-2.25432	0.054012
PITG_00177	Pi allantoicase (1194 nt)	-15.9285	2.281576	0.054032
PITG_05444	Pi conserved hypothetical protein (12213 nt)	-15.9285	2.281576	0.054032
PITG_09081	Pi phosphatidylinositol-4-phosphate 5-kinase, putative (727	-16.3099	2.383546	0.054093
PITG_03988	Pi conserved hypothetical protein (2026 nt)	-14.4589	-2.13405	0.054146
PITG_08320	Pi conserved hypothetical protein (481 nt)	-15.7918	-3.22414	0.054208
PITG_21872	Pi myosin-like protein (1703 nt)	-13.463	-2.09233	0.054235
PITG_07228	Pi conserved hypothetical protein (869 nt)	-15.5676	2.470627	0.054511

PITG_17876	Pi transmembrane protein, putative (1588 nt)	-15.5984	-2.41147	0.054511
PITG_17257	Pi carbohydrate esterase, putative (2028 nt)	-11.7829	-2.14615	0.054513
PITG_01050	Pi Amino Acid-Polyamine-Organocation (APC) Family (1668 r	-17.5178	-3.18642	0.054523
PITG_08140	Pi hypothetical protein (1142 nt)	-16.0053	-2.92167	0.05461
PITG_03931	Pi conserved hypothetical protein (480 nt)	-15.9843	2.573136	0.054712
PITG_12988	Pi conserved hypothetical protein (2649 nt)	-16.5238	-3.11004	0.054928
PITG_17833	Pi hypothetical protein (632 nt)	-16.5238	-3.11004	0.054928
PITG_01964	Pi conserved hypothetical protein (676 nt)	-14.3165	-2.26227	0.054997
PITG_15985	Pi hypothetical protein (1063 nt)	-12.6604	2.457347	0.055017
PITG_05112	Pi protein kinase, putative (2275 nt)	-13.6691	-2.13146	0.05512
PITG_03514	Pi DNA ligase, putative (2916 nt)	-17.4941	-3.2342	0.055174
PITG_05173	Pi conserved hypothetical protein (1588 nt)	-17.4941	-3.2342	0.055174
PITG_13763	Pi flavodoxin-like protein (725 nt)	-11.9165	2.126133	0.055244
PITG_17599	Pi poly [ADP-ribose] polymerase, putative (6232 nt)	-15.1741	-2.77084	0.055345
PITG_07792	Pi ATP synthase subunit delta', putative (510 nt)	-10.8319	1.906793	0.055359
PITG_02595	Pi conserved hypothetical protein (4154 nt)	-17.2508	3.271735	0.055418
PITG_06494	Pi conserved hypothetical protein (1341 nt)	-17.2508	3.271735	0.055418
PITG_10173	Pi NADPH-cytochrome P450 reductase, putative (2371 nt)	-17.3872	-3.46086	0.055418
PITG_12959	Pi conserved hypothetical protein (1061 nt)	-17.2508	3.271735	0.055418
PITG_13386	Pi conserved hypothetical protein (1314 nt)	-14.4572	2.144675	0.055545
PITG_12531	Pi conserved hypothetical protein (231 nt)	-13.4213	-2.15434	0.055562
PITG_12840	Pi conserved hypothetical protein (1923 nt)	-16.111	-2.71739	0.055582
PITG_15862	Pi conserved hypothetical protein (927 nt)	-15.9451	2.471067	0.055582
PITG_21886	Pi histidyl-tRNA synthetase (2747 nt)	-15.0203	2.169774	0.055583
PITG_16041	Pi conserved hypothetical protein (1535 nt)	-13.7165	-2.22396	0.055735
PITG_04640	Pi translation elongation factor 1-alpha, putative (1448 nt)	-9.57919	2.04225	0.055759
PITG_18375	Pi UDP-glucose 6-dehydrogenase (1490 nt)	-14.0975	2.075109	0.055799
PITG_00698	Pi conserved hypothetical protein (997 nt)	-15.6068	2.390817	0.055859
PITG_03408	Pi conserved hypothetical protein (4564 nt)	-15.3919	-2.25593	0.055937
PITG_20987	Pi conserved hypothetical protein (455 nt)	-16.8042	2.713115	0.055963
PITG_01239	Pi conserved hypothetical protein (650 nt)	-13.872	-2.02478	0.05608
PITG_00939	Pi conserved hypothetical protein (2435 nt)	-15.2925	-2.80244	0.056147
PITG_10459	Pi conserved hypothetical protein (661 nt)	-10.4408	1.96035	0.056166
PITG_13473	Pi Major Facilitator Superfamily (MFS) (1559 nt)	-15.1026	2.697783	0.0562
PITG_12577	Pi sporangia induced dynein heavy chain (13723 nt)	-15.3428	2.292096	0.056211
PITG_05277	Pi conserved hypothetical protein (1301 nt)	-15.5999	-2.40939	0.056389
PITG_00334	Pi conserved hypothetical protein (3697 nt)	-13.242	-2.00589	0.056474
PITG_08657	Pi conserved hypothetical protein (1925 nt)	-13.8201	2.478007	0.056476
PITG_05176	Pi histone deacetylase, putative (2432 nt)	-15.8443	-2.62053	0.056539
PITG_08717	Pi conserved hypothetical protein (357 nt)	-16.4204	2.737951	0.05655
PITG_03245	Pi conserved hypothetical protein (1426 nt)	-13.4837	-2.00214	0.056555
PITG_17646	Pi conserved hypothetical protein (1773 nt)	-16.4801	3.880898	0.056561
PITG_02085	Pi ATP-binding Cassette (ABC) Superfamily (4124 nt)	-16.6526	2.545118	0.056723
PITG_00670	Pi conserved hypothetical protein (998 nt)	-16.7914	-2.67555	0.056723
PITG_03174	Pi conserved hypothetical protein (1364 nt)	-33.2442	-33.5437	0.056804
PITG_13436	Pi conserved hypothetical protein (463 nt)	-33.2442	-33.5437	0.056804
PITG_13484	Pi crinkler (CRN) domain-containing protein (1987 nt)	-33.2442	-33.5437	0.056804



PITG_19674	Pi conserved hypothetical protein (2583 nt)	-33.2442	-33.5437	0.056804
PITG_20609	Pi conserved hypothetical protein (1579 nt)	-15.5923	2.232883	0.056869
PITG_08934	Pi hypothetical protein (558 nt)	-15.3592	2.169608	0.056912
PITG_06702	Pi conserved hypothetical protein (1540 nt)	-14.3427	-2.11138	0.056963
PITG_09211	Pi conserved hypothetical protein (11748 nt)	-14.8153	-2.63079	0.057232
PITG_21257	Pi conserved hypothetical protein (721 nt)	-13.4643	-2.26607	0.057289
PITG_06919	Pi conserved hypothetical protein (1279 nt)	-15.0786	-2.40371	0.057295
PITG_03952	Pi conserved hypothetical protein (906 nt)	-15.5646	-2.5559	0.057318
PITG_00328	Pi conserved hypothetical protein (1449 nt)	-33.1907	-33.6508	0.057339
PITG_05217	Pi ATP-binding Cassette (ABC) Superfamily (1851 nt)	-33.1907	-33.6508	0.057339
PITG_05696	Pi NAD-dependent glycerol-3-phosphate dehydrogenase (12	-33.1907	-33.6508	0.057339
PITG_12237	Pi hypothetical protein (2161 nt)	-33.1907	-33.6508	0.057339
PITG_13285	Pi hypothetical protein (1188 nt)	-33.1907	-33.6508	0.057339
PITG_13619	Pi conserved hypothetical protein (650 nt)	-33.1907	-33.6508	0.057339
PITG_21552	Pi sulfhydryl oxidase, putative (1480 nt)	-33.1907	-33.6508	0.057339
PITG_22378	Pi conserved hypothetical protein (1441 nt)	-33.1907	-33.6508	0.057339
PITG_19862	Pi conserved hypothetical protein (2445 nt)	-16.3519	2.600595	0.057384
PITG_03890	Pi conserved hypothetical protein (3515 nt)	-16.1824	2.416315	0.057426
PITG_03866	Pi hypothetical protein (1045 nt)	-16.9512	3.104868	0.05749
PITG_06915	Pi flagella associated protein (1619 nt)	-16.9512	3.104868	0.05749
PITG_17684	Pi conserved hypothetical protein (921 nt)	-16.7846	-2.68971	0.05749
PITG_11940	Pi chitin-binding protein, putative (816 nt)	-15.8767	2.943483	0.057512
PITG_03888	Pi conserved hypothetical protein (886 nt)	-14.9835	-2.28207	0.057618
PITG_06274	Pi ubiquitin-specific protease, putative (2090 nt)	-14.9766	-2.29586	0.057618
PITG_08787	Pi crinkler (CRN) family protein, pseudogene (849 nt)	-10.8879	-1.88038	0.057814
PITG_01644	Pi sodium/hydrogen exchanger, putative (3211 nt)	-15.0194	2.266046	0.058315
PITG_03456	Pi GPI ethanolamine phosphate transferase, putative (3069 r	-16.0893	-2.97111	0.058346
PITG_08832	Pi conserved hypothetical protein (856 nt)	-11.9286	1.873336	0.058474
PITG_08395	Pi conserved hypothetical protein (1842 nt)	-14.9879	2.658573	0.058527
PITG_15069	Pi conserved hypothetical protein (1006 nt)	-10.2651	2.032111	0.058531
PITG_19125	Pi conserved hypothetical protein (1393 nt)	-15.5429	-2.52941	0.058637
PITG_16433	Pi conserved hypothetical protein (1541 nt)	-14.2715	-2.08873	0.058746
PITG_21908	Pi HECT E3 ubiquitin ligase, putative (1985 nt)	-15.4176	-2.20432	0.058858
PITG_12110	Pi peroxisomal targeting signal 1 receptor, putative (2251 nt)	-15.3913	-2.25771	0.058891
PITG_03369	Pi conserved hypothetical protein (1287 nt)	-14.5005	-2.08986	0.05895
PITG_06844	Pi hypothetical protein (1403 nt)	-16.1871	-2.65314	0.059133
PITG_08639	Pi conserved hypothetical protein (585 nt)	-15.0258	3.20718	0.059213
PITG_00925	Pi conserved hypothetical protein (1055 nt)	-14.1134	-2.21989	0.059545
PITG_07093	Pi conserved hypothetical protein (1104 nt)	-15.1678	2.060467	0.059588
PITG_14584	Pi microtubule -associated protein EB1 (1049 nt)	-13.385	1.964342	0.059624
PITG_17275	Pi conserved hypothetical protein (2126 nt)	-12.1234	-1.92034	0.059664
PITG_05068	Pi secreted RxLR effector peptide, putative (378 nt)	-15.6491	2.407335	0.059675
PITG_08067	Pi Crinkler (CRN) family protein, pseudogene (1176 nt)	-12.8082	-1.92696	0.059856
PITG_13539	Pi hypothetical protein (927 nt)	-16.4778	-3.08658	0.059892
PITG_14097	Pi conserved hypothetical protein (1762 nt)	-14.5978	-2.13432	0.059921
PITG_14197	Pi conserved hypothetical protein (1160 nt)	-16.3508	-2.41552	0.059929
PITG_03577	Pi vacuolar protein sorting-associated protein VTA1 (1524 nt)	-13.296	-2.08823	0.05994

PITG_00830	Pi conserved hypothetical protein (798 nt)	-16.1678	-2.6071	0.060038
PITG_15191	Pi conserved hypothetical protein (990 nt)	-16.1848	-2.57306	0.060038
PITG_00142	Pi ribosome biogenesis protein NEP1, putative (870 nt)	-16.0412	2.451461	0.060038
PITG_01871	Pi protein kinase, putative (2817 nt)	-15.231	-2.2124	0.060245
PITG_16760	Pi elongation of very long chain fatty acids protein, putative	-13.5746	2.301028	0.060303
PITG_08154	Pi conserved hypothetical protein (1186 nt)	-12.5155	-2.44118	0.060469
PITG_00981	Pi conserved hypothetical protein (1637 nt)	-15.3339	2.618535	0.060598
PITG_03886	Pi equilibrative Nucleoside Transporter (ENT) family (1518 nt)	-15.1726	2.051735	0.060621
PITG_15961	Pi conserved hypothetical protein (3683 nt)	-15.2384	-2.1398	0.060621
PITG_10981	Pi conserved hypothetical protein (3176 nt)	-16.6834	2.492819	0.060621
PITG_15550	Pi conserved hypothetical protein (987 nt)	-15.1363	-2.23314	0.06066
PITG_16015	Pi ribonuclease, putative (1049 nt)	-16.2496	-2.62942	0.060769
PITG_15731	Pi ATP-binding Cassette (ABC) Superfamily (4094 nt)	-14.1094	-2.1257	0.060814
PITG_21289	Pi polysaccharide lyase, putative (694 nt)	-16.5543	-3.04857	0.060863
PITG_02480	Pi conserved hypothetical protein (981 nt)	-14.9176	-2.54039	0.060877
PITG_02059	Pi conserved hypothetical protein (370 nt)	-15.6734	2.834368	0.060923
PITG_12514	Pi bifunctional aspartokinase/homoserine dehydrogenase, p	-16.1511	-2.63764	0.061144
PITG_10885	Pi conserved hypothetical protein (1708 nt)	-15.5483	-2.44507	0.061206
PITG_11700	Pi conserved hypothetical protein (1427 nt)	-14.3879	2.117289	0.061221
PITG_21172	Pi protein phosphatase 1E, putative (2060 nt)	-13.9879	-2.03509	0.061327
PITG_02364	Pi P-type ATPase (P-ATPase) Superfamily (2332 nt)	-14.9004	2.197233	0.061409
PITG_01083	Pi conserved hypothetical protein (2466 nt)	-16.7796	-2.70245	0.061421
PITG_21480	Pi conserved hypothetical protein (605 nt)	-16.8075	-2.64668	0.061421
PITG_18980	Pi hypothetical protein (3407 nt)	-16.6105	-2.93736	0.061536
PITG_18707	Pi glycerol-3-phosphate O-acyltransferase, putative (2302 nt)	-14.7489	-2.23669	0.061598
PITG_01154	Pi gamma-tubulin complex component, putative (3261 nt)	-16.5639	-3.03	0.061661
PITG_13616	Pi conserved hypothetical protein (983 nt)	-13.9277	-2.0915	0.061706
PITG_00756	Pi carboxypeptidase, putative (1449 nt)	-14.1783	-2.27906	0.061871
PITG_03715	Pi conserved hypothetical protein (1000 nt)	-14.6087	-2.11214	0.061891
PITG_06476	Pi carbohydrate-binding protein, putative (1213 nt)	-14.7038	-2.52707	0.061986
PITG_22816	Pi secreted RxLR effector peptide, putative (246 nt)	-15.2962	2.167612	0.062197
PITG_18787	Pi conserved hypothetical protein (1713 nt)	-13.3764	-2.04906	0.062517
PITG_04922	Pi protein kinase (1188 nt)	-16.7738	3.443254	0.062539
PITG_04568	Pi protein kinase (2281 nt)	-14.828	-2.12595	0.062548
PITG_01352	Pi conserved hypothetical protein (987 nt)	-14.0535	2.349212	0.06271
PITG_18174	Pi cleavage induced hypothetical protein (2413 nt)	-15.1237	-2.31338	0.062741
PITG_06873	Pi aspartyl-tRNA synthetase, putative (754 nt)	-16.0592	-2.9141	0.062987
PITG_19907	Pi Rab21/Rab5 family GTPase, putative (908 nt)	-12.6451	-1.87606	0.063086
PITG_02923	Pi conserved hypothetical protein (2058 nt)	-13.3345	-1.93399	0.063111
PITG_16068	Pi conserved hypothetical protein (744 nt)	-14.4861	-2.4085	0.063167
PITG_13299	Pi conserved hypothetical protein (1580 nt)	-16.3424	2.580235	0.063424
PITG_04877	Pi oxidase, putative (1849 nt)	-17.4847	-3.25779	0.063424
PITG_18320	Pi conserved hypothetical protein (925 nt)	-17.4847	-3.25779	0.063424
PITG_17771	Pi conserved hypothetical protein (798 nt)	-15.8317	2.98459	0.063545
PITG_16904	Pi protein kinase, putative (2597 nt)	-15.6272	-2.3555	0.063695
PITG_11963	Pi ATP-binding Cassette (ABC) Superfamily (4113 nt)	-16.8128	3.015167	0.063858
PITG_10518	Pi bloom syndrome protein (3969 nt)	-17.4516	-3.33119	0.064015

PITG_08627	Pi conserved hypothetical protein (691 nt)	-16.8141	2.693605	0.064055
PITG_21114	Pi conserved hypothetical protein (1530 nt)	-15.813	-2.6068	0.064159
PITG_05411	Pi conserved hypothetical protein (1120 nt)	-15.8596	-2.59115	0.064164
PITG_08301	Pi conserved hypothetical protein (1306 nt)	-15.4304	-2.1786	0.064233
PITG_01789	Pi conserved hypothetical protein (1283 nt)	-15.9011	-2.42511	0.064454
PITG_03302	Pi conserved hypothetical protein (810 nt)	-14.9513	2.082463	0.064527
PITG_10421	Pi conserved hypothetical protein (2203 nt)	-16.8377	2.96691	0.064684
PITG_19869	Pi serine/threonine protein kinase (1548 nt)	-16.8377	2.96691	0.064684
PITG_11617	Pi alkylated DNA repair protein alkB (928 nt)	-17.4186	-3.39752	0.064775
PITG_13774	Pi conserved hypothetical protein (3318 nt)	-17.4186	-3.39752	0.064775
PITG_21926	Pi conserved hypothetical protein (718 nt)	-14.3408	-2.41751	0.06481
PITG_00523	Pi conserved hypothetical protein (723 nt)	-13.8595	1.928104	0.064834
PITG_10079	Pi conserved hypothetical protein (1312 nt)	-15.4139	2.875148	0.064874
PITG_13346	Pi conserved hypothetical protein (1176 nt)	-16.6118	2.666745	0.065064
PITG_18815	Pi conserved hypothetical protein (951 nt)	-16.729	-2.8129	0.065064
PITG_04909	Pi conserved hypothetical protein (596 nt)	-13.9137	1.977591	0.065067
PITG_00886	Pi conserved hypothetical protein (802 nt)	-14.624	2.100248	0.065096
PITG_03111	Pi conserved hypothetical protein (1474 nt)	-16.3276	-2.46576	0.065215
PITG_10772	Pi putative GPI-anchored elicitor INL11b-like protein (570 nt)	-14.4596	2.149852	0.065274
PITG_12872	Pi MtN3-like protein (974 nt)	-15.8569	-3.09328	0.065441
PITG_12809	Pi phospholipase D, Pi-sPLD-like-11 (1798 nt)	-16.8061	-2.65236	0.065516
PITG_14272	Pi hypothetical protein (1775 nt)	-16.8061	-2.65236	0.065516
PITG_05212	Pi Crinkler (CRN) family protein, missing secretion signal pep	-9.98511	-1.9478	0.065531
PITG_13171	Pi conserved hypothetical protein (1722 nt)	-13.6892	2.135695	0.065614
PITG_17778	Pi calcium/calmodulin-dependent protein kinase II (1431 nt)	-13.894	-2.22371	0.065615
PITG_21302	Pi conserved hypothetical protein (513 nt)	-17.0783	3.222337	0.065683
PITG_14829	Pi conserved hypothetical protein (649 nt)	-15.9795	-3.07644	0.065738
PITG_13728	Pi NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, r	-12.0582	1.882755	0.065744
PITG_22680	Pi conserved hypothetical protein (318 nt)	-13.2028	2.480595	0.065778
PITG_20311	Pi conserved hypothetical protein (501 nt)	-14.855	-2.21628	0.065907
PITG_01067	Pi conserved hypothetical protein (2401 nt)	-15.3753	2.227023	0.06608
PITG_10989	Pi down syndrome critical region protein 3 (1808 nt)	-13.7923	1.927596	0.066296
PITG_08671	Pi conserved hypothetical protein (340 nt)	-12.6347	1.889295	0.066319
PITG_12356	Pi conserved hypothetical protein (843 nt)	-14.8694	-2.13838	0.066393
PITG_14355	Pi trans-1,2-dihydrobenzene-1,2-diol dehydrogenase, putativ	-15.7572	-2.82878	0.066401
PITG_11226	Pi conserved hypothetical protein (1839 nt)	-12.7339	1.848377	0.066714
PITG_16026	Pi conserved hypothetical protein (1171 nt)	-15.6714	-2.89972	0.066925
PITG_21006	Pi O-phosphoserine-tRNA(Sec) selenium transferase, putative	-14.9733	-2.19956	0.067007
PITG_07327	Pi H/ACA ribonucleoprotein complex non-core subunit NAF1	-16.5476	-2.95332	0.067036
PITG_09261	Pi Equilibrative Nucleoside Transporter (ENT) Family (1356 n	-15.8208	-2.50971	0.067158
PITG_07277	Pi exopolysaccharide phosphotransferase, putative (1639 nt)	-15.0737	2.110598	0.06719
PITG_14478	Pi NmrA-like family protein, putative (802 nt)	-13.6188	-1.95932	0.067219
PITG_11862	Pi conserved hypothetical protein (1503 nt)	-16.817	-2.62435	0.067337
PITG_02249	Pi hypothetical protein (415 nt)	-15.419	2.214317	0.067423
PITG_10768	Pi conserved hypothetical protein (972 nt)	-16.0568	2.427345	0.067552
PITG_19459	Pi protein kinase (1234 nt)	-16.1854	-2.6581	0.067552
PITG_05687	Pi conserved hypothetical protein (726 nt)	-15.6405	-2.3281	0.067595

PITG_18203	Pi avirulence-associated protein 3.4, putative (3419 nt)	-15.5818	2.149119	0.06775
PITG_19320	Pi Crinkler (CRN) family protein (846 nt)	-12.5691	-2.08149	0.067856
PITG_02123	Pi hypothetical protein (1595 nt)	-16.2311	2.324684	0.067958
PITG_09642	Pi conserved hypothetical protein (506 nt)	-14.9813	-2.18349	0.068141
PITG_00988	Pi myb-like DNA-binding protein, putative (1056 nt)	-16.7063	2.439597	0.068173
PITG_04231	Pi conserved hypothetical protein (1248 nt)	-17.0623	3.251661	0.068173
PITG_09286	Pi conserved hypothetical protein (1312 nt)	-16.852	-2.55477	0.068173
PITG_15052	Pi conserved hypothetical protein (1236 nt)	-17.0623	3.251661	0.068173
PITG_01802	Pi conserved hypothetical protein (2790 nt)	-17.5753	-3.07134	0.068216
PITG_04593	Pi conserved hypothetical protein (1849 nt)	-17.5753	-3.07134	0.068216
PITG_08558	Pi pectin lyase, putative (2571 nt)	-17.5959	-3.03018	0.068216
PITG_13617	Pi caltractin (633 nt)	-11.5496	1.804357	0.068312
PITG_13805	Pi conserved hypothetical protein (1584 nt)	-15.6989	2.595625	0.068386
PITG_01318	Pi peptidyl-prolyl cis-trans isomerase, putative (1359 nt)	-12.9435	1.935943	0.068443
PITG_07727	Pi conserved hypothetical protein (693 nt)	-15.069	-2.30581	0.068598
PITG_14362	Pi vacuolar proton translocating ATPase A subunit, putative (	-13.3691	1.898288	0.068664
PITG_02818	Pi conserved hypothetical protein (3640 nt)	-16.4009	2.499468	0.068688
PITG_09277	Pi conserved hypothetical protein (1076 nt)	-14.882	-2.16187	0.068697
PITG_10649	Pi conserved hypothetical protein (1782 nt)	-11.9643	-1.80677	0.068992
PITG_07912	Pi Polycystin Cation Channel (PCC) Family (2838 nt)	-16.7266	2.400789	0.069016
PITG_16863	Pi conserved hypothetical protein (1302 nt)	-16.8393	-2.58073	0.069016
PITG_21451	Pi conserved hypothetical protein (4362 nt)	-16.7266	2.400789	0.069016
PITG_09381	Pi conserved hypothetical protein (921 nt)	-15.3585	-2.3927	0.069027
PITG_01605	Pi serine palmitoyltransferase, putative (1455 nt)	-15.8414	-2.54963	0.069195
PITG_08864	Pi conserved hypothetical protein (2365 nt)	-15.6381	2.559236	0.069323
PITG_07715	Pi ATP-binding Cassette (ABC) Superfamily (3840 nt)	-16.0188	2.323628	0.069508
PITG_18714	Pi intraflagellar Transport protein 80 (2304 nt)	-16.2706	2.230361	0.069614
PITG_09015	Pi NADH ubiquinone oxidoreductase, putative (846 nt)	-12.2322	1.811705	0.069785
PITG_09922	Pi conserved hypothetical protein (938 nt)	-15.5992	2.115252	0.069869
PITG_18835	Pi crinkler (CRN) family protein, 5' partial (981 nt)	-15.253	-2.16838	0.069878
PITG_02767	Pi cysteine dioxygenase, putative (736 nt)	-14.4729	-2.29963	0.070038
PITG_05139	Pi hypothetical protein (470 nt)	-14.6927	-2.11569	0.070068
PITG_17786	Pi argininosuccinate lyase (1386 nt)	-13.4562	2.046199	0.070103
PITG_05819	Pi conserved hypothetical protein (348 nt)	-15.3287	2.100128	0.070399
PITG_00563	Pi hypothetical protein (1348 nt)	-14.9981	-2.25515	0.070438
PITG_13409	Pi serine protease family S33, putative (1986 nt)	-16.391	2.219812	0.07044
PITG_01003	Pi conserved hypothetical protein (2352 nt)	-16.3725	-2.37337	0.070547
PITG_11496	Pi conserved hypothetical protein (2009 nt)	-14.5329	1.943897	0.070635
PITG_20682	Pi ATP-binding Cassette (ABC) Superfamily (1965 nt)	-16.4731	-3.20909	0.070636
PITG_19303	Pi conserved hypothetical protein (1424 nt)	-12.3424	-2.59117	0.070638
PITG_12160	Pi protein kinase, putative (1510 nt)	-15.4426	-2.15537	0.070691
PITG_15551	Pi hypothetical protein (517 nt)	-13.8688	-2.09125	0.070691
PITG_00393	Pi conserved hypothetical protein (880 nt)	-16.8765	2.879246	0.070721
PITG_19361	Pi myb-like DNA-binding protein, putative (1223 nt)	-13.2888	-2.05394	0.070963
PITG_11019	Pi conserved hypothetical protein (1664 nt)	-13.996	-1.92381	0.070979
PITG_02812	Pi type I inositol-3,4-bisphosphate 4-phosphatase, putative (	-17.567	-3.08948	0.071153
PITG_06333	Pi hypothetical protein (919 nt)	-17.567	-3.08948	0.071153

PITG_12377	Pi conserved hypothetical protein (465 nt)	-17.5262	-3.17106	0.071153
PITG_06047	Pi conserved hypothetical protein (905 nt)	-15.4276	2.032549	0.07131
PITG_02470	Pi conserved hypothetical protein (899 nt)	-14.4767	-2.05899	0.071498
PITG_16530	Pi aspartyl-tRNA synthetase, putative (2382 nt)	-16.8363	-2.58858	0.071583
PITG_17663	Pi conserved hypothetical protein (1866 nt)	-14.8886	-2.14839	0.071712
PITG_03241	Pi conserved hypothetical protein (1528 nt)	-15.0937	-2.11693	0.071725
PITG_21501	Pi calcium/calmodulin dependent protein kinase, putative (1	-15.054	2.067777	0.071725
PITG_16184	Pi protein kinase (1242 nt)	-16.5011	-3.03633	0.071903
PITG_13631	Pi cytochrome P450, putative (1435 nt)	-16.2309	-2.56652	0.071932
PITG_06903	Pi conserved hypothetical protein (2970 nt)	-16.2038	-2.62069	0.071932
PITG_06088	Pi conserved hypothetical protein (1754 nt)	-15.9348	-2.35756	0.071973
PITG_13903	Pi conserved hypothetical protein (971 nt)	-15.9177	-2.39176	0.071973
PITG_10819	Pi midasin-like protein (18373 nt)	-15.61	2.273259	0.07202
PITG_00212	Pi conserved hypothetical protein (1458 nt)	-12.1274	-1.83794	0.072078
PITG_05762	Pi Cullin family protein, putative (2268 nt)	-15.3224	-2.33377	0.072132
PITG_18326	Pi conserved hypothetical protein (1353 nt)	-14.343	2.143379	0.072147
PITG_16591	Pi Crinkler (CRN) family protein (2658 nt)	-10.7512	-2.1111	0.072301
PITG_04967	Pi conserved hypothetical protein (2153 nt)	-16.8517	2.954193	0.07242
PITG_22676	Pi secreted RxLR effector peptide, putative (486 nt)	-15.77	-2.78985	0.072477
PITG_04572	Pi conserved hypothetical protein (1193 nt)	-16.1631	-2.6123	0.072499
PITG_16878	Pi conserved hypothetical protein (562 nt)	-16.1814	-2.57579	0.072499
PITG_03951	Pi conserved hypothetical protein (921 nt)	-14.9728	2.133659	0.072552
PITG_10488	Pi protein kinase, putative (1257 nt)	-15.251	-2.17541	0.072582
PITG_13785	Pi conserved hypothetical protein (984 nt)	-14.9232	2.161773	0.072614
PITG_15962	Pi conserved hypothetical protein (1744 nt)	-16.1286	-2.67876	0.072757
PITG_17330	Pi pyridoxal kinase, putative (1406 nt)	-16.2011	-2.53891	0.072936
PITG_01314	Pi ubiquitin-specific protease, putative (1568 nt)	-16.6552	-2.84782	0.073252
PITG_07657	Pi conserved hypothetical protein (1342 nt)	-17.2091	-3.67399	0.073313
PITG_18583	Pi nonribosomal peptide synthetase, putative (4723 nt)	-16.6591	2.568564	0.073313
PITG_11120	Pi conserved hypothetical protein (957 nt)	-13.3737	-1.89162	0.073331
PITG_03272	Pi conserved hypothetical protein (696 nt)	-16.3371	2.337217	0.07339
PITG_03306	Pi HSF-type DNA-binding protein, putative (755 nt)	-13.9822	1.896271	0.073559
PITG_16783	Pi conserved hypothetical protein (1201 nt)	-16.2423	2.313382	0.073644
PITG_18018	Pi ribosome-recycling factor, putative (995 nt)	-14.7069	2.02652	0.073647
PITG_00074	Pi conserved hypothetical protein (1263 nt)	-11.5866	1.8231	0.073662
PITG_19868	Pi tRNA-dihydrouridine synthase, putative (1772 nt)	-15.7246	2.248978	0.073801
PITG_09779	Pi conserved hypothetical protein (557 nt)	-12.9637	1.861759	0.073864
PITG_04994	Pi conserved hypothetical protein (2863 nt)	-12.845	-1.86189	0.073914
PITG_07321	Pi conserved hypothetical protein (2618 nt)	-16.0226	2.098533	0.073948
PITG_15780	Pi radial spoke protein 11 (405 nt)	-13.653	1.947772	0.073999
PITG_03103	Pi conserved hypothetical protein (1894 nt)	-15.4478	-2.20793	0.074036
PITG_15920	Pi conserved hypothetical protein (942 nt)	-14.6717	-1.94363	0.074076
PITG_11472	Pi Intraflagellar Transport Protein 72/74 (1977 nt)	-15.8294	2.136395	0.074082
PITG_21983	Pi hypothetical protein (2294 nt)	-14.8177	-2.35441	0.07419
PITG_05111	Pi conserved hypothetical protein (675 nt)	-16.5893	2.834179	0.074203
PITG_15855	Pi conserved hypothetical protein (4697 nt)	-16.3624	2.279882	0.074203
PITG_20319	Pi glycoside hydrolase, putative (984 nt)	-15.6518	-2.23697	0.074203

PITG_18301	Pi conserved hypothetical protein (690 nt)	-15.644	-2.39786	0.074255
PITG_04678	Pi phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase, p	-14.2618	-2.35754	0.074297
PITG_11134	Pi conserved hypothetical protein (804 nt)	-16.1595	-2.52649	0.074532
PITG_06324	Pi hypothetical protein (1633 nt)	-14.7231	-2.09934	0.074553
PITG_12504	Pi Mitochondrial Carrier (MC) Family (987 nt)	-14.5146	-1.98303	0.074681
PITG_15228	Pi transmembrane protein, putative (2191 nt)	-15.8812	-2.38948	0.074729
PITG_20629	Pi DNA-directed RNA polymerase III subunit RPC8, putative (	-13.793	1.999972	0.074738
PITG_13152	Pi conserved hypothetical protein (1680 nt)	-13.802	-2.02631	0.074738
PITG_03406	Pi conserved hypothetical protein (606 nt)	-14.4553	2.160879	0.074827
PITG_22764	Pi cysteine synthase, putative (1625 nt)	-12.7591	1.800149	0.074909
PITG_16364	Pi conserved hypothetical protein (2133 nt)	-16.2035	-2.62163	0.074967
PITG_01275	Pi lipase, putative (1281 nt)	-33.3019	-33.4282	0.075019
PITG_06417	Pi conserved hypothetical protein (1845 nt)	-33.3019	-33.4282	0.075019
PITG_08168	Pi fibronectin type III domain-containing protein (6283 nt)	-33.3019	-33.4282	0.075019
PITG_08357	Pi conserved hypothetical protein (1458 nt)	-33.3019	-33.4282	0.075019
PITG_11411	Pi hypothetical protein (147 nt)	-33.3019	-33.4282	0.075019
PITG_11827	Pi conserved hypothetical protein (3059 nt)	-33.3019	-33.4282	0.075019
PITG_13430	Pi conserved hypothetical protein (960 nt)	-33.3019	-33.4282	0.075019
PITG_13909	Pi conserved hypothetical protein (1343 nt)	-33.3019	-33.4282	0.075019
PITG_14656	Pi conserved hypothetical protein (2994 nt)	-33.3019	-33.4282	0.075019
PITG_15207	Pi conserved hypothetical protein (3197 nt)	-33.3019	-33.4282	0.075019
PITG_15379	Pi conserved hypothetical protein (1531 nt)	-33.3019	-33.4282	0.075019
PITG_15389	Pi hypothetical protein (238 nt)	-33.3019	-33.4282	0.075019
PITG_19618	Pi hypothetical protein (654 nt)	-33.3019	-33.4282	0.075019
PITG_21003	Pi conserved hypothetical protein (804 nt)	-33.3019	-33.4282	0.075019
PITG_21199	Pi hypothetical protein (721 nt)	-33.3019	-33.4282	0.075019
PITG_21634	Pi hypothetical protein (804 nt)	-33.3019	-33.4282	0.075019
PITG_22510	Pi conserved hypothetical protein (632 nt)	-33.3019	-33.4282	0.075019
PITG_17247	Pi sporangia induced conserved hypothetical protein (1586 r	-16.8886	2.86348	0.075095
PITG_15807	Pi conserved hypothetical protein (2721 nt)	-15.6248	-2.29144	0.07513
PITG_07435	Pi secreted RxLR effector peptide, putative (501 nt)	-16.6532	-2.85172	0.075161
PITG_16887	Pi conserved hypothetical protein (2079 nt)	-14.6687	-1.99138	0.075328
PITG_02356	Pi calcium-transporting ATPase 1, endoplasmic reticulum-tyr	-15.4952	2.173039	0.075358
PITG_06901	Pi conserved hypothetical protein (825 nt)	-17.4864	-3.1145	0.07572
PITG_22413	Pi hypothetical protein (1130 nt)	-16.172	-2.68739	0.075839
PITG_17590	Pi conserved hypothetical protein (1071 nt)	-14.1397	2.323754	0.075868
PITG_00896	Pi phosphatidylinositol-4-phosphate-5-kinase (Pi-PIPK-D9/GF	-15.7317	2.238424	0.07594
PITG_10723	Pi conserved hypothetical protein (702 nt)	-14.4937	-1.94792	0.075965
PITG_11538	Pi conserved hypothetical protein (1390 nt)	-16.1115	3.291705	0.076072
PITG_07210	Pi protein kinase (2083 nt)	-16.2466	-2.53414	0.07621
PITG_09603	Pi conserved hypothetical protein (519 nt)	-16.2659	-2.49564	0.07621
PITG_06783	Pi quinolinate synthetase A protein, putative (1730 nt)	-14.2588	1.935882	0.076224
PITG_18759	Pi conserved hypothetical protein (1105 nt)	-17.5612	-3.10405	0.076502
PITG_14636	Pi COP9 signalosome complex subunit, putative (978 nt)	-13.6321	-1.93516	0.076548
PITG_00483	Pi pumilio-like mating protein M90 (3326 nt)	-14.7055	1.917756	0.076559
PITG_08427	Pi conserved hypothetical protein (1161 nt)	-16.1722	2.656577	0.076596
PITG_18458	Pi conserved hypothetical protein (2357 nt)	-14.7063	-2.18024	0.076733

PITG_05485	Pi peroxisomal acyl-coenzyme A oxidase, putative (2265 nt)	-16.8348	-2.59501	0.07689
PITG_09747	Pi conserved hypothetical protein (1880 nt)	-16.8348	-2.59501	0.07689
PITG_17489	Pi conserved hypothetical protein (750 nt)	-14.5572	-1.93717	0.076894
PITG_13335	Pi conserved hypothetical protein (1147 nt)	-11.8694	1.939798	0.076919
PITG_00211	Pi adenine phosphoribosyltransferase, putative (945 nt)	-15.471	-2.09847	0.076968
PITG_08928	Pi conserved hypothetical protein (1172 nt)	-16.1462	2.464635	0.077028
PITG_04124	Pi glycoside hydrolase, putative (860 nt)	-15.7986	-2.72886	0.077038
PITG_00308	Pi conserved hypothetical protein (2420 nt)	-15.6988	-2.21008	0.077054
PITG_05559	Pi conserved hypothetical protein (2055 nt)	-16.2689	-2.48982	0.077242
PITG_04104	Pi conserved hypothetical protein (3886 nt)	-15.9166	-2.3956	0.077303
PITG_10693	Pi conserved hypothetical protein (1256 nt)	-11.1778	-1.93114	0.077325
PITG_09649	Pi conserved hypothetical protein (472 nt)	-12.1368	-1.8013	0.077409
PITG_12238	Pi hypothetical protein (1348 nt)	-13.1795	1.814788	0.077444
PITG_04725	Pi conserved hypothetical protein (10266 nt)	-15.0946	-2.31251	0.07756
PITG_16958	Pi transglutaminase elicitor-like protein (1734 nt)	-15.2779	-2.06223	0.077736
PITG_05477	Pi hypothetical protein (2208 nt)	-17.1079	3.163987	0.07777
PITG_14109	Pi conserved hypothetical protein (1654 nt)	-15.0449	-2.05689	0.077869
PITG_05853	Pi pterin-4-alpha-carbinolamine dehydratase (369 nt)	-16.4912	-3.17288	0.077911
PITG_07861	Pi carbohydrate-binding protein, putative (1564 nt)	-15.8779	-2.31626	0.077967
PITG_05185	Pi conserved hypothetical protein (2003 nt)	-12.102	-1.75689	0.078042
PITG_07249	Pi conserved hypothetical protein (1252 nt)	-16.0927	2.357313	0.078069
PITG_21017	Pi hydrocephalus-inducing protein, putative (13327 nt)	-16.4084	2.43886	0.078077
PITG_11029	Pi conserved hypothetical protein (1609 nt)	-14.0498	-1.88163	0.078147
PITG_17043	Pi conserved hypothetical protein (769 nt)	-15.439	2.316024	0.078176
PITG_19366	Pi polysaccharide lyase, putative (1685 nt)	-14.4373	2.134861	0.078269
PITG_12842	Pi conserved hypothetical protein (681 nt)	-16.045	2.048686	0.078281
PITG_04401	Pi conserved hypothetical protein (615 nt)	-14.739	-2.0676	0.078586
PITG_04270	Pi sulfatase-like protein (2505 nt)	-14.9047	-2.2796	0.078808
PITG_00324	Pi neutral ceramidase, putative (2144 nt)	-16.2225	-2.58443	0.079119
PITG_01442	Pi conserved hypothetical protein (1890 nt)	-15.9588	2.08826	0.079119
PITG_05467	Pi conserved hypothetical protein (987 nt)	-15.4718	-2.15962	0.079289
PITG_15391	Pi conserved hypothetical protein (2923 nt)	-15.1299	1.996969	0.079313
PITG_22625	Pi conserved hypothetical protein (982 nt)	-15.895	-2.28468	0.079489
PITG_20157	Pi Axonemal Inner Arm I1 Intermediate Chain Dynein (3423 r	-16.909	2.805577	0.079561
PITG_03797	Pi conserved hypothetical protein (420 nt)	-16.7375	2.400933	0.079632
PITG_03851	Pi conserved hypothetical protein (1389 nt)	-17.0799	3.204943	0.079632
PITG_00252	Pi conserved hypothetical protein (1134 nt)	-14.9131	-2.00329	0.079758
PITG_03558	Pi conserved hypothetical protein (1056 nt)	-15.0156	2.129509	0.079767
PITG_17154	Pi conserved hypothetical protein (1293 nt)	-15.4422	2.253365	0.079779
PITG_08181	Pi conserved hypothetical protein (2074 nt)	-13.8674	1.979004	0.079878
PITG_00668	Pi conserved hypothetical protein (1176 nt)	-14.4273	1.888127	0.079939
PITG_12833	Pi conserved hypothetical protein (477 nt)	-12.0339	1.788271	0.079954
PITG_11981	Pi conserved hypothetical protein (2355 nt)	-16.2193	-2.50028	0.080175
PITG_12176	Pi conserved hypothetical protein (2728 nt)	-15.7371	2.235005	0.080316
PITG_03791	Pi splicing factor, arginine/serine-rich, putative (1259 nt)	-15.4742	2.10394	0.080352
PITG_05410	Pi transmembrane protein, putative (1622 nt)	-15.0625	-2.12414	0.080355
PITG_11181	Pi conserved hypothetical protein (1836 nt)	-17.1173	3.142498	0.080465

PITG_01468	Pi conserved hypothetical protein (663 nt)	-16.7345	-2.81175	0.080528
PITG_18833	Pi Crinkler (CRN) family protein (2362 nt)	-11.1762	-1.80466	0.08059
PITG_22687	Pi HECT E3 ubiquitin ligase, putative (2500 nt)	-15.3116	-1.99295	0.08066
PITG_14497	Pi isoprenylcysteine carboxyl methyltransferase, putative (93	-14.1	-2.17676	0.081253
PITG_10203	Pi conserved hypothetical protein (1104 nt)	-11.313	1.702159	0.081313
PITG_18206	Pi conserved hypothetical protein (5849 nt)	-15.605	2.013824	0.081609
PITG_11856	Pi C2 domain-containing protein, putative (1173 nt)	-14.2438	-2.08441	0.081665
PITG_11189	Pi phosphoenolpyruvate carboxykinase (1804 nt)	-12.5597	-1.73601	0.081701
PITG_01217	Pi transmembrane protein, putative (780 nt)	-13.9624	1.862496	0.081815
PITG_02284	Pi xanthine dehydrogenase, putative (4353 nt)	-16.7644	2.325217	0.082292
PITG_04873	Pi conserved hypothetical protein (558 nt)	-17.3171	-3.46731	0.082292
PITG_17587	Pi conserved hypothetical protein (841 nt)	-16.8703	-2.5189	0.082292
PITG_02464	Pi conserved hypothetical protein (5435 nt)	-16.284	2.228207	0.082306
PITG_07507	Pi Crinkler (CRN) family protein (564 nt)	-15.9064	-2.50028	0.082394
PITG_03501	Pi alcohol dehydrogenase, putative (3353 nt)	-14.5979	-1.96781	0.082512
PITG_09271	Pi ornithine aminotransferase, mitochondrial precursor (157	-12.5733	-1.79055	0.082591
PITG_13915	Pi conserved hypothetical protein (3859 nt)	-15.4995	-2.10282	0.082728
PITG_04847	Pi conserved hypothetical protein (1560 nt)	-15.836	2.123178	0.082797
PITG_12962	Pi histone deacetylase, putative (1113 nt)	-15.836	2.123178	0.082797
PITG_18008	Pi conserved hypothetical protein (1255 nt)	-15.9721	-2.28365	0.082797
PITG_15596	Pi protein kinase (1075 nt)	-15.6964	-2.08087	0.082798
PITG_09143	Pi hypothetical protein (607 nt)	-15.4613	-2.18189	0.082832
PITG_20273	Pi conserved hypothetical protein (1789 nt)	-15.4236	-2.1958	0.082983
PITG_07938	Pi conserved hypothetical protein (1065 nt)	-14.7345	1.858435	0.08307
PITG_15611	Pi protein kinase (900 nt)	-16.919	-2.42192	0.083215
PITG_07708	Pi hypothetical protein (659 nt)	-16.1398	-2.55353	0.083309
PITG_14724	Pi hypothetical protein (279 nt)	-14.72	-1.97947	0.083671
PITG_09555	Pi ubiquitin-ribosomal fusion protein, putative (461 nt)	-10.1563	1.829451	0.083788
PITG_08723	Pi conserved hypothetical protein (681 nt)	-15.3127	-2.04986	0.083877
PITG_03082	Pi Outer Dynein Arm Light Chain 1 (1826 nt)	-15.891	2.152705	0.083924
PITG_06078	Pi hypothetical protein (1057 nt)	-15.6513	2.195297	0.083934
PITG_02157	Pi conserved hypothetical protein (465 nt)	-16.8982	-2.46414	0.084143
PITG_06668	Pi ATP-binding Cassette (ABC) Superfamily (8369 nt)	-16.8982	-2.46414	0.084143
PITG_09487	Pi conserved hypothetical protein (1230 nt)	-16.6796	-2.79908	0.084165
PITG_03675	Pi DEAD/DEAH box RNA helicase, putative (1986 nt)	-15.5122	-2.01516	0.084258
PITG_00757	Pi gamma-glutamyltranspeptidase, putative (1670 nt)	-17.2351	-3.62238	0.084333
PITG_07445	Pi mucin-like protein (4439 nt)	-17.2351	-3.62238	0.084333
PITG_10846	Pi lysosomal alpha-glucosidase, putative (3666 nt)	-16.7105	2.464043	0.084333
PITG_12148	Pi conserved hypothetical protein (1929 nt)	-14.3824	-2.07298	0.084382
PITG_15090	Pi 50S ribosomal protein L11 (435 nt)	-13.5556	1.783902	0.084522
PITG_06595	Pi ATP synthase subunit beta, putative (1595 nt)	-10.4318	1.800954	0.084562
PITG_15602	Pi conserved hypothetical protein (1893 nt)	-12.8695	-1.81989	0.08463
PITG_23289	Pi crinkler (CRN) domain, pseudogene (555 nt)	-11.7325	-1.69334	0.084791
PITG_13342	Pi conserved hypothetical protein (930 nt)	-15.934	-2.20812	0.085058
PITG_03095	Pi carbohydrate-binding protein, putative (3021 nt)	-13.701	-1.96556	0.085067
PITG_09310	Pi 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase, pu	-14.9386	-1.95225	0.085168
PITG_03077	Pi tubulin polyglutamylase, putative (2157 nt)	-16.4092	2.185589	0.08518



PITG_05347	Pi 1-aminocyclopropane-1-carboxylate deaminase (1029 nt)	-13.6545	-1.84013	0.085228
PITG_08538	Pi conserved hypothetical protein (651 nt)	-13.3749	-1.93058	0.085356
PITG_00913	Pi 3-hydroxyisobutyrate dehydrogenase, putative (1079 nt)	-17.62	-2.98153	0.085541
PITG_03269	Pi conserved hypothetical protein (852 nt)	-17.62	-2.98153	0.085541
PITG_05198	Pi conserved hypothetical protein (1917 nt)	-17.62	-2.98153	0.085541
PITG_08222	Pi conserved hypothetical protein (1346 nt)	-17.62	-2.98153	0.085541
PITG_09638	Pi conserved hypothetical protein (812 nt)	-17.6683	-2.88495	0.085541
PITG_22672	Pi conserved hypothetical protein (3078 nt)	-17.6683	-2.88495	0.085541
PITG_06815	Pi NADH dehydrogenase flavoprotein 1, mitochondrial precu	-11.4312	1.708096	0.085954
PITG_05398	Pi conserved hypothetical protein (4052 nt)	-16.9386	2.758312	0.086019
PITG_03946	Pi conserved hypothetical protein (1718 nt)	-15.0924	-2.06418	0.086114
PITG_07279	Pi transmembrane protein, putative (4092 nt)	-15.0716	-2.05445	0.086114
PITG_08199	Pi HSF-type DNA-binding, putative (928 nt)	-12.1626	1.811805	0.086131
PITG_19710	Pi conserved hypothetical protein (775 nt)	-15.534	2.464195	0.086143
PITG_13595	Pi conserved hypothetical protein (714 nt)	-15.93	2.23037	0.0862
PITG_00150	Pi conserved hypothetical protein (1395 nt)	-15.9115	-2.24907	0.086232
PITG_04611	Pi protein kinase (1116 nt)	-13.7751	-1.84287	0.086244
PITG_06385	Pi conserved hypothetical protein (899 nt)	-11.4269	1.706738	0.086252
PITG_02244	Pi conserved hypothetical protein (1359 nt)	-15.6976	-2.07767	0.086328
PITG_03620	Pi histidinol-phosphate aminotransferase, putative (1859 nt)	-15.7148	-2.11073	0.086328
PITG_10566	Pi hypothetical protein (296 nt)	-15.6953	-2.08238	0.086328
PITG_06217	Pi hypothetical protein (365 nt)	-14.491	2.210646	0.086355
PITG_17632	Pi conserved hypothetical protein (1513 nt)	-15.4023	-2.17478	0.086403
PITG_07663	Pi major Facilitator Superfamily (MFS) (1692 nt)	-14.0873	-2.43325	0.086413
PITG_17983	Pi adenylosuccinate lyase (1779 nt)	-14.4533	1.849839	0.086563
PITG_13761	Pi protoplast secreted protein 2 precursor (703 nt)	-12.24	1.974057	0.086582
PITG_04243	Pi conserved hypothetical protein (932 nt)	-14.8121	-2.01059	0.086712
PITG_15197	Pi hypothetical protein (1477 nt)	-12.0962	-2.16026	0.0869
PITG_03939	Pi conserved hypothetical protein (1931 nt)	-15.2487	-2.0633	0.086901
PITG_10097	Pi conserved hypothetical protein (1596 nt)	-16.3072	-2.41294	0.086948
PITG_17882	Pi regulator of chromosome condensation (RCC1)-like protei	-16.2888	-2.4498	0.086948
PITG_12517	Pi CAAX prenyl protease 1 (1458 nt)	-14.7405	-2.01992	0.086953
PITG_20767	Pi protein kinase, putative (1986 nt)	-14.6848	-2.00399	0.086998
PITG_02759	Pi hypothetical protein (278 nt)	-16.4341	-2.25405	0.087196
PITG_01942	Pi conserved hypothetical protein (2181 nt)	-16.5816	2.8254	0.087196
PITG_08295	Pi dynein heavy chain (12098 nt)	-15.661	2.171075	0.08752
PITG_17709	Pi conserved hypothetical protein (2187 nt)	-15.3376	-1.94096	0.087662
PITG_00047	Pi conserved hypothetical protein (2806 nt)	-16.9435	2.751983	0.08792
PITG_01717	Pi dynein heavy chain (14029 nt)	-16.0931	2.174921	0.087957
PITG_02617	Pi conserved hypothetical protein (1476 nt)	-16.0314	2.085114	0.087957
PITG_19473	Pi conserved hypothetical protein (5766 nt)	-16.1301	2.282512	0.087957
PITG_13621	Pi conserved hypothetical protein (511 nt)	-15.0001	1.945991	0.088019
PITG_08365	Pi Voltage-gated Ion Channel (VIC) Superfamily (2646 nt)	-16.1438	2.246326	0.088047
PITG_13265	Pi adenosine kinase (1038 nt)	-13.9744	1.997831	0.088137
PITG_06518	Pi phospho-2-dehydro-3-deoxyheptonate aldolase (1512 nt)	-15.4676	2.282004	0.088169
PITG_04184	Pi conserved hypothetical protein (1851 nt)	-14.0334	-2.17363	0.08817
PITG_01436	Pi conserved hypothetical protein (716 nt)	-15.6933	2.052172	0.088285

PITG_11125	Pi conserved hypothetical protein (1595 nt)	-14.607	-1.877	0.088353
PITG_05565	Pi conserved hypothetical protein (1806 nt)	-14.1806	-1.90761	0.088442
PITG_10983	Pi conserved hypothetical protein (558 nt)	-14.116	1.791262	0.088546
PITG_19989	Pi conserved hypothetical protein (1060 nt)	-13.9464	1.895177	0.088557
PITG_02330	Pi conserved hypothetical protein (1368 nt)	-17.6262	-2.8487	0.088773
PITG_03135	Pi lysosomal beta glucosidase, putative (2368 nt)	-17.6102	-3.00281	0.088773
PITG_05433	Pi STIP-like protein (2466 nt)	-17.6102	-3.00281	0.088773
PITG_18210	Pi conserved hypothetical protein (1489 nt)	-17.6102	-3.00281	0.088773
PITG_18826	Pi Crinkler (CRN) family protein (1559 nt)	-17.6102	-3.00281	0.088773
PITG_08188	Pi conserved hypothetical protein (1701 nt)	-13.7866	1.867489	0.088876
PITG_08216	Pi WD domain-containing protein, putative (4192 nt)	-15.1736	1.985319	0.088884
PITG_19362	Pi myb-like DNA-binding protein, putative (1042 nt)	-12.8065	-1.83756	0.088885
PITG_01974	Pi conserved hypothetical protein (1305 nt)	-17.5658	-2.95722	0.088892
PITG_09388	Pi GPN-loop GTPase 2, putative (1156 nt)	-14.6509	-2.03061	0.088953
PITG_22016	Pi conserved hypothetical protein (624 nt)	-11.0913	-1.9812	0.088954
PITG_17137	Pi conserved hypothetical protein (4551 nt)	-15.498	-2.04413	0.089163
PITG_00203	Pi mitochondrial-processing peptidase subunit beta (1470 nt)	-11.941	1.726896	0.089264
PITG_04710	Pi conserved hypothetical protein (998 nt)	-17.5611	-3.11098	0.089764
PITG_08159	Pi conserved hypothetical protein (2251 nt)	-17.5611	-3.11098	0.089764
PITG_09674	Pi cytidyltransferase (676 nt)	-17.5611	-3.11098	0.089764
PITG_10272	Pi conserved hypothetical protein (557 nt)	-17.5611	-3.11098	0.089764
PITG_16440	Pi protein kinase (1479 nt)	-17.5611	-3.11098	0.089764
PITG_17976	Pi transmembrane protein, putative (3328 nt)	-15.5144	2.757096	0.089866
PITG_09401	Pi pre-mRNA-splicing factor ini1 (333 nt)	-13.4561	-1.77278	0.089883
PITG_16729	Pi acyltransferase family (1434 nt)	-15.6408	2.034265	0.089926
PITG_09378	Pi conserved hypothetical protein (1118 nt)	-15.0702	-2.00592	0.090041
PITG_10834	Pi calcium-activated potassium channel subunit alpha-1, putative (1470 nt)	-16.0125	1.982777	0.090186
PITG_02036	Pi Equilibrative Nucleoside Transporter (ENT) Family (2000 nt)	-16.2628	-2.41652	0.090267
PITG_03929	Pi conserved hypothetical protein (1643 nt)	-16.3041	-2.41967	0.090267
PITG_02854	Pi aspartate-semialdehyde dehydrogenase, putative (1273 nt)	-14.7031	1.832282	0.090315
PITG_01020	Pi conserved hypothetical protein (693 nt)	-16.6568	-2.74155	0.090357
PITG_17889	Pi Crinkler (CRN) family protein (2472 nt)	-16.7004	-2.75716	0.090357
PITG_04682	Pi protein kinase, putative (2628 nt)	-14.3356	-1.85619	0.090576
PITG_11080	Pi conserved hypothetical protein (1850 nt)	-15.7453	-2.04944	0.090587
PITG_13284	Pi conserved hypothetical protein (1246 nt)	-15.7453	-2.04944	0.090587
PITG_13337	Pi conserved hypothetical protein (1459 nt)	-17.5226	-3.18831	0.090643
PITG_18323	Pi conserved hypothetical protein (1158 nt)	-17.5226	-3.18831	0.090643
PITG_07335	Pi conserved hypothetical protein (1194 nt)	-17.5251	-3.03764	0.090643
PITG_21511	Pi myosin-like protein (2489 nt)	-17.5251	-3.03764	0.090643
PITG_18753	Pi conserved hypothetical protein (702 nt)	-14.6607	2.123568	0.090788
PITG_11451	Pi conserved hypothetical protein (2309 nt)	-15.2387	-2.0833	0.090794
PITG_02977	Pi conserved hypothetical protein (1039 nt)	-14.347	-1.93935	0.090898
PITG_17546	Pi glycoside hydrolase, putative (2172 nt)	-13.8705	1.762514	0.090982
PITG_02751	Pi conserved hypothetical protein (2612 nt)	-16.4181	2.755315	0.091229
PITG_15079	Pi conserved hypothetical protein (818 nt)	-16.2827	-2.37634	0.091387
PITG_18489	Pi conserved hypothetical protein (630 nt)	-16.333	2.103569	0.091412
PITG_20026	Pi conserved hypothetical protein (387 nt)	-16.4639	2.329741	0.091412

PITG_18251	Pi peptide chain release factor 1 (1172 nt)	-15.9899	-2.24768	0.091592
PITG_23149	Pi conserved hypothetical protein (1170 nt)	-15.5775	2.087003	0.09161
PITG_18891	Pi uracil-DNA glycosylase (939 nt)	-15.7448	-2.05053	0.091808
PITG_22850	Pi Crinkler (CRN) family protein, pseudogene (2401 nt)	-11.1685	-1.68106	0.091864
PITG_10601	Pi molybdenum cofactor biosynthesis protein 1 A (1542 nt)	-14.9668	-1.94319	0.092358
PITG_20251	Pi Sulfate Permease (SulP) Family (2784 nt)	-14.9545	-1.92038	0.092358
PITG_16557	Pi conserved hypothetical protein (1549 nt)	-16.2388	-2.36871	0.092444
PITG_07509	Pi Crinkler (CRN) family protein, pseudogene (829 nt)	-12.5967	-1.7825	0.092519
PITG_14243	Pi glycoside hydrolase, putative (1587 nt)	-14.9461	2.055898	0.09254
PITG_08547	Pi conserved hypothetical protein (363 nt)	-15.5486	-2.30367	0.092551
PITG_00510	Pi hypothetical protein (2755 nt)	-15.8771	2.04099	0.092774
PITG_12300	Pi phosphoribosylglycinamide synthetase, putative (3432 nt)	-14.5174	1.922404	0.092847
PITG_03802	Pi eukaryotic translation initiation factor 6 (934 nt)	-13.5015	-1.81529	0.092885
PITG_19042	Pi conserved hypothetical protein (1798 nt)	-13.534	-1.73328	0.092897
PITG_21590	Pi conserved hypothetical protein (2627 nt)	-17.1566	3.067429	0.092943
PITG_14273	Pi conserved hypothetical protein (546 nt)	-12.5794	-2.36315	0.092986
PITG_05627	Pi conserved hypothetical protein (2431 nt)	-14.3802	-1.87166	0.093111
PITG_12172	Pi hypothetical protein (402 nt)	-13.931	-1.76684	0.093119
PITG_19889	Pi Crinkler (CRN) family protein, pseudogene (2522 nt)	-12.1552	-1.77207	0.093139
PITG_17031	Pi conserved hypothetical protein (828 nt)	-16.0521	2.605379	0.09325
PITG_17577	Pi protein kinase, putative (2172 nt)	-14.1607	1.856483	0.093395
PITG_19087	Pi hypothetical protein (419 nt)	-16.6201	2.759526	0.093542
PITG_11043	Pi conserved hypothetical protein (570 nt)	-16.4291	2.151225	0.093542
PITG_13887	Pi AMP-binding enzyme, putative (1596 nt)	-16.1391	2.268746	0.093584
PITG_02797	Pi ribosomal RNA large subunit methyltransferase N, putativ	-16.3031	-2.42223	0.093647
PITG_04881	Pi conserved hypothetical protein (1570 nt)	-13.5978	-1.82292	0.093775
PITG_16225	Pi HECT E3 ubiquitin ligase, putative (2427 nt)	-17.6475	-2.93054	0.093777
PITG_17138	Pi conserved hypothetical protein (840 nt)	-17.6475	-2.93054	0.093777
PITG_03659	Pi conserved hypothetical protein (836 nt)	-15.5272	-1.98534	0.093803
PITG_06013	Pi conserved hypothetical protein (744 nt)	-14.6993	-1.93172	0.093806
PITG_01607	Pi actin-like protein (1324 nt)	-14.5258	-1.92164	0.093831
PITG_00660	Pi conserved hypothetical protein (5732 nt)	-17.1668	3.046101	0.093907
PITG_07099	Pi conserved hypothetical protein (1224 nt)	-15.0434	2.032593	0.094041
PITG_17423	Pi conserved hypothetical protein (1189 nt)	-14.9181	-2.04263	0.094149
PITG_04874	Pi carbohydrate esterase, putative (1146 nt)	-14.56	-1.97414	0.094233
PITG_14465	Pi conserved hypothetical protein (1814 nt)	-14.0758	-1.76401	0.094259
PITG_13253	Pi hypothetical protein (1914 nt)	-15.9658	2.380771	0.094398
PITG_07161	Pi serine protease family S10, putative (1987 nt)	-15.9515	2.409357	0.094398
PITG_06203	Pi conserved hypothetical protein (764 nt)	-10.5956	-1.67302	0.094466
PITG_00006	Pi hypothetical protein (830 nt)	-15.1748	-1.95482	0.094508
PITG_00361	Pi conserved hypothetical protein (1984 nt)	-17.603	-3.02009	0.094629
PITG_01339	Pi conserved hypothetical protein (1558 nt)	-17.6158	-2.86582	0.094629
PITG_01430	Pi glycoside hydrolase, putative (1770 nt)	-17.603	-3.02009	0.094629
PITG_04057	Pi conserved hypothetical protein (1083 nt)	-17.6158	-2.86582	0.094629
PITG_13687	Pi pre-mRNA-splicing factor ATP-dependent RNA helicase, pu	-17.603	-3.02009	0.094629
PITG_15483	Pi putative GPI-anchored serine-threonine rich hypothetical	-11.9094	-1.65916	0.094821
PITG_11736	Pi conserved hypothetical protein (526 nt)	-13.2448	-1.84152	0.094893

PITG_03243	Pi conserved hypothetical protein (1556 nt)	-13.9808	-1.83632	0.094991
PITG_00174	Pi hypothetical protein (348 nt)	-15.1107	-1.92541	0.095048
PITG_09073	Pi hypothetical protein (1517 nt)	-15.4927	1.902394	0.095081
PITG_01495	Pi ribonuclease, putative (726 nt)	-15.0626	-2.24862	0.095095
PITG_21540	Pi Resistance-Nodulation-Cell Division (RND) Superfamily (23	-13.6422	-2.21004	0.095117
PITG_21737	Pi hypothetical protein (462 nt)	-10.7902	2.811492	0.095263
PITG_10293	Pi alcohol dehydrogenase, putative (1967 nt)	-15.7634	-2.08113	0.095515
PITG_19175	Pi conserved hypothetical protein (2919 nt)	-15.7634	-2.08113	0.095515
PITG_01768	Pi DAHP synthase (1203 nt)	-15.6903	2.037109	0.095515
PITG_15120	Pi Multidrug/Oligosaccharidyl-lipid/Polysaccharide (MOP) Fli	-14.5712	1.926712	0.095571
PITG_02720	Pi conserved hypothetical protein (1338 nt)	-15.9484	-2.25478	0.095598
PITG_13391	Pi trans-acting enoyl reductase, putative (1404 nt)	-15.8988	-2.3533	0.09565
PITG_17248	Pi conserved hypothetical protein (2217 nt)	-16.9673	2.688945	0.095852
PITG_22629	Pi conserved hypothetical protein (591 nt)	-16.9673	2.688945	0.095852
PITG_12513	Pi conserved hypothetical protein (1590 nt)	-14.3386	-2.20422	0.095894
PITG_12264	Pi protoheme IX farnesyltransferase, putative (1439 nt)	-14.1345	-2.04069	0.095914
PITG_05534	Pi nucleolar protein Nop56 (1854 nt)	-14.3434	1.773648	0.096046
PITG_10290	Pi alcohol dehydrogenase, putative (1233 nt)	-12.8185	-2.17995	0.096066
PITG_17445	Pi glycerol kinase 1 (1685 nt)	-12.63	-1.76109	0.096087
PITG_09596	Pi nucleoside diphosphate kinase B (661 nt)	-10.66	1.609672	0.096151
PITG_17525	Pi crinkler (CRN) family protein, pseudogene (1289 nt)	-10.4059	-1.74216	0.096255
PITG_11573	Pi serine protease family S33, putative (1166 nt)	-16.4405	2.120829	0.096279
PITG_10936	Pi hypothetical protein (739 nt)	-14.2054	-1.85762	0.096521
PITG_21517	Pi 2-oxoglutarate dehydrogenase E1 component, putative (2	-13.3588	-1.73365	0.096728
PITG_16732	Pi conserved hypothetical protein (803 nt)	-16.6746	-2.80827	0.096786
PITG_09669	Pi protein kinase (525 nt)	-13.5084	-1.72503	0.096827
PITG_01598	Pi conserved hypothetical protein (2612 nt)	-16.9783	2.668736	0.096833
PITG_16040	Pi conserved hypothetical protein (701 nt)	-16.9783	2.668736	0.096833
PITG_01051	Pi Amino Acid-Polyamine-Organocation (APC) Family (1935 r	-16.9794	-2.29949	0.096833
PITG_03523	Pi general transcription factor IIH subunit, putative (1647 nt)	-16.9794	-2.29949	0.096833
PITG_16406	Pi conserved hypothetical protein (928 nt)	-16.9573	2.710743	0.096833
PITG_20178	Pi conserved hypothetical protein (243 nt)	-12.7492	-1.69388	0.09715
PITG_07794	Pi conserved hypothetical protein (1375 nt)	-12.5948	-1.7087	0.097389
PITG_09819	Pi conserved hypothetical protein (475 nt)	-14.7736	-2.04614	0.097588
PITG_15661	Pi GMP reductase 2 (2054 nt)	-14.7183	-1.93593	0.097592
PITG_03325	Pi hypothetical protein (3096 nt)	-16.7659	2.351346	0.0978
PITG_15500	Pi conserved hypothetical protein (730 nt)	-16.9489	-2.36097	0.09782
PITG_13713	Pi MICAL-like protein (3165 nt)	-16.4588	-2.20343	0.09788
PITG_06479	Pi inositol oxygenase, putative (1762 nt)	-14.1924	-1.81971	0.098003
PITG_13747	Pi Drug/Metabolite Transporter (DMT) Superfamily (1261 nt)	-15.2597	-2.04122	0.098062
PITG_02910	Pi conserved hypothetical protein (1409 nt)	-13.6851	-2.01751	0.098235
PITG_03735	Pi conserved hypothetical protein (2507 nt)	-16.4845	2.034364	0.098438
PITG_19603	Pi conserved hypothetical protein (1995 nt)	-16.7315	-2.69532	0.098438
PITG_17531	Pi crinkler (CRN) family protein, putative (2106 nt)	-11.2817	-1.67129	0.098574
PITG_14991	Pi peroxisomal targeting signal 2 receptor, putative (2257 nt)	-14.5875	-1.96027	0.098684
PITG_09285	Pi conserved hypothetical protein (2445 nt)	-14.9755	-1.87848	0.098714
PITG_15388	Pi phenol acid carboxylase, putative (771 nt)	-14.4763	-1.84418	0.098782

PITG_16916	Pi protein kinase, putative (1603 nt)	-12.894	-1.91474	0.098789
PITG_15693	Pi hypothetical protein (725 nt)	-14.745	2.116058	0.098968
PITG_07100	Pi conserved hypothetical protein (1405 nt)	-16.4108	-2.30773	0.099106
PITG_06475	Pi conserved hypothetical protein (988 nt)	-14.3641	1.742405	0.099171
PITG_08375	Pi conserved hypothetical protein (635 nt)	-14.5033	-1.90573	0.0993
PITG_13654	Pi conserved hypothetical protein (627 nt)	-15.7024	-2.28302	0.099802
PITG_11852	Pi C2 domain-containing protein, putative (1283 nt)	-11.1952	-1.99543	0.099823
PITG_16203	Pi purine nucleoside phosphorylase 1 (1238 nt)	-14.0913	-1.82547	0.099828
PITG_16546	Pi conserved hypothetical protein (1347 nt)	-15.966	-2.22	0.100015
PITG_14106	Pi conserved hypothetical protein (1064 nt)	-14.1849	-1.80302	0.100122
PITG_03588	Pi conserved hypothetical protein (481 nt)	-13.969	1.850088	0.100126
PITG_08377	Pi conserved hypothetical protein (858 nt)	-12.0294	-1.76891	0.10024
PITG_11638	Pi voltage-gated potassium channel subunit beta, putative (1	-13.787	1.733678	0.100488
PITG_01920	Pi ubiquitin-specific protease, putative (5316 nt)	-16.028	-2.09679	0.100507
PITG_04934	Pi enoyl-CoA hydratase/isomerase family, putative (1816 nt)	-14.4934	-1.98545	0.100586
PITG_01490	Pi conserved hypothetical protein (8280 nt)	-16.118	2.127086	0.100593
PITG_14532	Pi conserved hypothetical protein (1551 nt)	-16.1013	2.160458	0.100593
PITG_15567	Pi conserved hypothetical protein (1461 nt)	-11.7412	-1.62912	0.100595
PITG_22835	Pi Crinkler (CRN) family protein, pseudogene (2322 nt)	-12.0374	-1.72782	0.100684
PITG_01824	Pi protein kinase (1515 nt)	-14.0722	-2.42549	0.10071
PITG_08581	Pi serine racemase, putative (1456 nt)	-16.3278	-2.37193	0.100714
PITG_10993	Pi CASP-like protein (2332 nt)	-16.3086	-2.32553	0.100714
PITG_16917	Pi conserved hypothetical protein (1539 nt)	-16.1205	1.896561	0.100714
PITG_02472	Pi conserved hypothetical protein (873 nt)	-16.3177	2.392405	0.100759
PITG_09786	Pi conserved hypothetical protein (953 nt)	-9.8491	-1.78345	0.100825
PITG_03644	Pi Rab8 family GTPase, putative (688 nt)	-12.0108	1.626343	0.101244
PITG_16475	Pi conserved hypothetical protein (524 nt)	-15.1857	2.182096	0.101289
PITG_02274	Pi peroxisomal trans-2-enoyl-CoA reductase, putative (1059	-14.0722	-2.06214	0.101303
PITG_06604	Pi fumarate hydratase, mitochondrial precursor (2089 nt)	-13.34	1.774625	0.101338
PITG_03183	Pi hypothetical protein (700 nt)	-14.5251	-1.82249	0.101459
PITG_12555	Pi elicitor-like protein, putative (360 nt)	-17.2355	-3.61235	0.101577
PITG_15656	Pi conserved hypothetical protein (598 nt)	-12.1164	-1.76102	0.101646
PITG_01491	Pi conserved hypothetical protein (1349 nt)	-16.0533	1.901339	0.101775
PITG_10239	Pi myosin heavy chain kinase, putative (2173 nt)	-15.3036	-2.13462	0.10187
PITG_10119	Pi ubiquitin-specific protease, putative (5318 nt)	-16.6098	-2.93598	0.101911
PITG_11999	Pi conserved hypothetical protein (642 nt)	-15.1237	-2.00221	0.101973
PITG_14380	Pi lon protease, putative (2559 nt)	-14.6674	-1.82889	0.10225
PITG_12286	Pi ADP-ribosylation factor family (932 nt)	-11.6443	1.764478	0.102301
PITG_12663	Pi conserved hypothetical protein (3610 nt)	-13.9485	1.675998	0.1024
PITG_14595	Pi conserved hypothetical protein (702 nt)	-15.2201	-2.12074	0.102604
PITG_14634	Pi 1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methyl	-13.2553	-1.7463	0.102604
PITG_08768	Pi hypothetical protein (1452 nt)	-16.8119	-2.65583	0.102653
PITG_10557	Pi conserved hypothetical protein (1088 nt)	-16.8119	-2.65583	0.102653
PITG_06011	Pi 3'(2'),5'-bisphosphate nucleotidase, putative (2500 nt)	-16.5443	2.21584	0.102832
PITG_15866	Pi conserved hypothetical protein (1363 nt)	-14.2178	1.758305	0.102892
PITG_14297	Pi hypothetical protein (337 nt)	-14.3491	-2.22974	0.102913
PITG_01776	Pi hypothetical protein (678 nt)	-15.5573	-1.92498	0.103119

PITG_04555	Pi hypothetical protein (948 nt)	-15.5565	-1.92669	0.103119
PITG_16024	Pi riboflavin synthase subunit alpha, putative (732 nt)	-15.7785	-1.98327	0.103299
PITG_06722	Pi translation elongation factor 1-alpha, putative (1528 nt)	-8.58381	1.57604	0.103345
PITG_13835	Pi conserved hypothetical protein (934 nt)	-15.365	-1.94438	0.10343
PITG_11690	Pi conserved hypothetical protein (1864 nt)	-11.9034	-1.59873	0.103487
PITG_00166	Pi phosphoserine phosphatase (1163 nt)	-13.2758	1.657499	0.103573
PITG_14605	Pi conserved hypothetical protein (1100 nt)	-13.4294	-1.72447	0.10368
PITG_17004	Pi conserved hypothetical protein (3860 nt)	-16.008	-2.29307	0.10373
PITG_17947	Pi chitinase, putative (705 nt)	-11.4942	-1.71279	0.103737
PITG_17960	Pi Dicarboxylate/Amino Acid:Cation (Na or H ) Symporter (D	-17.0031	2.631021	0.103865
PITG_06662	Pi conserved hypothetical protein (2303 nt)	-13.8182	1.733384	0.10387
PITG_00297	Pi conserved hypothetical protein (1760 nt)	-12.1091	-1.75609	0.103918
PITG_15964	Pi conserved hypothetical protein (1639 nt)	-16.9013	3.204684	0.103945
PITG_09478	Pi conserved hypothetical protein (1284 nt)	-14.8583	1.87111	0.103959
PITG_12819	Pi carbohydrate esterase, putative (1076 nt)	-14.952	-1.97476	0.104324
PITG_02985	Pi conserved hypothetical protein (1470 nt)	-14.7312	-1.86779	0.10458
PITG_04589	Pi protein kinase (1190 nt)	-16.4681	-2.18868	0.104586
PITG_04949	Pi conserved hypothetical protein (1014 nt)	-16.4497	2.380759	0.104586
PITG_10032	Pi 6-phosphogluconate dehydrogenase (1661 nt)	-11.1213	-1.7588	0.10465
PITG_11262	Pi conserved hypothetical protein (719 nt)	-16.8656	-2.54956	0.104827
PITG_02596	Pi DC12 family protein (1726 nt)	-16.9622	-2.33845	0.104893
PITG_14675	Pi conserved hypothetical protein (1113 nt)	-16.9622	-2.33845	0.104893
PITG_22057	Pi conserved hypothetical protein (1659 nt)	-17.3538	-3.39085	0.104893
PITG_17028	Pi conserved hypothetical protein (7224 nt)	-15.966	-2.21961	0.104982
PITG_05361	Pi conserved hypothetical protein (1754 nt)	-16.5133	2.229032	0.105065
PITG_11046	Pi creatine kinase B-type (2280 nt)	-12.364	1.667156	0.105154
PITG_02022	Pi clathrin heavy chain (5547 nt)	-12.272	1.702658	0.105273
PITG_08537	Pi conserved hypothetical protein (1025 nt)	-12.4254	-1.67337	0.105473
PITG_00221	Pi tryptophan synthase, putative (1147 nt)	-15.9209	1.954564	0.105479
PITG_15195	Pi conserved hypothetical protein (2239 nt)	-14.2211	-1.86861	0.105535
PITG_01810	Pi Drug/Metabolite Transporter (DMT) Superfamily (1278 nt)	-14.9586	-1.86439	0.105848
PITG_20734	Pi conserved hypothetical protein (785 nt)	-11.3385	1.65281	0.105857
PITG_04996	Pi conserved hypothetical protein (1200 nt)	-13.2889	-1.66108	0.106047
PITG_15526	Pi ATP synthase subunit O, putative (696 nt)	-10.9208	1.592816	0.1061
PITG_05676	Pi histone H4 (468 nt)	-12.1779	-1.88397	0.106212
PITG_03513	Pi protein kinase, putative (1587 nt)	-13.5751	-1.66901	0.106385
PITG_08367	Pi conserved hypothetical protein (1429 nt)	-16.3249	-2.37848	0.106655
PITG_14917	Pi thioredoxin-like protein (2028 nt)	-13.6796	-1.72438	0.10667
PITG_14479	Pi conserved hypothetical protein (1394 nt)	-12.7797	-1.65229	0.106986
PITG_22568	Pi nuclease, putative (1077 nt)	-15.208	-1.97246	0.107065
PITG_02789	Pi E3 ubiquitin ligase , putative (1129 nt)	-17.6446	-2.94263	0.107124
PITG_05490	Pi conserved hypothetical protein (1609 nt)	-17.6446	-2.94263	0.107124
PITG_06987	Pi conserved hypothetical protein (924 nt)	-17.6446	-2.94263	0.107124
PITG_07073	Pi conserved hypothetical protein (1425 nt)	-17.6446	-2.94263	0.107124
PITG_08541	Pi conserved hypothetical protein (1195 nt)	-17.6446	-2.94263	0.107124
PITG_16733	Pi conserved hypothetical protein (1673 nt)	-15.5714	-1.89735	0.107145
PITG_11756	Pi Voltage-gated Ion Channel (VIC) Superfamily (3301 nt)	-16.8865	2.545481	0.107234

PITG_02764	Pi conserved hypothetical protein (967 nt)	-15.5309	-2.11065	0.107289
PITG_00716	Pi thioredoxin, putative (734 nt)	-11.8661	1.579009	0.107303
PITG_00467	Pi conserved hypothetical protein (720 nt)	-16.4802	2.048315	0.107324
PITG_02250	Pi conserved hypothetical protein (780 nt)	-16.3923	1.986916	0.107324
PITG_12600	Pi flagellar radial spoke protein, putative (1137 nt)	-15.2014	1.854039	0.107447
PITG_17480	Pi sodium-coupled neutral amino acid transporter, putative (	-14.2951	1.762251	0.108016
PITG_04185	Pi histone-lysine N-methyltransferase, putative (7129 nt)	-17.6094	-2.87069	0.108058
PITG_04919	Pi conserved hypothetical protein (1984 nt)	-17.6094	-2.87069	0.108058
PITG_11558	Pi beta-glucan synthesis-associated protein, putative (2101 r	-17.6094	-2.87069	0.108058
PITG_21335	Pi conserved hypothetical protein (737 nt)	-17.6094	-2.87069	0.108058
PITG_03432	Pi conserved hypothetical protein (7002 nt)	-16.4266	1.920171	0.108462
PITG_11250	Pi conserved hypothetical protein (600 nt)	-15.0118	-1.90133	0.108517
PITG_17706	Pi conserved hypothetical protein (2463 nt)	-15.0093	-1.81083	0.108596
PITG_04821	Pi conserved hypothetical protein (546 nt)	-14.9484	1.977613	0.10863
PITG_00200	Pi conserved hypothetical protein (592 nt)	-15.5319	-2.1093	0.108639
PITG_01790	Pi conserved hypothetical protein (2401 nt)	-17.6018	-3.0291	0.108998
PITG_12227	Pi conserved hypothetical protein (1112 nt)	-17.6018	-3.0291	0.108998
PITG_12714	Pi hypothetical protein (300 nt)	-17.6018	-3.0291	0.108998
PITG_19880	Pi hypothetical protein (285 nt)	-11.3649	1.634909	0.109028
PITG_18788	Pi tubulin/FtsZ family (3005 nt)	-12.8042	-1.82847	0.109058
PITG_16674	Pi conserved hypothetical protein (1474 nt)	-16.3151	2.393261	0.109076
PITG_03142	Pi hsp90-like protein (1411 nt)	-14.8296	-1.88641	0.109254
PITG_00545	Pi nucleoredoxin, putative (600 nt)	-13.397	-1.91369	0.109487
PITG_22657	Pi elongation factor 1-alpha, putative (278 nt)	-9.60573	1.590357	0.109638
PITG_02324	Pi hypothetical protein (598 nt)	-17.7205	-2.78048	0.109803
PITG_22203	Pi conserved hypothetical protein (771 nt)	-17.7205	-2.78048	0.109803
PITG_08585	Pi conserved hypothetical protein (807 nt)	-14.564	-1.74332	0.109805
PITG_17925	Pi pentafunctional AROM polypeptide, putative (4738 nt)	-15.6734	1.87707	0.109847
PITG_00724	Pi conserved hypothetical protein (460 nt)	-13.7011	-1.77355	0.109963
PITG_08155	Pi peptidyl-prolyl cis-trans isomerase, putative (1049 nt)	-15.426	1.916588	0.109997
PITG_01367	Pi palmitoyltransferase, putative (1059 nt)	-15.9465	-2.1777	0.11006
PITG_06732	Pi acyl-CoA dehydrogenase, putative (1461 nt)	-13.4221	-1.64547	0.11008
PITG_00256	Pi conserved hypothetical protein (1551 nt)	-16.1291	2.120183	0.110235
PITG_01072	Pi 5-methyltetrahydropteroyltriglutamate-homocysteine me	-11.6085	1.756972	0.110276
PITG_05562	Pi conserved hypothetical protein (3050 nt)	-15.3279	1.948727	0.110323
PITG_00627	Pi conserved hypothetical protein (859 nt)	-14.2066	-1.89346	0.110408
PITG_22671	Pi protein kinase, putative, pseudogene (819 nt)	-16.0031	-2.14594	0.110557
PITG_01390	Pi conserved hypothetical protein (2214 nt)	-14.6105	-1.87286	0.110649
PITG_22919	Pi conserved hypothetical protein (674 nt)	-16.7245	-2.70865	0.110757
PITG_12254	Pi conserved hypothetical protein (1917 nt)	-13.9618	-1.70779	0.110804
PITG_13320	Pi conserved hypothetical protein (279 nt)	-14.5056	1.831178	0.111064
PITG_12682	Pi cytochrome c (606 nt)	-11.1427	1.586896	0.111121
PITG_13376	Pi conserved hypothetical protein (1462 nt)	-15.7619	-2.08575	0.111177
PITG_12563	Pi Mitochondrial Carrier (MC) Family (1174 nt)	-15.5571	-1.9885	0.111233
PITG_02210	Pi phenylalanine-4-hydroxylase, henna-like protein (1920 nt)	-14.897	-1.79506	0.111408
PITG_06129	Pi conserved hypothetical protein (1938 nt)	-15.2872	-1.98635	0.111726
PITG_00180	Pi conserved hypothetical protein (1967 nt)	-16.0123	-2.1274	0.111843

PITG_18289	Pi ATP-binding Cassette (ABC) Superfamily (777 nt)	-16.5014	2.588052	0.111864
PITG_19547	Pi phosphatidylserine decarboxylase, putative (1121 nt)	-16.5014	2.588052	0.111864
PITG_16001	Pi regulator of chromosome condensation (RCC1), putative (	-16.4845	2.297904	0.111914
PITG_22095	Pi beta-glucosidase, putative (1900 nt)	-16.418	1.943105	0.111914
PITG_08801	Pi conserved hypothetical protein (4261 nt)	-15.0617	1.884913	0.111983
PITG_20727	Pi conserved hypothetical protein (3130 nt)	-14.1848	-1.70165	0.112038
PITG_00390	Pi conserved hypothetical protein (1591 nt)	-12.6088	-1.62437	0.11205
PITG_06723	Pi conserved hypothetical protein (973 nt)	-12.716	-1.66654	0.112202
PITG_05961	Pi conserved hypothetical protein (1560 nt)	-15.7987	-1.94278	0.112246
PITG_08013	Pi conserved hypothetical protein (879 nt)	-17.6761	-2.74922	0.112459
PITG_13722	Pi conserved hypothetical protein (1657 nt)	-17.7065	-2.80984	0.112459
PITG_16115	Pi conserved hypothetical protein (1116 nt)	-17.7065	-2.80984	0.112459
PITG_22684	Pi peptidyl-prolyl cis-trans isomerase, putative (1394 nt)	-17.7065	-2.80984	0.112459
PITG_03598	Pi 6-phosphofructokinase, putative (1636 nt)	-13.3875	1.83382	0.112503
PITG_20211	Pi phosphatidylinositol N-acetylglucosaminyltransferase subf	-15.5099	1.959133	0.112609
PITG_13576	Pi ATP-binding Cassette (ABC) Superfamily (4047 nt)	-16.3808	-2.38143	0.112613
PITG_13389	Pi conserved hypothetical protein (962 nt)	-16.1416	2.078082	0.112755
PITG_22459	Pi HSF-type DNA-binding protein, putative (909 nt)	-14.5307	1.681415	0.112893
PITG_21894	Pi conserved hypothetical protein (630 nt)	-16.6542	-2.84713	0.113066
PITG_23201	Pi conserved hypothetical protein (849 nt)	-16.6542	-2.84713	0.113066
PITG_02677	Pi DEAD/DEAH box RNA helicase, putative (1859 nt)	-16.96	-2.34736	0.113326
PITG_03998	Pi conserved hypothetical protein (7252 nt)	-16.8256	2.228359	0.113326
PITG_06213	Pi Resistance-Nodulation-Cell Division (RND) Superfamily (43	-17.3506	-3.393	0.113326
PITG_21942	Pi conserved hypothetical protein (532 nt)	-17.3506	-3.393	0.113326
PITG_18064	Pi conserved hypothetical protein (1916 nt)	-14.8355	1.767517	0.113416
PITG_10449	Pi ATP-binding Cassette (ABC) Superfamily (5896 nt)	-14.7985	-1.90248	0.113492
PITG_05621	Pi conserved hypothetical protein (1835 nt)	-15.7949	2.014552	0.11359
PITG_13488	Pi serine protease family S08A, putative (1548 nt)	-15.4679	-2.0429	0.113724
PITG_03609	Pi conserved hypothetical protein (3948 nt)	-15.7779	-1.98501	0.113857
PITG_18671	Pi ATP-binding Cassette (ABC) Superfamily (2077 nt)	-16.3553	-2.31673	0.114385
PITG_01989	Pi hypothetical protein (249 nt)	-16.9266	-2.41479	0.114407
PITG_21379	Pi conserved hypothetical protein (589 nt)	-15.9409	2.054045	0.114435
PITG_05012	Pi conserved hypothetical protein (1562 nt)	-14.5644	-1.76657	0.114448
PITG_22354	Pi hypothetical protein (586 nt)	-13.4043	-1.66734	0.114531
PITG_13103	Pi fimbrin-like protein (2695 nt)	-16.0502	-2.05225	0.114797
PITG_17272	Pi conserved hypothetical protein (1911 nt)	-16.0502	2.213401	0.114797
PITG_19229	Pi conserved hypothetical protein (531 nt)	-16.0502	-2.05225	0.114797
PITG_06405	Pi conserved hypothetical protein (2593 nt)	-17.2904	-3.50381	0.114935
PITG_07263	Pi conserved hypothetical protein (478 nt)	-16.8984	-2.48095	0.114935
PITG_17741	Pi serine protease family S33, putative (4095 nt)	-17.2904	-3.50381	0.114935
PITG_19679	Pi elongation factor G, putative (901 nt)	-17.2904	-3.50381	0.114935
PITG_19485	Pi CREG-like protein (834 nt)	-15.496	-2.18802	0.115064
PITG_05304	Pi Voltage-gated Ion Channel (VIC) Superfamily (4117 nt)	-15.6815	1.86586	0.115207
PITG_21727	Pi conserved hypothetical protein (4364 nt)	-15.7611	-2.01872	0.115207
PITG_14152	Pi conserved hypothetical protein (667 nt)	-15.1423	2.0567	0.11529
PITG_18037	Pi ubiquitin family protein, putative (1724 nt)	-14.2853	-1.70889	0.115483
PITG_10195	Pi acyl-CoA desaturase (1123 nt)	-13.2758	1.79794	0.115613



PITG_03143	Pi indigoidine synthase A family protein, putative (2864 nt)	-16.3585	-2.22561	0.115623
PITG_06593	Pi conserved hypothetical protein (1815 nt)	-16.3748	-2.27804	0.115623
PITG_12675	Pi sedoheptulokinase, putative (5416 nt)	-16.3576	-2.31227	0.115623
PITG_00816	Pi conserved hypothetical protein (2086 nt)	-16.603	2.371735	0.115718
PITG_01088	Pi sporangia induced dynein heavy chain (12490 nt)	-16.5137	1.975809	0.115718
PITG_06113	Pi hypothetical protein (419 nt)	-14.6745	-1.74185	0.115768
PITG_18432	Pi pre-mRNA cleavage complex II protein Clp1, putative (131	-14.0869	-1.71268	0.115786
PITG_21504	Pi cyclin-dependent kinase, putative (1162 nt)	-14.9943	-1.84084	0.115942
PITG_12526	Pi conserved hypothetical protein (1578 nt)	-13.742	-1.78213	0.115994
PITG_03930	Pi zinc phosphodiesterase, putative (2918 nt)	-16.9223	2.840078	0.116061
PITG_07838	Pi conserved hypothetical protein (1191 nt)	-16.9223	2.840078	0.116061
PITG_08089	Pi conserved hypothetical protein (1210 nt)	-16.8684	-2.54167	0.116061
PITG_01271	Pi protein kinase, putative (937 nt)	-15.1567	-1.88442	0.116166
PITG_14237	Pi glycoside hydrolase, putative (1854 nt)	-15.074	2.00873	0.116305
PITG_06635	Pi signal recognition particle, putative (2795 nt)	-13.644	-1.68144	0.116311
PITG_02516	Pi conserved hypothetical protein (1328 nt)	-17.3975	-3.30809	0.116357
PITG_21419	Pi conserved hypothetical protein (1162 nt)	-17.4335	-3.23599	0.116357
PITG_06056	Pi hypothetical protein (2034 nt)	-13.3873	1.703081	0.116394
PITG_09936	Pi conserved hypothetical protein (1312 nt)	-13.8604	-1.67215	0.11642
PITG_09798	Pi glucan 1,3-beta-glucosidase, putative (2238 nt)	-9.9436	1.5498	0.116429
PITG_21328	Pi hypothetical protein (1028 nt)	-14.1275	1.709707	0.1165
PITG_14967	Pi conserved hypothetical protein (844 nt)	-13.826	-1.69158	0.116563
PITG_03647	Pi hypothetical protein (351 nt)	-14.4611	1.804807	0.116591
PITG_00856	Pi conserved hypothetical protein (733 nt)	-12.5326	-1.90991	0.116591
PITG_19219	Pi conserved hypothetical protein (993 nt)	-16.2364	2.061902	0.116868
PITG_16263	Pi conserved hypothetical protein (929 nt)	-16.8005	-2.5573	0.116881
PITG_01896	Pi conserved hypothetical protein (2265 nt)	-17.7468	-2.73114	0.116982
PITG_05909	Pi conserved hypothetical protein (1665 nt)	-17.7468	-2.73114	0.116982
PITG_13716	Pi conserved hypothetical protein (1034 nt)	-17.7468	-2.73114	0.116982
PITG_15947	Pi hypothetical protein (912 nt)	-17.7468	-2.73114	0.116982
PITG_20266	Pi proteasome assembly chaperone, putative (1413 nt)	-14.6337	1.693577	0.117332
PITG_18092	Pi conserved hypothetical protein (4408 nt)	-16.0575	2.198606	0.117413
PITG_13341	Pi 2,4-dienoyl-CoA reductase, mitochondrial precursor (2285	-13.1973	-1.7706	0.117632
PITG_02849	Pi conserved hypothetical protein (2260 nt)	-14.687	-1.67713	0.117641
PITG_19418	Pi conserved hypothetical protein (2222 nt)	-15.0813	1.711391	0.11766
PITG_11122	Pi Amino Acid-Polyamine-Organocation (APC) Family (1686 r	-15.4828	-2.01344	0.117761
PITG_14021	Pi hypothetical protein (906 nt)	-16.4965	2.283425	0.117791
PITG_00828	Pi phosphatidylinositol kinase (PIK-5) (10555 nt)	-17.6953	-2.83457	0.117901
PITG_01054	Pi conserved hypothetical protein (2179 nt)	-17.7155	-2.66735	0.117901
PITG_02635	Pi conserved hypothetical protein (2136 nt)	-17.7155	-2.66735	0.117901
PITG_09785	Pi lipase maturation factor 2 (2229 nt)	-17.6953	-2.83457	0.117901
PITG_17811	Pi patatin-like phospholipase, putative (1557 nt)	-17.6953	-2.83457	0.117901
PITG_05959	Pi conserved hypothetical protein (588 nt)	-12.5405	-2.12963	0.117991
PITG_01590	Pi conserved hypothetical protein (1187 nt)	-16.7563	2.500162	0.11805
PITG_21312	Pi conserved hypothetical protein (510 nt)	-15.8875	-2.37403	0.11823
PITG_04903	Pi conserved hypothetical protein (1386 nt)	-17.0186	-2.22159	0.11848
PITG_03166	Pi vesicle-associated membrane protein, putative (1044 nt)	-13.8577	-1.78185	0.118599

PITG_01200	Pi conserved hypothetical protein (645 nt)	-15.0272	2.065551	0.118612
PITG_02292	Pi protein phosphatase, putative (3132 nt)	-14.023	-1.69455	0.118667
PITG_09287	Pi sporangia induced hypothetical protein (576 nt)	-13.9956	1.656171	0.118667
PITG_05832	Pi delta-1-pyrroline-5-carboxylate synthetase, putative (951	-16.051	-1.97462	0.11873
PITG_15833	Pi conserved hypothetical protein (1646 nt)	-14.8658	-1.90633	0.118731
PITG_13301	Pi H - or Na -translocating F-type, V-type and A-type ATPase	-13.0732	1.723696	0.118752
PITG_06150	Pi conserved hypothetical protein (1446 nt)	-14.4366	-1.68894	0.118755
PITG_06918	Pi conserved hypothetical protein (453 nt)	-14.0887	-1.65204	0.118787
PITG_01645	Pi conserved hypothetical protein (1678 nt)	-17.6638	-2.77031	0.118825
PITG_14461	Pi actin-like protein (1370 nt)	-17.6638	-2.77031	0.118825
PITG_20215	Pi conserved hypothetical protein (930 nt)	-14.7791	-1.77147	0.118973
PITG_22931	Pi conserved hypothetical protein (1266 nt)	-15.8326	2.31909	0.119101
PITG_03244	Pi conserved hypothetical protein (1787 nt)	-14.9751	1.801302	0.119105
PITG_20824	Pi aspartyl-tRNA synthetase, putative (659 nt)	-15.0887	1.732126	0.11916
PITG_08026	Pi DEAD/DEAH box RNA helicase, putative (2571 nt)	-16.5993	2.106749	0.119224
PITG_09024	Pi Metal Ion (Mn2 -iron) Transporter (Nramp) Family (2044 r	-15.7577	2.093688	0.119295
PITG_11203	Pi anoctamin-like protein (2730 nt)	-16.2453	2.045825	0.119375
PITG_02343	Pi kinesin-like protein (5133 nt)	-14.8018	1.707532	0.119509
PITG_05669	Pi conserved hypothetical protein (2501 nt)	-14.9075	-1.91792	0.119509
PITG_00026	Pi ankyrin-like protein (1390 nt)	-17.4268	-3.24792	0.119549
PITG_06454	Pi adenosylmethionine-8-amino-7-oxononanoate aminotran	-15.9126	-2.23882	0.119778
PITG_05302	Pi replication factor C subunit 5 (1129 nt)	-14.8255	-1.80629	0.119793
PITG_22416	Pi conserved hypothetical protein (990 nt)	-10.9693	-2.71065	0.119929
PITG_18376	Pi conserved hypothetical protein (635 nt)	-13.8724	-1.78077	0.120375
PITG_03533	Pi endo-1,3(4)-beta-glucanase, putative (1717 nt)	-15.6929	1.836833	0.120406
PITG_18977	Pi HECT E3 ubiquitin ligase, putative (2660 nt)	-15.7953	-1.95002	0.120406
PITG_09253	Pi conserved hypothetical protein (559 nt)	-12.7507	1.558203	0.120409
PITG_20313	Pi Cation Diffusion Facilitator (CDF) Family (988 nt)	-13.7316	1.602251	0.12059
PITG_10762	Pi transmembrane protein, putative (1989 nt)	-17.0038	-2.25243	0.120624
PITG_04532	Pi conserved hypothetical protein (1101 nt)	-16.3707	-2.28676	0.120638
PITG_15250	Pi conserved hypothetical protein (672 nt)	-13.38	1.588073	0.120822
PITG_18446	Pi 26S protease regulatory subunit 6B (1345 nt)	-13.7109	1.707468	0.120924
PITG_06806	Pi hypothetical protein (324 nt)	-12.6579	-1.66029	0.121029
PITG_09131	Pi conserved hypothetical protein (757 nt)	-12.6567	1.546317	0.121067
PITG_18165	Pi conserved hypothetical protein (611 nt)	-8.98612	-1.57743	0.121084
PITG_18117	Pi conserved hypothetical protein (1272 nt)	-15.1825	-2.07384	0.121103
PITG_00560	Pi conserved hypothetical protein (1537 nt)	-15.9703	1.994378	0.121383
PITG_06684	Pi conserved hypothetical protein (1592 nt)	-16.7242	-2.70844	0.121391
PITG_07642	Pi hypothetical protein (222 nt)	-15.1516	1.924999	0.121443
PITG_20321	Pi retinol dehydrogenase, putative (1053 nt)	-13.6805	-1.71945	0.121496
PITG_07953	Pi 3-ketoacyl-CoA thiolase A (1340 nt)	-14.0159	-1.62646	0.121501
PITG_07071	Pi conserved hypothetical protein (996 nt)	-16.7528	-2.65244	0.12159
PITG_09598	Pi U4/U6.U5 tri-snRNP-associated protein, putative (2208 nt	-14.4471	-1.73769	0.122029
PITG_21005	Pi conserved hypothetical protein (1281 nt)	-15.7992	-2.08532	0.122054
PITG_20623	Pi conserved hypothetical protein (405 nt)	-15.4952	1.898877	0.122155
PITG_03058	Pi cytochrome P450, putative (1587 nt)	-15.4974	-1.98451	0.122528
PITG_21128	Pi succinyl CoA transferase, putative (1914 nt)	-12.5776	-1.63035	0.122617

PITG_05609	Pi conserved hypothetical protein (1362 nt)	-16.0423	-2.06762	0.122718
PITG_06996	Pi conserved hypothetical protein (807 nt)	-14.5497	-1.81374	0.122828
PITG_22575	Pi Drug/Metabolite Transporter (DMT) Superfamily (1056 nt)	-14.753	1.692453	0.122953
PITG_04442	Pi conserved hypothetical protein (417 nt)	-16.0123	-2.29433	0.123231
PITG_19823	Pi conserved hypothetical protein (362 nt)	-14.2944	1.675862	0.123525
PITG_15957	Pi serine protease family S33, putative (1008 nt)	-15.4571	-2.06379	0.123815
PITG_02712	Pi conserved hypothetical protein (1495 nt)	-14.6371	-1.90372	0.123971
PITG_19032	Pi conserved hypothetical protein (2686 nt)	-16.0514	-2.12645	0.12406
PITG_13597	Pi conserved hypothetical protein (861 nt)	-10.2946	-1.58761	0.124379
PITG_14816	Pi conserved hypothetical protein (1632 nt)	-14.722	-1.76088	0.124622
PITG_10168	Pi conserved hypothetical protein (357 nt)	-13.2203	-1.65851	0.12472
PITG_16211	Pi conserved hypothetical protein (2250 nt)	-15.5718	-1.89738	0.124874
PITG_02592	Pi conserved hypothetical protein (565 nt)	-16.547	2.496504	0.124878
PITG_15354	Pi hypothetical protein (362 nt)	-15.2369	-1.83273	0.124934
PITG_01228	Pi conserved hypothetical protein (801 nt)	-16.9982	-2.26593	0.124976
PITG_09981	Pi conserved hypothetical protein (1287 nt)	-17.0347	-2.1929	0.124976
PITG_06236	Pi cleavage induced protein kinase (1250 nt)	-16.5482	2.163084	0.125182
PITG_08933	Pi calcium/calmodulin-dependent 3',5'-cyclic nucleotide pho	-16.6085	2.083273	0.125182
PITG_12115	Pi calmodulin-like protein (2661 nt)	-16.446	1.879432	0.125182
PITG_02322	Pi conserved hypothetical protein (1615 nt)	-14.6716	1.806129	0.125254
PITG_01065	Pi folylpolyglutamate synthase, putative (1754 nt)	-15.8363	-1.86748	0.125358
PITG_03169	Pi GPN-loop GTPase, putative (3919 nt)	-15.8172	-1.90567	0.125358
PITG_17030	Pi conserved hypothetical protein (1248 nt)	-15.8162	-1.90769	0.125358
PITG_12211	Pi methionine aminopeptidase, putative (1152 nt)	-16.042	-2.1456	0.125407
PITG_11434	Pi conserved hypothetical protein (1099 nt)	-15.749	2.0011	0.12597
PITG_18867	Pi tRNA-dihydrouridine synthase, putative (732 nt)	-15.7957	-2.0188	0.12597
PITG_05855	Pi protein kinase, putative (2558 nt)	-14.1419	-1.63196	0.126267
PITG_09724	Pi conserved hypothetical protein (1302 nt)	-12.6496	-1.55646	0.126361
PITG_02382	Pi conserved hypothetical protein (506 nt)	-16.5394	-2.03958	0.12639
PITG_06893	Pi conserved hypothetical protein (2139 nt)	-16.5544	-2.00952	0.12639
PITG_09880	Pi conserved hypothetical protein (504 nt)	-16.5544	-2.00952	0.12639
PITG_08019	Pi conserved hypothetical protein (1655 nt)	-15.4834	-2.0116	0.126535
PITG_06937	Pi metalloprotease family M48X, putative (903 nt)	-15.7118	-2.19776	0.1267
PITG_03223	Pi conserved hypothetical protein (1665 nt)	-14.6495	-1.75396	0.126726
PITG_06376	Pi guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit	-12.9167	1.6057	0.12676
PITG_02105	Pi uracil phosphoribosyltransferase, putative (815 nt)	-15.1028	-1.77086	0.12676
PITG_12575	Pi autophagocytosis associated protein, putative (2043 nt)	-12.9009	-1.55724	0.126774
PITG_18786	Pi conserved hypothetical protein (1083 nt)	-14.9271	-1.73489	0.126942
PITG_16826	Pi conserved hypothetical protein (5579 nt)	-15.0839	-1.81132	0.127383
PITG_07723	Pi Major Facilitator Superfamily (MFS) (1533 nt)	-16.7507	-2.65623	0.127604
PITG_14094	Pi conserved hypothetical protein (1700 nt)	-16.7507	-2.65623	0.127604
PITG_07857	Pi conserved hypothetical protein (1530 nt)	-15.6523	1.858871	0.127648
PITG_08874	Pi conserved hypothetical protein (1050 nt)	-14.7212	-1.7212	0.127872
PITG_22358	Pi conserved hypothetical protein (1483 nt)	-14.5166	1.774121	0.128012
PITG_00450	Pi conserved hypothetical protein (6882 nt)	-15.4208	-1.83451	0.12802
PITG_14563	Pi ubiquinone biosynthesis monooxygenase, putative (1482 nt)	-14.1529	1.641937	0.128061
PITG_00119	Pi hypothetical protein (1089 nt)	-15.6194	-1.80116	0.128177

PITG_14553	Pi hypothetical protein (1295 nt)	-14.9106	-1.81425	0.128309
PITG_05787	Pi hypothetical protein (616 nt)	-16.0904	-1.97191	0.128534
PITG_21648	Pi RXLR effector family, putative (1819 nt)	-16.7182	-2.71908	0.128658
PITG_00380	Pi sphingosine-1-phosphate lyase, putative (1905 nt)	-14.1096	-1.61016	0.12878
PITG_20766	Pi protein kinase, putative (2115 nt)	-14.7173	1.677348	0.128793
PITG_05618	Pi phosphatidylinositol 4-phosphate 5-kinase (PIPK-D3/GPCR	-16.5349	2.195351	0.128824
PITG_20526	Pi conserved hypothetical protein (3370 nt)	-16.5349	2.195351	0.128824
PITG_16879	Pi conserved hypothetical protein (393 nt)	-13.5176	-1.59883	0.12901
PITG_05761	Pi transmembrane protein, putative (4754 nt)	-16.3253	-2.3806	0.129356
PITG_14924	Pi conserved hypothetical protein (524 nt)	-13.0103	-1.73688	0.129371
PITG_17685	Pi conserved hypothetical protein (1189 nt)	-17.0001	-2.26431	0.129415
PITG_05004	Pi aspartyl protease family A01A, putative (1946 nt)	-16.0538	-2.04424	0.129485
PITG_06155	Pi conserved hypothetical protein (1230 nt)	-14.068	1.685031	0.129637
PITG_00554	Pi conserved hypothetical protein (1203 nt)	-16.3598	-2.12906	0.129639
PITG_13461	Pi sporangia induced deflagellation-inducible protein (463 nt	-14.1494	1.643683	0.129783
PITG_11855	Pi C2 domain-containing protein, putative (1198 nt)	-11.6001	-1.97264	0.129899
PITG_00894	Pi carbohydrate-binding protein, putative (1712 nt)	-16.5227	-2.08447	0.130006
PITG_14704	Pi conserved hypothetical protein (804 nt)	-16.723	-2.59401	0.130006
PITG_03618	Pi conserved hypothetical protein (2139 nt)	-16.4683	1.842599	0.130049
PITG_04125	Pi glycosyl transferase, putative (1548 nt)	-11.6195	-1.79869	0.130503
PITG_02553	Pi conserved hypothetical protein (1261 nt)	-15.5891	-1.92711	0.130683
PITG_10942	Pi conserved hypothetical protein (1319 nt)	-11.6769	-1.56556	0.130836
PITG_20798	Pi ribosomal protein S17, putative (423 nt)	-12.9455	1.54172	0.1309
PITG_05305	Pi conserved hypothetical protein (1732 nt)	-16.273	2.209517	0.130948
PITG_16348	Pi crinkler (CRN) family protein, pseudogene (1519 nt)	-13.9343	-1.65469	0.13095
PITG_00381	Pi serine protease family S54, putative (1348 nt)	-14.7962	-1.69553	0.130965
PITG_07029	Pi palmitoyl-protein thioesterase 1, putative (1415 nt)	-13.3452	-1.59111	0.131081
PITG_03467	Pi conserved hypothetical protein (1085 nt)	-15.6192	-1.80186	0.131105
PITG_10624	Pi conserved hypothetical protein (1868 nt)	-15.6364	-1.82906	0.131105
PITG_21023	Pi conserved hypothetical protein (1979 nt)	-15.6029	-1.83456	0.131105
PITG_07758	Pi conserved hypothetical protein (1114 nt)	-14.9666	-2.11568	0.131137
PITG_02194	Pi conserved hypothetical protein (1662 nt)	-16.1109	-2.00565	0.131267
PITG_03806	Pi aspartyl-tRNA synthetase, putative (1582 nt)	-16.0872	-2.05321	0.131267
PITG_05701	Pi NAD-dependent glycerol-3-phosphate dehydrogenase (10	-16.1109	-2.00565	0.131267
PITG_05365	Pi serine/threonine protein kinase (718 nt)	-17.7404	-2.75024	0.131292
PITG_17286	Pi ATP-binding Cassette (ABC) Superfamily (5919 nt)	-17.7404	-2.75024	0.131292
PITG_05584	Pi hypothetical protein (1111 nt)	-13.374	-1.73063	0.131415
PITG_02193	Pi conserved hypothetical protein (1009 nt)	-14.9643	1.773277	0.131513
PITG_01062	Pi S-adenosylmethionine decarboxylase proenzyme, putative	-14.5021	1.744034	0.131515
PITG_04671	Pi conserved hypothetical protein (981 nt)	-15.7839	-1.90272	0.131632
PITG_05259	Pi DNA excision repair protein ERCC-6 (3159 nt)	-15.7963	-2.01918	0.131632
PITG_01777	Pi presenilin-like protein (2926 nt)	-13.7132	-1.54564	0.131736
PITG_22689	Pi hypothetical protein (1677 nt)	-14.8172	2.099274	0.132035
PITG_00399	Pi nuclear ribonuclease Z, putative (989 nt)	-16.2564	-2.31665	0.132149
PITG_18397	Pi conserved hypothetical protein (1272 nt)	-16.1305	-2.06497	0.132149
PITG_20744	Pi conserved hypothetical protein (641 nt)	-16.53	2.603912	0.132263
PITG_10940	Pi aldehyde dehydrogenase, mitochondrial precursor (1677 nt)	-12.8725	1.580896	0.132275

PITG_23045	Pi isoamyl acetate-hydrolyzing esterase, putative (735 nt)	-15.6006	2.178827	0.132282
PITG_06613	Pi hypothetical protein (645 nt)	-17.6908	-2.84979	0.132287
PITG_08309	Pi myosin-like protein (2585 nt)	-17.7057	-2.67921	0.132287
PITG_09477	Pi ATP-binding Cassette (ABC) Superfamily (5537 nt)	-17.6908	-2.84979	0.132287
PITG_12969	Pi conserved hypothetical protein (1500 nt)	-17.7057	-2.67921	0.132287
PITG_18036	Pi conserved hypothetical protein (863 nt)	-17.7057	-2.67921	0.132287
PITG_20204	Pi conserved hypothetical protein (6207 nt)	-17.6908	-2.84979	0.132287
PITG_20333	Pi conserved hypothetical protein (1223 nt)	-17.6908	-2.84979	0.132287
PITG_16005	Pi methylmalonate-semialdehyde dehydrogenase, mitochondon	-10.6841	-1.52613	0.132468
PITG_06296	Pi ATP-binding Cassette (ABC) Superfamily (5895 nt)	-16.9299	-2.4175	0.132518
PITG_17145	Pi conserved hypothetical protein (2440 nt)	-17.35	-3.38517	0.132518
PITG_02920	Pi conserved hypothetical protein (466 nt)	-16.0851	-1.98222	0.132642
PITG_04262	Pi cysteine protease family C59, putative (1473 nt)	-16.0851	-1.98222	0.132642
PITG_08506	Pi conserved hypothetical protein (649 nt)	-17.4164	-3.26244	0.1328
PITG_19208	Pi conserved hypothetical protein (1612 nt)	-17.4164	-3.26244	0.1328
PITG_00188	Pi kinesin-like protein (3667 nt)	-15.497	-1.98464	0.132976
PITG_04522	Pi peptidyl-prolyl cis-trans isomerase (683 nt)	-9.12449	1.462587	0.133038
PITG_13178	Pi elongation of very long chain fatty acids protein, putative	-13.5312	1.576816	0.133046
PITG_19817	Pi conserved hypothetical protein (951 nt)	-13.7008	1.606992	0.133058
PITG_08156	Pi conserved hypothetical protein (483 nt)	-15.628	2.219466	0.133155
PITG_13150	Pi phosphatidylinositol kinase (7680 nt)	-17.6558	-2.77831	0.133286
PITG_13873	Pi alpha-glucosidase, putative (2582 nt)	-17.6558	-2.77831	0.133286
PITG_15838	Pi conserved hypothetical protein (1857 nt)	-17.6558	-2.77831	0.133286
PITG_21284	Pi leukotriene A-4 hydrolase, putative (2778 nt)	-17.6558	-2.77831	0.133286
PITG_21724	Pi conserved hypothetical protein (2546 nt)	-17.6558	-2.77831	0.133286
PITG_18902	Pi conserved hypothetical protein (1976 nt)	-16.3462	-2.33734	0.133584
PITG_07711	Pi Major Facilitator Superfamily (MFS) (1383 nt)	-11.9622	1.563242	0.133678
PITG_12852	Pi conserved hypothetical protein (1682 nt)	-14.4488	-1.73554	0.133687
PITG_01524	Pi RING-box protein 1 (724 nt)	-11.9637	1.482084	0.133744
PITG_19298	Pi sugar phosphate exchanger, putative (1633 nt)	-14.2754	-1.72686	0.133747
PITG_05311	Pi kinetochore protein NUF2-like protein (1412 nt)	-15.8132	-1.91406	0.13388
PITG_03113	Pi conserved hypothetical protein (741 nt)	-12.6576	-1.55233	0.133909
PITG_07950	Pi Voltage-gated Ion Channel (VIC) Superfamily (2783 nt)	-17.0183	2.614216	0.13394
PITG_13614	Pi malate dehydrogenase, mitochondrial precursor (1175 nt)	-12.1169	1.564835	0.133967
PITG_16852	Pi hypothetical protein (297 nt)	-14.764	-2.01935	0.134039
PITG_18797	Pi conserved hypothetical protein (1978 nt)	-13.8793	-1.66253	0.134233
PITG_15569	Pi calpain-like protease (2958 nt)	-16.4102	-2.12203	0.134557
PITG_19205	Pi conserved hypothetical protein (3550 nt)	-16.283	1.968695	0.134557
PITG_02046	Pi V-type proton ATPase 16 kDa proteolipid subunit, putative	-10.6506	1.459476	0.134974
PITG_06204	Pi conserved hypothetical protein (2248 nt)	-11.8661	-1.57981	0.135101
PITG_12676	Pi cyclin-like protein (1923 nt)	-13.0173	-1.51673	0.13527
PITG_11979	Pi conserved hypothetical protein (585 nt)	-16.1044	-2.01969	0.135409
PITG_05488	Pi hypothetical protein (2284 nt)	-16.8179	-2.52269	0.135527
PITG_16054	Pi 60S ribosomal export protein nmd3, putative (1500 nt)	-16.8548	-2.44891	0.135527
PITG_22164	Pi conserved hypothetical protein (502 nt)	-16.8179	-2.52269	0.135527
PITG_13757	Pi conserved hypothetical protein (1170 nt)	-15.524	1.70564	0.135542
PITG_12996	Pi conserved hypothetical protein (1007 nt)	-14.6428	-1.68776	0.135659

PITG_14194	Pi carbohydrate esterase, putative (1356 nt)	-15.3018	-1.95741	0.135849
PITG_00291	Pi scavenger mRNA-decapping enzyme DcpS, putative (1522	-16.3757	-2.19073	0.135875
PITG_17867	Pi conserved hypothetical protein (1769 nt)	-15.7634	-2.01501	0.136229
PITG_13428	Pi conserved hypothetical protein (792 nt)	-13.8176	-1.6115	0.136303
PITG_03414	Pi cysteine protease family C01A, putative (1431 nt)	-15.1565	1.764217	0.136311
PITG_13347	Pi IMP-specific 5'-nucleotidase, putative (1463 nt)	-14.677	-1.74003	0.136616
PITG_13397	Pi protein kinase, putative (2544 nt)	-14.9267	-1.78203	0.136629
PITG_09977	Pi conserved hypothetical protein (1929 nt)	-16.8274	-2.50358	0.136757
PITG_11130	Pi conserved hypothetical protein (4116 nt)	-16.649	2.010532	0.136757
PITG_08565	Pi conserved hypothetical protein (624 nt)	-12.4154	1.489475	0.136762
PITG_09289	Pi eukaryotic translation initiation factor 3 subunit F, putativ	-13.7648	1.536563	0.136918
PITG_13828	Pi histone H3 (698 nt)	-16.3948	-2.23854	0.137199
PITG_22549	Pi deoxyribose-phosphate aldolase 1 (860 nt)	-16.4129	-2.11592	0.137199
PITG_01248	Pi polyadenylate-binding protein 1-B (2432 nt)	-10.8107	1.451067	0.137225
PITG_02691	Pi hypothetical protein (4334 nt)	-15.4171	2.002493	0.137258
PITG_04820	Pi conserved hypothetical protein (1802 nt)	-13.6078	-1.54336	0.137266
PITG_07436	Pi hypothetical protein (1894 nt)	-12.1447	-1.77627	0.137783
PITG_03865	Pi conserved hypothetical protein (1392 nt)	-15.0541	-1.67426	0.137867
PITG_06452	Pi formin-homology 2 domain-containing protein (2602 nt)	-16.0628	-2.02651	0.138198
PITG_07086	Pi Major Facilitator Superfamily (MFS) (1455 nt)	-15.8102	1.905567	0.138217
PITG_17335	Pi charged multivesicular body protein 2a (858 nt)	-14.4518	-1.65867	0.138354
PITG_21075	Pi conserved hypothetical protein (684 nt)	-15.6386	-1.76244	0.138446
PITG_02785	Pi fructose-bisphosphate aldolase (1314 nt)	-12.8197	-1.57667	0.138704
PITG_03131	Pi M96 mating-specific protein family (2995 nt)	-14.9446	2.288974	0.138712
PITG_11877	Pi conserved hypothetical protein (1913 nt)	-14.7994	1.751713	0.138767
PITG_12233	Pi phosphatidic acid phosphatase (1195 nt)	-14.7677	1.666602	0.138767
PITG_23141	Pi cyclin-dependent kinase, putative (1847 nt)	-15.748	1.916841	0.138844
PITG_04483	Pi conserved hypothetical protein (2088 nt)	-13.6308	-1.71367	0.138854
PITG_02608	Pi autophagy-related protein, putative (1744 nt)	-16.0627	-2.10718	0.139207
PITG_10463	Pi conserved hypothetical protein (953 nt)	-12.7578	1.54317	0.139342
PITG_15885	Pi conserved hypothetical protein (1447 nt)	-15.0671	-1.74258	0.139499
PITG_21056	Pi conserved hypothetical protein (309 nt)	-15.7321	-2.23746	0.139699
PITG_00075	Pi conserved hypothetical protein (4353 nt)	-16.357	2.044927	0.139863
PITG_03168	Pi hypothetical protein (287 nt)	-12.5511	1.535218	0.139873
PITG_09931	Pi conserved hypothetical protein (759 nt)	-14.4961	-1.7534	0.140102
PITG_16834	Pi exodeoxyribonuclease (1177 nt)	-13.9646	-1.5933	0.140184
PITG_08481	Pi regulator of chromosome condensation (RCC1)-like protei	-16.0079	-2.21982	0.140325
PITG_03863	Pi conserved hypothetical protein (2538 nt)	-16.8399	-2.4784	0.140479
PITG_16224	Pi conserved hypothetical protein (1772 nt)	-16.8399	-2.4784	0.140479
PITG_08460	Pi lipin-like protein (2193 nt)	-16.0732	-2.0864	0.140619
PITG_10141	Pi conserved hypothetical protein (2682 nt)	-14.8426	-1.60171	0.140738
PITG_19581	Pi crinkler (CRN) family protein, pseudogene (2543 nt)	-11.0342	-1.5767	0.140741
PITG_20783	Pi hypothetical protein (1593 nt)	-14.9256	1.74195	0.140827
PITG_19736	Pi alcohol dehydrogenase, putative (1016 nt)	-15.5535	1.782163	0.141081
PITG_01107	Pi conserved hypothetical protein (1743 nt)	-14.4972	-1.84511	0.141106
PITG_23066	Pi phosphatidylinositol 4-phosphate 5-kinase (PIPK-D11/GPC	-15.5894	1.709092	0.141464
PITG_05227	Pi conserved hypothetical protein (2034 nt)	-15.6036	-1.8343	0.141536

PITG_04711	Pi conserved hypothetical protein (569 nt)	-16.0564	2.36448	0.14175
PITG_10382	Pi conserved hypothetical protein (1263 nt)	-15.3993	1.599942	0.141893
PITG_06119	Pi conserved hypothetical protein (1070 nt)	-13.9621	1.511397	0.142183
PITG_14001	Pi mitogen-activated protein kinase, putative (1218 nt)	-13.9192	1.532844	0.142359
PITG_23240	Pi conserved hypothetical protein (266 nt)	-17.4717	-3.15964	0.142396
PITG_13439	Pi conserved hypothetical protein (775 nt)	-16.0649	-1.94404	0.142422
PITG_14723	Pi conserved hypothetical protein (1040 nt)	-12.4977	-1.52513	0.142496
PITG_13726	Pi Ca <sup>2+</sup> :Cation Antiporter (CaCA) Family (1305 nt)	-13.798	1.528075	0.142537
PITG_00829	Pi conserved hypothetical protein (456 nt)	-16.4181	-2.19255	0.142547
PITG_05113	Pi hypothetical protein (1175 nt)	-13.2239	1.517281	0.142548
PITG_07111	Pi conserved hypothetical protein (1333 nt)	-15.0905	-1.74389	0.142777
PITG_03520	Pi conserved hypothetical protein (1531 nt)	-14.3507	-1.61064	0.142777
PITG_13132	Pi caltractin (659 nt)	-11.7313	1.537548	0.143121
PITG_00259	Pi conserved hypothetical protein (849 nt)	-15.8197	1.979113	0.143241
PITG_17034	Pi Annexin (Annexin) Family (987 nt)	-10.1178	-1.64153	0.143247
PITG_05593	Pi conserved hypothetical protein (459 nt)	-11.9167	1.488149	0.143362
PITG_03583	Pi putative secreted protein (462 nt)	-10.7572	1.699815	0.143415
PITG_11955	Pi conserved hypothetical protein (1249 nt)	-11.2474	-2.51775	0.143425
PITG_09956	Pi pre-mRNA-processing factor, putative (2947 nt)	-15.5259	-1.92708	0.143449
PITG_05595	Pi conserved hypothetical protein (5505 nt)	-15.4122	1.781693	0.143709
PITG_05805	Pi tryptophan synthase (1338 nt)	-16.0976	-1.9567	0.14384
PITG_04010	Pi APS kinase/ATP sulfurlyase/pyrophosphatase fusion prote	-13.3942	-1.60467	0.144063
PITG_01821	Pi conserved hypothetical protein (1265 nt)	-16.567	2.121512	0.144245
PITG_13613	Pi P-type ATPase (P-ATPase) Superfamily (2145 nt)	-16.8358	-2.48627	0.144245
PITG_15254	Pi conserved hypothetical protein (426 nt)	-16.567	2.121512	0.144245
PITG_21163	Pi GAF domain-containing protein (2247 nt)	-16.567	2.121512	0.144245
PITG_14751	Pi conserved hypothetical protein (1574 nt)	-14.3424	-1.65932	0.144253
PITG_01241	Pi conserved hypothetical protein (453 nt)	-16.3381	-2.16373	0.144357
PITG_01647	Pi conserved hypothetical protein (1958 nt)	-15.286	-1.67871	0.144481
PITG_02902	Pi carbohydrate esterase, putative (1228 nt)	-13.0293	1.509885	0.144487
PITG_08900	Pi protein kinase (1363 nt)	-17.0513	-2.15626	0.144666
PITG_18726	Pi conserved hypothetical protein (1282 nt)	-17.0603	-2.1382	0.144666
PITG_00997	Pi conserved hypothetical protein (645 nt)	-11.2915	1.445226	0.144841
PITG_01690	Pi conserved hypothetical protein (1475 nt)	-17.7604	-2.70154	0.144849
PITG_03341	Pi conserved hypothetical protein (1303 nt)	-15.3645	-1.77651	0.14511
PITG_16337	Pi ribosomal RNA methyltransferase, putative (971 nt)	-14.7305	-1.62988	0.145225
PITG_10905	Pi conserved hypothetical protein (1815 nt)	-14.2093	-1.59225	0.145236
PITG_16383	Pi Major Facilitator Superfamily (MFS) (1536 nt)	-16.5512	2.575317	0.145252
PITG_20377	Pi tRNA pseudouridine synthase (1476 nt)	-15.9852	1.8349	0.145264
PITG_05451	Pi hypothetical protein (1565 nt)	-13.5755	-2.50882	0.145378
PITG_02997	Pi conserved hypothetical protein (7869 nt)	-16.6784	2.223486	0.145511
PITG_16395	Pi conserved hypothetical protein (2016 nt)	-16.6784	2.223486	0.145511
PITG_16686	Pi conserved hypothetical protein (549 nt)	-16.5894	-1.93832	0.145511
PITG_02073	Pi conserved hypothetical protein (14444 nt)	-16.5353	1.937332	0.145511
PITG_12567	Pi sporangia induced conserved hypothetical protein (1539 r	-16.5353	1.937332	0.145511
PITG_16358	Pi RING Finger Ubiquitin ligase, putative (1245 nt)	-13.894	1.521695	0.145521
PITG_00045	Pi myosin-like protein (4243 nt)	-13.0277	-1.56316	0.1458

PITG_10547	Pi hypothetical protein (524 nt)	-17.0849	-2.08959	0.145808
PITG_14413	Pi protein kinase, putative (2688 nt)	-17.0429	-2.17355	0.145808
PITG_16740	Pi conserved hypothetical protein (1653 nt)	-17.0849	-2.08959	0.145808
PITG_15531	Pi glutathione S-transferase, putative (1086 nt)	-12.4413	-1.5614	0.145968
PITG_06808	Pi trehalase, putative (1971 nt)	-15.5924	1.791616	0.146029
PITG_01771	Pi monothiol glutaredoxin-5, mitochondrial precursor (762 n	-12.7729	1.454228	0.146218
PITG_14561	Pi Chloride Channel (ClC) Family (2991 nt)	-15.8543	-1.76441	0.146219
PITG_04571	Pi conserved hypothetical protein (802 nt)	-15.9951	1.947558	0.146326
PITG_11323	Pi conserved hypothetical protein (2178 nt)	-12.2478	-1.43353	0.146467
PITG_05748	Pi conserved hypothetical protein (1156 nt)	-14.2364	-1.63053	0.146571
PITG_00506	Pi syntaxin 7-like protein (1139 nt)	-13.7028	-1.47827	0.146685
PITG_03755	Pi aspartate aminotransferase, putative (2506 nt)	-16.5851	-1.94762	0.146782
PITG_06630	Pi conserved hypothetical protein (6368 nt)	-16.5149	1.74162	0.146782
PITG_06720	Pi conserved hypothetical protein (5418 nt)	-16.5149	1.74162	0.146782
PITG_07012	Pi transmembrane protein, putative (3789 nt)	-16.5043	1.762913	0.146782
PITG_13014	Pi proliferation-associated protein, metalloprotease family N	-12.6062	1.714723	0.146869
PITG_05263	Pi guanine deaminase, putative (1486 nt)	-14.9972	-2.05747	0.146933
PITG_14549	Pi phosphatidic acid phosphatase (1026 nt)	-14.4463	-1.62204	0.146988
PITG_09554	Pi conserved hypothetical protein (1804 nt)	-14.6866	-1.72125	0.147085
PITG_00669	Pi conserved hypothetical protein (696 nt)	-15.6125	1.986661	0.147157
PITG_00067	Pi conserved hypothetical protein (2386 nt)	-14.2679	-1.50507	0.147283
PITG_02397	Pi conserved hypothetical protein (848 nt)	-16.1321	-1.88851	0.147417
PITG_03025	Pi hypothetical protein (891 nt)	-16.109	-1.93464	0.147417
PITG_04831	Pi regulator of chromosome condensation (RCC1)-like protei	-13.1305	1.48292	0.147627
PITG_00078	Pi kinesin-like protein (2754 nt)	-15.2878	-1.67571	0.147675
PITG_10440	Pi conserved hypothetical protein (503 nt)	-15.8701	-1.80035	0.147706
PITG_16309	Pi conserved hypothetical protein (931 nt)	-16.8067	-2.54436	0.148057
PITG_18201	Pi avirulence-associated protein 3.4, putative (3419 nt)	-16.4942	1.785092	0.148057
PITG_00588	Pi cathepsin, cysteine protease family C01A, putative (2248 r	-14.1062	-1.6485	0.148176
PITG_06980	Pi conserved hypothetical protein (894 nt)	-15.1022	-1.6721	0.148219
PITG_05251	Pi protein tyrosine phosphatase type IVA protein 1 (583 nt)	-12.3641	-1.4139	0.148251
PITG_03354	Pi hypothetical protein (367 nt)	-15.8518	-1.98016	0.148529
PITG_12183	Pi double stranded RNA binding, putative (1215 nt)	-15.8523	-1.97918	0.148529
PITG_17927	Pi hypothetical protein (2235 nt)	-14.7624	1.880322	0.148589
PITG_08530	Pi conserved hypothetical protein (1872 nt)	-15.4828	-1.65043	0.148781
PITG_06898	Pi conserved hypothetical protein (3454 nt)	-16.1339	-1.9598	0.148849
PITG_07866	Pi thiamin pyrophosphokinase, putative (662 nt)	-14.2711	-1.52883	0.149095
PITG_22253	Pi hypothetical protein (633 nt)	-15.1409	-1.69545	0.149205
PITG_02026	Pi succinyl-CoA ligase subunit alpha, mitochondrial precursor	-11.7028	1.429481	0.14924
PITG_02762	Pi protein kinase, putative (2433 nt)	-13.9913	-1.53988	0.149251
PITG_11300	Pi conserved hypothetical protein (923 nt)	-16.2144	1.721152	0.149349
PITG_20617	Pi conserved hypothetical protein (594 nt)	-16.1516	1.704716	0.149349
PITG_09631	Pi conserved hypothetical protein (465 nt)	-15.0243	1.674279	0.149396
PITG_17279	Pi conserved hypothetical protein (1737 nt)	-13.1671	-1.71525	0.149457
PITG_17681	Pi conserved hypothetical protein (1737 nt)	-16.0885	2.072078	0.149568
PITG_12580	Pi conserved hypothetical protein (401 nt)	-11.9049	1.454853	0.149603
PITG_20425	Pi Crinkler (CRN) family protein, pseudogene (2573 nt)	-11.7168	-1.46966	0.149662



PITG_17540	Pi crinkler (CRN) family protein, putative (1962 nt)	-10.0982	-1.46662	0.149693
PITG_06132	Pi katanin p60 ATPase-containing subunit, putative (3154 nt)	-17.8027	-2.61896	0.149711
PITG_06495	Pi M96 mating-specific protein family (531 nt)	-17.8027	-2.61896	0.149711
PITG_06680	Pi conserved hypothetical protein (1031 nt)	-17.8027	-2.61896	0.149711
PITG_08604	Pi Arsenical Resistance-3 (ACR3) Family (1188 nt)	-17.8027	-2.61896	0.149711
PITG_10422	Pi conserved hypothetical protein (1180 nt)	-17.8027	-2.61896	0.149711
PITG_21409	Pi hypothetical protein (1891 nt)	-17.8027	-2.61896	0.149711
PITG_22997	Pi conserved hypothetical protein (957 nt)	-17.8027	-2.61896	0.149711
PITG_07080	Pi conserved hypothetical protein (1446 nt)	-14.5528	1.554369	0.149786
PITG_13682	Pi hypothetical protein (564 nt)	-10.9215	1.39667	0.149794
PITG_15783	Pi conserved hypothetical protein (1379 nt)	-15.3296	-1.59044	0.149944
PITG_09967	Pi conserved hypothetical protein (807 nt)	-15.7986	1.910151	0.150023
PITG_03237	Pi conserved hypothetical protein (433 nt)	-15.2089	-1.78037	0.15023
PITG_03493	Pi amidophosphoribosyltransferase (1803 nt)	-15.1866	1.571866	0.150244
PITG_03710	Pi strumpellin, putative (3760 nt)	-16.13	-1.89242	0.150286
PITG_05298	Pi conserved hypothetical protein (930 nt)	-16.1072	-1.93807	0.150286
PITG_03803	Pi conserved hypothetical protein (2148 nt)	-17.4572	-3.18497	0.150425
PITG_09961	Pi conserved hypothetical protein (853 nt)	-17.0362	-2.18923	0.150425
PITG_13024	Pi conserved hypothetical protein (1443 nt)	-17.077	-2.10768	0.150425
PITG_13164	Pi metalloprotease family M48X, putative (1196 nt)	-17.4572	-3.18497	0.150425
PITG_02264	Pi protein kinase, putative (4828 nt)	-15.6523	-1.7991	0.150641
PITG_01329	Pi septum formation protein Maf (860 nt)	-17.7717	-2.55564	0.150696
PITG_02289	Pi acetyl-coenzyme A transporter, putative (1608 nt)	-17.7717	-2.55564	0.150696
PITG_04339	Pi secreted RxLR effector peptide, putative (723 nt)	-17.7717	-2.55564	0.150696
PITG_12214	Pi conserved hypothetical protein (1677 nt)	-17.7717	-2.55564	0.150696
PITG_17539	Pi crinkler (CRN) family protein, putative (733 nt)	-11.2401	-1.76735	0.150738
PITG_11571	Pi Crinkler (CRN) family protein, pseudogene (4364 nt)	-15.4123	-1.85795	0.151007
PITG_02973	Pi delta-1-pyrroline-5-carboxylate synthetase, putative (1032 nt)	-14.0891	-1.48018	0.151397
PITG_00623	Pi 4-aminobutyrate aminotransferase, putative (1276 nt)	-13.032	-1.42162	0.15141
PITG_23087	Pi Crinkler (CRN) family protein (1296 nt)	-11.2597	-1.62496	0.151499
PITG_04985	Pi sorbitol dehydrogenase, putative (1175 nt)	-15.2841	1.643993	0.151565
PITG_22433	Pi conserved hypothetical protein (1203 nt)	-13.3317	-1.93162	0.151712
PITG_10011	Pi polyketide hydroxylase, putative (1876 nt)	-16.1175	-1.8415	0.151728
PITG_19608	Pi ribosomal protein L7Ae/L30e/S12e/Gadd4, putative (679 nt)	-14.1467	1.512259	0.151883
PITG_07917	Pi PLAC8 family protein (722 nt)	-14.2862	-1.63284	0.15217
PITG_05960	Pi hypothetical protein (1290 nt)	-15.6214	1.719506	0.152188
PITG_18392	Pi T-complex protein 1 subunit beta (1686 nt)	-12.8429	1.46949	0.152333
PITG_14282	Pi conserved hypothetical protein (701 nt)	-12.2747	1.430099	0.152439
PITG_23088	Pi Crinkler (CRN) family protein (1302 nt)	-11.5213	-1.39667	0.152453
PITG_01648	Pi conserved hypothetical protein (674 nt)	-14.0594	1.612239	0.15253
PITG_19878	Pi protein kinase, putative (2849 nt)	-15.3279	-1.90522	0.152541
PITG_02533	Pi conserved hypothetical protein (845 nt)	-13.8142	-1.5224	0.152773
PITG_10955	Pi conserved hypothetical protein (1538 nt)	-15.4087	1.743583	0.153125
PITG_19766	Pi conserved hypothetical protein (1787 nt)	-16.1264	-1.97556	0.153175
PITG_04973	Pi conserved hypothetical protein (1469 nt)	-15.3296	-1.5909	0.15319
PITG_03318	Pi conserved hypothetical protein (4708 nt)	-15.6911	-1.65742	0.153292
PITG_15892	Pi calcium/calmodulin dependent protein kinase, putative (1368 nt)	-13.6685	-1.48553	0.153422

PITG_06430	Pi conserved hypothetical protein (1141 nt)	-12.2779	1.509626	0.153469
PITG_18393	Pi conserved hypothetical protein (1546 nt)	-15.5408	-1.8974	0.153553
PITG_03079	Pi hypothetical protein (1987 nt)	-15.7859	1.654628	0.153702
PITG_10133	Pi hypothetical protein (402 nt)	-15.1491	-1.8465	0.153743
PITG_20139	Pi Resistance-Nodulation-Cell Division (RND) Superfamily (20	-12.921	-1.76743	0.153805
PITG_13776	Pi conserved hypothetical protein (829 nt)	-14.6925	1.578915	0.153851
PITG_16809	Pi conserved hypothetical protein (2435 nt)	-14.9325	-1.68061	0.154024
PITG_02220	Pi hypothetical protein (1581 nt)	-16.4487	-2.1301	0.154155
PITG_15022	Pi conserved hypothetical protein (1507 nt)	-16.4487	-2.1301	0.154155
PITG_21763	Pi conserved hypothetical protein (1462 nt)	-16.3235	1.886807	0.154155
PITG_10980	Pi phosphatidylinositol-4-phosphate-5-kinase (Pi-PIPK-D2) (3	-14.3862	-1.63953	0.154262
PITG_10007	Pi diaminopimelate decarboxylase, putative (1584 nt)	-14.8004	-1.64509	0.154375
PITG_00732	Pi phosphatidylinositol kinase (PIK-K) (4015 nt)	-15.8142	-1.91306	0.154539
PITG_04393	Pi tubulin polyglutamylase, putative (1809 nt)	-16.0898	1.910813	0.154626
PITG_02798	Pi conserved hypothetical protein (513 nt)	-14.0619	-1.50518	0.154722
PITG_09539	Pi hypothetical protein (665 nt)	-12.1375	-1.50545	0.154747
PITG_00938	Pi conserved hypothetical protein (5558 nt)	-14.6381	1.573847	0.154792
PITG_19119	Pi conserved hypothetical protein (717 nt)	-10.3555	-1.4383	0.154908
PITG_20194	Pi protein mago nashi (912 nt)	-14.4166	1.718147	0.155107
PITG_04372	Pi conserved hypothetical protein (610 nt)	-14.5983	-1.63742	0.15513
PITG_02964	Pi carbohydrate-binding protein, putative (1075 nt)	-15.6217	-1.86505	0.155343
PITG_04427	Pi conserved hypothetical protein (1462 nt)	-14.2038	-1.6088	0.155445
PITG_19445	Pi serine protease family S08A, putative (1096 nt)	-16.4551	-2.03223	0.155533
PITG_10417	Pi conserved hypothetical protein (904 nt)	-14.7542	-1.58272	0.15568
PITG_04524	Pi conserved hypothetical protein (473 nt)	-16.2567	-2.30352	0.155976
PITG_02958	Pi conserved hypothetical protein (864 nt)	-14.7629	-1.52523	0.156143
PITG_18834	Pi crinkler (CRN) family protein (2548 nt)	-10.7084	-1.42366	0.156322
PITG_04468	Pi Mitochondrial Carrier (MC) Family (882 nt)	-15.3296	-1.59154	0.156456
PITG_04839	Pi cleavage induced conserved hypothetical protein (1974 nt	-14.9909	-1.70659	0.156558
PITG_08673	Pi conserved hypothetical protein (1365 nt)	-12.8422	1.408688	0.156688
PITG_10735	Pi conserved hypothetical protein (984 nt)	-14.5129	-1.68349	0.156705
PITG_11290	Pi solute carrier family, facilitated glucose transporter, putat	-12.2379	1.483691	0.156767
PITG_02328	Pi conserved hypothetical protein (968 nt)	-15.6216	-1.93174	0.156904
PITG_09789	Pi conserved hypothetical protein (2931 nt)	-15.2467	-1.70446	0.156909
PITG_17600	Pi conserved hypothetical protein (1505 nt)	-15.2203	-1.65478	0.156909
PITG_01519	Pi hypothetical protein (2051 nt)	-16.2435	1.652632	0.156916
PITG_09711	Pi hypothetical protein (274 nt)	-12.4286	1.550955	0.156928
PITG_08701	Pi conserved hypothetical protein (1445 nt)	-12.6883	-1.4159	0.157312
PITG_18272	Pi conserved hypothetical protein (1840 nt)	-15.9153	-1.70954	0.157442
PITG_00406	Pi conserved hypothetical protein (1597 nt)	-14.1637	-1.53053	0.157473
PITG_07056	Pi isocitrate dehydrogenase, mitochondrial precursor (1472	-11.5758	1.418727	0.157529
PITG_19178	Pi 13 kDa ribonucleoprotein-associated protein (613 nt)	-12.8167	1.417033	0.157548
PITG_06390	Pi conserved hypothetical protein (3043 nt)	-14.282	-1.50712	0.157683
PITG_00820	Pi conserved hypothetical protein (1224 nt)	-13.1394	1.421848	0.157964
PITG_03550	Pi histone H2B (493 nt)	-12.6071	-1.51363	0.158201
PITG_20041	Pi conserved hypothetical protein (2287 nt)	-13.8033	1.520406	0.158257
PITG_19505	Pi conserved hypothetical protein (641 nt)	-10.7718	1.474404	0.158295

PITG_07243	Pi conserved hypothetical protein (3002 nt)	-14.9594	-1.81149	0.158301
PITG_18380	Pi conserved hypothetical protein (903 nt)	-15.4967	-1.68102	0.158368
PITG_16915	Pi elongation factor Tu (560 nt)	-12.6666	1.553824	0.158396
PITG_07940	Pi conserved hypothetical protein (1261 nt)	-16.779	-2.59793	0.158427
PITG_01952	Pi conserved hypothetical protein (1052 nt)	-16.5799	-1.96372	0.158443
PITG_18276	Pi conserved hypothetical protein (1704 nt)	-16.5799	-1.96372	0.158443
PITG_16474	Pi conserved hypothetical protein (1283 nt)	-15.1783	-1.62023	0.158516
PITG_07400	Pi 2,3-bisphosphoglycerate-dependent phosphoglycerate m	-11.5764	-1.52133	0.158635
PITG_06740	Pi conserved hypothetical protein (765 nt)	-14.5572	1.690781	0.158936
PITG_05116	Pi conserved hypothetical protein (814 nt)	-15.8925	-1.75511	0.158967
PITG_05623	Pi conserved hypothetical protein (2699 nt)	-15.8925	-1.75511	0.158967
PITG_17879	Pi conserved hypothetical protein (970 nt)	-16.127	-1.89809	0.159009
PITG_09665	Pi protein kinase, putative (2399 nt)	-15.1726	-1.74672	0.159095
PITG_16458	Pi conserved hypothetical protein (1230 nt)	-13.4556	-1.5075	0.15951
PITG_01595	Pi hypothetical protein (328 nt)	-14.5557	-1.59419	0.159577
PITG_06396	Pi N-acetyltransferase, putative (546 nt)	-15.3437	-1.56165	0.159625
PITG_14572	Pi conserved hypothetical protein (794 nt)	-16.4405	-2.06032	0.159696
PITG_05588	Pi conserved hypothetical protein (882 nt)	-16.1137	-2.08834	0.159792
PITG_03749	Pi hypothetical protein (975 nt)	-17.452	-3.19124	0.159887
PITG_10721	Pi transmembrane protein, putative (1707 nt)	-17.0323	-2.20165	0.159887
PITG_13383	Pi glycoprotein elicitor-like protein (967 nt)	-17.452	-3.19124	0.159887
PITG_20120	Pi hypothetical protein (234 nt)	-17.452	-3.19124	0.159887
PITG_05293	Pi conserved hypothetical protein (2351 nt)	-15.0805	-1.66839	0.160046
PITG_11387	Pi conserved hypothetical protein (2136 nt)	-15.1297	-1.77555	0.160268
PITG_10240	Pi pirin, putative (1213 nt)	-14.0679	-1.52235	0.160302
PITG_18175	Pi conserved hypothetical protein (1426 nt)	-15.9121	-1.71616	0.160495
PITG_14616	Pi conserved hypothetical protein (654 nt)	-14.5589	1.544537	0.160513
PITG_20868	Pi beta-glucan synthesis-associated protein, putative (2390 r	-15.4143	-1.85641	0.160563
PITG_20977	Pi conserved hypothetical protein (1610 nt)	-14.2691	-1.94907	0.160835
PITG_17168	Pi conserved hypothetical protein (1145 nt)	-15.6699	-1.76245	0.161142
PITG_08233	Pi conserved hypothetical protein (408 nt)	-16.8826	-2.39326	0.161231
PITG_08893	Pi conserved hypothetical protein (2893 nt)	-16.7058	2.165783	0.161231
PITG_05262	Pi conserved hypothetical protein (621 nt)	-16.0948	-2.04412	0.161274
PITG_10569	Pi hypothetical protein (341 nt)	-16.1055	-2.10538	0.161274
PITG_04131	Pi glycoside hydrolase, putative (2221 nt)	-12.7296	-1.77184	0.161292
PITG_17999	Pi 3-hydroxyisobutyrate dehydrogenase, putative (1296 nt)	-15.852	-1.76652	0.161307
PITG_12980	Pi conserved hypothetical protein (2345 nt)	-15.3649	-1.77394	0.161389
PITG_18824	Pi crinkler (CRN) family protein, pseudogene (2748 nt)	-11.796	-1.37178	0.16142
PITG_11692	Pi conserved hypothetical protein (645 nt)	-13.3993	-1.78703	0.161464
PITG_10315	Pi UDP-sugar pyrophospharylase, putative (1913 nt)	-16.4175	-2.19593	0.161918
PITG_11075	Pi conserved hypothetical protein (1791 nt)	-16.0267	1.750844	0.161955
PITG_10191	Pi conserved hypothetical protein (2294 nt)	-15.8954	-1.68242	0.162029
PITG_07232	Pi conserved hypothetical protein (1400 nt)	-14.1036	-1.45112	0.16212
PITG_02582	Pi C2 domain-containing protein, putative (826 nt)	-14.8598	-1.61013	0.162228
PITG_08252	Pi hypothetical protein (1222 nt)	-12.9514	-1.74726	0.162487
PITG_00978	Pi conserved hypothetical protein (2853 nt)	-13.7584	-1.52067	0.162519
PITG_14078	Pi conserved hypothetical protein (1769 nt)	-15.6873	-1.72827	0.162725

PITG_11753	Pi conserved hypothetical protein (951 nt)	-14.8976	-1.79879	0.162995
PITG_00912	Pi 3-hydroxyisobutyrate dehydrogenase, putative (1590 nt)	-11.8864	-1.51833	0.163083
PITG_13005	Pi solute carrier family 2, facilitated glucose transporter, putative (1590 nt)	-15.0635	-1.90833	0.163282
PITG_02928	Pi berberine-like protein (1530 nt)	-16.3934	-2.24422	0.16334
PITG_06884	Pi conserved hypothetical protein (1061 nt)	-15.0929	-1.64352	0.163466
PITG_14852	Pi lipoic acid synthetase, mitochondrial precursor (1241 nt)	-14.6593	1.44764	0.163607
PITG_00314	Pi conserved hypothetical protein (853 nt)	-11.9331	1.368214	0.163632
PITG_00420	Pi F-box protein, putative (489 nt)	-16.7269	2.124253	0.163831
PITG_17956	Pi croquemort mating protein M82 (2302 nt)	-16.7269	2.124253	0.163831
PITG_00603	Pi conserved hypothetical protein (543 nt)	-17.8174	-2.45737	0.163914
PITG_08831	Pi ribonuclease 3, putative (1010 nt)	-17.8174	-2.45737	0.163914
PITG_11219	Pi conserved hypothetical protein (2744 nt)	-17.8174	-2.45737	0.163914
PITG_20248	Pi conserved hypothetical protein (562 nt)	-17.8174	-2.45737	0.163914
PITG_20492	Pi conserved hypothetical protein (2911 nt)	-17.8174	-2.45737	0.163914
PITG_05170	Pi serine protease family S09X, putative (1823 nt)	-14.9936	-1.64782	0.163997
PITG_19270	Pi conserved hypothetical protein (1212 nt)	-12.8293	-1.54307	0.164489
PITG_01744	Pi conserved hypothetical protein (1476 nt)	-14.9965	-1.5081	0.164634
PITG_21000	Pi conserved hypothetical protein (2349 nt)	-13.9952	-1.42777	0.164663
PITG_11247	Pi heat shock 70 kDa protein (2090 nt)	-10.7807	-1.47666	0.16478
PITG_03110	Pi conserved hypothetical protein (2819 nt)	-17.7591	-2.57341	0.164962
PITG_05475	Pi conserved hypothetical protein (1305 nt)	-17.7938	-2.64289	0.164962
PITG_14429	Pi conserved hypothetical protein (751 nt)	-17.7938	-2.64289	0.164962
PITG_14922	Pi conserved hypothetical protein (1532 nt)	-17.7591	-2.57341	0.164962
PITG_04421	Pi protein kinase (1613 nt)	-15.4979	-1.62057	0.164982
PITG_18031	Pi conserved hypothetical protein (1265 nt)	-15.4974	1.60182	0.164982
PITG_11719	Pi 4-hydroxyphenylpyruvate dioxygenase (1344 nt)	-13.1343	-1.47199	0.16513
PITG_00274	Pi Ryanodine-Inositol 1,4,5-triphosphate Receptor Ca2 Channel (1344 nt)	-16.9051	-2.34807	0.165137
PITG_08416	Pi conserved hypothetical protein (2411 nt)	-14.1666	1.524321	0.165411
PITG_17537	Pi crinkler (CRN) family protein, pseudogene (1419 nt)	-9.19584	-1.42782	0.165687
PITG_02460	Pi sporulation induced hypothetical protein (637 nt)	-16.1728	1.968207	0.166319
PITG_19242	Pi conserved hypothetical protein (2733 nt)	-16.1807	-1.79128	0.166319
PITG_17869	Pi conserved hypothetical protein (2888 nt)	-12.767	-1.36195	0.166362
PITG_09139	Pi conserved hypothetical protein (1619 nt)	-16.0855	-1.90102	0.166408
PITG_01745	Pi NEDD4-like ubiquitin ligase, putative (1968 nt)	-16.8717	-2.41465	0.166448
PITG_12870	Pi conserved hypothetical protein (1856 nt)	-16.8247	2.361564	0.166448
PITG_02098	Pi ATP-binding Cassette (ABC) Superfamily (5086 nt)	-15.3833	-2.13658	0.166471
PITG_12228	Pi NADH-cytochrome b5 reductase, putative (900 nt)	-14.0092	-1.47812	0.166596
PITG_19287	Pi conserved hypothetical protein (947 nt)	-15.8058	2.002157	0.166809
PITG_11689	Pi putative GPI-anchored serine-rich hypothetical protein (1429 nt)	-12.3574	-1.412	0.167581
PITG_13659	Pi conserved hypothetical protein (699 nt)	-15.2598	-1.67809	0.167896
PITG_11008	Pi conserved hypothetical protein (663 nt)	-16.1046	1.872298	0.167901
PITG_12162	Pi RNA-binding protein, putative (2493 nt)	-15.6399	-1.76303	0.167929
PITG_19844	Pi conserved hypothetical protein (2022 nt)	-15.6541	-1.79982	0.167929
PITG_16865	Pi aldose 1-epimerase, putative (1429 nt)	-15.367	1.673516	0.167958
PITG_09621	Pi protein kinase (721 nt)	-14.7577	-1.57742	0.168065
PITG_09655	Pi putative tyrosine-protein phosphatase OCA1, putative (330 nt)	-12.3814	1.377608	0.168568
PITG_15540	Pi conserved hypothetical protein (522 nt)	-14.0182	1.39887	0.168868

PITG_03446	Pi conserved hypothetical protein (756 nt)	-14.5945	1.471438	0.168888
PITG_16277	Pi conserved hypothetical protein (2222 nt)	-15.4817	-1.77784	0.169022
PITG_05360	Pi conserved hypothetical protein (926 nt)	-12.4695	1.339243	0.169023
PITG_23205	Pi 4-nitrophenylphosphatase, putative (1508 nt)	-14.8796	1.502292	0.169077
PITG_14221	Pi conserved hypothetical protein (1071 nt)	-15.6956	-1.65008	0.169102
PITG_00744	Pi conserved hypothetical protein (1400 nt)	-16.7784	-2.48462	0.169148
PITG_03665	Pi Amino Acid-Polyamine-Organocation (APC) Family (4903 r	-16.5797	-1.96913	0.169148
PITG_23109	Pi protein kinase, putative (1847 nt)	-16.6112	-1.90611	0.169148
PITG_03864	Pi myotubularin-like protein (4123 nt)	-14.877	-1.61965	0.169289
PITG_09284	Pi actin, putative (1342 nt)	-13.6195	-1.40019	0.169397
PITG_21325	Pi crinkler (CRN) domain, pseudogene (1454 nt)	-10.9102	-1.48419	0.1694
PITG_12958	Pi conserved hypothetical protein (858 nt)	-16.3039	-1.70188	0.169568
PITG_21505	Pi conserved hypothetical protein (651 nt)	-12.8931	-1.66941	0.169653
PITG_08173	Pi DNA-directed RNA polymerase III subunit 127.6 kDa polyp	-15.0725	1.607178	0.169872
PITG_03160	Pi ubiquitin family protein, putative (1188 nt)	-14.5368	-1.48868	0.170047
PITG_22590	Pi conserved hypothetical protein (436 nt)	-14.793	1.589795	0.170089
PITG_11229	Pi aldehyde dehydrogenase, putative (1548 nt)	-16.0634	-1.93871	0.170268
PITG_17517	Pi crinkler (CRN) family protein, putative (1445 nt)	-9.91613	-1.33619	0.170329
PITG_07348	Pi conserved hypothetical protein (706 nt)	-16.6253	2.004948	0.170406
PITG_08221	Pi conserved hypothetical protein (1098 nt)	-16.5952	1.816873	0.170406
PITG_15539	Pi conserved hypothetical protein (1063 nt)	-13.4774	-1.47093	0.170496
PITG_09705	Pi SUMO-conjugating enzyme (SCE), putative (483 nt)	-13.5953	-1.44837	0.170763
PITG_14381	Pi conserved hypothetical protein (793 nt)	-14.6857	-1.50014	0.170886
PITG_03043	Pi hypothetical protein (2357 nt)	-16.4424	-2.14463	0.170996
PITG_05499	Pi conserved hypothetical protein (2720 nt)	-16.3003	1.76451	0.170996
PITG_07978	Pi protein kinase, putative (1474 nt)	-16.4462	-2.04638	0.170996
PITG_12484	Pi conserved hypothetical protein (1401 nt)	-16.2451	1.517607	0.170996
PITG_16724	Pi conserved hypothetical protein (887 nt)	-16.2451	1.517607	0.170996
PITG_14013	Pi cytochrome P450, putative (1567 nt)	-15.5937	1.745584	0.171133
PITG_06719	Pi glycerol-3-phosphate dehydrogenase, mitochondrial prec	-13.7924	-1.40708	0.171219
PITG_08412	Pi hypothetical protein (476 nt)	-15.4819	-1.71421	0.171404
PITG_01616	Pi metalloprotease family M01, putative (2942 nt)	-15.3716	-2.01618	0.17142
PITG_14623	Pi mediator of RNA polymerase II transcription subunit, puta	-14.4544	-1.5351	0.171617
PITG_00389	Pi conserved hypothetical protein (1735 nt)	-16.9003	-2.35727	0.171734
PITG_15493	Pi threonine aspartase, putative (1266 nt)	-16.9003	-2.35727	0.171734
PITG_20286	Pi conserved hypothetical protein (891 nt)	-16.6364	1.984672	0.171734
PITG_11071	Pi conserved hypothetical protein (534 nt)	-12.0568	1.345199	0.171813
PITG_01302	Pi conserved hypothetical protein (2376 nt)	-15.1247	-1.73658	0.172022
PITG_04384	Pi ribosome biogenesis regulatory protein (970 nt)	-12.8216	1.335261	0.172251
PITG_05154	Pi conserved hypothetical protein (792 nt)	-12.7552	1.432474	0.172254
PITG_14441	Pi cytoskeleton-associated protein, putative (5859 nt)	-16.1619	-1.75279	0.172291
PITG_22734	Pi NPP1-like protein, 3' partial (567 nt)	-16.0983	1.738224	0.172291
PITG_01229	Pi conserved hypothetical protein (1882 nt)	-15.4817	-1.77915	0.172305
PITG_21308	Pi choline dehydrogenase, putative (1732 nt)	-16.3372	-1.63675	0.172429
PITG_19263	Pi sulfite reductase [NADPH] flavoprotein component, putati	-13.604	-1.83429	0.172669
PITG_10821	Pi ubiquitin-specific protease, putative (1423 nt)	-14.9065	-1.47409	0.172686
PITG_01588	Pi conserved hypothetical protein (3042 nt)	-16.8677	-2.4224	0.173067

PITG_11236	Pi protein kinase, putative (2277 nt)	-16.6634	-1.79093	0.173067
PITG_19790	Pi patatin-like phospholipase, putative (2204 nt)	-16.8677	-2.4224	0.173067
PITG_18054	Pi 50S ribosomal protein L7/L12, putative (614 nt)	-12.5501	1.348832	0.173256
PITG_17289	Pi deoxyuridine 5'-triphosphate nucleotidohydrolase (743 nt)	-15.658	1.571869	0.173281
PITG_11846	Pi conserved hypothetical protein (3964 nt)	-13.7713	2.363819	0.173467
PITG_10659	Pi conserved hypothetical protein (752 nt)	-13.9159	-1.46264	0.173595
PITG_06016	Pi glucokinase, putative (1245 nt)	-12.839	-1.61387	0.173596
PITG_00250	Pi conserved hypothetical protein (1791 nt)	-16.1847	-1.859	0.173794
PITG_03281	Pi hypothetical protein (1206 nt)	-16.0725	1.652473	0.173794
PITG_03017	Pi integrator complex subunit, putative (2706 nt)	-15.3744	-1.5003	0.173895
PITG_09978	Pi conserved hypothetical protein (1349 nt)	-15.375	-1.49902	0.173895
PITG_14717	Pi conserved hypothetical protein (3989 nt)	-15.3591	-1.53081	0.173895
PITG_14214	Pi conserved hypothetical protein (544 nt)	-13.1987	-1.45569	0.173902
PITG_15906	Pi DNA repair protein RAD51 (1595 nt)	-14.0964	-1.54906	0.173989
PITG_09006	Pi conserved hypothetical protein (3074 nt)	-16.8799	-2.29311	0.174403
PITG_13730	Pi Mitochondrial Carrier (MC) Family (1213 nt)	-16.6482	1.964992	0.174403
PITG_17581	Pi conserved hypothetical protein (640 nt)	-16.6482	1.964992	0.174403
PITG_00863	Pi DEAD/DEAH box RNA helicase, putative (1236 nt)	-14.0272	1.447083	0.174651
PITG_19449	Pi conserved hypothetical protein (831 nt)	-15.3579	-1.58899	0.174699
PITG_12915	Pi sorting nexin, putative (1759 nt)	-14.1793	-1.44228	0.174843
PITG_17560	Pi conserved hypothetical protein (1623 nt)	-15.7073	-1.62557	0.174901
PITG_09072	Pi conserved hypothetical protein (858 nt)	-13.4535	-1.42308	0.175111
PITG_04342	Pi conserved hypothetical protein (1914 nt)	-14.9857	-1.57379	0.175268
PITG_15033	Pi choline dehydrogenase, putative (1825 nt)	-16.1066	1.863441	0.175437
PITG_05631	Pi myosin-like protein (6372 nt)	-15.3274	-1.84629	0.175634
PITG_14129	Pi hypothetical protein (710 nt)	-14.4756	1.622498	0.17565
PITG_20728	Pi conserved hypothetical protein (840 nt)	-13.3918	-1.372	0.175961
PITG_04680	Pi phosphoinositol transporter (2048 nt)	-15.2611	-1.62389	0.176516
PITG_09838	Pi secreted RxLR effector peptide, putative (369 nt)	-15.091	-1.8526	0.176536
PITG_03006	Pi protein kinase (1901 nt)	-15.2888	-1.56915	0.176537
PITG_20505	Pi conserved hypothetical protein (637 nt)	-12.874	1.372249	0.176563
PITG_09609	Pi conserved hypothetical protein (769 nt)	-11.4759	1.360917	0.176584
PITG_21166	Pi conserved hypothetical protein (1556 nt)	-16.2269	1.56156	0.176753
PITG_12535	Pi eukaryotic peptide chain release factor subunit 1 (1320 nt)	-16.0644	1.671086	0.176812
PITG_12891	Pi conserved hypothetical protein (1209 nt)	-16.0613	1.677274	0.176812
PITG_21047	Pi conserved hypothetical protein (1099 nt)	-14.3738	1.710638	0.176925
PITG_03154	Pi ubiquitin family protein, putative (977 nt)	-17.5455	-3.01163	0.176971
PITG_07385	Pi Major Facilitator Superfamily (MFS) (1549 nt)	-17.5455	-3.01163	0.176971
PITG_11792	Pi conserved hypothetical protein (1580 nt)	-13.4033	-1.39061	0.177126
PITG_02814	Pi conserved hypothetical protein (672 nt)	-15.125	-1.79052	0.177133
PITG_07095	Pi hypothetical protein (339 nt)	-15.6978	1.968858	0.177657
PITG_11286	Pi hypothetical protein (2926 nt)	-13.2779	-1.41353	0.177801
PITG_10148	Pi conserved hypothetical protein (880 nt)	-12.3635	-1.40288	0.177925
PITG_04392	Pi conserved hypothetical protein (2196 nt)	-15.5626	1.602602	0.177939
PITG_10325	Pi conserved hypothetical protein (2351 nt)	-15.6063	-1.76662	0.177939
PITG_17392	Pi conserved hypothetical protein (504 nt)	-17.141	-1.97683	0.178172
PITG_22831	Pi Crinkler (CRN) family protein (1416 nt)	-17.1778	-1.90327	0.178172

PITG_00296	Pi protein kinase, putative (1296 nt)	-16.4262	-1.99141	0.178204
PITG_09190	Pi bzip transcription factor (1121 nt)	-16.2937	-1.72635	0.178204
PITG_20370	Pi Amino Acid/Auxin Permease (AAP) Family (1560 nt)	-16.2937	-1.72635	0.178204
PITG_05954	Pi conserved hypothetical protein (1623 nt)	-15.5126	-1.65062	0.178211
PITG_11295	Pi alcohol dehydrogenase, putative (1226 nt)	-15.5312	-1.61327	0.178211
PITG_11161	Pi 2-oxoisovalerate dehydrogenase alpha subunit, mitochondr	-14.6421	-1.51264	0.178417
PITG_01293	Pi conserved hypothetical protein (1036 nt)	-14.8032	-1.44466	0.178439
PITG_02660	Pi conserved hypothetical protein (873 nt)	-12.6865	-1.42283	0.178625
PITG_21212	Pi conserved hypothetical protein (1560 nt)	-15.9392	-1.66179	0.178652
PITG_12520	Pi conserved hypothetical protein (948 nt)	-12.1446	1.36505	0.178676
PITG_09652	Pi conserved hypothetical protein (536 nt)	-10.3983	1.369868	0.17871
PITG_09474	Pi conserved hypothetical protein (945 nt)	-15.081	1.497615	0.178862
PITG_20855	Pi conserved hypothetical protein (1206 nt)	-14.3339	-1.49998	0.179041
PITG_01774	Pi conserved hypothetical protein (2628 nt)	-16.4763	-2.07498	0.179078
PITG_21939	Pi conserved hypothetical protein (1147 nt)	-16.4881	-1.96655	0.179078
PITG_22840	Pi peroxisomal (S)-2-hydroxy-acid oxidase, putative (1246 nt)	-16.2438	-1.83664	0.179311
PITG_01356	Pi ATP-binding Cassette (ABC) Superfamily (3687 nt)	-17.1298	-1.99985	0.179377
PITG_18779	Pi conserved hypothetical protein (566 nt)	-15.1582	-1.7213	0.179395
PITG_07653	Pi conserved hypothetical protein (786 nt)	-15.8383	-2.02015	0.179401
PITG_03424	Pi GTPase, putative (1554 nt)	-11.8132	-1.40069	0.179589
PITG_17131	Pi conserved hypothetical protein (852 nt)	-15.5327	-1.55066	0.179618
PITG_13116	Pi triosephosphate isomerase (857 nt)	-13.1881	-1.35895	0.179669
PITG_05639	Pi conserved hypothetical protein (810 nt)	-17.0338	-2.20794	0.179743
PITG_07710	Pi sugar transporter, putative (1536 nt)	-13.6248	1.380993	0.179755
PITG_20563	Pi conserved hypothetical protein (2207 nt)	-15.6715	1.545175	0.179784
PITG_05201	Pi voltage-gated potassium channel subunit beta, putative (6	-15.2886	-1.56945	0.180037
PITG_06545	Pi exonuclease 1, putative (9349 nt)	-14.2314	1.582893	0.180097
PITG_18030	Pi conserved hypothetical protein (531 nt)	-14.5466	1.451933	0.180122
PITG_18071	Pi conserved hypothetical protein (1140 nt)	-15.008	-1.52894	0.180218
PITG_08640	Pi phosphatidylinositol kinase (PIK-G3) (3186 nt)	-17.5796	-2.94173	0.180586
PITG_20088	Pi Sulfate Permease (SulP) Family (2784 nt)	-15.3935	-1.66158	0.180729
PITG_04618	Pi trimethyllysine dioxygenase, putative (1540 nt)	-14.7054	-1.48514	0.180733
PITG_17039	Pi conserved hypothetical protein (492 nt)	-14.2003	1.460868	0.180864
PITG_03502	Pi alcohol dehydrogenase, putative (873 nt)	-16.6617	1.947286	0.181151
PITG_12515	Pi conserved hypothetical protein (884 nt)	-16.8748	-2.29975	0.181151
PITG_01759	Pi conserved hypothetical protein (2105 nt)	-15.5232	1.5502	0.181301
PITG_18750	Pi conserved hypothetical protein (667 nt)	-15.0044	1.842042	0.181373
PITG_11569	Pi metalloprotease family M17, putative (1605 nt)	-13.2093	1.450116	0.181422
PITG_14619	Pi conserved hypothetical protein (859 nt)	-13.7816	-1.4097	0.181455
PITG_08713	Pi ADP-sugar pyrophosphatase, putative (831 nt)	-17.1662	-1.92807	0.181799
PITG_13297	Pi conserved hypothetical protein (1521 nt)	-17.5363	-3.02795	0.181799
PITG_14251	Pi conserved hypothetical protein (1827 nt)	-17.1662	-1.92807	0.181799
PITG_17259	Pi conserved hypothetical protein (1384 nt)	-17.5363	-3.02795	0.181799
PITG_20274	Pi conserved hypothetical protein (1244 nt)	-14.377	-1.45041	0.181806
PITG_21827	Pi Rab11 family GTPase, putative (730 nt)	-14.1336	1.469827	0.181849
PITG_03200	Pi conserved hypothetical protein (1599 nt)	-16.5013	-2.02533	0.181956
PITG_03989	Pi conserved hypothetical protein (1648 nt)	-16.473	-2.08196	0.181956

PITG_15138	Pi conserved hypothetical protein (1231 nt)	-13.2971	-1.37485	0.182068
PITG_03621	Pi conserved hypothetical protein (1467 nt)	-14.8138	-1.463	0.182136
PITG_06652	Pi conserved hypothetical protein (874 nt)	-15.059	1.458494	0.182412
PITG_17130	Pi glyceraldehyde-3-phosphate dehydrogenase, putative (16	-15.0693	1.437797	0.182412
PITG_14133	Pi programmed cell death protein, putative (1547 nt)	-12.0523	1.327144	0.182433
PITG_03229	Pi glutathione S-transferase, putative (1267 nt)	-12.6192	-1.31489	0.182437
PITG_00934	Pi hypothetical protein (1213 nt)	-16.5404	1.704194	0.182513
PITG_01005	Pi conserved hypothetical protein (2452 nt)	-16.8972	-2.36286	0.182513
PITG_22001	Pi Major Facilitator Superfamily (MFS) (624 nt)	-14.9194	1.532727	0.182565
PITG_05379	Pi conserved hypothetical protein (1508 nt)	-16.2186	1.585711	0.182581
PITG_07823	Pi DNA topoisomerase 2 (2669 nt)	-16.4424	-2.1459	0.182581
PITG_16223	Pi conserved hypothetical protein (1095 nt)	-17.1201	-2.02094	0.183016
PITG_20195	Pi transcription factor Dp-1 (1620 nt)	-17.1201	-2.02094	0.183016
PITG_20522	Pi conserved hypothetical protein (513 nt)	-15.6784	1.699355	0.183058
PITG_17326	Pi conserved hypothetical protein (852 nt)	-12.1773	-1.51942	0.183065
PITG_02228	Pi conserved hypothetical protein (2007 nt)	-15.3003	-1.64879	0.183549
PITG_09584	Pi hypothetical protein (885 nt)	-14.0817	-1.49531	0.183551
PITG_01902	Pi conserved hypothetical protein (781 nt)	-16.8652	-2.42675	0.18388
PITG_16400	Pi conserved hypothetical protein (489 nt)	-15.1253	1.61705	0.184054
PITG_18298	Pi coproporphyrinogen III oxidase (1314 nt)	-13.847	-1.45716	0.184087
PITG_20381	Pi hypothetical protein (791 nt)	-14.3215	-1.45898	0.184118
PITG_17782	Pi iron-sulfur cluster assembly protein, putative (525 nt)	-13.2991	-1.35431	0.184344
PITG_15625	Pi dynein heavy chain (15033 nt)	-15.441	1.637082	0.184713
PITG_11625	Pi conserved hypothetical protein (3543 nt)	-15.4443	1.47212	0.184918
PITG_15045	Pi trans-2-enoyl-CoA reductase, putative (1309 nt)	-12.4482	1.335287	0.18493
PITG_14231	Pi importin subunit alpha, putative (2162 nt)	-13.5887	-1.36622	0.18507
PITG_23165	Pi Crinkler (CRN) family protein (1293 nt)	-11.0428	-1.28558	0.185406
PITG_07892	Pi conserved hypothetical protein (926 nt)	-16.3206	-1.67595	0.185521
PITG_01121	Pi ras family GTPase, putative (1832 nt)	-15.4534	-1.65397	0.18621
PITG_11018	Pi conserved hypothetical protein (1026 nt)	-16.4981	-2.03222	0.186302
PITG_07305	Pi conserved hypothetical protein (1652 nt)	-14.3966	-1.47451	0.186514
PITG_10470	Pi conserved hypothetical protein (605 nt)	-11.1562	-1.38524	0.18654
PITG_15565	Pi conserved hypothetical protein (645 nt)	-15.9272	1.751732	0.186595
PITG_01815	Pi conserved hypothetical protein (8368 nt)	-16.3955	-2.13988	0.186769
PITG_02457	Pi protein kinase (2695 nt)	-15.2318	-1.51425	0.186977
PITG_08441	Pi conserved hypothetical protein (1173 nt)	-16.6125	-1.91184	0.187221
PITG_22922	Pi secreted RxLR effector peptide, putative (1467 nt)	-16.6125	-1.91184	0.187221
PITG_06929	Pi myotubularin-like protein (3693 nt)	-16.1729	-1.80578	0.187499
PITG_10827	Pi nuclease, putative (2879 nt)	-13.9538	-1.45835	0.187609
PITG_12667	Pi conserved hypothetical protein (1401 nt)	-16.4764	-1.98804	0.187758
PITG_12490	Pi conserved hypothetical protein (1365 nt)	-15.4205	1.666632	0.18795
PITG_02415	Pi conserved hypothetical protein (2036 nt)	-14.8259	-1.39909	0.187988
PITG_10570	Pi hypothetical protein (974 nt)	-13.2528	1.384618	0.18805
PITG_20345	Pi conserved hypothetical protein (1221 nt)	-13.842	-1.42311	0.188064
PITG_10351	Pi conserved hypothetical protein (3514 nt)	-15.931	-1.67867	0.188195
PITG_22668	Pi NPP1-like protein (1560 nt)	-15.8919	1.711711	0.188195
PITG_20168	Pi Crinkler (CRN) family protein, pseudogene (2557 nt)	-10.3915	-1.28716	0.188627



PITG_22742	Pi conserved hypothetical protein (459 nt)	-15.0054	2.030515	0.188656
PITG_01925	Pi transmembrane protein, putative (886 nt)	-13.0266	-1.36893	0.188656
PITG_10198	Pi adenosylhomocysteinase (1443 nt)	-12.647	1.508177	0.188856
PITG_15006	Pi ATP-binding Cassette (ABC) Superfamily (2610 nt)	-14.5491	-1.51514	0.188915
PITG_02770	Pi calcineurin-like phosphoesterase, putative (2185 nt)	-15.7497	-1.54022	0.189011
PITG_13739	Pi conserved hypothetical protein (318 nt)	-14.7387	1.567362	0.18937
PITG_19022	Pi conserved hypothetical protein (1632 nt)	-14.7176	-1.43615	0.18937
PITG_01124	Pi conserved hypothetical protein (816 nt)	-14.5738	1.406416	0.189395
PITG_16020	Pi conserved hypothetical protein (1670 nt)	-15.3906	-1.46776	0.189692
PITG_11179	Pi conserved hypothetical protein (2068 nt)	-14.6243	-1.42003	0.189741
PITG_16137	Pi conserved hypothetical protein (1581 nt)	-15.5471	-1.58016	0.189763
PITG_10913	Pi conserved hypothetical protein (841 nt)	-10.7518	1.269013	0.189883
PITG_17991	Pi CorA Metal Ion Transporter (MIT) Family (1434 nt)	-16.2104	1.893089	0.19007
PITG_19824	Pi conserved hypothetical protein (1095 nt)	-9.74692	1.482253	0.19025
PITG_07913	Pi conserved hypothetical protein (668 nt)	-15.5814	1.557931	0.190287
PITG_17103	Pi hypothetical protein (652 nt)	-15.8128	1.61519	0.190337
PITG_03629	Pi conserved hypothetical protein (1655 nt)	-17.571	-2.95491	0.190406
PITG_04474	Pi conserved hypothetical protein (1138 nt)	-17.571	-2.95491	0.190406
PITG_11373	Pi ATP-binding Cassette (ABC) superfamily (5163 nt)	-17.571	-2.95491	0.190406
PITG_16345	Pi conserved hypothetical protein (853 nt)	-17.571	-2.95491	0.190406
PITG_18049	Pi chromosome segregation protein, putative (3762 nt)	-17.571	-2.95491	0.190406
PITG_00012	Pi conserved hypothetical protein (636 nt)	-15.732	-1.57572	0.190671
PITG_11790	Pi conserved hypothetical protein (306 nt)	-15.732	-1.57572	0.190671
PITG_06663	Pi hypothetical protein (1215 nt)	-13.8921	1.467052	0.191025
PITG_16009	Pi importin subunit alpha, putative (2553 nt)	-14.7633	-1.48566	0.191037
PITG_13806	Pi conserved hypothetical protein (3134 nt)	-14.5535	1.374217	0.191136
PITG_19046	Pi hypothetical protein (2029 nt)	-14.7882	-1.51689	0.191622
PITG_05668	Pi conserved hypothetical protein (1771 nt)	-17.1134	-2.03845	0.191651
PITG_14845	Pi conserved hypothetical protein (2881 nt)	-15.2584	1.485594	0.191809
PITG_03155	Pi secreted RxLR effector peptide, putative (750 nt)	-15.7459	-1.54814	0.192334
PITG_11799	Pi conserved hypothetical protein (2308 nt)	-15.7459	-1.54814	0.192334
PITG_20491	Pi fumarylacetoacetase (1806 nt)	-13.8267	-1.49815	0.192367
PITG_21699	Pi conserved hypothetical protein (482 nt)	-15.6916	-1.93135	0.192403
PITG_05591	Pi conserved hypothetical protein (1147 nt)	-14.8305	1.515887	0.192439
PITG_22658	Pi Annexin (Annexin) Family (594 nt)	-9.958	1.560895	0.192464
PITG_10149	Pi mannosyl-oligosaccharide 1,2-alpha-mannosidase, putativ	-14.8661	-1.60112	0.192653
PITG_12353	Pi conserved hypothetical protein (798 nt)	-14.561	1.48153	0.192711
PITG_16487	Pi cell 5A endo-1,4-beta-glucanase, putative (1995 nt)	-16.9545	-2.24935	0.192936
PITG_22238	Pi conserved hypothetical protein (2150 nt)	-16.7777	-2.47393	0.19295
PITG_17769	Pi conserved hypothetical protein (903 nt)	-14.7013	-1.43181	0.193148
PITG_03242	Pi conserved hypothetical protein (1499 nt)	-16.1995	-1.82846	0.193152
PITG_06218	Pi conserved hypothetical protein (677 nt)	-13.7928	1.423705	0.193171
PITG_15644	Pi glycoside hydrolase, putative (2049 nt)	-16.6759	-1.7756	0.193566
PITG_00842	Pi copine-like protein, putative (974 nt)	-13.1744	-1.34485	0.193573
PITG_02074	Pi conserved hypothetical protein (975 nt)	-16.3335	1.694218	0.193619
PITG_13906	Pi hypothetical protein (1325 nt)	-16.3638	1.81514	0.193619
PITG_01727	Pi conserved hypothetical protein (1018 nt)	-16.1535	-1.76334	0.193691

PITG_03427	Pi tyrosine aminotransferase, putative (1933 nt)	-13.831	-1.51448	0.193807
PITG_10471	Pi conserved hypothetical protein (996 nt)	-15.8196	-1.90378	0.193938
PITG_15467	Pi conserved hypothetical protein (1091 nt)	-14.2572	-1.43166	0.193973
PITG_08213	Pi carbohydrate-binding protein, putative (1134 nt)	-13.258	-1.39483	0.194177
PITG_05260	Pi pre-mRNA-splicing factor ATP-dependent RNA helicase PR	-16.9471	-2.26408	0.194291
PITG_19860	Pi conserved hypothetical protein (1929 nt)	-16.911	-2.33628	0.194291
PITG_08699	Pi conserved hypothetical protein (755 nt)	-15.9303	-1.68031	0.194625
PITG_01698	Pi small cysteine rich protein SCR76 (617 nt)	-10.6814	1.304164	0.194691
PITG_08306	Pi myosin-like protein (2379 nt)	-15.4762	1.403232	0.194878
PITG_12292	Pi rRNA-processing protein, putative (710 nt)	-13.8927	-1.41387	0.19492
PITG_00185	Pi Voltage-gated Ion Channel (VIC) Superfamily (3986 nt)	-16.6424	-1.84309	0.194966
PITG_04044	Pi conserved hypothetical protein (594 nt)	-16.6424	-1.84309	0.194966
PITG_07947	Pi secreted RxLR effector peptide, putative (462 nt)	-11.609	-1.28461	0.195064
PITG_06557	Pi cytochrome P450, putative (3892 nt)	-16.4736	-1.99196	0.195094
PITG_18624	Pi kinesin-like protein (3391 nt)	-16.3563	-1.59724	0.195094
PITG_04133	Pi conserved hypothetical protein (2291 nt)	-15.0324	-1.48016	0.195142
PITG_07923	Pi PLAC8 family protein (1717 nt)	-12.5512	1.396273	0.195337
PITG_14806	Pi trafficking protein particle complex subunit, putative (701	-14.6689	-1.4588	0.195555
PITG_22928	Pi glutaryl-CoA dehydrogenase, putative (1897 nt)	-13.4146	-1.35565	0.19616
PITG_03060	Pi alpha-1,2-glucosyltransferase, putative (1863 nt)	-15.913	-1.64501	0.196241
PITG_05194	Pi conserved hypothetical protein (2265 nt)	-16.2079	-1.81229	0.196248
PITG_03546	Pi hsp70-like protein (1825 nt)	-14.4256	1.423871	0.196302
PITG_22062	Pi conserved hypothetical protein (874 nt)	-11.6853	-1.50586	0.196515
PITG_07061	Pi ubiquitin-conjugating enzyme E2, putative (1255 nt)	-15.0768	1.549507	0.196736
PITG_07454	Pi conserved hypothetical protein (400 nt)	-11.882	-1.51693	0.196858
PITG_03455	Pi conserved hypothetical protein (2339 nt)	-16.9403	-2.27753	0.19701
PITG_09279	Pi bZIP transcription factor, putative (2459 nt)	-15.2499	-1.64557	0.197558
PITG_20719	Pi conserved hypothetical protein (972 nt)	-13.9305	-1.40667	0.1978
PITG_09954	Pi patatin-like phospholipase, putative (2300 nt)	-15.5852	-1.44564	0.197829
PITG_21627	Pi conserved hypothetical protein (752 nt)	-15.5852	-1.44564	0.197829
PITG_09506	Pi 30S ribosomal protein S5, putative (1158 nt)	-14.2027	1.391091	0.197905
PITG_16310	Pi conserved hypothetical protein (3710 nt)	-15.3882	1.620244	0.198046
PITG_21182	Pi apoptosis-inducing factor 1, putative (1743 nt)	-14.2332	-1.3915	0.19829
PITG_03425	Pi glycoside hydrolase, putative (2021 nt)	-13.9321	-1.35666	0.198486
PITG_03738	Pi 2-isopropylmalate synthase (2027 nt)	-12.4739	-1.34782	0.198736
PITG_23170	Pi conserved hypothetical protein (660 nt)	-15.8159	1.848825	0.198869
PITG_11734	Pi 50S ribosomal protein L3-2 (1111 nt)	-13.5	1.29387	0.199232
PITG_10937	Pi UDP-glucuronic acid decarboxylase 1 (1286 nt)	-14.3162	-1.50373	0.199266
PITG_15262	Pi conserved hypothetical protein (2010 nt)	-15.5812	2.121365	0.199506
PITG_06850	Pi conserved hypothetical protein (1271 nt)	-16.3685	-1.5747	0.199539
PITG_10214	Pi conserved hypothetical protein (767 nt)	-15.707	-1.75912	0.199635
PITG_14669	Pi phospholipase A2, putative (938 nt)	-12.4829	-1.32677	0.199707
PITG_18877	Pi conserved hypothetical protein (1024 nt)	-16.9691	-2.21977	0.199744
PITG_12760	Pi DNA binding protein, putative (1159 nt)	-14.0056	-1.38182	0.199877
PITG_09459	Pi nitroreductase family, putative (1208 nt)	-15.1676	-1.49419	0.199903
PITG_02227	Pi cleavage induced hypothetical protein (1578 nt)	-15.1794	-1.51779	0.199903
PITG_02826	Pi DEAD/DEAH box RNA helicase, putative (2948 nt)	-14.3727	1.43334	0.200126

PITG_09781	Pi conserved hypothetical protein (448 nt)	-15.4237	-1.60043	0.200201
PITG_05516	Pi glutathione S-transferase omega-like protein (1319 nt)	-13.3127	-1.3974	0.20032
PITG_09556	Pi guanine nucleotide-binding protein subunit beta-2-like prc	-10.0852	1.316086	0.200569
PITG_11329	Pi Annexin (Annexin) Family (3825 nt)	-11.8654	1.349809	0.200586
PITG_15360	Pi conserved hypothetical protein (542 nt)	-15.305	-1.48518	0.200651
PITG_13177	Pi elongation of very long chain fatty acids protein, putative	-13.12	-1.37834	0.200666
PITG_18100	Pi conserved hypothetical protein (2674 nt)	-14.0734	1.356421	0.200676
PITG_18304	Pi conserved hypothetical protein (1410 nt)	-15.9521	1.700091	0.201266
PITG_10895	Pi conserved hypothetical protein (2655 nt)	-14.1719	-1.34163	0.201392
PITG_07168	Pi Major Facilitator Superfamily (MFS) (1945 nt)	-14.0206	1.466057	0.201966
PITG_05686	Pi conserved hypothetical protein (2021 nt)	-14.3402	-1.49245	0.202351
PITG_02935	Pi berberine-like protein (1524 nt)	-16.9346	-2.28878	0.202492
PITG_12624	Pi Crinkler (CRN) family protein, pseudogene (1751 nt)	-16.9346	-2.28878	0.202492
PITG_18411	Pi conserved hypothetical protein (2239 nt)	-16.9286	-2.19798	0.202492
PITG_18966	Pi conserved hypothetical protein (1660 nt)	-16.9346	-2.28878	0.202492
PITG_21400	Pi protein kinase (1076 nt)	-14.9521	-1.42504	0.202711
PITG_07865	Pi autophagy-related protein, putative (8968 nt)	-14.5676	-1.42706	0.202782
PITG_19531	Pi 50S ribosomal protein L25, putative (785 nt)	-13.5417	1.30667	0.202863
PITG_00990	Pi conserved hypothetical protein (891 nt)	-15.9645	-1.54433	0.202894
PITG_00682	Pi carbonic anhydrase, putative (1115 nt)	-14.0496	1.336644	0.203217
PITG_13569	Pi endo-1,3(4)-beta-glucanase, putative (2985 nt)	-15.1523	-1.52487	0.203338
PITG_12315	Pi conserved hypothetical protein (1244 nt)	-15.1431	1.463461	0.203575
PITG_00940	Pi pre-mRNA polyadenylation factor, putative (1593 nt)	-15.3613	1.453053	0.203726
PITG_06814	Pi tyrosine phosphatase, putative (2277 nt)	-12.2132	1.271551	0.203784
PITG_15883	Pi myotubularin-like protein (3379 nt)	-16.7331	-1.65089	0.203871
PITG_02400	Pi protein kinase (3158 nt)	-16.2183	-1.793	0.204041
PITG_16735	Pi conserved hypothetical protein (561 nt)	-12.4387	1.288342	0.204109
PITG_13657	Pi conserved hypothetical protein (936 nt)	-13.2867	1.371285	0.20427
PITG_13618	Pi WD repeat protein pop3 (1134 nt)	-15.9769	-1.58657	0.204525
PITG_00931	Pi conserved hypothetical protein (1452 nt)	-13.7245	-1.3488	0.204824
PITG_17884	Pi conserved hypothetical protein (2967 nt)	-13.7093	-1.31944	0.204824
PITG_21278	Pi isochorismatase, putative (728 nt)	-13.2285	-1.30032	0.204945
PITG_15727	Pi hypothetical protein (908 nt)	-10.3141	-2.18984	0.20516
PITG_00089	Pi GTP-binding protein SAR1 (955 nt)	-10.4302	-1.30493	0.205437
PITG_06822	Pi sulfatase-like protein (3142 nt)	-14.5014	-1.34182	0.205542
PITG_04927	Pi conserved hypothetical protein (1731 nt)	-15.7414	1.655313	0.20574
PITG_10483	Pi conserved hypothetical protein (2773 nt)	-15.8646	1.68658	0.206006
PITG_11036	Pi NADH dehydrogenase [ubiquinone] 1 alpha subcomplex su	-12.3962	1.257518	0.206068
PITG_05117	Pi glycine amidinotransferase, mitochondrial precursor (123:	-13.3148	-1.32641	0.206152
PITG_11264	Pi conserved hypothetical protein (697 nt)	-15.9601	-1.55262	0.206158
PITG_03441	Pi malate synthase (1822 nt)	-11.3939	-1.23948	0.206278
PITG_13683	Pi NADH dehydrogenase flavoprotein 2, mitochondrial precu	-11.9232	1.231567	0.20643
PITG_11662	Pi ankyrin-like protein (2233 nt)	-15.5786	-2.0449	0.206452
PITG_02126	Pi conserved hypothetical protein (508 nt)	-16.7187	-1.68105	0.20664
PITG_03873	Pi rab GDP dissociation inhibitor alpha (1530 nt)	-12.6879	1.256414	0.206732
PITG_13314	Pi conserved hypothetical protein (1006 nt)	-15.1675	-1.59278	0.206988
PITG_00689	Pi Mitochondrial Carrier (MC) Family (1053 nt)	-13.7036	1.274506	0.206999

PITG_01155	Pi conserved hypothetical protein (1395 nt)	-14.1477	-1.33387	0.207312
PITG_02757	Pi pyruvate kinase (2280 nt)	-15.9548	-1.77608	0.207644
PITG_00864	Pi conserved hypothetical protein (2433 nt)	-16.0247	1.66692	0.207842
PITG_10451	Pi conserved hypothetical protein (6511 nt)	-15.6154	1.489759	0.20805
PITG_07297	Pi conserved hypothetical protein (1382 nt)	-16.4208	-2.19173	0.208119
PITG_08888	Pi protein kinase, putative (2280 nt)	-16.4208	-2.19173	0.208119
PITG_23111	Pi crinkler (CRN) family protein, putative (1296 nt)	-9.76816	-1.28072	0.208314
PITG_10085	Pi conserved hypothetical protein (2970 nt)	-15.2484	-1.48273	0.208455
PITG_20153	Pi Voltage-gated Ion Channel (VIC) Superfamily (8061 nt)	-16.324	1.732256	0.208529
PITG_21591	Pi conserved hypothetical protein (1045 nt)	-16.324	1.732256	0.208529
PITG_20671	Pi conserved hypothetical protein (649 nt)	-14.9307	-1.54859	0.208578
PITG_06790	Pi Ufm1-conjugating enzyme 1 (568 nt)	-13.5599	-1.29336	0.208648
PITG_11069	Pi villin-like protein (3045 nt)	-13.2193	-1.55606	0.208653
PITG_10938	Pi protein phosphatase 2C, putative (1237 nt)	-12.403	-1.25308	0.208775
PITG_11285	Pi conserved hypothetical protein (1260 nt)	-16.5352	-1.95726	0.208911
PITG_09815	Pi anthranilate synthase component 2, putative (1155 nt)	-14.222	1.347467	0.209139
PITG_02044	Pi conserved hypothetical protein (501 nt)	-15.0561	-1.4328	0.209379
PITG_22598	Pi amino acid/auxin permease-like protein (282 nt)	-16.941	-2.16952	0.209422
PITG_02916	Pi conserved hypothetical protein (1431 nt)	-15.9527	-1.6352	0.209433
PITG_19318	Pi Crinkler (CRN) family protein (2611 nt)	-11.0607	-1.2441	0.209803
PITG_19879	Pi conserved hypothetical protein (1407 nt)	-16.0751	1.906753	0.209896
PITG_03845	Pi conserved hypothetical protein (5129 nt)	-17.8513	-2.52702	0.209912
PITG_10328	Pi conserved hypothetical protein (2733 nt)	-17.8513	-2.52702	0.209912
PITG_17172	Pi 2-dehydro-3-deoxyphosphooctonate aldolase (1295 nt)	-17.8513	-2.52702	0.209912
PITG_18690	Pi conserved hypothetical protein (1140 nt)	-17.8513	-2.52702	0.209912
PITG_06521	Pi conserved hypothetical protein (5626 nt)	-16.2906	1.443557	0.21004
PITG_19849	Pi protein kinase (2164 nt)	-16.5617	-1.90438	0.210396
PITG_00283	Pi conserved hypothetical protein (1065 nt)	-15.7705	-1.49871	0.210498
PITG_02001	Pi conserved hypothetical protein (1016 nt)	-14.8074	1.452267	0.21066
PITG_09604	Pi conserved hypothetical protein (2560 nt)	-14.3637	-1.37467	0.210711
PITG_05408	Pi transmembrane protein, putative (2470 nt)	-15.4002	1.456855	0.210767
PITG_01192	Pi Voltage-gated Ion Channel (VIC) Superfamily (3328 nt)	-16.708	-1.70435	0.210819
PITG_06856	Pi kinesin-like protein (1143 nt)	-17.1562	-1.96136	0.210836
PITG_17904	Pi conserved hypothetical protein (483 nt)	-17.1562	-1.96136	0.210836
PITG_18508	Pi Zinc (Zn <sup>2+</sup> )-Iron (Fe <sup>2+</sup> ) Permease (ZIP) Family (843 nt)	-17.1562	-1.96136	0.210836
PITG_09644	Pi conserved hypothetical protein (474 nt)	-14.5926	1.396665	0.210913
PITG_06319	Pi myotubularin-like protein (4485 nt)	-15.1363	1.449446	0.210942
PITG_02926	Pi conserved hypothetical protein (657 nt)	-15.8365	-1.79097	0.210982
PITG_14066	Pi CUG-BP- and ETR-3-like factor, putative (1618 nt)	-14.6647	1.343703	0.211014
PITG_01449	Pi conserved hypothetical protein (350 nt)	-12.4599	1.26709	0.211304
PITG_05657	Pi conserved hypothetical protein (789 nt)	-14.258	1.460334	0.211491
PITG_19007	Pi conserved hypothetical protein (669 nt)	-13.3648	1.272156	0.211611
PITG_05202	Pi voltage-gated potassium channel subunit beta, putative (7	-15.5836	-1.50815	0.211696
PITG_13658	Pi methionine aminopeptidase, putative (834 nt)	-14.0085	-1.3011	0.211742
PITG_11159	Pi phospholipid-transporting ATPase, putative (3816 nt)	-15.4067	2.034255	0.21196
PITG_18574	Pi conserved hypothetical protein (922 nt)	-14.744	1.389621	0.212609
PITG_01398	Pi beta-glucosidase, putative (1749 nt)	-13.6067	-1.40433	0.212712

PITG_23155	Pi Crinkler (CRN) family protein, pseudogene (1862 nt)	-12.9777	-1.37465	0.213099
PITG_08210	Pi proteasome subunit beta type-3, putative (794 nt)	-11.4127	1.212897	0.213262
PITG_05553	Pi D-lactate dehydrogenase, putative (1573 nt)	-13.5853	-1.33892	0.213598
PITG_08307	Pi conserved hypothetical protein (839 nt)	-16.7137	-1.69423	0.213623
PITG_09201	Pi bzip transcription factor (1089 nt)	-16.7137	-1.69423	0.213623
PITG_19110	Pi conserved hypothetical protein (1772 nt)	-16.9308	-2.29582	0.213623
PITG_02285	Pi conserved hypothetical protein (2074 nt)	-13.7719	-1.27863	0.213723
PITG_08405	Pi conserved hypothetical protein (5259 nt)	-15.7348	1.582595	0.213901
PITG_17033	Pi Annexin (Annexin) Family (987 nt)	-9.69383	-1.42608	0.213972
PITG_23187	Pi conserved hypothetical protein (1458 nt)	-12.7585	1.565561	0.214176
PITG_15534	Pi conserved hypothetical protein (905 nt)	-15.7705	-1.56554	0.214209
PITG_12806	Pi phospholipase D, Pi-sPLD-like-12 (1818 nt)	-15.9931	-1.62372	0.214364
PITG_03274	Pi elongation factor P, putative (944 nt)	-14.5241	1.346164	0.214437
PITG_09434	Pi conserved hypothetical protein (739 nt)	-12.3947	1.263292	0.214489
PITG_01850	Pi kinesin-like protein (7582 nt)	-16.527	-1.9743	0.214869
PITG_05926	Pi conserved hypothetical protein (1496 nt)	-15.0565	-1.477	0.215015
PITG_19657	Pi conserved hypothetical protein (2720 nt)	-15.0201	1.561672	0.215028
PITG_13509	Pi secreted RxLR effector peptide, putative (660 nt)	-12.1388	1.609022	0.215082
PITG_13732	Pi dual specificity phosphatase, putative (1324 nt)	-16.0816	1.646541	0.215083
PITG_08218	Pi conserved hypothetical protein (725 nt)	-13.1134	-1.26644	0.215432
PITG_02765	Pi conserved hypothetical protein (901 nt)	-15.5635	-1.61416	0.2156
PITG_09700	Pi conserved hypothetical protein (1255 nt)	-15.7857	-1.4688	0.215606
PITG_03500	Pi chromodomain-helicase-DNA-binding protein 1 (2790 nt)	-16.3754	-1.56813	0.216119
PITG_14995	Pi conserved hypothetical protein (687 nt)	-14.2552	-1.34746	0.216363
PITG_10201	Pi conserved hypothetical protein (942 nt)	-16.5358	-1.86952	0.216366
PITG_22566	Pi conserved hypothetical protein (1366 nt)	-16.5358	-1.86952	0.216366
PITG_10519	Pi pantoate beta-alanine ligase, putative (949 nt)	-15.593	1.47304	0.216479
PITG_11424	Pi conserved hypothetical protein (2382 nt)	-15.675	-1.62927	0.216479
PITG_11803	Pi conserved hypothetical protein (1940 nt)	-15.7395	1.731568	0.216544
PITG_04614	Pi DNA ligase, putative (1649 nt)	-16.178	-1.71485	0.216672
PITG_01743	Pi conserved hypothetical protein (582 nt)	-15.7859	-1.53006	0.217313
PITG_06199	Pi Cullin family protein, putative (3859 nt)	-14.5126	-1.31928	0.21748
PITG_01671	Pi conserved hypothetical protein (709 nt)	-15.73	1.60147	0.217616
PITG_05738	Pi cleavage induced conserved hypothetical protein (561 nt)	-13.541	-1.28561	0.217749
PITG_02655	Pi conserved hypothetical protein (804 nt)	-16.2334	-1.68605	0.217905
PITG_02744	Pi conserved hypothetical protein (2910 nt)	-16.2334	-1.68605	0.217905
PITG_03300	Pi U4/U6 small nuclear ribonucleoprotein Prp31 (1625 nt)	-16.2334	-1.68605	0.217905
PITG_01659	Pi conserved hypothetical protein (736 nt)	-16.8373	-2.3562	0.217954
PITG_05779	Pi neutral ceramidase, putative (696 nt)	-16.8373	-2.3562	0.217954
PITG_18606	Pi conserved hypothetical protein (1720 nt)	-16.8373	-2.3562	0.217954
PITG_01382	Pi ubiquitin family protein, putative (1724 nt)	-13.4928	-1.2713	0.217973
PITG_04283	Pi conserved hypothetical protein (3545 nt)	-15.1819	-1.62193	0.217992
PITG_18187	Pi sulfite reductase [NADPH] subunit beta, putative (4512 nt)	-13.6548	-1.67109	0.218287
PITG_11177	Pi hypothetical protein (865 nt)	-15.1404	1.473745	0.218337
PITG_16687	Pi conserved hypothetical protein (614 nt)	-13.1629	-1.26984	0.218908
PITG_18959	Pi conserved hypothetical protein (999 nt)	-15.083	-1.37891	0.219138
PITG_12855	Pi conserved hypothetical protein (1188 nt)	-15.7635	-1.64614	0.219323

PITG_12154	Pi conserved hypothetical protein (3494 nt)	-13.2409	1.216589	0.219717
PITG_00486	Pi hypothetical protein (1155 nt)	-13.9307	-1.29321	0.219957
PITG_21963	Pi Crinkler (CRN) family protein, pseudogene (1286 nt)	-10.3936	-1.18433	0.220081
PITG_09576	Pi orotidine 5'-phosphate decarboxylase, putative (1685 nt)	-13.9214	-1.30628	0.220762
PITG_01370	Pi ATP-binding Cassette (ABC) Superfamily (4527 nt)	-15.4909	1.540415	0.220843
PITG_12904	Pi conserved hypothetical protein (618 nt)	-11.8549	1.202389	0.220967
PITG_14812	Pi conserved hypothetical protein (809 nt)	-15.0829	-1.37916	0.22104
PITG_11107	Pi conserved hypothetical protein (939 nt)	-14.2109	-1.35118	0.221125
PITG_07991	Pi glutamate-cysteine ligase catalytic subunit, putative (2397 nt)	-15.3903	-1.52817	0.221493
PITG_15869	Pi conserved hypothetical protein (1387 nt)	-15.3657	1.456824	0.221493
PITG_11887	Pi conserved hypothetical protein (2098 nt)	-15.6608	-1.65745	0.221762
PITG_13750	Pi conserved hypothetical protein (906 nt)	-13.3485	-1.28248	0.221867
PITG_16684	Pi transmembrane protein, putative (2148 nt)	-14.8445	-1.7589	0.221889
PITG_19607	Pi histone arginine demethylase, putative (3486 nt)	-15.1345	-1.61175	0.222224
PITG_14564	Pi conserved hypothetical protein (1257 nt)	-14.7536	-1.3278	0.222337
PITG_07804	Pi conserved hypothetical protein (982 nt)	-15.7166	1.545648	0.222446
PITG_04715	Pi pantothenate kinase, putative (1800 nt)	-14.6204	-1.32132	0.222845
PITG_14388	Pi cytochrome P450, putative (1581 nt)	-15.0924	1.867768	0.222994
PITG_15525	Pi Rab21/Rab5 family GTPase, putative (747 nt)	-12.969	-1.24137	0.223111
PITG_00626	Pi conserved hypothetical protein (2004 nt)	-14.857	-1.37721	0.223147
PITG_11561	Pi nuclear prelamin A recognition factor-like protein (1512 nt)	-14.8746	-1.41393	0.223147
PITG_07879	Pi conserved hypothetical protein (1400 nt)	-15.3798	1.417445	0.223308
PITG_03956	Pi conserved hypothetical protein (963 nt)	-14.3245	1.310313	0.223505
PITG_07340	Pi conserved hypothetical protein (569 nt)	-9.54157	-1.16813	0.223541
PITG_18044	Pi conserved hypothetical protein (1623 nt)	-16.9402	-2.164	0.223545
PITG_10929	Pi proteasome subunit alpha, putative (964 nt)	-11.6221	1.23742	0.223679
PITG_05757	Pi structural maintenance of chromosomes protein, putative (1000 nt)	-16.532	-1.87539	0.223893
PITG_12853	Pi conserved hypothetical protein (1224 nt)	-16.532	-1.87539	0.223893
PITG_07894	Pi sulfatase-like protein (612 nt)	-13.5125	1.398617	0.223937
PITG_17242	Pi conserved hypothetical protein (2469 nt)	-15.6992	1.356565	0.224161
PITG_01082	Pi ran-specific GTPase-activating protein, putative (936 nt)	-11.7073	1.258869	0.224232
PITG_05462	Pi aldehyde dehydrogenase family 7 member A1 (2327 nt)	-12.722	-1.25761	0.224327
PITG_01703	Pi ADP-ribosylation factor GTPase-activating protein, putative (1000 nt)	-14.5152	1.328186	0.224495
PITG_18717	Pi H/ACA ribonucleoprotein complex subunit 3 (442 nt)	-13.4477	1.264493	0.224671
PITG_05141	Pi actin-like protein (1487 nt)	-13.7407	-1.25676	0.224771
PITG_05990	Pi myb-like DNA-binding protein, putative (2043 nt)	-14.3825	-1.27588	0.224804
PITG_14863	Pi NADH-ubiquinone oxidoreductase, putative (1508 nt)	-15.5037	-1.49802	0.224821
PITG_03225	Pi conserved hypothetical protein (1653 nt)	-15.3327	-1.48062	0.224847
PITG_03877	Pi conserved hypothetical protein (1680 nt)	-16.9047	-2.23429	0.224976
PITG_06033	Pi conserved hypothetical protein (941 nt)	-16.9047	-2.23429	0.224976
PITG_03740	Pi P-type ATPase (P-ATPase) Superfamily (3451 nt)	-15.4533	-1.597	0.225107
PITG_00312	Pi conserved hypothetical protein (411 nt)	-17.2163	-1.82798	0.22522
PITG_20571	Pi alkyldihydroxyacetonephosphate synthase, peroxisomal, putative (1000 nt)	-17.2163	-1.82798	0.22522
PITG_20689	Pi eukaryotic translation initiation factor 3 subunit H, putative (1000 nt)	-13.3203	1.23508	0.225261
PITG_20534	Pi conserved hypothetical protein (859 nt)	-16.4217	-1.97723	0.225294
PITG_13844	Pi conserved hypothetical protein (2067 nt)	-16.354	1.655062	0.225407
PITG_01700	Pi inositol-3-phosphate synthase, putative (4011 nt)	-11.7897	1.183783	0.22548

PITG_11527	Pi conserved hypothetical protein (864 nt)	-14.9702	1.431226	0.225572
PITG_09355	Pi aquaporin, putative (873 nt)	-14.5321	-1.57316	0.225607
PITG_21488	Pi Annexin (Annexin) Family (1207 nt)	-9.93961	-1.48135	0.225686
PITG_02820	Pi phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase, p	-14.3048	-1.33595	0.225769
PITG_12257	Pi conserved hypothetical protein (588 nt)	-16.2387	-1.5988	0.22584
PITG_03056	Pi DNA polymerase I, putative (4067 nt)	-15.7247	1.53207	0.225878
PITG_02994	Pi hypothetical protein (1187 nt)	-15.7616	-1.58083	0.225878
PITG_04132	Pi conserved hypothetical protein (1047 nt)	-15.9517	-1.6379	0.225958
PITG_11761	Pi conserved hypothetical protein (1008 nt)	-15.9739	-1.59348	0.225958
PITG_09431	Pi 40S ribosomal protein S19-3 (946 nt)	-9.48394	1.1608	0.22602
PITG_06514	Pi calmodulin (649 nt)	-10.1579	1.241147	0.226072
PITG_10017	Pi conserved hypothetical protein (1414 nt)	-12.9487	-1.23711	0.226176
PITG_01946	Pi ras family GTPase, putative (641 nt)	-13.8691	1.270328	0.226352
PITG_06609	Pi conserved hypothetical protein (1221 nt)	-15.4889	-1.5275	0.226633
PITG_00146	Pi glucose-6-phosphate 1-dehydrogenase (1735 nt)	-12.8031	-1.24757	0.226699
PITG_13752	Pi conserved hypothetical protein (2768 nt)	-14.6128	1.313468	0.226706
PITG_02846	Pi para-hydroxybenzoate-polyprenyltransferase, putative (23	-16.3134	1.381098	0.226923
PITG_16128	Pi conserved hypothetical protein (1035 nt)	-14.2622	-1.33295	0.227112
PITG_01961	Pi DCN1-like protein (1100 nt)	-16.0305	-1.47925	0.227307
PITG_12048	Pi M96 mating-specific protein family (1390 nt)	-16.0276	-1.485	0.227307
PITG_11243	Pi hypothetical protein (1247 nt)	-13.2935	1.412656	0.227412
PITG_20805	Pi hypothetical protein (273 nt)	-14.3283	-1.76718	0.227743
PITG_08193	Pi elicitin-like protein (357 nt)	-13.7859	1.269168	0.227999
PITG_00919	Pi Glycoside-Pentoside-Hexuronide (GPH):Cation Symporter	-16.6895	2.284922	0.228443
PITG_03764	Pi polyribonucleotide nucleotidyltransferase, putative (2724	-16.3032	1.40342	0.228443
PITG_08009	Pi conserved hypothetical protein (717 nt)	-16.4311	-1.4489	0.228443
PITG_16884	Pi conserved hypothetical protein (1124 nt)	-16.7061	2.251689	0.228443
PITG_05590	Pi conserved hypothetical protein (1202 nt)	-15.4538	1.489176	0.228447
PITG_10335	Pi carnitine O-palmitoyltransferase 2, putative (823 nt)	-15.0375	-1.4247	0.228662
PITG_20608	Pi conserved hypothetical protein (1443 nt)	-14.2459	1.305012	0.228735
PITG_17209	Pi conserved hypothetical protein (1477 nt)	-15.6197	-1.43506	0.228829
PITG_00562	Pi Mitochondrial Tricarboxylate Carrier (MTC) Family (1636 r	-15.9791	1.64649	0.228972
PITG_13188	Pi conserved hypothetical protein (2010 nt)	-16.0106	-1.51906	0.228972
PITG_08742	Pi conserved hypothetical protein (972 nt)	-16.2511	-1.64992	0.22903
PITG_01483	Pi conserved hypothetical protein (1109 nt)	-14.6661	1.329393	0.229359
PITG_17021	Pi conserved hypothetical protein (1563 nt)	-14.9896	-1.34976	0.229443
PITG_19147	Pi conserved hypothetical protein (450 nt)	-13.9496	-1.34862	0.229481
PITG_04800	Pi conserved hypothetical protein (1200 nt)	-15.6605	1.401352	0.229618
PITG_17595	Pi conserved hypothetical protein (3198 nt)	-15.695	1.499473	0.229618
PITG_12984	Pi conserved hypothetical protein (1215 nt)	-14.3229	-1.26997	0.229702
PITG_00342	Pi conserved hypothetical protein (1537 nt)	-16.316	-1.70345	0.230066
PITG_04261	Pi ATP-binding Cassette (ABC) Superfamily (2690 nt)	-14.2709	1.316476	0.230347
PITG_17708	Pi conserved hypothetical protein (668 nt)	-10.6367	1.235943	0.230383
PITG_00568	Pi Drug/Metabolite Transporter (DMT) Superfamily (1861 nt)	-15.3481	-1.45052	0.230486
PITG_01603	Pi conserved hypothetical protein (8629 nt)	-16.1685	1.464007	0.230628
PITG_17079	Pi conserved hypothetical protein (6370 nt)	-16.1685	1.464007	0.230628
PITG_15568	Pi conserved hypothetical protein (824 nt)	-11.9757	1.177125	0.230842

PITG_11287	Pi conserved hypothetical protein (616 nt)	-15.9922	-1.70135	0.230964
PITG_17496	Pi glycoside hydrolase, putative (935 nt)	-15.885	1.391685	0.230964
PITG_05551	Pi ribose-phosphate pyrophosphokinase, putative (1542 nt)	-14.7588	1.333163	0.231379
PITG_00422	Pi Zinc (Zn <sup>2+</sup> )-Iron (Fe <sup>2+</sup> ) Permease (ZIP) Family (1176 nt)	-16.5136	-1.81824	0.231491
PITG_00468	Pi conserved hypothetical protein (862 nt)	-16.5454	-1.7546	0.231491
PITG_02208	Pi conserved hypothetical protein (1974 nt)	-16.3804	-1.55174	0.231491
PITG_14452	Pi conserved hypothetical protein (406 nt)	-16.5454	-1.7546	0.231491
PITG_17705	Pi protein kinase (1554 nt)	-16.4122	-1.4881	0.231491
PITG_10889	Pi conserved hypothetical protein (3143 nt)	-17.2571	-1.74924	0.231544
PITG_14934	Pi conserved hypothetical protein (1359 nt)	-17.2571	-1.74924	0.231544
PITG_07703	Pi conserved hypothetical protein (5210 nt)	-15.3509	-1.5558	0.231758
PITG_14172	Pi conserved hypothetical protein (1397 nt)	-15.4141	1.383995	0.232078
PITG_04561	Pi conserved hypothetical protein (1419 nt)	-16.9853	-2.18777	0.232283
PITG_13031	Pi variable flagellar number 3 (2096 nt)	-16.9853	-2.18777	0.232283
PITG_16273	Pi M96 mating-specific protein family (1530 nt)	-16.9853	-2.18777	0.232283
PITG_13417	Pi conserved hypothetical protein (1464 nt)	-15.9838	-1.50536	0.232308
PITG_17023	Pi phosphoglycerate/bisphosphoglycerate mutase (1177 nt)	-15.9982	-1.61155	0.232308
PITG_19965	Pi conserved hypothetical protein (1744 nt)	-16.0224	-1.56328	0.232308
PITG_16745	Pi conserved hypothetical protein (786 nt)	-15.4682	-1.62459	0.232318
PITG_15639	Pi hypothetical protein (570 nt)	-9.63853	1.138689	0.232343
PITG_19864	Pi conserved hypothetical protein (923 nt)	-10.7426	-1.17792	0.232468
PITG_10674	Pi CorA Metal Ion Transporter (MIT) Family (2073 nt)	-14.1219	-1.56186	0.232596
PITG_23215	Pi secreted RxLR effector peptide, putative (486 nt)	-16.2202	-1.7102	0.232729
PITG_11536	Pi conserved hypothetical protein (522 nt)	-14.6233	-1.3156	0.232907
PITG_09010	Pi calcium/calmodulin-dependent protein kinase, putative (2	-16.4731	-1.9851	0.233127
PITG_10888	Pi Resistance-Nodulation-Cell Division (RND) Superfamily (31	-15.2125	-1.35741	0.233519
PITG_01104	Pi ubiquitin thioesterase otubain (727 nt)	-14.8485	1.278659	0.233562
PITG_13801	Pi conserved hypothetical protein (2132 nt)	-16.7185	-1.69341	0.233637
PITG_20287	Pi kinesin-like protein (1714 nt)	-17.0356	-2.08715	0.233676
PITG_09209	Pi conserved hypothetical protein (2025 nt)	-14.9698	1.488519	0.233678
PITG_04425	Pi ubiquitin-conjugating enzyme E2, putative (785 nt)	-12.8784	-1.22209	0.233757
PITG_00385	Pi conserved hypothetical protein (3214 nt)	-15.8509	1.463374	0.234313
PITG_14248	Pi rRNA-processing protein EBP2, putative (1109 nt)	-15.0549	1.329598	0.234379
PITG_03152	Pi conserved hypothetical protein (6883 nt)	-16.5527	-1.92493	0.23455
PITG_03800	Pi conserved hypothetical protein (644 nt)	-16.5527	-1.92493	0.23455
PITG_18713	Pi Rab6 family GTPase, putative (937 nt)	-14.3463	1.325537	0.234767
PITG_18317	Pi phospholipid hydroperoxide glutathione peroxidase, putative	-11.831	-1.18524	0.234951
PITG_11610	Pi conserved hypothetical protein (3524 nt)	-10.2506	-1.21108	0.235039
PITG_15929	Pi paladin-like protein (3014 nt)	-17.017	-2.12435	0.235072
PITG_16452	Pi hypothetical protein (351 nt)	-17.0023	-2.15364	0.235072
PITG_01705	Pi hypothetical protein (362 nt)	-11.3911	1.179639	0.235243
PITG_00658	Pi conserved hypothetical protein (1260 nt)	-14.9763	-1.37699	0.235252
PITG_08131	Pi oxidoreductase htip2-like protein (817 nt)	-14.813	-1.42828	0.235498
PITG_11869	Pi SUMO-activating enzyme (SAE), putative (1584 nt)	-15.9816	-1.50918	0.23565
PITG_02637	Pi hypothetical protein (2078 nt)	-15.4074	-1.43853	0.235933
PITG_05196	Pi 2-nitropropane dioxygenase, putative (745 nt)	-16.5235	-1.98346	0.236083
PITG_15844	Pi conserved hypothetical protein (2118 nt)	-16.5296	-1.87769	0.236083



PITG_06849	Pi conserved hypothetical protein (1628 nt)	-14.5467	-1.31735	0.23616
PITG_11146	Pi conserved hypothetical protein (2655 nt)	-17.0452	-2.06776	0.236471
PITG_10485	Pi conserved hypothetical protein (1836 nt)	-16.9307	-2.29472	0.236551
PITG_12919	Pi conserved hypothetical protein (3422 nt)	-16.9307	-2.29472	0.236551
PITG_19420	Pi hypothetical protein (252 nt)	-16.9307	-2.29472	0.236551
PITG_10334	Pi serine/threonine protein kinase (1221 nt)	-15.8085	-1.42279	0.236628
PITG_12746	Pi conserved hypothetical protein (760 nt)	-13.0467	1.265738	0.237041
PITG_07699	Pi cytochrome P450, putative (1599 nt)	-16.2486	-1.8119	0.237044
PITG_18377	Pi adenylate kinase, putative (2776 nt)	-16.249	-1.65377	0.237044
PITG_19854	Pi conserved hypothetical protein (1732 nt)	-12.043	-1.17561	0.237384
PITG_22339	Pi conserved hypothetical protein (937 nt)	-14.4688	1.326927	0.237425
PITG_18883	Pi conserved hypothetical protein (585 nt)	-15.457	1.391236	0.237532
PITG_19080	Pi conserved hypothetical protein (872 nt)	-14.8337	1.401288	0.237618
PITG_14277	Pi trichohyalin-like protein (1827 nt)	-15.8602	1.448384	0.237671
PITG_16922	Pi conserved hypothetical protein (961 nt)	-13.9215	1.285997	0.237791
PITG_11813	Pi conserved hypothetical protein (2037 nt)	-15.1234	1.44548	0.23781
PITG_19096	Pi phospho-2-dehydro-3-deoxyheptonate aldolase (1513 nt)	-15.0952	1.349796	0.23781
PITG_12811	Pi conserved hypothetical protein (658 nt)	-13.6762	-1.21088	0.237914
PITG_13138	Pi conserved hypothetical protein (2544 nt)	-15.7675	1.525904	0.237951
PITG_12620	Pi conserved hypothetical protein (1680 nt)	-16.8977	-2.36072	0.238014
PITG_15057	Pi cysteine desulfurase 1, mitochondrial precursor (1582 nt)	-13.8253	1.244454	0.238185
PITG_03653	Pi protein phosphatase 2 (2358 nt)	-14.1079	1.219571	0.238283
PITG_19157	Pi conserved hypothetical protein (449 nt)	-12.6565	1.257254	0.238523
PITG_09553	Pi conserved hypothetical protein (1008 nt)	-11.4875	1.195519	0.238591
PITG_10275	Pi conserved hypothetical protein (2856 nt)	-16.2228	-1.70618	0.238654
PITG_17787	Pi Arsenite-Antimonite (ArsAB) Efflux Family (1135 nt)	-13.2735	1.181872	0.238668
PITG_05225	Pi 4-aminobutyrate aminotransferase, mitochondrial precursor	-13.5301	-1.3632	0.238755
PITG_17943	Pi conserved hypothetical protein (1303 nt)	-15.9739	1.468549	0.238999
PITG_15737	Pi conserved hypothetical protein (528 nt)	-14.9892	-1.39423	0.239127
PITG_06967	Pi conserved hypothetical protein (1460 nt)	-13.501	1.238411	0.239215
PITG_02752	Pi ribosomal RNA methyltransferase nop2-like protein (2126 nt)	-15.6293	1.400543	0.239359
PITG_19008	Pi nascent polypeptide-associated complex subunit alpha-like	-11.4958	1.202415	0.239435
PITG_00584	Pi oxidoreductase, putative (1591 nt)	-14.9937	1.384191	0.239648
PITG_12646	Pi Crinkler (CRN) family protein (2186 nt)	-12.4649	-1.17535	0.239735
PITG_04746	Pi conserved hypothetical protein (2806 nt)	-15.1075	-1.3742	0.239738
PITG_01785	Pi conserved hypothetical protein (423 nt)	-14.3164	-1.28476	0.240088
PITG_17394	Pi developmentally-regulated GTP-binding protein 1 (1149 nt)	-15.783	1.48691	0.240097
PITG_03259	Pi conserved hypothetical protein (1300 nt)	-15.0487	1.390566	0.240104
PITG_01184	Pi eukaryotic translation initiation factor 3 subunit G, putative	-12.7028	1.16836	0.240173
PITG_00264	Pi Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, putative (1016 nt)	-14.5154	-1.31358	0.240594
PITG_04773	Pi conserved hypothetical protein (454 nt)	-14.2306	-1.27918	0.24063
PITG_11651	Pi conserved hypothetical protein (773 nt)	-14.8299	1.321561	0.240644
PITG_13841	Pi conserved hypothetical protein (3438 nt)	-15.9971	-1.54655	0.240676
PITG_04701	Pi cleavage induced conserved hypothetical protein (2201 nt)	-16.0164	-1.57697	0.240676
PITG_03996	Pi conserved hypothetical protein (662 nt)	-17.0102	-2.1376	0.240682
PITG_17155	Pi RNA 3'-terminal phosphate cyclase, putative (2034 nt)	-17.0092	-2.13966	0.240682
PITG_06799	Pi ribosomal protein L27 (785 nt)	-10.3309	1.174324	0.240735

PITG_22037	Pi hypothetical protein (988 nt)	-16.1921	1.826196	0.240866
PITG_14257	Pi conserved hypothetical protein (2697 nt)	-15.2357	-1.40583	0.241098
PITG_14279	Pi conserved hypothetical protein (1597 nt)	-15.6549	-1.66842	0.241254
PITG_03472	Pi callose synthase, putative (6122 nt)	-13.9237	-1.30361	0.241257
PITG_07030	Pi conserved hypothetical protein (1334 nt)	-14.108	1.288171	0.241745
PITG_09790	Pi conserved hypothetical protein (856 nt)	-15.8277	-1.44653	0.241834
PITG_12100	Pi conserved hypothetical protein (1683 nt)	-15.8277	-1.44653	0.241834
PITG_11081	Pi conserved hypothetical protein (519 nt)	-14.2129	1.287399	0.241836
PITG_04703	Pi conserved hypothetical protein (603 nt)	-16.2675	-1.69641	0.241879
PITG_20235	Pi conserved hypothetical protein (1161 nt)	-15.0519	1.339414	0.242014
PITG_10087	Pi conserved hypothetical protein (2755 nt)	-15.98	-1.51154	0.242355
PITG_22000	Pi conserved hypothetical protein (366 nt)	-15.6945	1.746134	0.242479
PITG_15873	Pi NADH-cytochrome b5 reductase (1043 nt)	-13.8456	-1.25571	0.242495
PITG_03842	Pi conserved hypothetical protein (4143 nt)	-15.9345	-1.59895	0.242725
PITG_16363	Pi hypothetical protein (1392 nt)	-11.1565	1.172204	0.242818
PITG_07124	Pi conserved hypothetical protein (542 nt)	-15.6621	1.402536	0.242937
PITG_13990	Pi conserved hypothetical protein (512 nt)	-14.8861	1.340066	0.243003
PITG_10922	Pi fatty acid synthase subunit alpha, putative (12163 nt)	-15.3523	1.466908	0.243103
PITG_12212	Pi conserved hypothetical protein (753 nt)	-14.7102	1.505581	0.243358
PITG_08664	Pi hypothetical protein (483 nt)	-15.7463	-1.62056	0.243481
PITG_06026	Pi conserved hypothetical protein (1015 nt)	-16.2424	-1.82708	0.243495
PITG_07821	Pi ATP-dependent RNA helicase, putative (5639 nt)	-16.1236	1.449139	0.243495
PITG_06890	Pi peptidase, putative (1581 nt)	-14.097	-1.25018	0.243547
PITG_21944	Pi conserved hypothetical protein (937 nt)	-15.8295	-1.44336	0.243572
PITG_00191	Pi conserved hypothetical protein (1047 nt)	-15.9864	1.550551	0.244035
PITG_02697	Pi ATP-binding Cassette (ABC) Superfamily (2563 nt)	-16.0773	1.708696	0.244035
PITG_19775	Pi conserved hypothetical protein (554 nt)	-12.9805	-1.27773	0.244286
PITG_02027	Pi conserved hypothetical protein (6430 nt)	-15.535	-1.49072	0.244552
PITG_02731	Pi conserved hypothetical protein (3612 nt)	-15.6919	-1.59523	0.244728
PITG_03261	Pi conserved hypothetical protein (766 nt)	-15.8013	-1.5717	0.244891
PITG_01792	Pi conserved hypothetical protein (639 nt)	-14.9995	-1.37463	0.24494
PITG_14585	Pi conserved hypothetical protein (948 nt)	-15.8247	-1.45345	0.245311
PITG_04380	Pi hypothetical protein (740 nt)	-13.3353	-1.18131	0.245353
PITG_01244	Pi conserved hypothetical protein (1255 nt)	-13.8084	-1.22705	0.245568
PITG_07121	Pi acyl-[acyl-carrier-protein]-UDP-N-acetylglucosamine O-acy	-14.5971	1.25798	0.245725
PITG_02253	Pi isovaleryl-CoA dehydrogenase, putative (1538 nt)	-12.4243	-1.15663	0.24573
PITG_17460	Pi DEAD/DEAH box RNA helicase, putative (2653 nt)	-15.0543	1.380284	0.245835
PITG_05526	Pi alpha-amylase, putative (2124 nt)	-15.6536	-1.89377	0.245944
PITG_15292	Pi catalase (1541 nt)	-16.5942	-1.83937	0.246287
PITG_14695	Pi conserved hypothetical protein (1320 nt)	-16.8	-1.51836	0.246335
PITG_15980	Pi glycoside hydrolase, putative (1332 nt)	-16.7581	-1.60223	0.246335
PITG_07325	Pi conserved hypothetical protein (1203 nt)	-14.5587	-1.22707	0.24649
PITG_10593	Pi conserved hypothetical protein (1185 nt)	-15.6214	1.355576	0.246519
PITG_03016	Pi conserved hypothetical protein (640 nt)	-15.195	1.332962	0.246786
PITG_11304	Pi conserved hypothetical protein (448 nt)	-12.0895	1.131995	0.246916
PITG_18183	Pi maltose O-acetyltransferase (1036 nt)	-13.769	-1.20009	0.247003
PITG_03616	Pi conserved hypothetical protein (789 nt)	-14.011	-1.27262	0.247079

PITG_13277	Pi conserved hypothetical protein (1592 nt)	-14.0229	-1.29896	0.247079
PITG_00172	Pi proteasome subunit alpha, putative (933 nt)	-12.2291	1.187709	0.247271
PITG_06691	Pi cell division control protein 42 (1236 nt)	-12.5671	1.15526	0.247393
PITG_19023	Pi NADH-cytochrome b5 reductase, putative (1093 nt)	-11.6206	1.128229	0.247495
PITG_20774	Pi conserved hypothetical protein (2992 nt)	-14.6547	-1.32326	0.247755
PITG_02756	Pi conserved hypothetical protein (1271 nt)	-15.6478	-1.32153	0.248311
PITG_15872	Pi conserved hypothetical protein (898 nt)	-12.7085	-1.19345	0.24842
PITG_12299	Pi hypothetical protein (473 nt)	-8.85886	1.168978	0.248608
PITG_07027	Pi isocitrate lyase (1764 nt)	-12.1427	1.261754	0.248785
PITG_02337	Pi exonuclease, putative (1389 nt)	-14.8938	-1.30313	0.248955
PITG_15694	Pi dihydroorotase (1271 nt)	-14.2322	-1.22114	0.248998
PITG_16799	Pi inositol-3,4-bisphosphate 4-phosphatase, putative (3238 r	-16.0201	-1.50098	0.249086
PITG_02003	Pi conserved hypothetical protein (865 nt)	-14.6496	-1.26294	0.24913
PITG_04631	Pi conserved hypothetical protein (1040 nt)	-16.7838	-1.55199	0.249177
PITG_03878	Pi dynein intermediate chain 2 (2326 nt)	-14.8378	1.275799	0.24927
PITG_09242	Pi conserved hypothetical protein (2321 nt)	-16.6225	-1.78299	0.249326
PITG_15463	Pi lamin-like protein (1884 nt)	-16.589	-1.84996	0.249326
PITG_14108	Pi conserved hypothetical protein (5027 nt)	-14.4757	-1.28533	0.249389
PITG_12258	Pi conserved hypothetical protein (796 nt)	-15.073	-1.3998	0.249657
PITG_17258	Pi conserved hypothetical protein (1386 nt)	-16.2646	1.782373	0.249981
PITG_14770	Pi conserved hypothetical protein (1513 nt)	-15.4743	-1.30063	0.250065
PITG_01526	Pi dual specificity mitogen-activated protein kinase kinase, p	-15.6199	-1.37752	0.250103
PITG_10487	Pi conserved hypothetical protein (1587 nt)	-15.4359	-1.49569	0.250455
PITG_09260	Pi conserved hypothetical protein (4938 nt)	-15.7483	1.259572	0.250534
PITG_16820	Pi conserved hypothetical protein (1218 nt)	-17.0033	-2.15087	0.250602
PITG_05199	Pi conserved hypothetical protein (1101 nt)	-16.2366	1.460897	0.250626
PITG_05286	Pi conserved hypothetical protein (555 nt)	-14.3353	-1.24602	0.250711
PITG_21994	Pi conserved hypothetical protein (901 nt)	-15.3824	-1.38186	0.250846
PITG_02346	Pi CCR4-NOT transcription complex subunit 7 (650 nt)	-16.601	-1.73933	0.250849
PITG_12627	Pi crinkler (CRN) family protein, Gypsy-disrupted, pseudogen	-16.601	-1.73933	0.250849
PITG_01509	Pi conserved hypothetical protein (1670 nt)	-17.2514	-1.76918	0.251015
PITG_09980	Pi conserved hypothetical protein (784 nt)	-17.2514	-1.76918	0.251015
PITG_12131	Pi protease inhibitor Epi4 (957 nt)	-17.2514	-1.76918	0.251015
PITG_14286	Pi conserved hypothetical protein (1870 nt)	-17.2514	-1.76918	0.251015
PITG_13250	Pi Mitochondrial Protein Translocase (MPT) Family (1047 nt)	-14.6559	1.227282	0.251257
PITG_01386	Pi phospholipase, putative (3507 nt)	-15.0975	-1.35043	0.251305
PITG_20796	Pi conserved hypothetical protein (688 nt)	-13.641	-1.30195	0.251498
PITG_09836	Pi secreted RxLR effector peptide, putative (483 nt)	-13.8725	-1.2286	0.251884
PITG_10949	Pi conserved hypothetical protein (829 nt)	-15.6306	1.46337	0.251896
PITG_01189	Pi hypothetical protein (2548 nt)	-15.5073	-1.43488	0.251903
PITG_02887	Pi ribosome biogenesis protein BMS1 (3663 nt)	-15.4605	1.290257	0.251903
PITG_03773	Pi protein kinase (2755 nt)	-16.7517	-1.61752	0.252029
PITG_14178	Pi conserved hypothetical protein (453 nt)	-16.7925	-1.536	0.252029
PITG_21507	Pi sterol 3-beta-glucosyltransferase, putative (3531 nt)	-16.9661	-2.22529	0.252029
PITG_06483	Pi conserved hypothetical protein (1048 nt)	-13.7426	-1.19982	0.252338
PITG_23178	Pi kazal-type serine protease inhibitor, putative (1594 nt)	-16.5677	-1.80577	0.252374
PITG_17452	Pi importin alpha-2 subunit (2296 nt)	-11.9097	-1.12053	0.25245

PITG_13523	Pi conserved hypothetical protein (1599 nt)	-16.0174	-1.64899	0.252461
PITG_06766	Pi conserved hypothetical protein (1797 nt)	-14.7347	-1.25452	0.252782
PITG_18099	Pi cysteine protease family C15, putative (1610 nt)	-14.3118	1.242968	0.252786
PITG_02532	Pi Ca2 :Cation Antiporter (CaCA) Family (3392 nt)	-13.3974	1.264037	0.253059
PITG_20079	Pi conserved hypothetical protein (1225 nt)	-13.203	-1.35331	0.253088
PITG_06596	Pi conserved hypothetical protein (1272 nt)	-14.2387	1.232897	0.253112
PITG_14224	Pi conserved hypothetical protein (1097 nt)	-16.3788	-1.56404	0.253136
PITG_07572	Pi conserved hypothetical protein (780 nt)	-12.4482	1.203613	0.25316
PITG_06997	Pi conserved hypothetical protein (507 nt)	-14.5812	-1.24789	0.253418
PITG_00755	Pi conserved hypothetical protein (2618 nt)	-17.2024	-1.86837	0.253668
PITG_07258	Pi conserved hypothetical protein (1535 nt)	-17.2024	-1.86837	0.253668
PITG_13527	Pi conserved hypothetical protein (1548 nt)	-16.3118	-1.52901	0.253849
PITG_17160	Pi conserved hypothetical protein (1836 nt)	-16.267	1.560566	0.253849
PITG_17994	Pi Cyclin B (1718 nt)	-16.3051	-1.61743	0.253849
PITG_19461	Pi conserved hypothetical protein (1566 nt)	-16.3051	-1.61743	0.253849
PITG_03359	Pi conserved hypothetical protein (1441 nt)	-15.1099	1.292006	0.254125
PITG_11563	Pi conserved hypothetical protein (928 nt)	-13.9809	1.162338	0.254427
PITG_15251	Pi conserved hypothetical protein (1309 nt)	-13.7649	1.2047	0.25497
PITG_18409	Pi conserved hypothetical protein (2100 nt)	-14.6259	-1.34649	0.255022
PITG_11180	Pi conserved hypothetical protein (1669 nt)	-14.4385	1.243936	0.255241
PITG_21149	Pi conserved hypothetical protein (1645 nt)	-15.669	1.387572	0.255352
PITG_10027	Pi alpha-N-acetylglucosaminidase (NAGLU), putative (2125 nt)	-16.2823	-1.5879	0.255462
PITG_14916	Pi conserved hypothetical protein (705 nt)	-15.4782	-1.29369	0.25558
PITG_00513	Pi myb-like DNA-binding protein, putative (725 nt)	-16.217	-1.7154	0.255687
PITG_11699	Pi hypothetical protein (1409 nt)	-15.7161	1.327875	0.255768
PITG_01253	Pi aldehyde dehydrogenase, mitochondrial precursor (1557 nt)	-13.0211	-1.39642	0.255905
PITG_12185	Pi 26S protease regulatory subunit 4 (1560 nt)	-12.2249	1.159503	0.255985
PITG_16038	Pi conserved hypothetical protein (2034 nt)	-15.124	-1.29687	0.256073
PITG_08016	Pi vesicle-trafficking protein SEC22b, putative (1146 nt)	-14.4313	1.317651	0.256254
PITG_19905	Pi calcium/calmodulin dependent protein kinase, putative (925 nt)	-16.2284	-1.61096	0.256501
PITG_10480	Pi translation initiation factor eIF-2B subunit beta, putative (1048 nt)	-14.9298	1.316238	0.256569
PITG_17597	Pi conserved hypothetical protein (3204 nt)	-15.2503	-1.37637	0.256597
PITG_04111	Pi conserved hypothetical protein (763 nt)	-16.618	-1.79278	0.256961
PITG_16079	Pi conserved hypothetical protein (926 nt)	-16.5852	-1.85842	0.256961
PITG_17090	Pi conserved hypothetical protein (1149 nt)	-16.5852	-1.85842	0.256961
PITG_10561	Pi conserved hypothetical protein (844 nt)	-14.7225	1.289714	0.256979
PITG_02255	Pi histone H1, putative (731 nt)	-10.1309	-1.0874	0.257054
PITG_08534	Pi conserved hypothetical protein (969 nt)	-16.0416	1.521037	0.257364
PITG_15139	Pi phospholipid-transporting ATPase, putative (4176 nt)	-15.9221	1.317527	0.257536
PITG_17049	Pi ATP-binding Cassette (ABC) Superfamily (5337 nt)	-14.9444	-1.35713	0.257537
PITG_09594	Pi conserved hypothetical protein (955 nt)	-14.5264	-1.25908	0.257548
PITG_15958	Pi serine protease family S33, putative (1068 nt)	-14.5627	-1.43256	0.257724
PITG_04375	Pi conserved hypothetical protein (805 nt)	-13.6843	-1.27689	0.258246
PITG_20005	Pi ATP-binding Cassette (ABC) Superfamily (3483 nt)	-12.738	1.201361	0.258287
PITG_01528	Pi cell division cycle 5-related protein, putative (2390 nt)	-16.596	-1.74777	0.258493
PITG_03024	Pi hypothetical protein (588 nt)	-16.5632	-1.81341	0.258493
PITG_22122	Pi conserved hypothetical protein (1748 nt)	-16.596	-1.74777	0.258493

PITG_07230	Pi HECT E3 ubiquitin ligase, putative (8169 nt)	-16.3078	-1.53673	0.258693
PITG_11291	Pi conserved hypothetical protein (2010 nt)	-16.0399	-1.39365	0.259053
PITG_03049	Pi cAMP-dependent protein kinase catalytic subunit, putative	-15.5612	1.234487	0.259076
PITG_03530	Pi alpha-aminoadipic semialdehyde synthase, putative (3248	-14.1359	-1.332	0.259109
PITG_06267	Pi cysteine synthase, putative (1215 nt)	-15.5054	-1.43712	0.259259
PITG_00798	Pi conserved hypothetical protein (4828 nt)	-15.7912	1.648892	0.259319
PITG_10098	Pi conserved hypothetical protein (686 nt)	-14.4699	1.26892	0.259368
PITG_01992	Pi conserved hypothetical protein (531 nt)	-14.6161	1.229503	0.259372
PITG_03097	Pi conserved hypothetical protein (965 nt)	-15.5815	-1.58663	0.2595
PITG_05115	Pi HECT E3 ubiquitin ligase, putative (2055 nt)	-11.9087	-1.11055	0.259503
PITG_09543	Pi hypothetical protein (602 nt)	-15.1271	-1.24663	0.259966
PITG_07193	Pi conserved hypothetical protein (1507 nt)	-16.2789	-1.59453	0.26031
PITG_12497	Pi conserved hypothetical protein (1557 nt)	-16.303	-1.5463	0.26031
PITG_01185	Pi conserved hypothetical protein (709 nt)	-14.6521	1.350202	0.260334
PITG_05504	Pi conserved hypothetical protein (1304 nt)	-15.2415	-1.29884	0.260426
PITG_02305	Pi conserved hypothetical protein (864 nt)	-12.7094	1.131126	0.260483
PITG_15055	Pi conserved hypothetical protein (945 nt)	-11.4778	-1.10444	0.260493
PITG_10129	Pi conserved hypothetical protein (891 nt)	-13.4601	-1.16081	0.260736
PITG_03034	Pi cleavage induced conserved hypothetical protein (2094 nt)	-16.0705	-1.33214	0.260743
PITG_09526	Pi transcription factor BTF3-like protein (935 nt)	-9.00395	-1.29869	0.260748
PITG_20527	Pi DNA polymerase delta catalytic subunit (5630 nt)	-15.5804	1.390263	0.260872
PITG_06962	Pi endoglucanase, putative (1715 nt)	-14.9965	1.286261	0.261165
PITG_08725	Pi protein kinase (2339 nt)	-13.3655	-1.16266	0.261226
PITG_00504	Pi conserved hypothetical protein (1469 nt)	-16.4921	-1.32549	0.261565
PITG_13574	Pi hypothetical protein (773 nt)	-16.4554	-1.39898	0.261565
PITG_05586	Pi DNA-(apurinic or apyrimidinic site) lyase, putative (1909 nt)	-16.7874	-1.55057	0.262096
PITG_07575	Pi haloacid dehalogenase-like hydrolase, putative (855 nt)	-16.7874	-1.55057	0.262096
PITG_17158	Pi conserved hypothetical protein (1415 nt)	-16.7874	-1.55057	0.262096
PITG_06847	Pi conserved hypothetical protein (2232 nt)	-15.3199	1.270798	0.262118
PITG_17254	Pi conserved hypothetical protein (674 nt)	-13.4757	-1.23257	0.262161
PITG_06907	Pi regulator of chromosome condensation (RCC1)-like protein	-16.0477	-1.44506	0.262434
PITG_09386	Pi aquaporin, putative (825 nt)	-16.0474	-1.51315	0.262434
PITG_07455	Pi P-type ATPase (P-ATPase) Superfamily (4047 nt)	-14.5532	-1.3848	0.262519
PITG_00587	Pi hypothetical protein (631 nt)	-12.5093	-1.20974	0.262529
PITG_05276	Pi hypothetical protein (732 nt)	-16.501	-1.92972	0.262576
PITG_10931	Pi conserved hypothetical protein (2048 nt)	-15.8561	-1.3275	0.262648
PITG_09712	Pi DNA-directed RNA polymerase I, II, and III subunit rpabc3,	-14.3021	1.210284	0.262794
PITG_06471	Pi conserved hypothetical protein (1972 nt)	-14.6971	-1.40396	0.263191
PITG_03002	Pi patatin-like phospholipase, putative (2204 nt)	-16.7481	-1.62977	0.263544
PITG_00424	Pi conserved hypothetical protein (1020 nt)	-16.3106	-1.45361	0.263549
PITG_03940	Pi conserved hypothetical protein (773 nt)	-15.1499	-1.28994	0.263856
PITG_11783	Pi conserved hypothetical protein (1426 nt)	-15.1383	-1.26852	0.263856
PITG_08804	Pi metalloprotease family M01, putative (2849 nt)	-14.8825	-1.3935	0.26402
PITG_00163	Pi threonine dehydratase, mitochondrial precursor (1555 nt)	-16.0737	-1.32531	0.264126
PITG_02940	Pi phosphoglycerate mutase family (840 nt)	-16.0502	-1.50793	0.264126
PITG_09821	Pi polysaccharide lyase, putative (409 nt)	-15.9963	1.619529	0.264324
PITG_02571	Pi conserved hypothetical protein (1114 nt)	-15.8308	-1.37821	0.264402

PITG_22828	Pi secreted RxLR effector peptide, putative (408 nt)	-15.8308	-1.37821	0.264402
PITG_01823	Pi conserved hypothetical protein (847 nt)	-15.8545	1.429958	0.264402
PITG_02051	Pi conserved hypothetical protein (476 nt)	-15.7917	1.304369	0.264402
PITG_05079	Pi glycosyltransferase (6744 nt)	-15.785	-1.47245	0.264512
PITG_12981	Pi conserved hypothetical protein (2214 nt)	-15.785	-1.47245	0.264512
PITG_15408	Pi phosphatidylinositol kinase (PIK-L1) (9717 nt)	-14.6755	1.188156	0.264718
PITG_06679	Pi casein kinase II subunit beta (1229 nt)	-12.434	-1.10484	0.264788
PITG_00974	Pi YIPF6-like protein (969 nt)	-14.279	-1.24232	0.265635
PITG_12938	Pi conserved hypothetical protein (489 nt)	-14.5599	-1.22462	0.265799
PITG_03480	Pi conserved hypothetical protein (748 nt)	-15.8064	1.202057	0.266156
PITG_17651	Pi conserved hypothetical protein (993 nt)	-15.2286	1.326638	0.266165
PITG_09304	Pi conserved hypothetical protein (1304 nt)	-13.3417	1.130322	0.266183
PITG_01414	Pi conserved hypothetical protein (785 nt)	-16.4804	-1.35091	0.266187
PITG_03871	Pi conserved hypothetical protein (1305 nt)	-16.4804	-1.35091	0.266187
PITG_02640	Pi conserved hypothetical protein (986 nt)	-13.1209	-1.14525	0.266207
PITG_10553	Pi Poly(ADP-ribose) glycohydrolase, putative (1659 nt)	-15.6939	-1.52661	0.266265
PITG_02190	Pi conserved hypothetical protein (1627 nt)	-16.1326	1.456411	0.266343
PITG_13842	Pi conserved hypothetical protein (2210 nt)	-14.26	-1.25268	0.266421
PITG_19691	Pi conserved hypothetical protein (1303 nt)	-13.752	-1.19246	0.266439
PITG_05717	Pi ATP-binding Cassette (ABC) Superfamily (718 nt)	-15.5713	-1.41797	0.266688
PITG_16808	Pi ATP-binding Cassette (ABC) Superfamily (3039 nt)	-14.3186	-1.28232	0.266758
PITG_04882	Pi 4-coumarate-CoA ligase, putative (1782 nt)	-14.8763	1.314372	0.266775
PITG_18045	Pi protein kinase, putative (1574 nt)	-13.2566	-1.10502	0.267282
PITG_09451	Pi conserved hypothetical protein (733 nt)	-11.7908	1.11093	0.267395
PITG_13043	Pi conserved hypothetical protein (2146 nt)	-15.9554	1.313137	0.267511
PITG_01922	Pi 40S ribosomal protein SA (852 nt)	-10.3731	1.077168	0.267621
PITG_03373	Pi cell division protein ftsZ (2511 nt)	-14.4715	1.154237	0.267939
PITG_00910	Pi EF-1 guanine nucleotide exchange domain-containing prot	-10.7883	1.0756	0.268187
PITG_10395	Pi conserved hypothetical protein (847 nt)	-16.2763	-1.59925	0.268418
PITG_12338	Pi sugar fermentation stimulation protein (1111 nt)	-16.2763	-1.59925	0.268418
PITG_12548	Pi type I inositol-3,4-bisphosphate 4-phosphatase, putative (	-16.305	-1.54191	0.268418
PITG_16076	Pi glyoxylate/hydroxypyruvate reductase A, putative (1210 n	-16.305	-1.54191	0.268418
PITG_16050	Pi hypothetical protein (2981 nt)	-15.4529	1.355177	0.268458
PITG_16333	Pi ATP-dependent hsl protease ATP-binding subunit hslU, pu	-15.5141	1.227247	0.268542
PITG_11016	Pi conserved hypothetical protein (613 nt)	-15.6827	-1.25092	0.268708
PITG_14520	Pi conserved hypothetical protein (692 nt)	-16.5463	1.861711	0.268923
PITG_08258	Pi cleavage induced hypothetical protein (788 nt)	-16.0457	-1.44931	0.269205
PITG_20638	Pi hypothetical protein (1499 nt)	-16.0216	1.563797	0.269205
PITG_01252	Pi conserved hypothetical protein (2557 nt)	-16.6154	-1.79929	0.269278
PITG_07233	Pi GPI inositol-deacylase, putative (2673 nt)	-16.6154	-1.79929	0.269278
PITG_08040	Pi conserved hypothetical protein (1004 nt)	-16.6154	-1.79929	0.269278
PITG_10419	Pi ubiquitin-conjugating enzyme E2, putative (1070 nt)	-16.6154	-1.79929	0.269278
PITG_14992	Pi protein kinase, putative (3270 nt)	-16.5832	-1.8638	0.269278
PITG_19436	Pi sister chromatid cohesion protein PDS5 (4000 nt)	-16.6154	-1.79929	0.269278
PITG_11597	Pi conserved hypothetical protein (654 nt)	-14.3914	-1.16887	0.269363
PITG_02598	Pi conserved hypothetical protein (2378 nt)	-14.2584	-1.16876	0.269435
PITG_06796	Pi conserved hypothetical protein (1294 nt)	-14.8904	1.212132	0.269534

PITG_00396	Pi aspartyl protease family A01B, putative (2059 nt)	-13.6718	1.138374	0.269574
PITG_19669	Pi ubiquitin-like protein/ribosomal protein (737 nt)	-8.61637	1.054825	0.269741
PITG_09387	Pi aspartyl protease family A01A, putative (2760 nt)	-13.2187	-1.09916	0.270072
PITG_02821	Pi vacuolar-processing enzyme, putative (1425 nt)	-14.4673	-1.23803	0.27022
PITG_02082	Pi protein kinase, putative (1134 nt)	-15.5222	-1.4013	0.270299
PITG_14174	Pi conserved hypothetical protein (605 nt)	-15.5695	-1.42178	0.270397
PITG_19037	Pi chromatin structure-remodeling complex subunit snf21-lik	-15.5512	-1.4582	0.270397
PITG_03777	Pi conserved hypothetical protein (2315 nt)	-15.6812	-1.25412	0.270516
PITG_05510	Pi hypothetical protein (1251 nt)	-15.6812	-1.25412	0.270516
PITG_08207	Pi conserved hypothetical protein (2934 nt)	-16.5925	-1.75227	0.270826
PITG_05935	Pi DEAD/DEAH box RNA helicase, putative (2533 nt)	-16.0544	-1.3629	0.2709
PITG_01932	Pi conserved hypothetical protein (19892 nt)	-14.7577	1.324002	0.271019
PITG_09035	Pi conserved hypothetical protein (2904 nt)	-16.0167	-1.58295	0.271136
PITG_08396	Pi conserved hypothetical protein (1226 nt)	-15.8698	-1.3628	0.27142
PITG_11327	Pi Annexin (Annexin) Family (2498 nt)	-10.7041	1.433219	0.271453
PITG_08588	Pi conserved hypothetical protein (1211 nt)	-16.2965	-1.63777	0.27167
PITG_01746	Pi HECT E3 ubiquitin ligase, putative (1985 nt)	-14.8326	-1.26928	0.271909
PITG_14023	Pi conserved hypothetical protein (3526 nt)	-14.994	1.319409	0.271914
PITG_00845	Pi 3'5'-cyclic nucleotide phosphodiesterase, putative (4473 n	-14.4109	-1.28231	0.272148
PITG_01880	Pi hypothetical protein (1956 nt)	-16.4384	1.499643	0.272376
PITG_08606	Pi conserved hypothetical protein (1804 nt)	-16.4384	1.499643	0.272376
PITG_18727	Pi DNA-directed RNA polymerase II subunit J (786 nt)	-14.3634	-1.28447	0.272381
PITG_17455	Pi vacuolar protein sorting-associating protein, putative (308	-13.6094	-1.13025	0.272651
PITG_09835	Pi COP9 signalosome complex subunit, putative (1571 nt)	-13.9019	1.148516	0.272962
PITG_10900	Pi conserved hypothetical protein (1587 nt)	-15.3509	1.205481	0.273321
PITG_21127	Pi adenine phosphoribosyltransferase, putative (624 nt)	-15.3521	-1.38637	0.273331
PITG_10058	Pi conserved hypothetical protein (5932 nt)	-15.6912	-1.59527	0.273463
PITG_16797	Pi tubulin-specific chaperone D, putative (4440 nt)	-15.6912	-1.59527	0.273463
PITG_06594	Pi serine/threonine protein phosphatase 2A (1888 nt)	-14.0156	1.152059	0.273647
PITG_08333	Pi conserved hypothetical protein (1690 nt)	-17.0019	-2.15251	0.273758
PITG_17388	Pi conserved hypothetical protein (735 nt)	-17.0019	-2.15251	0.273758
PITG_19313	Pi conserved hypothetical protein (1116 nt)	-14.3697	-1.2067	0.27381
PITG_00116	Pi SUMO ligase, putative (2368 nt)	-15.2816	-1.31344	0.273873
PITG_01288	Pi conserved hypothetical protein (2401 nt)	-16.4421	-1.43084	0.273928
PITG_04629	Pi conserved hypothetical protein (1137 nt)	-16.4421	-1.43084	0.273928
PITG_11829	Pi hypothetical protein (859 nt)	-16.4766	-1.36189	0.273928
PITG_03632	Pi H - or Na -translocating F-type, V-type and A-type ATPase	-9.74838	1.06438	0.274819
PITG_12482	Pi serine protease family S28, putative (1581 nt)	-16.2572	-1.55727	0.274928
PITG_17608	Pi spermine synthase, putative (1049 nt)	-16.2817	1.748832	0.274928
PITG_10145	Pi conserved hypothetical protein (567 nt)	-14.7753	1.343026	0.274978
PITG_06118	Pi V-type proton ATPase subunit B, putative (2559 nt)	-12.6373	1.210402	0.275066
PITG_10974	Pi elongation factor 1-gamma, putative (1420 nt)	-10.2366	1.059248	0.275149
PITG_10136	Pi conserved hypothetical protein (627 nt)	-15.3972	1.324812	0.275214
PITG_00411	Pi adaptin-like protein (762 nt)	-15.4256	-1.34652	0.275214
PITG_11913	Pi heat shock cognate 70 kDa protein (2483 nt)	-11.9292	1.313208	0.275271
PITG_20589	Pi cathepsin, cysteine protease family C01A, putative (1458 r	-12.9834	-1.11591	0.275605
PITG_16538	Pi conserved hypothetical protein (991 nt)	-14.8081	1.248301	0.27594

PITG_06941	Pi conserved hypothetical protein (3400 nt)	-16.0392	-1.53258	0.275989
PITG_17907	Pi choline/Carnitine O-acyltransferase, putative (2182 nt)	-16.0392	-1.53258	0.275989
PITG_03361	Pi conserved hypothetical protein (1394 nt)	-16.1829	1.573817	0.276259
PITG_05385	Pi Zinc (Zn <sup>2+</sup> )-Iron (Fe <sup>2+</sup> ) Permease (ZIP) Family (2746 nt)	-16.0857	1.789479	0.27626
PITG_03301	Pi DEAD/DEAH box RNA helicase, putative (1773 nt)	-16.2215	1.366833	0.276559
PITG_06855	Pi inorganic phosphate transporter, putative (1540 nt)	-15.8395	1.377152	0.276686
PITG_18947	Pi hypothetical protein (746 nt)	-13.5238	1.130915	0.276824
PITG_09832	Pi adhesin protein, putative (2265 nt)	-14.1904	1.123063	0.276893
PITG_06108	Pi dihydrolipoyllysine-residue acetyltransferase component c	-14.3106	1.170783	0.276923
PITG_14208	Pi conserved hypothetical protein (544 nt)	-12.5378	-1.31751	0.276923
PITG_21766	Pi conserved hypothetical protein (605 nt)	-12.5861	-1.29647	0.276996
PITG_15492	Pi peroxiredoxin-2 (777 nt)	-11.4871	1.06476	0.277124
PITG_22105	Pi conserved hypothetical protein (1578 nt)	-13.8971	-1.13337	0.277272
PITG_17650	Pi conserved hypothetical protein (1603 nt)	-16.0914	1.579272	0.277485
PITG_11063	Pi 26S proteasome non-ATPase regulatory subunit 7 (1064 n	-12.374	1.074682	0.277658
PITG_02398	Pi conserved hypothetical protein (378 nt)	-15.679	-1.3164	0.277746
PITG_01840	Pi conserved hypothetical protein (1414 nt)	-15.5156	-1.21878	0.277809
PITG_22858	Pi conserved hypothetical protein (1335 nt)	-15.4884	1.235516	0.277809
PITG_03799	Pi eukaryotic initiation factor 4E, putative (1543 nt)	-13.6674	1.100965	0.277818
PITG_15671	Pi conserved hypothetical protein (306 nt)	-14.2609	-1.19128	0.278025
PITG_08691	Pi conserved hypothetical protein (677 nt)	-16.1879	1.322322	0.278191
PITG_03796	Pi conserved hypothetical protein (766 nt)	-13.6391	1.110946	0.278285
PITG_02541	Pi conserved hypothetical protein (2286 nt)	-15.7805	1.258974	0.278443
PITG_21396	Pi conserved hypothetical protein (993 nt)	-14.2012	1.169584	0.278587
PITG_10455	Pi conserved hypothetical protein (2354 nt)	-13.5299	1.17422	0.278785
PITG_16681	Pi conserved hypothetical protein (414 nt)	-15.6363	-1.46851	0.278867
PITG_22200	Pi conserved hypothetical protein (955 nt)	-12.2982	-1.1082	0.278905
PITG_08369	Pi valyl-tRNA synthetase (3808 nt)	-15.3834	1.270545	0.278998
PITG_16476	Pi receptor kinase, putative (2197 nt)	-15.364	1.309366	0.278998
PITG_05374	Pi argininosuccinate synthase (1515 nt)	-11.8775	1.077553	0.279612
PITG_01405	Pi conserved hypothetical protein (1870 nt)	-15.2934	-1.33821	0.279657
PITG_03839	Pi conserved hypothetical protein (777 nt)	-15.5354	-1.17938	0.27966
PITG_09872	Pi cell 5A endo-1,4-beta-glucanase (1920 nt)	-14.0294	-1.16181	0.280136
PITG_18688	Pi Poly(A) polymerase, putative (2034 nt)	-15.867	-1.37041	0.280199
PITG_10854	Pi hypothetical protein (921 nt)	-15.8731	1.639186	0.280314
PITG_12161	Pi delta-1-pyrroline-5-carboxylate synthetase (2324 nt)	-14.3953	1.224114	0.280395
PITG_12880	Pi conserved hypothetical protein (1857 nt)	-17.2702	-1.71965	0.280487
PITG_19855	Pi hypothetical protein (432 nt)	-10.0374	-1.03917	0.28069
PITG_03462	Pi cysteine protease family C26, putative (1074 nt)	-14.8536	-1.12641	0.280812
PITG_13783	Pi conserved hypothetical protein (1158 nt)	-14.8417	-1.15021	0.280812
PITG_05681	Pi conserved hypothetical protein (1802 nt)	-15.3699	1.243864	0.280889
PITG_02205	Pi conserved hypothetical protein (1055 nt)	-14.9595	-1.28573	0.28141
PITG_07993	Pi methyltransferase WBSCR22 (1157 nt)	-14.9138	1.147565	0.28141
PITG_02329	Pi peptide-N(4)-(N-acetyl-beta-glucosaminyl)asparagine amic	-16.3034	-1.54438	0.28146
PITG_04441	Pi 3-isopropylmalate dehydrogenase (1392 nt)	-15.2627	1.257608	0.281582
PITG_15927	Pi conserved hypothetical protein (2096 nt)	-14.4759	-1.22092	0.281723
PITG_06127	Pi conserved hypothetical protein (1166 nt)	-14.5736	-1.15378	0.281839



PITG_09400	Pi pyruvate kinase (1889 nt)	-11.4194	1.088395	0.281954
PITG_20110	Pi conserved hypothetical protein (1747 nt)	-15.7571	1.244439	0.281956
PITG_05670	Pi cleavage induced conserved hypothetical protein (1291 nt)	-14.8608	-1.25136	0.281973
PITG_11703	Pi lectin, putative (1278 nt)	-14.0106	1.103363	0.282293
PITG_00457	Pi conserved hypothetical protein (1101 nt)	-13.602	1.10266	0.282444
PITG_03752	Pi conserved hypothetical protein (379 nt)	-15.6566	-1.42934	0.282472
PITG_13665	Pi conserved hypothetical protein (543 nt)	-12.523	-1.08733	0.282734
PITG_14028	Pi conserved hypothetical protein (2018 nt)	-15.3372	1.375337	0.282766
PITG_05600	Pi metalloprotease family M67C, putative (2008 nt)	-16.0663	-1.55114	0.282786
PITG_19737	Pi 3-mercaptopyruvate sulfurtransferase, putative (1506 nt)	-11.0758	-1.13554	0.2828
PITG_11748	Pi Major Facilitator Superfamily (MFS) (1560 nt)	-17.0805	-1.99743	0.282813
PITG_22021	Pi HECT E3 ubiquitin ligase, putative (1995 nt)	-17.1039	-1.95056	0.282813
PITG_02206	Pi conserved hypothetical protein (456 nt)	-14.2047	-1.13939	0.283342
PITG_15503	Pi conserved hypothetical protein (1359 nt)	-12.9894	-1.07422	0.283761
PITG_10069	Pi conserved hypothetical protein (869 nt)	-13.873	1.095102	0.283889
PITG_06428	Pi callose synthase, putative (6861 nt)	-14.5834	1.187617	0.28412
PITG_15774	Pi protein kinase (901 nt)	-14.7503	-1.20495	0.284197
PITG_01469	Pi conserved hypothetical protein (3400 nt)	-17.059	-2.04024	0.284219
PITG_17265	Pi conserved hypothetical protein (2028 nt)	-17.059	-2.04024	0.284219
PITG_12745	Pi 40S ribosomal protein S17, putative (840 nt)	-10.5367	1.099012	0.284302
PITG_04175	Pi conserved hypothetical protein (1903 nt)	-15.4085	-1.3811	0.284667
PITG_12349	Pi conserved hypothetical protein (1049 nt)	-16.2961	-1.64082	0.284733
PITG_01270	Pi conserved hypothetical protein (1169 nt)	-10.7814	1.075494	0.284992
PITG_06894	Pi O-sialoglycoprotein endopeptidase, putative (1740 nt)	-14.7138	1.238945	0.285075
PITG_10065	Pi conserved hypothetical protein (1224 nt)	-15.5073	-1.28938	0.285212
PITG_14923	Pi conserved hypothetical protein (2970 nt)	-15.2402	-1.34908	0.285257
PITG_10298	Pi conserved hypothetical protein (577 nt)	-14.0794	1.087557	0.285357
PITG_20760	Pi peptidyl-prolyl cis-trans isomerase B precursor (715 nt)	-15.8575	-1.39062	0.28547
PITG_01404	Pi conserved hypothetical protein (3856 nt)	-16.974	-2.08562	0.285588
PITG_06373	Pi putative GPI-anchored serine-rich elicitor INL3b-like protei	-16.7884	-1.55869	0.285588
PITG_16651	Pi conserved hypothetical protein (291 nt)	-16.7884	-1.55869	0.285588
PITG_10517	Pi tenascin-like protein (2406 nt)	-15.5741	1.375578	0.286079
PITG_16894	Pi hypothetical protein (1312 nt)	-10.415	-1.23834	0.286177
PITG_03275	Pi spastin and Fidgetin-like protein (1835 nt)	-14.6083	-1.128	0.286293
PITG_13458	Pi protein kinase, putative (1992 nt)	-14.599	1.168202	0.286293
PITG_06902	Pi conserved hypothetical protein (6729 nt)	-16.2693	-1.69483	0.286372
PITG_06260	Pi dihydroxyacetone kinase, putative (1799 nt)	-16.57	-1.69611	0.286415
PITG_10592	Pi DEAD/DEAH box RNA helicase, putative (2818 nt)	-17.3129	-1.63698	0.286826
PITG_14156	Pi protein kinase, putative (2271 nt)	-16.9372	-2.1584	0.287078
PITG_11521	Pi Zinc (Zn <sup>2+</sup> )-Iron (Fe <sup>2+</sup> ) Permease (ZIP) Family (997 nt)	-13.5616	1.08814	0.287093
PITG_17527	Pi crinkler (CRN) family protein, putative (1959 nt)	-9.84499	-1.05012	0.287107
PITG_04545	Pi conserved hypothetical protein (1505 nt)	-15.844	-1.41802	0.287228
PITG_08234	Pi DnaJ subfamily C member 2 protein (1263 nt)	-13.9286	1.151311	0.287585
PITG_00272	Pi phosphatidylinositol kinase (1338 nt)	-11.7183	-1.09717	0.287666
PITG_00377	Pi hypothetical protein (1021 nt)	-16.6718	-1.68392	0.288051
PITG_02290	Pi conserved hypothetical protein (1941 nt)	-16.6644	-1.69884	0.288051
PITG_07841	Pi glycyl-tRNA synthetase (1528 nt)	-16.6718	-1.68392	0.288051

PITG_21597	Pi conserved hypothetical protein (1385 nt)	-16.6417	-1.74425	0.288051
PITG_09698	Pi histidine biosynthesis trifunctional protein, putative (1613	-14.4808	-1.21121	0.288074
PITG_10042	Pi conserved hypothetical protein (384 nt)	-17.091	-1.976	0.288446
PITG_11138	Pi fumarate reductase flavoprotein subunit, putative (1746 n	-17.0498	-2.05854	0.288446
PITG_12836	Pi UDP-N-acetylglucosamine transferase subunit ALG14 (106	-17.0498	-2.05854	0.288446
PITG_15152	Pi secreted RxLR effector peptide, putative (2283 nt)	-17.0498	-2.05854	0.288446
PITG_17072	Pi U4/U6 small nuclear ribonucleoprotein Prp4, putative (16:	-17.0498	-2.05854	0.288446
PITG_04802	Pi conserved hypothetical protein (1097 nt)	-9.75836	-1.14627	0.288589
PITG_09504	Pi methionine aminopeptidase, putative (1432 nt)	-14.1988	1.10638	0.288661
PITG_21816	Pi conserved hypothetical protein (1525 nt)	-14.3954	-1.16067	0.28885
PITG_09939	Pi conserved hypothetical protein (1099 nt)	-12.6678	1.052075	0.288938
PITG_18719	Pi transmembrane protein, putative (1945 nt)	-15.7668	1.230035	0.288985
PITG_03955	Pi U3 small nucleolar RNA-associated protein, putative (1545	-16.3315	1.650793	0.289203
PITG_18473	Pi 3-phosphoinositide-dependent protein kinase, putative (2	-14.5367	-1.19427	0.289323
PITG_12239	Pi conserved hypothetical protein (1768 nt)	-16.6814	-1.57964	0.289575
PITG_12884	Pi conserved hypothetical protein (570 nt)	-16.6505	-1.64137	0.289575
PITG_22353	Pi geranylgeranyl transferase type-1 subunit beta, putative (:	-15.1643	-1.26187	0.28966
PITG_14936	Pi ATP synthase subunit gamma, putative (1115 nt)	-11.1442	1.048734	0.289912
PITG_04505	Pi transmembrane protein, putative (1852 nt)	-13.7546	-1.09419	0.29014
PITG_11044	Pi protein phosphatase, putative (1218 nt)	-14.7761	1.171683	0.290261
PITG_05550	Pi conserved hypothetical protein (1173 nt)	-14.6682	1.264484	0.290286
PITG_13666	Pi conserved hypothetical protein (2062 nt)	-15.4253	-1.34785	0.290328
PITG_08600	Pi vesicle-fusing ATPase, putative (2422 nt)	-14.1167	1.138813	0.290509
PITG_05822	Pi conserved hypothetical protein (1647 nt)	-15.5079	-1.36684	0.290549
PITG_10030	Pi conserved hypothetical protein (796 nt)	-16.3054	1.323494	0.290822
PITG_19181	Pi conserved hypothetical protein (678 nt)	-16.3054	1.323494	0.290822
PITG_13571	Pi endo-1,3(4)-beta-glucanase, putative (3132 nt)	-15.1602	-1.31889	0.29099
PITG_12191	Pi conserved hypothetical protein (1947 nt)	-13.9539	-1.1292	0.291059
PITG_05005	Pi conserved hypothetical protein (1910 nt)	-16.6576	-1.7127	0.291101
PITG_23143	Pi protein kinase, putative (2392 nt)	-14.4071	-1.32499	0.291152
PITG_17403	Pi conserved hypothetical protein (728 nt)	-15.272	1.271769	0.29119
PITG_20465	Pi fructokinase, putative (1073 nt)	-11.999	1.052404	0.291261
PITG_01740	Pi conserved hypothetical protein (3507 nt)	-15.0435	-1.24303	0.291668
PITG_17075	Pi conserved hypothetical protein (3325 nt)	-15.0465	-1.19468	0.291668
PITG_04643	Pi conserved hypothetical protein (1093 nt)	-16.0838	-1.37261	0.292132
PITG_11585	Pi conserved hypothetical protein (886 nt)	-16.1082	-1.3238	0.292132
PITG_00440	Pi myotubularin-like protein (4762 nt)	-16.3399	-1.54775	0.292441
PITG_14611	Pi conserved hypothetical protein (366 nt)	-16.3428	-1.46704	0.292441
PITG_00634	Pi gamma-tubulin complex component 4, putative (2670 nt)	-16.6735	-1.59479	0.292628
PITG_02471	Pi cytochrome b5 reductase with F-box domain, putative (99	-16.6362	-1.6693	0.292628
PITG_20125	Pi conserved hypothetical protein (494 nt)	-13.4729	-1.06712	0.293094
PITG_02256	Pi aspartate aminotransferase, mitochondrial precursor (153	-11.0942	-1.05727	0.293121
PITG_10384	Pi hypothetical protein (1443 nt)	-12.5991	1.104924	0.293339
PITG_11750	Pi serine/threonine protein phosphatase 2A 59 kDa regulato	-13.8931	-1.07941	0.293655
PITG_14131	Pi conserved hypothetical protein (1121 nt)	-14.8348	-1.34343	0.293933
PITG_01084	Pi conserved hypothetical protein (1377 nt)	-16.8446	-1.42859	0.294107
PITG_02234	Pi F-box protein, putative (2205 nt)	-16.8446	-1.42859	0.294107

PITG_04359	Pi conserved hypothetical protein (1065 nt)	-16.8927	-1.33223	0.294107
PITG_12668	Pi conserved hypothetical protein (614 nt)	-16.9057	-1.30636	0.294107
PITG_19876	Pi conserved hypothetical protein (861 nt)	-16.8557	-1.40641	0.294107
PITG_21309	Pi histone deacetylase, putative (1432 nt)	-16.9057	-1.30636	0.294107
PITG_14379	Pi conserved hypothetical protein (1828 nt)	-15.9083	-1.22309	0.294271
PITG_16770	Pi conserved hypothetical protein (2520 nt)	-15.9083	-1.22309	0.294271
PITG_16088	Pi conserved hypothetical protein (1690 nt)	-15.4879	1.20501	0.294452
PITG_22859	Pi conserved hypothetical protein (468 nt)	-15.4879	1.20501	0.294452
PITG_19578	Pi Crinkler (CRN) family protein, pseudogene (1347 nt)	-10.4247	-1.0027	0.294691
PITG_12983	Pi synaptic vesicle glycoprotein, putative (1994 nt)	-16.0519	-1.36482	0.294708
PITG_18774	Pi Mitochondrial Carrier (MC) Family (1038 nt)	-10.8558	1.013799	0.294807
PITG_08138	Pi conserved hypothetical protein (1737 nt)	-13.9261	-1.1174	0.294945
PITG_09772	Pi conserved hypothetical protein (635 nt)	-11.2447	-1.01809	0.295074
PITG_00500	Pi conserved hypothetical protein (537 nt)	-15.3183	-1.1929	0.295099
PITG_07102	Pi conserved hypothetical protein (3206 nt)	-14.796	-1.20468	0.295279
PITG_12463	Pi cleavage induced conserved hypothetical protein (1317 nt)	-15.6086	-1.34349	0.295289
PITG_13586	Pi pterin-4-alpha-carbinolamine dehydratase (416 nt)	-15.1648	-1.26137	0.295501
PITG_12931	Pi conserved hypothetical protein (3057 nt)	-16.0621	1.189507	0.295524
PITG_14635	Pi sporangia induced hypothetical protein (1302 nt)	-16.0882	1.241685	0.295524
PITG_01941	Pi conserved hypothetical protein (1713 nt)	-16.3619	-1.50436	0.295681
PITG_02758	Pi conserved hypothetical protein (1692 nt)	-16.271	1.254426	0.295681
PITG_04863	Pi conserved hypothetical protein (2468 nt)	-16.3691	1.575231	0.295681
PITG_18736	Pi conserved hypothetical protein (1934 nt)	-16.2979	1.543952	0.295681
PITG_13832	Pi delta-aminolevulinic acid dehydratase, putative (1084 nt)	-14.1475	1.14261	0.295703
PITG_12454	Pi GTP-binding protein, putative (2157 nt)	-15.1831	-1.17876	0.295712
PITG_02974	Pi conserved hypothetical protein (318 nt)	-12.4392	-1.03061	0.295885
PITG_08668	Pi hypothetical protein (510 nt)	-15.3228	1.221022	0.295888
PITG_06507	Pi conserved hypothetical protein (1096 nt)	-14.5492	1.118871	0.295959
PITG_10695	Pi conserved hypothetical protein (802 nt)	-14.116	-1.16391	0.296867
PITG_16205	Pi conserved hypothetical protein (489 nt)	-13.4364	-1.09652	0.297013
PITG_19814	Pi conserved hypothetical protein (785 nt)	-11.4087	1.007998	0.297053
PITG_06484	Pi conserved hypothetical protein (480 nt)	-15.6124	-1.33599	0.297149
PITG_00352	Pi pyruvate dehydrogenase kinase-like protein (1277 nt)	-16.0738	-1.39284	0.29722
PITG_01201	Pi ATP-dependent DNA helicase, putative (1947 nt)	-16.1252	-1.3576	0.29722
PITG_04336	Pi conserved hypothetical protein (999 nt)	-16.1252	-1.3576	0.29722
PITG_11525	Pi serine protease family S10, putative (1638 nt)	-16.0738	-1.39284	0.29722
PITG_12230	Pi phosphatidic acid phosphatase (999 nt)	-16.1006	-1.4067	0.29722
PITG_21914	Pi conserved hypothetical protein (958 nt)	-16.0595	1.486431	0.29722
PITG_08752	Pi conserved hypothetical protein (696 nt)	-16.3382	-1.47587	0.297301
PITG_17885	Pi conserved hypothetical protein (595 nt)	-13.9681	-1.1623	0.29738
PITG_05871	Pi hypothetical protein (336 nt)	-12.9346	1.136148	0.297417
PITG_14868	Pi hypothetical protein (1766 nt)	-15.1445	1.456063	0.297485
PITG_05315	Pi undecaprenyl pyrophosphate synthetase, putative (1304 r	-15.0471	-1.1938	0.297584
PITG_12696	Pi conserved hypothetical protein (881 nt)	-13.4782	-1.0903	0.297658
PITG_08091	Pi hypothetical protein (243 nt)	-15.8446	-1.41937	0.297777
PITG_07259	Pi serine protease family S09X, putative (1149 nt)	-15.3709	1.270386	0.297862
PITG_23287	Pi crinkler (CRN) domain, pseudogene (1182 nt)	-9.33451	-1.01572	0.297983

PITG_06231	Pi anaphase-promoting complex subunit, putative (3017 nt)	-14.3003	1.191346	0.298075
PITG_01719	Pi conserved hypothetical protein (3108 nt)	-15.4477	-1.25118	0.298153
PITG_02942	Pi conserved hypothetical protein (919 nt)	-15.4127	1.250274	0.298153
PITG_04334	Pi conserved hypothetical protein (1221 nt)	-15.435	1.294863	0.298153
PITG_06896	Pi proline iminopeptidase (1192 nt)	-15.4477	-1.25118	0.298153
PITG_08421	Pi peroxisomal multifunctional enzyme type 2, putative (222	-15.4648	-1.26804	0.298153
PITG_21393	Pi eukaryotic translation initiation factor 3 subunit A, putativ	-13.9236	1.173662	0.298177
PITG_05364	Pi conserved hypothetical protein (3070 nt)	-17.0849	-1.98774	0.298371
PITG_10441	Pi conserved hypothetical protein (2635 nt)	-17.0849	-1.98774	0.298371
PITG_15438	Pi conserved hypothetical protein (469 nt)	-17.0681	-1.91527	0.298371
PITG_16527	Pi bloom syndrome protein, DEAD/DEAH box helicase (1650	-16.8816	-1.3564	0.298371
PITG_17416	Pi conserved hypothetical protein (1337 nt)	-14.7666	-1.1359	0.298412
PITG_16048	Pi triosephosphate isomerase (843 nt)	-13.8888	-1.16348	0.298417
PITG_04180	Pi conserved hypothetical protein (1175 nt)	-16.6523	-1.72418	0.298747
PITG_10690	Pi conserved hypothetical protein (1609 nt)	-16.6666	-1.60732	0.298747
PITG_05187	Pi sulfatase-like protein (3390 nt)	-16.1216	-1.36506	0.298916
PITG_08393	Pi conserved hypothetical protein (1106 nt)	-16.129	-1.35028	0.298916
PITG_10006	Pi conserved hypothetical protein (1480 nt)	-16.0842	-1.30435	0.298916
PITG_18129	Pi cyclin-Y-like protein (1254 nt)	-16.0842	-1.30435	0.298916
PITG_21802	Pi conserved hypothetical protein (3033 nt)	-16.3261	1.489644	0.298922
PITG_17334	Pi conserved hypothetical protein (720 nt)	-14.8788	-1.17756	0.299063
PITG_17136	Pi Rab8 family GTPase, putative (1009 nt)	-14.0588	-1.0803	0.299148
PITG_23139	Pi conserved hypothetical protein (309 nt)	-15.7568	1.20369	0.299536
PITG_11677	Pi diacylglycerol acyltransferase, putative (1479 nt)	-15.9333	1.617612	0.299594
PITG_23284	Pi crinkler (CRN) domain, pseudogene (3069 nt)	-17.043	-2.07144	0.299796
PITG_08781	Pi conserved hypothetical protein (2114 nt)	-12.8821	-1.0584	0.299816
PITG_06556	Pi transmembrane protein, putative (1556 nt)	-16.0643	-1.48744	0.299828
PITG_10513	Pi proteasome subunit alpha type-6, putative (930 nt)	-11.2685	1.081966	0.300029
PITG_00594	Pi chaperone protein dnaJ, putative (1617 nt)	-14.5684	-1.14277	0.300178
PITG_05934	Pi conserved hypothetical protein (971 nt)	-14.5487	-1.13828	0.300178
PITG_09365	Pi conserved hypothetical protein (654 nt)	-14.9713	1.405732	0.300266
PITG_03489	Pi conserved hypothetical protein (1514 nt)	-16.6304	-1.67941	0.30028
PITG_14571	Pi conserved hypothetical protein (495 nt)	-11.4119	-1.03435	0.300383
PITG_08014	Pi proteasome subunit beta type-2, putative (770 nt)	-11.9706	1.04273	0.300511
PITG_03263	Pi conserved hypothetical protein (1480 nt)	-16.3273	-1.57433	0.300544
PITG_22303	Pi hypothetical protein (1440 nt)	-12.4741	1.033995	0.300596
PITG_00165	Pi conserved hypothetical protein (1289 nt)	-16.0469	1.22157	0.300612
PITG_15223	Pi conserved hypothetical protein (3428 nt)	-16.005	1.2127	0.300612
PITG_18063	Pi bifunctional polynucleotide phosphatase/kinase, putative	-15.3049	-1.17244	0.300901
PITG_11131	Pi conserved hypothetical protein (1635 nt)	-14.8868	-1.23865	0.301099
PITG_11215	Pi DnaJ subfamily C protein (1936 nt)	-11.9952	-1.05376	0.301199
PITG_20009	Pi conserved hypothetical protein (531 nt)	-15.8491	-1.47742	0.301295
PITG_00694	Pi Sulfate Permease (SulP) Family (3015 nt)	-15.7346	1.327792	0.301326
PITG_06995	Pi 60S ribosomal protein L4 (1327 nt)	-10.3708	1.022105	0.301668
PITG_01358	Pi conserved hypothetical protein (2202 nt)	-13.7158	1.106221	0.301684
PITG_16900	Pi cleft lip and palate transmembrane family protein (2050 n	-16.098	-1.34452	0.302308
PITG_18371	Pi hypothetical protein (560 nt)	-16.0688	1.468846	0.302308

PITG_11708	Pi conserved hypothetical protein (1914 nt)	-14.7486	-1.24844	0.302356
PITG_06303	Pi conserved hypothetical protein (2000 nt)	-15.1304	-1.23851	0.302561
PITG_04403	Pi hypothetical protein (796 nt)	-14.9695	-1.15167	0.3027
PITG_17868	Pi conserved hypothetical protein (4540 nt)	-14.9486	1.07839	0.3027
PITG_06988	Pi transmembrane protein, putative (1171 nt)	-15.3093	-1.30647	0.302831
PITG_03569	Pi conserved hypothetical protein (1653 nt)	-15.8736	-1.2932	0.303065
PITG_19283	Pi conserved hypothetical protein (695 nt)	-15.8936	-1.31508	0.303065
PITG_07510	Pi hypothetical protein (1039 nt)	-15.7118	-1.19346	0.303137
PITG_13403	Pi sphingolipid delta(4)-desaturase DES1-like protein (1087 n	-13.4727	1.016458	0.303259
PITG_17730	Pi conserved hypothetical protein (489 nt)	-12.462	1.016844	0.303857
PITG_03775	Pi protein kinase, putative (2426 nt)	-16.015	1.195122	0.304003
PITG_03529	Pi conserved hypothetical protein (756 nt)	-16.1074	-1.39468	0.304003
PITG_16179	Pi Rab3 GTPase-activating protein catalytic subunit, putative	-16.0715	-1.39776	0.304003
PITG_06237	Pi 60S ribosomal protein L8, putative (1172 nt)	-9.73554	1.003564	0.304089
PITG_16477	Pi short-chain specific acyl-CoA dehydrogenase, mitochondri	-14.4834	1.129062	0.304118
PITG_03897	Pi conserved hypothetical protein (740 nt)	-12.276	1.008073	0.304183
PITG_02037	Pi conserved hypothetical protein (534 nt)	-14.7434	1.167607	0.304499
PITG_02127	Pi conserved hypothetical protein (873 nt)	-15.5486	-1.15271	0.304576
PITG_03150	Pi proteasome subunit alpha type-3, putative (1000 nt)	-12.0622	1.042643	0.304647
PITG_17926	Pi conserved hypothetical protein (831 nt)	-12.7355	-1.07479	0.304883
PITG_19016	Pi conserved hypothetical protein (714 nt)	-16.6703	-1.5985	0.304884
PITG_02478	Pi DEAD/DEAH box RNA helicase, putative (2331 nt)	-15.7642	-1.38887	0.304946
PITG_19802	Pi dihydrolipoyl dehydrogenase, putative (690 nt)	-11.9828	1.042517	0.305012
PITG_05010	Pi conserved hypothetical protein (985 nt)	-14.8672	-1.09978	0.305163
PITG_03768	Pi 50S ribosomal protein L4 (923 nt)	-14.2787	1.107254	0.305171
PITG_19586	Pi crinkler (CRN) family protein, pseudogene (2457 nt)	-12.3985	-1.00725	0.305891
PITG_13503	Pi secreted RxLR effector peptide, putative (1678 nt)	-16.2351	1.469151	0.306134
PITG_09820	Pi regulator of chromosome condensation (RCC1)-like protei	-14.6455	-1.20198	0.306208
PITG_01350	Pi conserved hypothetical protein (2687 nt)	-17.3049	-1.6617	0.306221
PITG_03556	Pi conserved hypothetical protein (1002 nt)	-17.3049	-1.6617	0.306221
PITG_06354	Pi conserved hypothetical protein (1754 nt)	-17.3049	-1.6617	0.306221
PITG_16134	Pi conserved hypothetical protein (1265 nt)	-17.3049	-1.6617	0.306221
PITG_16178	Pi conserved hypothetical protein (3149 nt)	-17.3049	-1.6617	0.306221
PITG_21457	Pi choline transporter-like protein (2414 nt)	-14.7137	1.207515	0.30637
PITG_16346	Pi conserved hypothetical protein (1339 nt)	-14.0646	1.058044	0.30638
PITG_12347	Pi conserved hypothetical protein (1221 nt)	-15.8202	1.113172	0.306578
PITG_05495	Pi conserved hypothetical protein (1451 nt)	-15.7625	1.575314	0.306633
PITG_13434	Pi sel-1 family protein (1821 nt)	-15.3046	-1.17255	0.306686
PITG_18718	Pi GTP-binding nuclear protein spi1 (1387 nt)	-11.5557	1.037946	0.306891
PITG_06781	Pi conserved hypothetical protein (859 nt)	-14.8778	-1.21776	0.307191
PITG_16539	Pi conserved hypothetical protein (501 nt)	-15.0129	1.664803	0.307405
PITG_12882	Pi electron transfer flavoprotein subunit alpha, mitochondria	-10.8511	-1.05618	0.30757
PITG_18067	Pi RAC family serine/threonine-protein kinase (3279 nt)	-15.4467	-1.25287	0.307626
PITG_02761	Pi oxidoreductase, putative (1697 nt)	-15.2075	-1.27603	0.308082
PITG_06215	Pi conserved hypothetical protein (1249 nt)	-12.5355	1.03779	0.308091
PITG_00453	Pi lipoamide acyltransferase component of branched-chain a	-15.0911	-1.23014	0.308148
PITG_01976	Pi DNA repair protein, putative (1680 nt)	-15.5141	1.230303	0.308282

PITG_17829	Pi Hypothetical protein (1383 nt)	-16.8737	-1.37677	0.308383
PITG_20765	Pi conserved hypothetical protein (728 nt)	-16.8737	-1.37677	0.308383
PITG_20193	Pi Rab5 family GTPase, putative (872 nt)	-12.2611	-1.08558	0.308548
PITG_04230	Pi conserved hypothetical protein (970 nt)	-16.3249	-1.58075	0.308659
PITG_07855	Pi Drug/Metabolite Transporter (DMT) Superfamily (1443 nt)	-16.3548	-1.52089	0.308659
PITG_11205	Pi Rab2 family GTPase, putative (904 nt)	-12.153	-0.99994	0.308932
PITG_07298	Pi protein kinase (2197 nt)	-14.6193	-1.13946	0.309043
PITG_02093	Pi pre-rRNA-processing protein ESF2 (732 nt)	-16.0426	1.415213	0.30909
PITG_09792	Pi DEAD/DEAH box RNA helicase, putative (2065 nt)	-16.0373	1.425723	0.30909
PITG_05545	Pi conserved hypothetical protein (1936 nt)	-13.2698	-1.05623	0.309252
PITG_08044	Pi conserved hypothetical protein (1360 nt)	-11.3129	-1.08794	0.309317
PITG_01172	Pi methionine-R-sulfoxide reductase (799 nt)	-13.3547	-1.02356	0.309558
PITG_11900	Pi protein kinase, putative (1337 nt)	-12.3541	1.20337	0.309778
PITG_07044	Pi conserved hypothetical protein (816 nt)	-17.0172	-2.01132	0.30982
PITG_10941	Pi elongation factor 2 (2909 nt)	-10.4914	1.010181	0.309934
PITG_02531	Pi conserved hypothetical protein (4082 nt)	-15.8724	-1.29636	0.31009
PITG_11169	Pi histone-binding protein RBBP7 (2601 nt)	-15.8568	1.267898	0.31009
PITG_19448	Pi 50S ribosomal protein L17, putative (1302 nt)	-13.356	1.048392	0.310107
PITG_19966	Pi carbohydrate-binding protein, putative (1062 nt)	-14.6364	-1.13828	0.310361
PITG_01153	Pi conserved hypothetical protein (11340 nt)	-15.68	1.187163	0.310369
PITG_01576	Pi protein kinase, putative (1593 nt)	-15.6964	-1.28246	0.310369
PITG_10028	Pi serine palmitoyltransferase, putative (1672 nt)	-12.4891	-1.0152	0.310442
PITG_03463	Pi carbohydrate esterase, putative (894 nt)	-13.8368	-1.08079	0.310598
PITG_15249	Pi conserved hypothetical protein (788 nt)	-14.0877	1.202607	0.310872
PITG_02281	Pi conserved hypothetical protein (1434 nt)	-14.2071	-1.21586	0.310946
PITG_10794	Pi conserved oligomeric Golgi complex subunit 6, putative (2	-16.6489	-1.73214	0.311038
PITG_08206	Pi signal peptidase complex subunit 3, putative (1742 nt)	-13.5653	1.047082	0.311046
PITG_13808	Pi conserved hypothetical protein (673 nt)	-15.1476	1.144161	0.311382
PITG_02213	Pi serine protease family S10, putative (1950 nt)	-15.7364	-1.1453	0.312174
PITG_02723	Pi conserved hypothetical protein (1428 nt)	-15.7033	-1.26905	0.312174
PITG_18633	Pi tRNA pseudouridine synthase B, putative (1304 nt)	-14.3132	-1.11406	0.312177
PITG_04030	Pi hypothetical protein (411 nt)	-16.0699	-1.40132	0.312481
PITG_11557	Pi conserved hypothetical protein (807 nt)	-16.6261	-1.68534	0.312579
PITG_04508	Pi conserved hypothetical protein (3456 nt)	-14.526	1.04581	0.312746
PITG_21620	Pi fumarylacetoacetate (FAA) hydrolase, putative (1135 nt)	-14.0828	1.088642	0.312973
PITG_00443	Pi 40S ribosomal protein S6 (1247 nt)	-8.7304	0.961571	0.31303
PITG_13749	Pi 2,3-bisphosphoglycerate-dependent phosphoglycerate m	-14.7089	1.074645	0.313147
PITG_01643	Pi conserved hypothetical protein (703 nt)	-15.121	1.067034	0.31333
PITG_17053	Pi ATP-binding Cassette (ABC) Superfamily (3639 nt)	-15.9648	-1.47181	0.313599
PITG_03238	Pi conserved hypothetical protein (1371 nt)	-14.2465	-1.10862	0.313957
PITG_03906	Pi Type II (General) Secretory Pathway (IIISP) Family (1601 nt)	-12.3259	0.977967	0.314345
PITG_03344	Pi H - or Na -translocating F-type, V-type and A-type ATPase	-12.1533	1.004742	0.314661
PITG_21132	Pi conserved hypothetical protein (568 nt)	-14.0236	-1.05672	0.31488
PITG_07295	Pi conserved hypothetical protein (426 nt)	-16.5364	-1.74987	0.314954
PITG_02191	Pi proteasome subunit beta type-6, putative (2247 nt)	-12.1297	1.005835	0.315041
PITG_09699	Pi conserved hypothetical protein (656 nt)	-10.2591	0.979543	0.315252
PITG_11017	Pi conserved hypothetical protein (837 nt)	-16.5126	-1.28934	0.315664

PITG_05319	Pi hypothetical protein (3149 nt)	-15.5832	1.338884	0.315676
PITG_22404	Pi conserved hypothetical protein (1419 nt)	-15.5432	-1.21831	0.315676
PITG_18245	Pi conserved hypothetical protein (1596 nt)	-14.7907	1.091646	0.315904
PITG_04467	Pi conserved hypothetical protein (870 nt)	-16.3147	1.835697	0.316081
PITG_08883	Pi conserved hypothetical protein (659 nt)	-15.543	-1.28152	0.316565
PITG_01826	Pi conserved hypothetical protein (1431 nt)	-13.023	-1.20746	0.316599
PITG_13204	Pi conserved hypothetical protein (802 nt)	-11.2581	-0.96223	0.316863
PITG_17461	Pi Rab11 family GTPase, putative (1359 nt)	-16.0922	-1.49933	0.317567
PITG_18602	Pi conserved hypothetical protein (1387 nt)	-15.0621	1.179357	0.317931
PITG_17695	Pi hypothetical protein (852 nt)	-12.3148	-1.14502	0.318087
PITG_08504	Pi conserved hypothetical protein (3268 nt)	-16.3326	-1.48599	0.318413
PITG_04065	Pi glycerol-3-phosphate dehydrogenase (1038 nt)	-13.3857	-1.05105	0.318742
PITG_00034	Pi aldehyde dehydrogenase, putative (1971 nt)	-13.0615	0.990329	0.319248
PITG_05571	Pi conserved hypothetical protein (985 nt)	-15.5965	1.150474	0.319251
PITG_09951	Pi dicer-like, putative (2154 nt)	-15.2042	-1.09282	0.319399
PITG_17292	Pi protein kinase (2211 nt)	-15.2032	-1.09471	0.319399
PITG_10903	Pi probable adenosine deaminase, putative (1356 nt)	-14.5049	-1.06155	0.319868
PITG_06935	Pi HSF-type DNA-binding, putative (1623 nt)	-17.0813	-1.99398	0.319931
PITG_13888	Pi 4-coumarate-CoA ligase, putative (1788 nt)	-17.0813	-1.99398	0.319931
PITG_21336	Pi patatin like protein (3426 nt)	-17.0813	-1.99398	0.319931
PITG_08681	Pi elongation factor G, mitochondrial precursor (2410 nt)	-16.2154	1.271116	0.32004
PITG_10664	Pi Intraflagellar Transport Protein 122 (4279 nt)	-15.2943	1.039992	0.320539
PITG_02172	Pi hypothetical protein (1277 nt)	-15.5475	-1.1574	0.321208
PITG_04726	Pi mitochondrial-processing peptidase subunit alpha, putativ	-12.4885	0.978419	0.321251
PITG_19422	Pi hypothetical protein (2352 nt)	-13.9172	-1.11634	0.321305
PITG_02124	Pi protein kinase, putative (2883 nt)	-14.4835	-1.1057	0.321382
PITG_03823	Pi conserved hypothetical protein (922 nt)	-16.2481	1.317795	0.321667
PITG_01349	Pi Type II (General) Secretory Pathway (IISP) Family (1407 nt)	-15.0778	-1.25469	0.321943
PITG_15359	Pi dihydrolipoyl dehydrogenase 1, mitochondrial precursor (	-12.93	1.012823	0.321951
PITG_10221	Pi hypothetical protein (529 nt)	-13.3149	1.110214	0.321963
PITG_14597	Pi conserved hypothetical protein (279 nt)	-14.0335	1.001525	0.322219
PITG_18107	Pi Der1-like family, putative (1230 nt)	-12.0509	0.982845	0.322222
PITG_05429	Pi conserved hypothetical protein (2915 nt)	-15.0989	-1.13088	0.322361
PITG_01602	Pi conserved hypothetical protein (2006 nt)	-14.9122	1.221028	0.32275
PITG_01945	Pi conserved hypothetical protein (1058 nt)	-12.5931	0.97308	0.322901
PITG_12661	Pi conserved hypothetical protein (1996 nt)	-14.0828	1.019007	0.322931
PITG_08902	Pi pleiotropic drug resistance protein, putative (6261 nt)	-16.0235	-1.66242	0.32294
PITG_01569	Pi nardilysin, putative (3690 nt)	-14.6241	1.110367	0.322951
PITG_01233	Pi transmembrane protein, putative (2335 nt)	-14.5554	-1.13385	0.323119
PITG_17406	Pi enoyl-CoA hydratase, mitochondrial precursor (913 nt)	-9.8761	-0.95035	0.323177
PITG_02195	Pi conserved hypothetical protein (528 nt)	-14.9829	-1.12493	0.323506
PITG_09436	Pi conserved hypothetical protein (709 nt)	-11.0587	0.981202	0.323585
PITG_02282	Pi acyl-CoA dehydrogenase, putative (2342 nt)	-12.4272	-1.05964	0.323812
PITG_00624	Pi hypothetical protein (627 nt)	-15.3653	1.491812	0.323839
PITG_00994	Pi conserved hypothetical protein (1176 nt)	-14.3234	-1.06596	0.324175
PITG_00109	Pi DEAD/DEAH box RNA helicase, putative (1557 nt)	-16.0894	1.432311	0.324347
PITG_03978	Pi transcription initiation factor TFIID subunit 6, putative (15	-16.1249	-1.43671	0.324347

PITG_07820	Pi guanine deaminase, putative (1335 nt)	-16.0137	1.391974	0.324347
PITG_18242	Pi conserved hypothetical protein (326 nt)	-13.4189	1.043285	0.324355
PITG_17785	Pi hypothetical protein (336 nt)	-12.3473	1.013363	0.324398
PITG_16042	Pi conserved hypothetical protein (1670 nt)	-15.3459	-1.18494	0.3244
PITG_00999	Pi protein kinase, putative (1151 nt)	-13.3628	0.999656	0.324595
PITG_17993	Pi conserved hypothetical protein (1987 nt)	-12.5454	-1.01071	0.324608
PITG_19053	Pi hypothetical protein (291 nt)	-12.4382	1.232983	0.324613
PITG_02103	Pi glycoside hydrolase, putative (2430 nt)	-14.9322	1.089924	0.324652
PITG_03453	Pi phosphatidyl inositol kinase (PIK-G1) (3466 nt)	-16.3131	-1.44239	0.324924
PITG_08454	Pi conserved hypothetical protein (2319 nt)	-13.6819	0.981562	0.325127
PITG_19932	Pi nicotinate-nucleotide pyrophosphorylase, putative (988 nt)	-13.0404	0.979444	0.325185
PITG_20355	Pi conserved hypothetical protein (555 nt)	-13.5999	-1.02695	0.326019
PITG_13405	Pi conserved hypothetical protein (2746 nt)	-13.7847	-1.09004	0.326025
PITG_05287	Pi conserved hypothetical protein (1000 nt)	-14.8004	-1.06716	0.326153
PITG_09624	Pi conserved hypothetical protein (602 nt)	-12.4751	1.013916	0.326177
PITG_06320	Pi T-complex protein 1 subunit epsilon (1838 nt)	-12.1979	1.009347	0.326349
PITG_14608	Pi 39S ribosomal protein L24, mitochondrial, putative (959 nt)	-13.8468	1.038366	0.326443
PITG_06407	Pi conserved hypothetical protein (600 nt)	-16.5472	-1.22452	0.326497
PITG_16942	Pi conserved hypothetical protein (919 nt)	-16.5526	-1.21391	0.326497
PITG_20061	Pi conserved hypothetical protein (681 nt)	-15.6739	1.210805	0.326583
PITG_22577	Pi conserved hypothetical protein (357 nt)	-14.5866	-1.10537	0.326619
PITG_19624	Pi polygalacturonase, putative (1119 nt)	-15.5302	1.202115	0.326728
PITG_01626	Pi Drug/Metabolite Transporter (DMT) Superfamily (2883 nt)	-15.7971	-1.38517	0.326755
PITG_01873	Pi conserved hypothetical protein (2991 nt)	-15.7971	-1.38517	0.326755
PITG_11152	Pi conserved hypothetical protein (1788 nt)	-14.0745	1.03395	0.327306
PITG_14935	Pi Mitochondrial Carrier (MC) Family (1582 nt)	-13.8089	1.013048	0.327416
PITG_00193	Pi conserved hypothetical protein (2741 nt)	-15.457	-1.18164	0.327505
PITG_02348	Pi conserved hypothetical protein (1142 nt)	-15.4542	-1.18728	0.327505
PITG_16792	Pi nucleolar GTP-binding protein 2 (1589 nt)	-15.4763	1.211813	0.327505
PITG_19964	Pi conserved hypothetical protein (831 nt)	-15.0221	-1.20155	0.327513
PITG_08049	Pi Equilibrative Nucleoside Transporter (ENT) Family (4923 nt)	-15.8216	1.12549	0.327615
PITG_11725	Pi conserved hypothetical protein (1143 nt)	-16.0779	-1.3131	0.327736
PITG_08028	Pi cohesin subunit, putative (4711 nt)	-15.4126	-1.37511	0.327837
PITG_12331	Pi cleavage and polyadenylation specificity factor subunit, putative (1143 nt)	-16.6395	-1.55805	0.328049
PITG_07145	Pi malonyl-CoA decarboxylase (MCD), putative (2361 nt)	-15.333	-1.16337	0.328249
PITG_22430	Pi conserved hypothetical protein (673 nt)	-15.7933	-1.39265	0.32856
PITG_22718	Pi conserved hypothetical protein (1518 nt)	-14.6507	-1.18347	0.328621
PITG_20116	Pi 50S ribosomal protein L15 (847 nt)	-12.8061	1.10553	0.328667
PITG_08241	Pi hypothetical protein (824 nt)	-13.3602	1.004804	0.32914
PITG_14485	Pi conserved hypothetical protein (2715 nt)	-13.8817	1.025508	0.329181
PITG_05560	Pi conserved hypothetical protein (3430 nt)	-15.2058	-1.22322	0.329184
PITG_04365	Pi cysteine protease family C48, putative (613 nt)	-12.9146	-0.99343	0.329244
PITG_20272	Pi methylenetetrahydrofolate reductase, putative (831 nt)	-15.5411	-1.357	0.32942
PITG_18104	Pi conserved hypothetical protein (875 nt)	-13.3892	0.999387	0.329594
PITG_14170	Pi galactokinase, putative (1310 nt)	-13.3262	-1.042	0.329748
PITG_03660	Pi 60S ribosomal protein L6, putative (1049 nt)	-15.0835	-1.20852	0.329771
PITG_06121	Pi conserved hypothetical protein (1154 nt)	-15.3418	-1.24172	0.33017



PITG_02242	Pi conserved hypothetical protein (1385 nt)	-15.753	-1.40683	0.330176
PITG_04850	Pi conserved hypothetical protein (1488 nt)	-15.753	-1.40683	0.330176
PITG_04395	Pi pre-mRNA-processing protein, putative (2063 nt)	-14.6689	-1.03951	0.330348
PITG_03027	Pi UDP-N-acetylhexosamine pyrophosphorylase, putative (15	-15.9314	-1.17674	0.33036
PITG_04479	Pi conserved hypothetical protein (1170 nt)	-15.9435	-1.09211	0.33036
PITG_05008	Pi conserved hypothetical protein (497 nt)	-15.9314	-1.17674	0.33036
PITG_07874	Pi DNA topoisomerase 2 (5187 nt)	-15.5871	-1.38694	0.3304
PITG_07775	Pi splicing factor 3B subunit, putative (719 nt)	-15.6122	-1.28072	0.330689
PITG_21644	Pi UDP-N-acetylglucosamine transporter, putative (1747 nt)	-15.5821	1.092641	0.330689
PITG_20074	Pi flavodoxin-like protein (537 nt)	-13.0021	-1.04681	0.330975
PITG_17933	Pi croquemort-like mating protein M82, putative (1869 nt)	-15.4817	-1.29698	0.331049
PITG_18052	Pi 60S ribosomal protein L3 (1310 nt)	-10.2459	0.962998	0.33109
PITG_04439	Pi hypothetical protein (2797 nt)	-16.115	-1.38526	0.331125
PITG_06682	Pi conserved hypothetical protein (4348 nt)	-16.0249	1.376691	0.331125
PITG_20632	Pi hypothetical protein (912 nt)	-15.7832	1.324065	0.331227
PITG_10289	Pi DNA-dependent RNA polymerase, putative (3507 nt)	-14.9689	1.140979	0.331506
PITG_05567	Pi kinetochore protein NDC80 (917 nt)	-17.0538	-1.92738	0.331594
PITG_21668	Pi F-box protein, putative (1142 nt)	-17.0538	-1.92738	0.331594
PITG_06802	Pi conserved hypothetical protein (1399 nt)	-14.3537	1.01364	0.331633
PITG_22249	Pi hypothetical protein (616 nt)	-15.0804	-1.20277	0.331722
PITG_23112	Pi expressed protein (596 nt)	-12.1044	-1.20063	0.331895
PITG_05211	Pi ATP-binding Cassette (ABC) Superfamily (3861 nt)	-15.5725	-1.35705	0.332235
PITG_04499	Pi histone deacetylase, putative (1602 nt)	-14.7877	1.065781	0.332257
PITG_12873	Pi conserved hypothetical protein (2030 nt)	-16.1541	1.296028	0.332429
PITG_13678	Pi conserved hypothetical protein (1343 nt)	-16.1331	-1.27403	0.332429
PITG_14283	Pi malonyl CoA-acyl carrier protein transacylase, putative (97	-15.6072	1.142629	0.332535
PITG_10951	Pi succinate dehydrogenase iron-sulfur protein, mitochondri	-12.1077	0.938623	0.33254
PITG_20078	Pi conserved hypothetical protein (1193 nt)	-17.0128	-2.00878	0.33306
PITG_22075	Pi conserved hypothetical protein (1121 nt)	-17.0128	-2.00878	0.33306
PITG_02775	Pi conserved hypothetical protein (2460 nt)	-16.8291	-1.4766	0.33306
PITG_13111	Pi conserved hypothetical protein (3817 nt)	-15.4189	1.037083	0.333163
PITG_17683	Pi conserved hypothetical protein (1717 nt)	-14.11	-1.02498	0.333433
PITG_08265	Pi conserved hypothetical protein (847 nt)	-12.0585	-0.94656	0.33352
PITG_15486	Pi general transcription factor IIH subunit, putative (1515 nt)	-14.8478	-1.06471	0.333743
PITG_08851	Pi FKBP-type peptidyl-prolyl cis-trans isomerase, putative (11	-14.7382	-1.12133	0.333764
PITG_10138	Pi alkaline phytoceramidase (aPHC), putative (871 nt)	-14.07	1.043373	0.333828
PITG_03337	Pi conserved hypothetical protein (3329 nt)	-15.853	1.108838	0.333853
PITG_03521	Pi conserved hypothetical protein (987 nt)	-15.9428	1.253272	0.333853
PITG_12469	Pi conserved hypothetical protein (2089 nt)	-15.853	1.108838	0.333853
PITG_10369	Pi Mitochondrial Protein Translocase (MPT) Family (396 nt)	-15.1108	-1.39667	0.333862
PITG_01754	Pi conserved hypothetical protein (4202 nt)	-15.7233	-1.17021	0.333964
PITG_03776	Pi conserved hypothetical protein (3841 nt)	-15.7086	1.181074	0.333964
PITG_18741	Pi Amino Acid/Auxin Permease (AAP) Family (1491 nt)	-15.338	-1.10556	0.334003
PITG_03850	Pi conserved hypothetical protein (2685 nt)	-13.4817	-1.00574	0.334445
PITG_06803	Pi conserved hypothetical protein (2788 nt)	-15.8461	1.244072	0.334609
PITG_07671	Pi NADP-specific glutamate dehydrogenase, putative (1752 r	-13.4226	1.064447	0.334729
PITG_20379	Pi conserved hypothetical protein (1779 nt)	-16.3899	1.534019	0.334804

PITG_20347	Pi Drug/Metabolite Transporter (DMT) Superfamily (1059 nt)	-14.8777	1.001636	0.334856
PITG_05694	Pi transcription elongation factor SPT4 (602 nt)	-13.9965	1.014021	0.335575
PITG_16131	Pi conserved hypothetical protein (734 nt)	-16.6249	-1.68309	0.335826
PITG_00693	Pi plasma membrane H <sup>+</sup> -ATPase, putative (2898 nt)	-12.7814	-1.07042	0.335844
PITG_02145	Pi conserved hypothetical protein (1971 nt)	-15.1164	-1.22295	0.336183
PITG_00271	Pi conserved hypothetical protein (1164 nt)	-16.1463	1.543411	0.336208
PITG_01784	Pi conserved hypothetical protein (1626 nt)	-15.5713	1.070573	0.336221
PITG_02565	Pi protein kinase, putative (1170 nt)	-13.9711	-1.06792	0.336354
PITG_11223	Pi conserved hypothetical protein (767 nt)	-15.896	-1.38487	0.336356
PITG_10878	Pi conserved hypothetical protein (687 nt)	-11.1057	1.005739	0.33637
PITG_04619	Pi protein kinase (3108 nt)	-16.4094	-1.3338	0.336404
PITG_01300	Pi DNA topoisomerase 2 DNA gyrase B (4764 nt)	-12.824	0.954966	0.33657
PITG_03829	Pi conserved hypothetical protein (2808 nt)	-14.307	1.025424	0.337044
PITG_07308	Pi rRNA 2'-O-methyltransferase fibrillar, putative (981 nt)	-13.1011	0.986605	0.337156
PITG_12213	Pi exonuclease 1, putative (1771 nt)	-15.9228	-1.19472	0.337342
PITG_08732	Pi conserved hypothetical protein (1037 nt)	-15.6186	1.096919	0.337349
PITG_15062	Pi conserved hypothetical protein (3901 nt)	-15.6961	-1.28957	0.337349
PITG_02725	Pi conserved hypothetical protein (1766 nt)	-16.1544	-1.29919	0.337469
PITG_03253	Pi conserved hypothetical protein (425 nt)	-16.1124	-1.2481	0.337469
PITG_06305	Pi secreted RxLR effector peptide, putative (276 nt)	-10.2793	-1.17619	0.337585
PITG_09472	Pi conserved hypothetical protein (707 nt)	-10.8895	0.917111	0.337646
PITG_14914	Pi conserved hypothetical protein (710 nt)	-15.0355	-1.17485	0.337955
PITG_06963	Pi cyclin-Y-like protein (2863 nt)	-16.4348	-1.35789	0.338004
PITG_11231	Pi conserved hypothetical protein (1045 nt)	-15.6243	-1.31218	0.338061
PITG_07154	Pi serine carboxypeptidase, putative (1312 nt)	-15.9319	-1.45727	0.338103
PITG_20989	Pi conserved hypothetical protein (2292 nt)	-14.1016	1.05102	0.338148
PITG_12905	Pi transmembrane protein, putative (780 nt)	-11.6423	0.937162	0.338647
PITG_11406	Pi conserved hypothetical protein (1068 nt)	-15.2297	-1.27366	0.338895
PITG_10950	Pi conserved hypothetical protein (1773 nt)	-15.921	-1.26036	0.339084
PITG_12838	Pi conserved hypothetical protein (1399 nt)	-16.1272	1.163003	0.339148
PITG_17664	Pi conserved hypothetical protein (1731 nt)	-14.8286	-1.18209	0.339468
PITG_00764	Pi V-type proton ATPase subunit H, putative (2110 nt)	-12.7234	0.943025	0.339579
PITG_08850	Pi mannitol dehydrogenase, putative (2060 nt)	-16.3461	1.446435	0.339603
PITG_11007	Pi conserved hypothetical protein (598 nt)	-16.316	1.302596	0.339603
PITG_22450	Pi conserved hypothetical protein (1316 nt)	-14.7279	-1.14219	0.339872
PITG_01559	Pi conserved hypothetical protein (1885 nt)	-14.833	-1.13096	0.339892
PITG_01674	Pi conserved hypothetical protein (1571 nt)	-15.6103	-1.28355	0.339898
PITG_03754	Pi protein kinase, putative (2697 nt)	-15.015	-1.02089	0.339964
PITG_04646	Pi ATP-binding Cassette (ABC) Superfamily (2265 nt)	-16.7433	-1.54101	0.340487
PITG_15217	Pi ribonuclease, putative (1123 nt)	-15.418	1.20592	0.340673
PITG_12178	Pi conserved hypothetical protein (852 nt)	-15.916	-1.27069	0.340824
PITG_06939	Pi conserved hypothetical protein (1181 nt)	-16.1169	1.260585	0.340825
PITG_03338	Pi hypothetical protein (846 nt)	-15.2035	1.25218	0.340828
PITG_07166	Pi 2-amino-3-carboxymuconate-6-semialdehyde decarboxylase	-15.2333	-1.21837	0.340828
PITG_05633	Pi conserved hypothetical protein (3358 nt)	-16.37	-1.4125	0.341202
PITG_16006	Pi conserved hypothetical protein (1989 nt)	-16.37	-1.4125	0.341202
PITG_18017	Pi conserved hypothetical protein (1021 nt)	-16.2271	1.270941	0.341236

PITG_01043	Pi 3-phosphoinositide-dependent protein kinase, putative (2	-12.9389	-0.95429	0.341388
PITG_17484	Pi Drug/Metabolite Transporter (DMT) Superfamily (1322 nt)	-15.3209	-1.13909	0.341637
PITG_11176	Pi conserved hypothetical protein (669 nt)	-13.8511	1.024408	0.34178
PITG_05658	Pi conserved hypothetical protein (2647 nt)	-14.9175	-1.10008	0.341815
PITG_00654	Pi DNA damage-inducible protein 1, putative (1999 nt)	-14.8362	-1.08775	0.341933
PITG_19085	Pi conserved hypothetical protein (1692 nt)	-16.7342	-1.55936	0.341987
PITG_17499	Pi Chromate Ion Transporter (CHR) Family (1580 nt)	-14.3713	1.040223	0.342238
PITG_02734	Pi conserved hypothetical protein (387 nt)	-14.4185	-1.08314	0.342499
PITG_01216	Pi hypothetical protein (1398 nt)	-16.069	1.085926	0.342502
PITG_02824	Pi Sulfate Permease (SulP) Family (3174 nt)	-16.138	-1.19629	0.342502
PITG_04731	Pi hypothetical protein (1162 nt)	-16.126	-1.28871	0.342502
PITG_06516	Pi conserved hypothetical protein (757 nt)	-16.1468	-1.31542	0.342502
PITG_10008	Pi protein kinase (2733 nt)	-16.1468	-1.31542	0.342502
PITG_12523	Pi conserved hypothetical protein (1376 nt)	-16.1468	-1.31542	0.342502
PITG_18366	Pi choline/Carnitine O-acyltransferase, putative (2555 nt)	-14.7073	-1.22095	0.342531
PITG_12947	Pi 40S ribosomal protein S23, putative (952 nt)	-9.1264	0.909543	0.342534
PITG_19064	Pi pre-mRNA-splicing factor ISY1 (859 nt)	-15.2136	-1.11834	0.342758
PITG_07276	Pi exopolysaccharide phosphotransferase, putative (1434 nt)	-15.7229	1.101393	0.342936
PITG_12289	Pi H - or Na -translocating F-type, V-type and A-type ATPase	-13.1824	0.955657	0.34295
PITG_05009	Pi conserved hypothetical protein (705 nt)	-13.3464	1.019574	0.343121
PITG_01977	Pi conserved hypothetical protein (1218 nt)	-15.4646	-1.27071	0.343237
PITG_20017	Pi diacylglycerol O-acyltransferase, putative (1296 nt)	-16.7197	-1.58844	0.343487
PITG_02629	Pi nucleolin, putative (1642 nt)	-15.5689	1.121968	0.343567
PITG_06003	Pi conserved hypothetical protein (2705 nt)	-14.3052	-1.13184	0.344027
PITG_18088	Pi conserved hypothetical protein (1991 nt)	-13.5176	-0.96717	0.344056
PITG_03564	Pi hypothetical protein (975 nt)	-15.1414	1.190718	0.344195
PITG_04079	Pi hypothetical protein (673 nt)	-15.3164	1.422771	0.344383
PITG_05843	Pi conserved hypothetical protein (1597 nt)	-16.4229	-1.38299	0.344399
PITG_17112	Pi conserved hypothetical protein (1715 nt)	-16.4229	-1.38299	0.344399
PITG_05245	Pi imidazole glycerol phosphate synthase hisHF, putative (24	-13.4556	-0.98575	0.344441
PITG_04935	Pi calcineurin-like phosphoesterase, putative (1806 nt)	-17.1523	-1.85384	0.344469
PITG_12265	Pi nuclear prelamin A recognition factor-like protein (1311 nt)	-17.1523	-1.85384	0.344469
PITG_03991	Pi hypothetical protein (303 nt)	-15.7263	1.150517	0.344725
PITG_19129	Pi ATP-dependent RNA helicase eIF4A, putative (1319 nt)	-11.9145	0.925549	0.344794
PITG_06482	Pi eukaryotic translation initiation factor 3 subunit, putative	-14.8701	1.008747	0.344846
PITG_17607	Pi elongation factor Ts, putative (1047 nt)	-14.9289	1.212682	0.344846
PITG_11470	Pi calcium-dependent protein kinase, putative (1870 nt)	-14.3955	-1.03844	0.345051
PITG_02372	Pi conserved hypothetical protein (1359 nt)	-15.4219	-1.19166	0.345095
PITG_14171	Pi Amino Acid-Polyamine-Organocation (APC) Family (1748 r	-15.5395	1.098086	0.345399
PITG_01797	Pi 26S protease regulatory subunit 6A-A (1647 nt)	-12.7459	0.980042	0.345467
PITG_09578	Pi vesicle transporter GOT1B-like protein (615 nt)	-14.0168	-0.98082	0.345689
PITG_23272	Pi crinkler (CRN) family protein, gypsy-inserted pseudogene (	-15.9377	1.262768	0.346039
PITG_07229	Pi conserved hypothetical protein (444 nt)	-15.41	1.18967	0.34628
PITG_21828	Pi conserved hypothetical protein (836 nt)	-15.4417	1.197769	0.34628
PITG_02263	Pi metal transporter, putative (1660 nt)	-14.3558	1.001901	0.346444
PITG_03288	Pi myosin-like protein (4434 nt)	-15.7214	-1.1757	0.346513
PITG_13910	Pi conserved hypothetical protein (1120 nt)	-15.7438	-1.13091	0.346513

PITG_17549	Pi myosin-like protein (4388 nt)	-15.7897	-1.39906	0.346513
PITG_18991	Pi conserved hypothetical protein (647 nt)	-13.3147	1.008022	0.34703
PITG_08696	Pi iron-sulfur cluster scaffold protein Nfu-like protein (1037 r	-13.5159	0.983899	0.347202
PITG_16468	Pi conserved hypothetical protein (2126 nt)	-15.2294	-1.08607	0.347219
PITG_17239	Pi calcineurin-like phosphoesterase, putative (2269 nt)	-13.7103	-0.99238	0.347418
PITG_02503	Pi FAD synthetase, putative (876 nt)	-16.1668	-1.27656	0.347526
PITG_16386	Pi Bola-like protein (541 nt)	-14.6455	-1.0123	0.34759
PITG_14652	Pi conserved hypothetical protein (2239 nt)	-16.4094	-1.25593	0.347594
PITG_09445	Pi conserved hypothetical protein (633 nt)	-10.8135	0.9019	0.34808
PITG_04179	Pi condensin-2 complex subunit H2, putative (2172 nt)	-15.4776	-1.24352	0.348144
PITG_12193	Pi 50S ribosomal protein L1 (1144 nt)	-13.6905	0.964075	0.348367
PITG_17944	Pi conserved hypothetical protein (3812 nt)	-15.1296	-1.06971	0.348371
PITG_22908	Pi PcF and SCR74-like cys-rich secreted peptide, putative (39	-13.3786	1.29388	0.348376
PITG_05449	Pi palmitoyltransferase, putative (1401 nt)	-13.516	-0.95399	0.348554
PITG_04344	Pi protein kinase (3400 nt)	-17.1396	-1.87893	0.348593
PITG_19672	Pi hypothetical protein (1077 nt)	-14.6827	-1.07965	0.348994
PITG_22198	Pi conserved hypothetical protein (722 nt)	-14.6561	1.048928	0.348994
PITG_10218	Pi glucan 1,3-beta-glucosidase, putative (1915 nt)	-11.8105	1.064322	0.349176
PITG_03085	Pi conserved hypothetical protein (1413 nt)	-16.3986	-1.35483	0.349191
PITG_11087	Pi conserved hypothetical protein (2011 nt)	-16.152	-1.23691	0.349199
PITG_07072	Pi short chain dehydrogenase, putative (767 nt)	-16.6884	-1.65184	0.34949
PITG_15791	Pi glycoside hydrolase, putative (1428 nt)	-14.5675	1.042938	0.349733
PITG_19836	Pi hypothetical protein (1303 nt)	-15.0014	1.074638	0.349948
PITG_06889	Pi peptidase, putative (2249 nt)	-13.5189	-1.08169	0.350036
PITG_04978	Pi conserved hypothetical protein (635 nt)	-15.773	-1.13111	0.350082
PITG_08036	Pi conserved hypothetical protein (596 nt)	-13.576	0.968529	0.350161
PITG_05126	Pi splicing factor 3A subunit, putative (735 nt)	-15.5899	1.413519	0.350505
PITG_17951	Pi dicarboxylate/Amino Acid:Cation (Na or H) Symporter (DA	-16.4183	-1.3933	0.350788
PITG_22204	Pi conserved hypothetical protein (829 nt)	-16.4183	-1.3933	0.350788
PITG_16078	Pi conserved hypothetical protein (3849 nt)	-16.1348	-1.20151	0.350871
PITG_15626	Pi superoxide dismutase 2 (637 nt)	-10.6948	0.937188	0.350945
PITG_09367	Pi sterol 3-beta-glucosyltransferase, putative (5031 nt)	-15.9168	1.126748	0.351241
PITG_11618	Pi conserved hypothetical protein (1342 nt)	-15.8822	1.057605	0.351241
PITG_00982	Pi conserved hypothetical protein (4269 nt)	-14.5581	0.978465	0.351791
PITG_11198	Pi nucleolar GTP-binding protein 1 (2043 nt)	-15.4286	1.026938	0.351866
PITG_00567	Pi conserved hypothetical protein (1012 nt)	-16.2946	1.215012	0.352385
PITG_06152	Pi conserved hypothetical protein (901 nt)	-14.2831	-0.95624	0.352492
PITG_03156	Pi pre-rRNA-processing protein TSR1 (2490 nt)	-16.0876	1.056015	0.352542
PITG_07562	Pi folate-Biopterin Transporter (FBT) family (1821 nt)	-16.1063	-1.25827	0.352542
PITG_06577	Pi conserved hypothetical protein (766 nt)	-11.4168	0.916819	0.352658
PITG_13402	Pi cystathionine beta-lyase (2009 nt)	-13.999	1.08109	0.352842
PITG_02953	Pi conserved hypothetical protein (492 nt)	-16.0305	1.269083	0.353148
PITG_02053	Pi 40S ribosomal protein S8-2 (975 nt)	-9.56676	0.917645	0.353365
PITG_09898	Pi ras-like protein (1232 nt)	-14.6778	-1.05478	0.353498
PITG_08453	Pi conserved hypothetical protein (807 nt)	-14.6488	-1.14955	0.35366
PITG_21841	Pi transmembrane protein, putative (587 nt)	-14.5476	1.124161	0.353698
PITG_05541	Pi dolichyl pyrophosphate Man9GlcNAc2 alpha-1,3-glucosylt	-17.1268	-1.80071	0.354104

PITG_13249	Pi conserved hypothetical protein (1325 nt)	-15.3313	1.087191	0.354241
PITG_09036	Pi conserved hypothetical protein (789 nt)	-15.1136	-1.10248	0.35426
PITG_06290	Pi secreted RxLR effector peptide, putative (483 nt)	-10.2564	-1.01576	0.354533
PITG_04977	Pi conserved hypothetical protein (3445 nt)	-12.9662	-1.02472	0.354558
PITG_00986	Pi peroxiredoxin-4 (979 nt)	-14.2285	-0.98674	0.354734
PITG_05114	Pi aspartyl protease family A01A, putative (1749 nt)	-14.8331	1.006671	0.355085
PITG_14195	Pi enolase (1485 nt)	-12.5275	0.91386	0.3554
PITG_03843	Pi conserved hypothetical protein (1253 nt)	-11.9615	0.898949	0.355411
PITG_05483	Pi protein kinase, putative (1117 nt)	-16.9448	-1.22805	0.355484
PITG_12342	Pi sulfite oxidase, putative (1779 nt)	-16.3797	-1.3132	0.355576
PITG_03404	Pi conserved hypothetical protein (893 nt)	-15.5166	-1.1643	0.356004
PITG_03333	Pi conserved hypothetical protein (1859 nt)	-11.8342	0.910827	0.356015
PITG_11070	Pi conserved hypothetical protein (958 nt)	-14.3291	-0.99841	0.35612
PITG_05659	Pi conserved hypothetical protein (1291 nt)	-15.3761	-1.17272	0.356146
PITG_00409	Pi rho GDP-dissociation inhibitor (853 nt)	-14.7389	0.992995	0.356176
PITG_17526	Pi crinkler (CRN) family protein, putative (1956 nt)	-9.3353	-1.12777	0.356303
PITG_18331	Pi conserved hypothetical protein (8852 nt)	-15.6003	-1.05254	0.356343
PITG_09544	Pi conserved hypothetical protein (757 nt)	-11.9848	-1.14363	0.356839
PITG_10783	Pi CorA Metal Ion Transporter (MIT) Family (1620 nt)	-16.6073	-1.0951	0.356999
PITG_07197	Pi 3-ketoacyl-CoA thiolase, mitochondrial (1353 nt)	-12.2217	-0.89649	0.357
PITG_07971	Pi conserved hypothetical protein (1467 nt)	-13.9078	0.919609	0.357043
PITG_00578	Pi metalloprotease family M38, putative (1299 nt)	-12.7913	-0.91782	0.357174
PITG_04181	Pi conserved hypothetical protein (1755 nt)	-14.4184	-0.99258	0.357195
PITG_05709	Pi adenylate kinase, putative (1064 nt)	-15.7895	-1.39886	0.357201
PITG_20189	Pi 60S ribosomal protein L14, putative (710 nt)	-8.6552	0.890289	0.357265
PITG_22319	Pi UDP-glucose 4-epimerase, putative (1287 nt)	-13.2233	-0.97525	0.357589
PITG_02506	Pi conserved hypothetical protein (1835 nt)	-15.4487	1.010472	0.357874
PITG_03399	Pi histidyl-tRNA synthetase, putative (1123 nt)	-14.7519	1.066468	0.358226
PITG_03973	Pi conserved hypothetical protein (4616 nt)	-17.1296	-1.89844	0.358247
PITG_05798	Pi protein kinase, putative (2322 nt)	-17.1296	-1.89844	0.358247
PITG_15696	Pi TFIIF basal transcription factor complex helicase subunit (	-15.6476	-1.26546	0.358479
PITG_02530	Pi conserved hypothetical protein (1675 nt)	-16.5983	-1.11393	0.358501
PITG_15785	Pi conserved hypothetical protein (1732 nt)	-16.5983	-1.11393	0.358501
PITG_06810	Pi conserved hypothetical protein (962 nt)	-16.339	1.258523	0.358767
PITG_10838	Pi dolichyl-P-Man:Man(7)GlcNAc(2)-PP-dolichyl-alpha-1,6-m:	-15.2245	-1.14121	0.358835
PITG_02280	Pi conserved hypothetical protein (1966 nt)	-14.2921	-0.99099	0.35893
PITG_01428	Pi conserved hypothetical protein (728 nt)	-14.2281	-0.96233	0.359029
PITG_17430	Pi conserved hypothetical protein (1075 nt)	-16.1475	-1.38949	0.359219
PITG_00115	Pi protein kinase, putative (1413 nt)	-14.6868	-1.07072	0.359687
PITG_02624	Pi aspartyl protease family A01B, putative (1499 nt)	-15.4966	-1.2046	0.359741
PITG_01313	Pi conserved hypothetical protein (1642 nt)	-14.4683	1.016829	0.359868
PITG_02184	Pi conserved hypothetical protein (518 nt)	-16.7214	-1.58696	0.360004
PITG_03457	Pi conserved hypothetical protein (5820 nt)	-16.7214	-1.58696	0.360004
PITG_06946	Pi conserved hypothetical protein (2130 nt)	-16.7214	-1.58696	0.360004
PITG_20709	Pi conserved hypothetical protein (580 nt)	-16.6906	-1.46576	0.360004
PITG_00633	Pi proteasome subunit alpha type-7, threonine protease fam	-11.6789	0.908226	0.36003
PITG_16871	Pi conserved hypothetical protein (1239 nt)	-13.2818	1.015998	0.360359

PITG_02925	Pi ketol-acid reductoisomerase (1703 nt)	-11.179	0.900566	0.36043
PITG_06767	Pi transmembrane protein Gpr7-like protein (1815 nt)	-14.1335	-0.97794	0.360571
PITG_07924	Pi Drug/Metabolite Transporter (DMT) Superfamily (1795 nt)	-13.0266	0.916112	0.36067
PITG_02885	Pi conserved hypothetical protein (1866 nt)	-16.6842	-1.66149	0.361507
PITG_03410	Pi acetolactate synthase small subunit, putative (1042 nt)	-12.6939	-0.95432	0.361508
PITG_03826	Pi conserved hypothetical protein (950 nt)	-15.9367	-1.29971	0.36161
PITG_19286	Pi Major Facilitator Superfamily (MFS) (1368 nt)	-15.9406	-1.29183	0.36161
PITG_20676	Pi beta-glucosidase, putative (2430 nt)	-15.5503	1.087605	0.361788
PITG_07347	Pi conserved hypothetical protein (892 nt)	-16.3632	-1.42499	0.361956
PITG_15309	Pi DNA mismatch repair protein mutS, putative (3242 nt)	-16.3954	-1.36049	0.361956
PITG_21179	Pi conserved hypothetical protein (876 nt)	-16.3954	-1.36049	0.361956
PITG_01418	Pi choline/Carnitine O-acyltransferase, putative (2134 nt)	-14.0475	1.041073	0.362034
PITG_16966	Pi 2-oxoglutarate dehydrogenase E1 component, putative (3	-13.0757	0.940378	0.362418
PITG_02361	Pi P-type ATPase (P-ATPase) Superfamily (2973 nt)	-16.0436	1.074399	0.362552
PITG_19177	Pi conserved hypothetical protein (1173 nt)	-14.1907	-1.01167	0.362933
PITG_00198	Pi conserved hypothetical protein (472 nt)	-13.5519	-1.05038	0.362978
PITG_10871	Pi U1 small nuclear ribonucleoprotein C, putative (871 nt)	-13.96	0.975896	0.36318
PITG_01181	Pi conserved hypothetical protein (1587 nt)	-12.781	-0.90716	0.363183
PITG_08733	Pi conserved hypothetical protein (1008 nt)	-13.8477	-1.08507	0.363216
PITG_17516	Pi S-adenosylmethionine synthetase 2 (1547 nt)	-10.5663	0.989464	0.363451
PITG_23158	Pi isocitrate dehydrogenase, putative (1269 nt)	-15.5149	-1.16816	0.363465
PITG_00197	Pi conserved hypothetical protein (2757 nt)	-16.4159	-1.40033	0.36355
PITG_19048	Pi hypothetical protein (407 nt)	-16.4159	-1.40033	0.36355
PITG_20854	Pi conserved hypothetical protein (486 nt)	-16.2581	1.183709	0.36355
PITG_06232	Pi hypothetical protein (638 nt)	-14.4431	0.973445	0.363646
PITG_14979	Pi palmitoyltransferase, putative (1047 nt)	-15.6352	-0.97884	0.363956
PITG_21579	Pi adenylate kinase, putative (768 nt)	-15.6393	-0.9707	0.363956
PITG_16326	Pi calcineurin-like phosphoesterase (2862 nt)	-15.1155	1.099919	0.363999
PITG_00655	Pi conserved hypothetical protein (1033 nt)	-14.4077	1.074618	0.363999
PITG_11817	Pi hypothetical protein (1959 nt)	-13.127	1.012858	0.364059
PITG_01452	Pi conserved hypothetical protein (2655 nt)	-16.1227	-1.29612	0.364217
PITG_16903	Pi hypothetical protein (2596 nt)	-16.064	1.29129	0.364217
PITG_16198	Pi 60S ribosomal protein L18a (1751 nt)	-9.53813	0.875444	0.364245
PITG_05297	Pi conserved hypothetical protein (531 nt)	-14.9092	0.934499	0.364505
PITG_03339	Pi conserved hypothetical protein (1065 nt)	-12.7419	-0.91872	0.364699
PITG_13423	Pi conserved hypothetical protein (1721 nt)	-13.8378	-0.96334	0.364795
PITG_02572	Pi conserved hypothetical protein (3372 nt)	-15.4567	0.962444	0.365322
PITG_17936	Pi structural maintenance of chromosomes protein 4, putati	-15.5087	-1.07719	0.365322
PITG_08959	Pi 40S ribosomal protein S3-3 (841 nt)	-9.18651	0.893113	0.365588
PITG_00441	Pi conserved hypothetical protein (1546 nt)	-15.6334	-0.9828	0.365776
PITG_08446	Pi conserved hypothetical protein (3347 nt)	-15.6451	-1.27054	0.365776
PITG_12305	Pi rRNA-processing protein FCF1 (928 nt)	-15.6039	1.003487	0.365776
PITG_16800	Pi conserved hypothetical protein (539 nt)	-16.1048	-1.25936	0.365882
PITG_21759	Pi cytochrome P450, putative (2672 nt)	-16.1048	-1.25936	0.365882
PITG_10292	Pi alcohol dehydrogenase, putative (1239 nt)	-13.8931	1.247372	0.365912
PITG_17348	Pi myosin-like protein (4233 nt)	-15.1145	-1.10194	0.365935
PITG_18963	Pi conserved hypothetical protein (2541 nt)	-15.0212	1.050618	0.366267

PITG_19415	Pi hypothetical protein (525 nt)	-10.8026	1.006568	0.366463
PITG_03379	Pi conserved hypothetical protein (3157 nt)	-14.9213	1.01976	0.366506
PITG_12283	Pi conserved hypothetical protein (1842 nt)	-16.9729	-1.17713	0.366559
PITG_13499	Pi MtN3-like protein (779 nt)	-15.9044	1.255024	0.366777
PITG_14439	Pi conserved hypothetical protein (779 nt)	-12.3201	0.914001	0.366948
PITG_03345	Pi peptidyl-prolyl cis-trans isomerase E, putative (634 nt)	-14.1089	0.906126	0.367068
PITG_05566	Pi conserved hypothetical protein (479 nt)	-15.7744	-1.06748	0.367196
PITG_07312	Pi TATA-box-binding protein (1101 nt)	-15.7967	-1.02295	0.367196
PITG_08072	Pi conserved hypothetical protein (1437 nt)	-15.7882	1.083169	0.367196
PITG_15072	Pi serine protease family S33, putative (1449 nt)	-16.1654	-1.35692	0.367546
PITG_22163	Pi L-aminoadipate-semialdehyde dehydrogenase, putative (1	-15.2337	-1.21198	0.36759
PITG_02732	Pi conserved hypothetical protein (1556 nt)	-14.248	-0.94761	0.367633
PITG_08646	Pi polysaccharide lyase, putative (599 nt)	-15.0083	1.082722	0.367665
PITG_10858	Pi glycine cleavage system H protein, mitochondrial precursc	-10.7691	0.862385	0.367679
PITG_16479	Pi putative alpha mannosyltransferase (1764 nt)	-15.7625	-1.21691	0.367828
PITG_20775	Pi adenylate kinase, putative (1847 nt)	-13.9249	0.991536	0.367945
PITG_01489	Pi hypothetical protein (765 nt)	-17.1041	-1.83888	0.367947
PITG_14978	Pi dolichyl-phosphate beta-glucosyltransferase, putative (82)	-17.1041	-1.83888	0.367947
PITG_02716	Pi conserved hypothetical protein (1906 nt)	-15.0531	-1.09849	0.368247
PITG_05195	Pi conserved hypothetical protein (381 nt)	-16.376	-1.31699	0.368331
PITG_20823	Pi conserved hypothetical protein (943 nt)	-16.376	-1.31699	0.368331
PITG_09704	Pi dynein light chain Tctex-type, putative (467 nt)	-12.7289	0.99958	0.368428
PITG_19174	Pi phosphoglucomutase, putative (1969 nt)	-15.7941	-1.02839	0.368967
PITG_22716	Pi M96 mating-specific protein family (1613 nt)	-15.8366	-1.30591	0.368967
PITG_08576	Pi conserved hypothetical protein (925 nt)	-13.4789	-0.9359	0.368984
PITG_08546	Pi conserved hypothetical protein (1458 nt)	-15.5014	-1.14327	0.369028
PITG_16899	Pi conserved hypothetical protein (1404 nt)	-15.4527	1.135607	0.369028
PITG_10118	Pi conserved hypothetical protein (1278 nt)	-14.5495	-0.97214	0.369069
PITG_04971	Pi conserved hypothetical protein (3105 nt)	-16.0661	1.036594	0.369208
PITG_14562	Pi conserved hypothetical protein (465 nt)	-14.8427	1.000385	0.369253
PITG_09521	Pi conserved hypothetical protein (539 nt)	-13.1911	0.995725	0.369288
PITG_14442	Pi hypothetical protein (156 nt)	-15.6395	-1.16963	0.369408
PITG_02498	Pi iron sulfur cluster assembly protein 1, mitochondrial precu	-12.7092	0.883919	0.369411
PITG_18378	Pi conserved hypothetical protein (1120 nt)	-14.5777	-1.12007	0.36947
PITG_17849	Pi hypothetical protein (388 nt)	-15.7349	-1.27267	0.369594
PITG_04227	Pi conserved hypothetical protein (917 nt)	-14.3369	-0.98263	0.369596
PITG_14275	Pi hypothetical protein (213 nt)	-12.284	-1.10355	0.369623
PITG_11088	Pi conserved hypothetical protein (797 nt)	-15.9972	-0.98483	0.369887
PITG_13689	Pi crinkler (CRN) family protein, Gypsy-disrupted, pseudogen	-13.3949	-1.11063	0.369963
PITG_04509	Pi conserved hypothetical protein (2121 nt)	-15.9448	-1.28675	0.370215
PITG_05939	Pi carbonyl reductase, putative (744 nt)	-15.0089	0.957787	0.370222
PITG_18235	Pi transmembrane protein, putative (1125 nt)	-14.2974	0.91445	0.370381
PITG_18011	Pi conserved hypothetical protein (2051 nt)	-12.2292	-0.89224	0.370404
PITG_21877	Pi conserved hypothetical protein (665 nt)	-16.1422	-1.33085	0.370871
PITG_19612	Pi conserved hypothetical protein (900 nt)	-14.532	0.954669	0.371148
PITG_14274	Pi conserved hypothetical protein (1579 nt)	-12.4882	-1.19719	0.371195
PITG_06817	Pi inactive ubiquitin carboxyl-terminal hydrolase, putative (2	-15.6443	-1.27227	0.371219

PITG_07946	Pi conserved hypothetical protein (1648 nt)	-15.6443	-1.27227	0.371219
PITG_09852	Pi conserved hypothetical protein (575 nt)	-15.7902	-1.39688	0.371357
PITG_07334	Pi carbohydrate esterase, putative (969 nt)	-15.9928	-0.99353	0.371601
PITG_11530	Pi conserved hypothetical protein (1474 nt)	-15.9587	-1.12233	0.371601
PITG_18007	Pi CDP-alcohol phosphatidyltransferase, putative (1560 nt)	-15.964	-1.05111	0.371601
PITG_19404	Pi conserved hypothetical protein (402 nt)	-12.1259	-0.99953	0.371668
PITG_07314	Pi conserved hypothetical protein (3093 nt)	-13.9848	-0.91436	0.371681
PITG_10967	Pi ras GTPase-activating protein-binding protein, putative (21	-13.4853	0.908395	0.3717
PITG_22313	Pi delta-1-pyrroline-5-carboxylate synthetase, putative (940	-15.3434	-1.24501	0.371749
PITG_04376	Pi conserved hypothetical protein (2040 nt)	-13.3319	-1.04607	0.371873
PITG_11626	Pi proteasome subunit beta type-6, putative (727 nt)	-12.1547	0.908179	0.372673
PITG_03790	Pi conserved hypothetical protein (1198 nt)	-15.4827	-1.01095	0.372721
PITG_00219	Pi glucan 1,3-beta-glucosidase, putative (1188 nt)	-11.8906	-0.91755	0.37285
PITG_11452	Pi conserved hypothetical protein (1201 nt)	-11.9157	0.879025	0.372907
PITG_13122	Pi ATP-binding Cassette (ABC) Superfamily (4446 nt)	-13.6394	-1.21066	0.37293
PITG_10038	Pi SCP-like extracellular protein (1059 nt)	-15.8278	1.242235	0.37312
PITG_03980	Pi conserved hypothetical protein (1897 nt)	-15.9028	1.008599	0.373313
PITG_11272	Pi histone demethylase, putative (6395 nt)	-15.9517	-1.1364	0.373313
PITG_02793	Pi conserved hypothetical protein (3525 nt)	-14.1335	-0.97808	0.373503
PITG_07545	Pi Mitochondrial Carrier (MC) Family (1222 nt)	-15.1295	-1.07273	0.373643
PITG_08935	Pi acyl-CoA synthetase short-chain family member, putative	-14.6079	-0.98904	0.373725
PITG_07914	Pi synaptobrevin-like protein (1084 nt)	-11.9746	0.863177	0.373984
PITG_10147	Pi cell division protease ftsH (2771 nt)	-14.235	0.969334	0.374044
PITG_08683	Pi conserved hypothetical protein (542 nt)	-15.1366	1.074925	0.374447
PITG_17015	Pi conserved hypothetical protein (1119 nt)	-15.149	1.123517	0.374447
PITG_10029	Pi hypothetical protein (400 nt)	-15.4569	0.966668	0.374563
PITG_22995	Pi protease inhibitor Epi5 (267 nt)	-13.665	-0.9638	0.374754
PITG_01387	Pi conserved hypothetical protein (1858 nt)	-15.7567	-1.23095	0.37488
PITG_04041	Pi conserved hypothetical protein (458 nt)	-12.467	-0.90629	0.375771
PITG_03741	Pi conserved hypothetical protein (699 nt)	-13.73	-1.01865	0.375952
PITG_16429	Pi conserved hypothetical protein (682 nt)	-11.9045	0.90042	0.376182
PITG_17479	Pi conserved hypothetical protein (1213 nt)	-15.1108	0.976697	0.376389
PITG_04888	Pi kinesin-like protein (2334 nt)	-15.9198	1.422008	0.376397
PITG_19535	Pi proteasome subunit beta, putative (696 nt)	-11.2152	0.853658	0.376561
PITG_02642	Pi pyruvate dehydrogenase [lipoamide] (1222 nt)	-14.0982	-0.93103	0.376624
PITG_10355	Pi conserved hypothetical protein (1203 nt)	-15.6921	1.142925	0.376639
PITG_19928	Pi conserved hypothetical protein (648 nt)	-15.9487	-1.14271	0.376731
PITG_08185	Pi conserved hypothetical protein (511 nt)	-11.3656	-0.88928	0.377346
PITG_01681	Pi conserved hypothetical protein (904 nt)	-15.2577	-1.07392	0.37738
PITG_05583	Pi glutathione S-transferase, putative (2983 nt)	-13.4299	-0.91301	0.37741
PITG_15615	Pi short/branched chain specific acyl-CoA dehydrogenase, pu	-11.3258	-0.86404	0.377619
PITG_02782	Pi conserved hypothetical protein (978 nt)	-17.1243	-1.90811	0.377695
PITG_06355	Pi conserved hypothetical protein (2869 nt)	-17.1243	-1.90811	0.377695
PITG_11674	Pi conserved hypothetical protein (3607 nt)	-17.1243	-1.90811	0.377695
PITG_19822	Pi conserved hypothetical protein (973 nt)	-17.1243	-1.90811	0.377695
PITG_02769	Pi conserved hypothetical protein (995 nt)	-13.7769	-0.89736	0.378085
PITG_10146	Pi 40S ribosomal protein S2 (1222 nt)	-10.4384	0.90816	0.378232



PITG_02160	Pi hypothetical protein (466 nt)	-17.3629	-1.54506	0.378302
PITG_04774	Pi conserved hypothetical protein (1414 nt)	-17.3629	-1.54506	0.378302
PITG_06517	Pi conserved hypothetical protein (1863 nt)	-17.3629	-1.54506	0.378302
PITG_06714	Pi conserved hypothetical protein (3310 nt)	-17.3629	-1.54506	0.378302
PITG_08299	Pi conserved hypothetical protein (2213 nt)	-17.3629	-1.54506	0.378302
PITG_21437	Pi conserved hypothetical protein (1202 nt)	-17.3629	-1.54506	0.378302
PITG_08672	Pi conserved hypothetical protein (1201 nt)	-15.6165	1.123816	0.378437
PITG_13406	Pi conserved hypothetical protein (1294 nt)	-15.6439	-1.27318	0.378437
PITG_14515	Pi conserved hypothetical protein (2532 nt)	-13.683	1.174	0.378717
PITG_11650	Pi conserved hypothetical protein (915 nt)	-15.3382	-1.1038	0.37874
PITG_16766	Pi hypothetical protein (1349 nt)	-12.1834	0.871435	0.378895
PITG_15654	Pi conserved hypothetical protein (794 nt)	-10.5372	0.853598	0.379188
PITG_13300	Pi RNA-binding protein NOB1 (1601 nt)	-16.1396	1.033419	0.379215
PITG_17109	Pi CCAAT-binding transcription factor, putative (781 nt)	-15.1465	-1.16101	0.379386
PITG_13575	Pi ATP-binding Cassette (ABC) Superfamily (4077 nt)	-14.5832	1.011101	0.379793
PITG_04560	Pi conserved hypothetical protein (1001 nt)	-14.0646	0.937889	0.379893
PITG_01627	Pi alcohol dehydrogenase, putative (1640 nt)	-13.7004	-0.91078	0.380103
PITG_08619	Pi hypothetical protein (1839 nt)	-15.9853	-1.00818	0.380141
PITG_13382	Pi conserved hypothetical protein (1221 nt)	-11.879	-0.85811	0.380207
PITG_20825	Pi conserved hypothetical protein (516 nt)	-15.6496	-1.09042	0.380235
PITG_15857	Pi conserved hypothetical protein (654 nt)	-14.1099	1.02619	0.380298
PITG_18440	Pi conserved hypothetical protein (778 nt)	-14.0281	-0.93567	0.380537
PITG_01496	Pi glycoside hydrolase, putative (2531 nt)	-13.094	0.950938	0.380845
PITG_00069	Pi conserved hypothetical protein (1759 nt)	-16.1896	-1.16111	0.380853
PITG_00315	Pi transmembrane protein, putative (4152 nt)	-16.164	1.276667	0.380853
PITG_18359	Pi ubiquitin-specific protease, putative (2486 nt)	-14.3281	-1.00163	0.381031
PITG_20611	Pi nucleoporin-like protein (1199 nt)	-12.7924	-0.8831	0.381085
PITG_18385	Pi conserved hypothetical protein (597 nt)	-13.5924	-0.98586	0.38119
PITG_07567	Pi brefeldin A-inhibited guanine nucleotide-exchange proteir	-14.968	1.013244	0.381227
PITG_12699	Pi serine/threonine protein kinase (3258 nt)	-15.7906	-1.03696	0.381297
PITG_01852	Pi dynein heavy chain (12653 nt)	-15.9437	1.090151	0.381842
PITG_08545	Pi Crinkler (CRN) family protein, pseudogene (1885 nt)	-15.1774	-1.12332	0.381988
PITG_05190	Pi conserved hypothetical protein (546 nt)	-15.6329	-1.03997	0.38203
PITG_02320	Pi conserved hypothetical protein (1297 nt)	-13.3862	0.997792	0.382079
PITG_10316	Pi RNA exonuclease 4 (1140 nt)	-14.3521	-0.92621	0.382089
PITG_04481	Pi conserved hypothetical protein (943 nt)	-13.5446	0.971321	0.382485
PITG_02440	Pi conserved hypothetical protein (1523 nt)	-16.2057	-1.12885	0.382489
PITG_20498	Pi conserved hypothetical protein (1405 nt)	-14.2384	-0.94183	0.382497
PITG_02199	Pi conserved hypothetical protein (2991 nt)	-16.7205	-1.59106	0.382582
PITG_04002	Pi conserved hypothetical protein (3380 nt)	-13.8719	-0.89546	0.383315
PITG_18204	Pi conserved hypothetical protein (3115 nt)	-14.8237	1.22415	0.383418
PITG_18433	Pi conserved hypothetical protein (1884 nt)	-15.9686	-1.10359	0.383542
PITG_19163	Pi ATP-dependent RNA helicase, putative (1642 nt)	-15.9317	0.890257	0.383542
PITG_11767	Pi phosphoacetylglucosamine mutase, putative (1967 nt)	-12.8677	-0.93908	0.383716
PITG_00955	Pi conserved hypothetical protein (2098 nt)	-13.1412	-0.87032	0.38377
PITG_12930	Pi porphobilinogen deaminase (1313 nt)	-16.6962	-1.54111	0.38409
PITG_14270	Pi GPI-anchored leucine-rich lipoprotein (1437 nt)	-16.6841	-1.66409	0.38409

PITG_17985	Pi conserved hypothetical protein (858 nt)	-16.6962	-1.54111	0.38409
PITG_08810	Pi conserved hypothetical protein (765 nt)	-12.3488	0.849424	0.384207
PITG_11254	Pi exocyst complex component, putative (3439 nt)	-14.9455	0.985276	0.384952
PITG_20717	Pi conserved hypothetical protein (4711 nt)	-14.3009	-1.0008	0.385159
PITG_09818	Pi conserved hypothetical protein (3367 nt)	-15.9924	-1.11875	0.38524
PITG_08388	Pi conserved hypothetical protein (2881 nt)	-15.4854	1.112612	0.385551
PITG_00762	Pi conserved hypothetical protein (1108 nt)	-16.1851	-1.17031	0.385757
PITG_06040	Pi conserved hypothetical protein (2080 nt)	-16.2172	-1.17404	0.385757
PITG_12871	Pi conserved hypothetical protein (2577 nt)	-16.1194	1.075916	0.385757
PITG_18461	Pi conserved hypothetical protein (2208 nt)	-16.1851	-1.17031	0.385757
PITG_19153	Pi conserved hypothetical protein (8551 nt)	-16.1851	-1.17031	0.385757
PITG_00967	Pi conserved hypothetical protein (896 nt)	-14.1237	0.936295	0.385782
PITG_18106	Pi vacuolar protein sorting-associated protein, putative (144.	-16.3956	-1.35904	0.385838
PITG_18396	Pi conserved hypothetical protein (2174 nt)	-14.516	-0.97751	0.385882
PITG_13762	Pi flavodoxin-like protein (800 nt)	-15.2558	-0.98899	0.386906
PITG_09228	Pi conserved hypothetical protein (1116 nt)	-15.9821	-1.0143	0.386935
PITG_13174	Pi translation initiation factor IF-2, putative (2742 nt)	-15.8979	0.960464	0.386935
PITG_15777	Pi protein kinase (924 nt)	-15.9499	0.988554	0.386935
PITG_09817	Pi ribose-phosphate pyrophosphokinase (1247 nt)	-14.9793	0.96687	0.386936
PITG_18564	Pi conserved hypothetical protein (487 nt)	-14.4007	-1.09668	0.387008
PITG_01260	Pi S-phase kinase-associated protein 1A (999 nt)	-11.5355	0.885932	0.387243
PITG_04458	Pi protein kinase (1568 nt)	-15.9679	-1.37957	0.387335
PITG_02528	Pi elongator complex protein, putative (2055 nt)	-16.1366	1.221225	0.387388
PITG_17893	Pi conserved hypothetical protein (2310 nt)	-16.1762	-1.25634	0.387388
PITG_12997	Pi Major Facilitator Superfamily (MFS) (1509 nt)	-16.364	-1.42201	0.387428
PITG_22626	Pi conserved hypothetical protein (808 nt)	-16.364	-1.42201	0.387428
PITG_18655	Pi conserved hypothetical protein (1374 nt)	-14.5269	0.880642	0.387567
PITG_08516	Pi alcohol dehydrogenase, putative (1689 nt)	-15.0721	-1.0174	0.387794
PITG_00051	Pi DNA-directed RNA polymerase III subunit RPC6, putative (	-15.4991	0.987233	0.387821
PITG_12677	Pi conserved hypothetical protein (2021 nt)	-15.5568	-1.08387	0.387821
PITG_18656	Pi conserved hypothetical protein (3802 nt)	-15.5568	-1.08387	0.387821
PITG_02113	Pi hypothetical protein (3721 nt)	-14.6835	0.986399	0.38792
PITG_00571	Pi bifunctional purine biosynthesis protein PURH, putative (1	-14.8624	0.948882	0.387999
PITG_18364	Pi inositol oxygenase (885 nt)	-14.1601	0.926169	0.388432
PITG_13019	Pi conserved hypothetical protein (1151 nt)	-17.144	-1.74845	0.388897
PITG_09272	Pi hypothetical protein (472 nt)	-15.6644	-1.23219	0.389183
PITG_03492	Pi exportin-2-like protein (3093 nt)	-15.4756	-1.08707	0.389191
PITG_06486	Pi hypothetical protein (821 nt)	-15.3471	-1.1855	0.389861
PITG_05368	Pi conserved hypothetical protein (1023 nt)	-14.8773	-0.91342	0.389987
PITG_18070	Pi phospholipase, putative (3302 nt)	-15.7898	-1.03964	0.390031
PITG_01064	Pi conserved hypothetical protein (955 nt)	-11.3311	-0.94356	0.390039
PITG_01287	Pi conserved hypothetical protein (726 nt)	-12.7983	0.885991	0.390203
PITG_05975	Pi conserved hypothetical protein (1753 nt)	-14.5866	-0.99945	0.390271
PITG_21187	Pi myoferlin-like protein (6294 nt)	-14.3266	0.919474	0.390301
PITG_02989	Pi conserved hypothetical protein (1691 nt)	-17.0974	-1.84084	0.390302
PITG_10310	Pi myb-like DNA-binding protein, putative (699 nt)	-17.0974	-1.84084	0.390302
PITG_11498	Pi conserved hypothetical protein (888 nt)	-17.0974	-1.84084	0.390302

PITG_19432	Pi Amino Acid/Auxin Permease (AAP) Family (1455 nt)	-16.9187	-1.29629	0.390302
PITG_19841	Pi conserved hypothetical protein (911 nt)	-17.0974	-1.84084	0.390302
PITG_00237	Pi 2OG-Fe(II) oxygenase superfamily protein (1345 nt)	-15.9829	-1.01248	0.39032
PITG_07707	Pi conserved hypothetical protein (1962 nt)	-15.9554	-1.06752	0.39032
PITG_06615	Pi H - or Na -translocating F-type, V-type and A-type ATPase	-12.7674	0.896276	0.390364
PITG_17895	Pi conserved hypothetical protein (2092 nt)	-16.4456	-1.26154	0.390379
PITG_12159	Pi Annexin (Annexin) Family (1310 nt)	-15.3928	-1.14	0.390512
PITG_15476	Pi malate dehydrogenase (1245 nt)	-11.0746	-0.88158	0.390638
PITG_19595	Pi hypothetical protein (412 nt)	-10.5609	0.834822	0.39067
PITG_16972	Pi conserved hypothetical protein (2086 nt)	-16.125	-1.29237	0.390757
PITG_03449	Pi conserved hypothetical protein (372 nt)	-13.6941	-0.89898	0.39104
PITG_01222	Pi Drug/Metabolite Transporter (DMT) Superfamily (1416 nt)	-14.336	-1.09677	0.391217
PITG_01982	Pi conserved hypothetical protein (2435 nt)	-12.8611	0.85165	0.391543
PITG_04698	Pi arginine biosynthesis bifunctional protein argJ, putative (1	-12.9228	-0.90995	0.391769
PITG_01389	Pi proteasome subunit beta type-5, putative (867 nt)	-12.1903	0.864633	0.39179
PITG_08119	Pi oxidoreductase htatip2 (1434 nt)	-12.2385	-0.83778	0.391846
PITG_07988	Pi sulfatase-like protein (2735 nt)	-16.4718	-1.28391	0.391924
PITG_03630	Pi conserved hypothetical protein (1908 nt)	-15.9139	1.157387	0.39201
PITG_15806	Pi conserved hypothetical protein (1643 nt)	-15.945	-1.15163	0.39201
PITG_17840	Pi protein kinase, putative (1829 nt)	-15.9636	-1.17816	0.39201
PITG_19127	Pi conserved hypothetical protein (1513 nt)	-16.1727	-1.26438	0.392272
PITG_11369	Pi conserved hypothetical protein (2107 nt)	-15.3975	-1.08255	0.392372
PITG_21723	Pi ATP-binding Cassette (ABC) Superfamily (3223 nt)	-15.9309	-1.1147	0.392449
PITG_08330	Pi conserved hypothetical protein (463 nt)	-13.2826	0.87392	0.392505
PITG_14851	Pi hypothetical protein (400 nt)	-15.0472	0.8975	0.392532
PITG_20382	Pi conserved hypothetical protein (492 nt)	-13.1753	-0.96526	0.392833
PITG_01970	Pi enoyl-[acyl-carrier-protein] reductase [NADH], putative (1.	-14.9857	-0.96336	0.392855
PITG_00592	Pi hypothetical protein (698 nt)	-11.3929	-0.83309	0.392928
PITG_19551	Pi conserved hypothetical protein (1351 nt)	-14.3032	0.895713	0.39322
PITG_02039	Pi EF-1 guanine nucleotide exchange domain-containing prot	-11.4617	0.825904	0.393227
PITG_21595	Pi conserved hypothetical protein (1718 nt)	-16.4645	-1.29882	0.393468
PITG_07702	Pi UDP-N-acetylglucosamine-peptide N-acetylglucosaminyltr	-14.8279	-1.14285	0.3935
PITG_01523	Pi Zinc (Zn <sup>2+</sup> )-Iron (Fe <sup>2+</sup> ) Permease (ZIP) Family (1029 nt)	-15.8402	-1.23345	0.393508
PITG_07922	Pi hypothetical protein (478 nt)	-16.4245	1.62005	0.393787
PITG_02055	Pi conserved hypothetical protein (1756 nt)	-16.213	-1.11488	0.393897
PITG_04628	Pi conserved hypothetical protein (1167 nt)	-16.1126	1.092176	0.393897
PITG_04552	Pi conserved hypothetical protein (991 nt)	-14.6983	-0.90552	0.39393
PITG_00723	Pi conserved hypothetical protein (465 nt)	-15.416	-1.09429	0.394228
PITG_13167	Pi conserved hypothetical protein (1874 nt)	-15.3925	-1.14129	0.394228
PITG_15134	Pi conserved hypothetical protein (865 nt)	-12.7586	0.865499	0.394287
PITG_16098	Pi D-isomer specific 2-hydroxyacid dehydrogenase, putative	-14.6142	0.879617	0.394527
PITG_13168	Pi conserved hypothetical protein (12990 nt)	-15.0318	-1.09465	0.394607
PITG_00921	Pi phospholipase D, Pi-PLD-like-1 (1823 nt)	-11.5001	-0.99531	0.395167
PITG_19405	Pi conserved hypothetical protein (712 nt)	-15.8174	-1.27874	0.395243
PITG_07903	Pi 26S proteasome non-ATPase regulatory subunit, putative	-13.3695	0.904901	0.395381
PITG_09992	Pi conserved hypothetical protein (1949 nt)	-13.9162	-0.96971	0.395514
PITG_09089	Pi exportin-6-like protein (3714 nt)	-16.1958	-1.07963	0.39552

PITG_09547	Pi conserved hypothetical protein (920 nt)	-10.3832	0.835128	0.395553
PITG_22394	Pi conserved hypothetical protein (1648 nt)	-15.9236	-1.19835	0.395852
PITG_16353	Pi conserved hypothetical protein (954 nt)	-14.2172	0.883087	0.396009
PITG_15358	Pi calreticulin precursor (1415 nt)	-10.0702	-0.82089	0.396088
PITG_14363	Pi conserved hypothetical protein (389 nt)	-13.7566	0.963098	0.396367
PITG_00793	Pi hypothetical protein (3031 nt)	-14.4066	-1.01622	0.396583
PITG_09721	Pi conserved hypothetical protein (1031 nt)	-12.465	-0.84319	0.396643
PITG_21196	Pi hypothetical protein (397 nt)	-14.9723	0.994218	0.396774
PITG_03115	Pi conserved hypothetical protein (1210 nt)	-13.8988	-0.92423	0.397009
PITG_07211	Pi conserved hypothetical protein (1127 nt)	-15.1665	-0.95394	0.397011
PITG_03942	Pi plectin-like protein (4600 nt)	-15.3847	-1.11091	0.397213
PITG_01063	Pi conserved hypothetical protein (4588 nt)	-15.2244	1.14454	0.397518
PITG_06426	Pi conserved hypothetical protein (1035 nt)	-15.7109	-1.1388	0.397533
PITG_14637	Pi conserved hypothetical protein (2003 nt)	-14.0711	-0.89472	0.398211
PITG_10972	Pi thioredoxin-like protein (1089 nt)	-11.2433	0.823759	0.398285
PITG_14179	Pi glutamine synthetase (841 nt)	-10.9333	0.939518	0.398521
PITG_05254	Pi conserved hypothetical protein (765 nt)	-14.9417	0.872474	0.398726
PITG_02564	Pi exosome complex exonuclease RRP6-like protein (4806 nt)	-15.167	-0.95297	0.398932
PITG_14000	Pi conserved hypothetical protein (1313 nt)	-14.1776	0.890471	0.399191
PITG_00980	Pi nuclear cap-binding protein subunit, putative (2845 nt)	-14.6949	0.885635	0.399248
PITG_13991	Pi nicotinate phosphoribosyltransferase, putative (1834 nt)	-15.0656	-1.11452	0.399307
PITG_02439	Pi conserved hypothetical protein (2130 nt)	-16.469	-1.21413	0.399634
PITG_18057	Pi conserved hypothetical protein (1127 nt)	-16.469	-1.21413	0.399634
PITG_06388	Pi conserved hypothetical protein (857 nt)	-13.4316	0.866135	0.400248
PITG_02822	Pi conserved hypothetical protein (772 nt)	-15.0609	0.973237	0.400296
PITG_17492	Pi hypothetical protein (2466 nt)	-16.2003	-1.21103	0.40038
PITG_13039	Pi conserved hypothetical protein (1839 nt)	-15.9626	-1.18215	0.400428
PITG_16037	Pi conserved hypothetical protein (393 nt)	-15.925	1.141382	0.400428
PITG_22874	Pi Crinkler (CRN) family protein, pseudogene (2555 nt)	-16.5877	-1.15317	0.4007
PITG_00065	Pi conserved hypothetical protein (2385 nt)	-15.6503	1.096273	0.401093
PITG_21178	Pi conserved hypothetical protein (2751 nt)	-15.6424	1.112044	0.401093
PITG_18321	Pi conserved hypothetical protein (873 nt)	-15.7172	1.191296	0.401106
PITG_17690	Pi conserved hypothetical protein (2438 nt)	-14.379	-0.87102	0.401115
PITG_00209	Pi Major Facilitator Superfamily (MFS) (1943 nt)	-14.0142	-0.87421	0.401143
PITG_11492	Pi conserved hypothetical protein (795 nt)	-16.4329	-1.28635	0.401172
PITG_20731	Pi conserved hypothetical protein (4509 nt)	-16.4329	-1.28635	0.401172
PITG_06111	Pi conserved hypothetical protein (409 nt)	-13.128	0.852312	0.401175
PITG_07955	Pi xaa-Pro dipeptidase, metalloprotease family M24B, putative	-13.2641	0.821898	0.401252
PITG_12744	Pi caltractin-like protein (891 nt)	-13.3121	0.937854	0.401451
PITG_03778	Pi Poly(A) polymerase, putative (2233 nt)	-14.7877	-0.93952	0.401586
PITG_09800	Pi conserved hypothetical protein (1120 nt)	-15.4588	-1.1179	0.401838
PITG_16798	Pi phospholipase D; Pi-TM-PLD (2713 nt)	-14.1252	-0.9003	0.401985
PITG_08095	Pi conserved hypothetical protein (1345 nt)	-16.1707	-1.2706	0.401997
PITG_02722	Pi conserved hypothetical protein (769 nt)	-14.0614	0.884697	0.402489
PITG_22946	Pi acyl-protein thioesterase, putative (903 nt)	-12.7908	0.823724	0.402563
PITG_05377	Pi methylenetetrahydrofolate reductase, putative (1776 nt)	-14.968	0.971201	0.402614
PITG_14994	Pi conserved hypothetical protein (821 nt)	-15.1788	1.014306	0.402758

PITG_19234	Pi choline/Carnitine O-acyltransferase, putative (2593 nt)	-14.0606	-0.93593	0.40286
PITG_10140	Pi Mitochondrial Carrier (MC) Family (1097 nt)	-15.0993	0.978444	0.403121
PITG_01504	Pi protein phosphatase PP2A regulatory subunit B (2342 nt)	-13.7784	0.886174	0.403231
PITG_16332	Pi conserved hypothetical protein (585 nt)	-14.7725	-0.97039	0.403548
PITG_02858	Pi L-allo-threonine aldolase (1256 nt)	-16.2474	1.359737	0.403613
PITG_20800	Pi conserved hypothetical protein (1264 nt)	-13.9298	0.873906	0.403979
PITG_03435	Pi conserved hypothetical protein (1046 nt)	-14.4338	-0.99636	0.404056
PITG_01041	Pi 60S acidic ribosomal protein P2, putative (558 nt)	-9.73318	0.826683	0.404163
PITG_07311	Pi DEAD/DEAH box RNA helicase, putative (2446 nt)	-16.8333	-1.3609	0.404226
PITG_03892	Pi conserved hypothetical protein (2067 nt)	-16.4528	-1.3243	0.404246
PITG_06642	Pi conserved hypothetical protein (1129 nt)	-16.4528	-1.3243	0.404246
PITG_09672	Pi cytidyltransferase (1352 nt)	-16.4544	-1.32111	0.404246
PITG_13719	Pi DNA excision repair protein ERCC-1 (946 nt)	-16.4528	-1.3243	0.404246
PITG_21531	Pi carbohydrate-binding protein, putative (1688 nt)	-15.9186	-1.28002	0.404341
PITG_03601	Pi inosine triphosphate pyrophosphatase (576 nt)	-15.1849	-0.91761	0.404663
PITG_04487	Pi conserved hypothetical protein (596 nt)	-11.7707	0.79962	0.404807
PITG_11305	Pi hypothetical protein (755 nt)	-15.1739	1.110763	0.404897
PITG_01159	Pi conserved hypothetical protein (720 nt)	-15.0299	1.015694	0.405006
PITG_00382	Pi hypothetical protein (756 nt)	-16.2001	-1.28428	0.405227
PITG_20521	Pi hypothetical protein (351 nt)	-15.3456	0.891968	0.405283
PITG_19846	Pi conserved hypothetical protein (2183 nt)	-14.5282	-0.92462	0.405563
PITG_00231	Pi eyes absent family protein (2157 nt)	-16.7978	-1.43212	0.405656
PITG_03400	Pi crinkler (CRN) family protein, putative (1950 nt)	-16.8212	-1.38525	0.405656
PITG_05869	Pi conserved hypothetical protein (2379 nt)	-16.7763	-1.47522	0.405656
PITG_06551	Pi conserved hypothetical protein (1907 nt)	-16.8212	-1.38525	0.405656
PITG_06755	Pi acyl-CoA dehydrogenase/oxidase (2491 nt)	-16.7763	-1.47522	0.405656
PITG_07889	Pi conserved hypothetical protein (1200 nt)	-16.7763	-1.47522	0.405656
PITG_06558	Pi conserved hypothetical protein (1380 nt)	-14.2971	0.907225	0.405659
PITG_01641	Pi serine protease family S54, putative (858 nt)	-15.6937	-1.11722	0.406406
PITG_09728	Pi exosome complex exonuclease RRP4 (1584 nt)	-14.5905	0.954378	0.406452
PITG_19950	Pi conserved hypothetical protein (435 nt)	-14.0737	-0.91265	0.406736
PITG_02430	Pi conserved hypothetical protein (1829 nt)	-16.1967	-1.29176	0.406839
PITG_03180	Pi dynein heavy chain (13683 nt)	-16.1071	1.201437	0.406839
PITG_11976	Pi UDP-3-O-[3-hydroxymyristoyl] N-acetylglucosamine deace	-16.2019	-1.20941	0.406839
PITG_10050	Pi alpha-N-acetylglucosaminidase (NAGLU), putative (2349 n	-15.5679	1.02821	0.406882
PITG_01236	Pi conserved hypothetical protein (927 nt)	-16.755	-1.43213	0.407086
PITG_06501	Pi conserved hypothetical protein (882 nt)	-16.755	-1.43213	0.407086
PITG_14730	Pi nucleolar protein, putative (2642 nt)	-16.7999	-1.3422	0.407086
PITG_00971	Pi hypothetical protein (249 nt)	-15.9452	-1.15257	0.407127
PITG_07192	Pi conserved hypothetical protein (4665 nt)	-15.9452	-1.15257	0.407127
PITG_13836	Pi cleavage induced predicted protein (2174 nt)	-16.414	-1.2449	0.407316
PITG_17166	Pi conserved hypothetical protein (1020 nt)	-14.6772	-1.0285	0.40758
PITG_12593	Pi conserved hypothetical protein (766 nt)	-13.5236	-0.85419	0.40778
PITG_00495	Pi fat-free family protein (2988 nt)	-15.5401	-1.06566	0.407815
PITG_12327	Pi conserved hypothetical protein (1781 nt)	-12.845	0.836752	0.407857
PITG_08709	Pi conserved hypothetical protein (782 nt)	-13.2065	0.841119	0.408022
PITG_04718	Pi protein pelota (1472 nt)	-15.2937	-1.00192	0.408199

PITG_17919	Pi P-type ATPase (P-ATPase) Superfamily (1797 nt)	-13.9526	-1.00757	0.408233
PITG_06205	Pi ATP-binding Cassette (ABC) Superfamily (6175 nt)	-14.9263	0.883798	0.408407
PITG_12177	Pi hypothetical protein (501 nt)	-14.8025	0.937663	0.408443
PITG_06508	Pi conserved hypothetical protein (4042 nt)	-16.1178	1.181952	0.40845
PITG_21364	Pi conserved hypothetical protein (1826 nt)	-16.1178	1.181952	0.40845
PITG_10856	Pi conserved hypothetical protein (1031 nt)	-16.1802	-1.18106	0.40845
PITG_06827	Pi DEAD/DEAH box RNA helicase, putative (2046 nt)	-14.9002	-0.95978	0.408465
PITG_22961	Pi conserved hypothetical protein (657 nt)	-16.8243	-1.29306	0.408515
PITG_00048	Pi conserved hypothetical protein (1230 nt)	-15.8493	-0.91777	0.40877
PITG_13362	Pi microtubule-associated protein, putative (7408 nt)	-15.9046	1.125531	0.408797
PITG_03477	Pi 60S ribosomal protein L7a-2 (1307 nt)	-9.52575	0.81997	0.409341
PITG_21596	Pi actin-related protein 2/3 complex subunit, putative (1816	-13.4877	-0.83816	0.409558
PITG_02185	Pi conserved hypothetical protein (1272 nt)	-15.621	0.972954	0.409932
PITG_04916	Pi conserved hypothetical protein (2175 nt)	-16.8106	-1.40709	0.409944
PITG_17249	Pi Chloride Channel (ClC) Family (2160 nt)	-16.8106	-1.40709	0.409944
PITG_17660	Pi Amino Acid-Polyamine-Organocation (APC) Family (1586 r	-16.8106	-1.40709	0.409944
PITG_11233	Pi conserved hypothetical protein (543 nt)	-14.6746	-0.9629	0.409957
PITG_12169	Pi polycomb-like protein (4401 nt)	-16.1131	0.937203	0.41006
PITG_17426	Pi conserved hypothetical protein (2090 nt)	-16.2117	-1.26294	0.41006
PITG_21518	Pi conserved hypothetical protein (752 nt)	-16.2117	-1.26294	0.41006
PITG_10514	Pi kinesin-like protein (1702 nt)	-14.8539	-1.05193	0.410356
PITG_06880	Pi mitogen-activated protein kinase kinase kinase, putative (	-15.8895	0.941656	0.410466
PITG_18859	Pi cGMP-dependent 3',5'-cGMP phosphodiesterase, putative	-15.8895	0.941656	0.410466
PITG_00207	Pi conserved hypothetical protein (1220 nt)	-15.7987	1.000136	0.410488
PITG_00687	Pi serine protease family S09X, putative (1631 nt)	-15.846	-0.9246	0.410488
PITG_02576	Pi protein phosphatase 2C, putative (1267 nt)	-15.823	1.013666	0.410488
PITG_08439	Pi conserved hypothetical protein (821 nt)	-15.79	1.01761	0.410488
PITG_10481	Pi conserved hypothetical protein (2053 nt)	-15.898	-1.12231	0.410488
PITG_19224	Pi conserved hypothetical protein (668 nt)	-15.7987	1.000136	0.410488
PITG_08235	Pi conserved hypothetical protein (1784 nt)	-14.5689	0.880894	0.410513
PITG_00279	Pi ubiquitin carboxyl-terminal hydrolase, putative (4051 nt)	-12.7216	-0.82018	0.410898
PITG_06731	Pi H -translocating Pyrophosphatase (H -PPase) Family (2404	-12.8938	-0.84705	0.411056
PITG_01514	Pi protoporphyrinogen oxidase, putative (3680 nt)	-14.9824	0.92774	0.411295
PITG_10891	Pi inositol transporter, putative (1586 nt)	-16.789	-1.36308	0.411372
PITG_03323	Pi integrator complex subunit, putative (2087 nt)	-16.7673	-1.4937	0.411372
PITG_08745	Pi conserved hypothetical protein (558 nt)	-13.6897	-0.82932	0.411853
PITG_15141	Pi conserved hypothetical protein (2175 nt)	-16.4643	-1.22295	0.411913
PITG_03409	Pi serine protease family S10, putative (1713 nt)	-15.2967	-0.95162	0.411939
PITG_07778	Pi conserved hypothetical protein (2697 nt)	-14.0999	-0.97123	0.412296
PITG_05539	Pi carbon-nitrogen hydrolase, putative (1105 nt)	-13.3511	0.85702	0.412381
PITG_13771	Pi conserved hypothetical protein (1194 nt)	-14.8895	1.015694	0.412388
PITG_00852	Pi conserved hypothetical protein (734 nt)	-15.1514	-0.98647	0.412469
PITG_05506	Pi conserved hypothetical protein (747 nt)	-14.5719	0.88094	0.412533
PITG_07543	Pi hypothetical protein (728 nt)	-14.3232	-0.84916	0.412567
PITG_13255	Pi conserved hypothetical protein (3044 nt)	-16.7457	-1.44944	0.4128
PITG_04627	Pi myosin-like protein (1315 nt)	-14.6938	0.877806	0.413185
PITG_13048	Pi secreted RxLR effector peptide, putative (756 nt)	-14.9898	-0.85406	0.413241

PITG_12285	Pi polypyrimidine tract-binding protein, putative (2360 nt)	-16.1296	1.163811	0.413275
PITG_20795	Pi ribosomal protein (659 nt)	-8.63457	0.831556	0.413331
PITG_00031	Pi conserved hypothetical protein (882 nt)	-16.429	-1.29346	0.413444
PITG_18649	Pi SUMO protease, putative (666 nt)	-16.429	-1.29346	0.413444
PITG_02433	Pi conserved hypothetical protein (1312 nt)	-15.065	-1.00326	0.413687
PITG_05281	Pi hypothetical protein (841 nt)	-15.2889	1.081914	0.413801
PITG_03311	Pi regulator of chromosome condensation (RCC1)-like protei	-15.8823	-1.21425	0.413915
PITG_03876	Pi U3 small nucleolar RNA-interacting protein, putative (1416	-15.8483	1.099159	0.413915
PITG_07281	Pi conserved hypothetical protein (2508 nt)	-15.8431	-0.93087	0.413915
PITG_07829	Pi exosome complex exonuclease RRP43, putative (1147 nt)	-14.4511	0.889215	0.41408
PITG_08326	Pi DNA polymerase alpha catalytic subunit, putative (4927 nt)	-15.1692	0.970726	0.414115
PITG_06351	Pi U2 snRNP component IST3 (813 nt)	-14.8904	0.892953	0.414341
PITG_17747	Pi H - or Na -translocating F-type, V-type and A-type ATPase	-12.4742	0.80319	0.414502
PITG_00014	Pi 26S proteasome non-ATPase regulatory subunit 13, putati	-12.614	0.797508	0.414526
PITG_04596	Pi hypothetical protein (3211 nt)	-14.5873	-0.92776	0.414547
PITG_19526	Pi secreted RxLR effector peptide, putative (378 nt)	-16.1702	-1.27459	0.41488
PITG_01683	Pi conserved hypothetical protein (3889 nt)	-15.4376	-1.00145	0.414952
PITG_03033	Pi conserved hypothetical protein (519 nt)	-11.0137	0.797502	0.415024
PITG_17897	Pi protein kinase, putative (2910 nt)	-14.9757	-0.88239	0.415182
PITG_20548	Pi conserved hypothetical protein (1859 nt)	-15.671	-1.16171	0.415195
PITG_20216	Pi hypothetical protein (533 nt)	-14.5518	-1.0693	0.415447
PITG_00215	Pi calmodulin-binding transcription activator, putative (3470	-15.3031	-1.02892	0.415659
PITG_12259	Pi lysosomal Pro-X carboxypeptidase, putative (1629 nt)	-15.2852	-0.93037	0.415659
PITG_10383	Pi conserved hypothetical protein (1023 nt)	-14.1268	-0.87363	0.4157
PITG_20160	Pi conserved hypothetical protein (2291 nt)	-15.7538	1.022686	0.41589
PITG_03801	Pi conserved hypothetical protein (1398 nt)	-14.4617	-0.8776	0.416131
PITG_13751	Pi conserved hypothetical protein (920 nt)	-14.4409	0.835025	0.416131
PITG_05125	Pi hypothetical protein (632 nt)	-11.295	-1.00537	0.416282
PITG_19123	Pi conserved hypothetical protein (1327 nt)	-16.3936	1.366542	0.416501
PITG_08711	Pi hsp90-like protein (1250 nt)	-12.6956	-0.84252	0.416649
PITG_17093	Pi 60S ribosomal protein L24, putative (1177 nt)	-9.14821	0.773079	0.41676
PITG_06589	Pi conserved hypothetical protein (1167 nt)	-14.3839	0.874021	0.417184
PITG_15496	Pi acyl-CoA synthetase, putative (1889 nt)	-14.3752	0.820903	0.417184
PITG_07173	Pi 40S ribosomal protein S15 (870 nt)	-9.04464	0.772659	0.417276
PITG_19247	Pi atlastin-like protein (2044 nt)	-14.4376	-0.8965	0.41735
PITG_02750	Pi NAD kinase, putative (1884 nt)	-15.0453	-0.96227	0.417468
PITG_19005	Pi conserved hypothetical protein (2137 nt)	-14.5244	0.910646	0.417683
PITG_20087	Pi conserved hypothetical protein (729 nt)	-14.5358	-0.90959	0.417683
PITG_03789	Pi conserved hypothetical protein (7113 nt)	-16.4451	-1.17972	0.418029
PITG_21573	Pi conserved hypothetical protein (441 nt)	-16.4451	-1.17972	0.418029
PITG_20174	Pi carbohydrate-binding protein, putative (1564 nt)	-15.281	-1.11772	0.418529
PITG_18207	Pi conserved hypothetical protein (3419 nt)	-15.388	0.8246	0.418613
PITG_12694	Pi protein transport protein SEC13 (1324 nt)	-13.221	-0.82209	0.418748
PITG_00160	Pi conserved hypothetical protein (8298 nt)	-15.9848	0.918284	0.41878
PITG_03322	Pi prolyl-tRNA synthetase, putative (1936 nt)	-16.043	-0.95372	0.41878
PITG_07916	Pi protein kinase, putative (1779 nt)	-16.023	-0.9333	0.41878
PITG_17404	Pi guanine nucleotide-binding protein (2549 nt)	-15.0833	0.94562	0.41902

PITG_13283	Pi ATP-binding Cassette (ABC) superfamily (897 nt)	-15.8373	-1.00021	0.419033
PITG_11728	Pi eukaryotic translation initiation factor 2-alpha kinase, putative (1740 nt)	-15.3079	-0.97467	0.41936
PITG_02600	Pi hypothetical protein (549 nt)	-12.9465	-0.81783	0.419405
PITG_15609	Pi conserved hypothetical protein (544 nt)	-13.4541	0.865322	0.419685
PITG_14440	Pi conserved hypothetical protein (651 nt)	-13.8607	0.820477	0.419785
PITG_20173	Pi NADH ubiquinone oxidoreductase subunit, putative (1740 nt)	-11.4795	0.780601	0.419909
PITG_21941	Pi alpha-1,2 glucosyltransferase alg-10 (995 nt)	-15.5342	-1.13079	0.420311
PITG_10004	Pi selenoprotein W-related family, putative (695 nt)	-16.016	1.019644	0.420429
PITG_13846	Pi WD repeat protein 39 (1095 nt)	-16.0081	-1.0237	0.420429
PITG_03505	Pi conserved hypothetical protein (3356 nt)	-15.4355	-1.00602	0.420436
PITG_06001	Pi ATP-binding Cassette (ABC) superfamily (1444 nt)	-15.4509	-1.02315	0.420436
PITG_08599	Pi thimet oligopeptidase (2500 nt)	-14.6486	-0.97977	0.42045
PITG_17952	Pi Major Facilitator Superfamily (MFS) (2148 nt)	-13.8963	-0.84656	0.420453
PITG_12973	Pi conserved hypothetical protein (2173 nt)	-13.1609	0.820938	0.4205
PITG_03098	Pi carbamoyl-phosphate synthase [ammonia], putative (4536 nt)	-13.5475	0.942948	0.420698
PITG_18776	Pi cytochrome c1, mitochondrial precursor (1368 nt)	-11.1783	0.770573	0.420787
PITG_10595	Pi delta-1-pyrroline-5-carboxylate reductase, putative (1564 nt)	-14.8322	0.905269	0.421066
PITG_11890	Pi putative GPI-anchored serine-threonine rich hypothetical protein (1776 nt)	-14.4142	0.882658	0.421354
PITG_01368	Pi transmembrane protein, putative (1776 nt)	-16.7607	-1.50807	0.421358
PITG_08724	Pi conserved hypothetical protein (792 nt)	-16.7802	-1.37838	0.421358
PITG_10420	Pi conserved hypothetical protein (6036 nt)	-16.7607	-1.50807	0.421358
PITG_20109	Pi Voltage-gated Ion Channel (VIC) Superfamily (4534 nt)	-16.7802	-1.37838	0.421358
PITG_17779	Pi conserved hypothetical protein (1524 nt)	-14.5137	0.836447	0.421749
PITG_03491	Pi myosin-like protein (2468 nt)	-16.0336	-0.9727	0.422075
PITG_10250	Pi conserved hypothetical protein (2117 nt)	-16.0336	-0.9727	0.422075
PITG_11186	Pi conserved hypothetical protein (2283 nt)	-16.0259	1.000369	0.422075
PITG_13440	Pi conserved hypothetical protein (1376 nt)	-16.0336	-0.9727	0.422075
PITG_13276	Pi conserved hypothetical protein (1167 nt)	-17.2046	-1.7492	0.422223
PITG_02791	Pi conserved hypothetical protein (817 nt)	-15.4488	-1.02775	0.422255
PITG_05732	Pi hypothetical protein (619 nt)	-15.4305	-1.06427	0.422255
PITG_00501	Pi conserved hypothetical protein (2340 nt)	-15.8459	-0.98399	0.422429
PITG_02192	Pi glutathione peroxidase 2 (1037 nt)	-14.1801	-0.81389	0.422611
PITG_05446	Pi pyridoxal-dependent decarboxylase, putative (3752 nt)	-16.7383	-1.46196	0.422783
PITG_08663	Pi plectin-like protein (3035 nt)	-14.9684	0.941472	0.422884
PITG_02047	Pi conserved hypothetical protein (1553 nt)	-14.7122	0.947725	0.422962
PITG_08048	Pi conserved hypothetical protein (1083 nt)	-14.8179	0.834624	0.423038
PITG_19044	Pi conserved hypothetical protein (1583 nt)	-15.2789	-0.98766	0.423043
PITG_01285	Pi transmembrane protein, putative (1246 nt)	-12.989	-0.78682	0.423131
PITG_06343	Pi N-terminal acetyltransferase complex ARD1 subunit (1225 nt)	-13.8532	0.827314	0.423853
PITG_05818	Pi conserved hypothetical protein (2265 nt)	-14.6072	-0.82621	0.423935
PITG_00505	Pi ubiquitin-conjugating enzyme E2, putative (444 nt)	-9.57849	-0.7768	0.424007
PITG_07237	Pi cell division cycle protein 20 (1675 nt)	-15.89	-1.13566	0.424123
PITG_15630	Pi conserved hypothetical protein (558 nt)	-13.4428	-0.82388	0.424211
PITG_02493	Pi eukaryotic translation initiation factor 1b, putative (881 nt)	-10.6149	-0.82636	0.424651
PITG_06262	Pi U3 small nucleolar ribonucleoprotein protein IMP3 (555 nt)	-15.0876	0.976829	0.424737
PITG_02783	Pi multiple inositol polyphosphate phosphatase 1, putative (1467 nt)	-17.2438	-1.67055	0.424789
PITG_05993	Pi conserved hypothetical protein (1467 nt)	-17.2438	-1.67055	0.424789



PITG_06614	Pi conserved hypothetical protein (1416 nt)	-17.2438	-1.67055	0.424789
PITG_15570	Pi hypothetical protein (1060 nt)	-17.1895	-1.77914	0.424789
PITG_15847	Pi conserved hypothetical protein (2463 nt)	-17.2438	-1.67055	0.424789
PITG_23286	Pi crinkler (CRN) domain, pseudogene (2170 nt)	-17.1895	-1.77914	0.424789
PITG_17753	Pi NADP-dependent malic enzyme (1617 nt)	-14.3108	0.815543	0.424804
PITG_20679	Pi conserved hypothetical protein (498 nt)	-12.0442	0.97191	0.425154
PITG_09782	Pi palmitoyltransferase, putative (2295 nt)	-15.5652	-1.01632	0.425161
PITG_14390	Pi conserved hypothetical protein (799 nt)	-15.3276	0.937949	0.425198
PITG_14014	Pi ATP-binding Cassette (ABC) Superfamily (4015 nt)	-14.9465	0.947447	0.425517
PITG_04059	Pi conserved hypothetical protein (1231 nt)	-16.6804	-0.9516	0.425631
PITG_11907	Pi diphthine synthase (933 nt)	-15.6885	-1.00985	0.425632
PITG_18756	Pi conserved hypothetical protein (919 nt)	-15.6707	-1.16123	0.425632
PITG_17393	Pi conserved hypothetical protein (564 nt)	-14.8262	-1.06418	0.425794
PITG_18928	Pi conserved hypothetical protein (926 nt)	-12.8433	0.819657	0.426133
PITG_19282	Pi conserved hypothetical protein (926 nt)	-12.0721	0.792107	0.42622
PITG_11653	Pi conserved hypothetical protein (4177 nt)	-14.5413	0.935493	0.426236
PITG_03743	Pi conserved hypothetical protein (1129 nt)	-14.9565	1.137176	0.426279
PITG_10263	Pi 60S ribosomal protein L37a, putative (825 nt)	-8.12735	0.767393	0.426315
PITG_00402	Pi conserved hypothetical protein (1268 nt)	-13.966	0.85869	0.426496
PITG_10796	Pi conserved hypothetical protein (1721 nt)	-14.5075	-0.96504	0.426596
PITG_04564	Pi conserved hypothetical protein (4350 nt)	-15.0002	-0.93369	0.426701
PITG_01679	Pi conserved hypothetical protein (1438 nt)	-14.8245	-0.91333	0.426961
PITG_21012	Pi conserved hypothetical protein (931 nt)	-13.7875	-0.80546	0.427109
PITG_09224	Pi secreted RxLR effector peptide, putative (420 nt)	-14.0674	0.817309	0.428036
PITG_17012	Pi conserved hypothetical protein (8696 nt)	-13.1221	0.799925	0.428154
PITG_09423	Pi conserved hypothetical protein (1862 nt)	-15.0844	-0.92232	0.42852
PITG_02202	Pi conserved hypothetical protein (1111 nt)	-16.1034	-1.19717	0.428631
PITG_04902	Pi conserved hypothetical protein (1710 nt)	-16.001	-1.03873	0.428631
PITG_06698	Pi ATP-binding Cassette (ABC) Superfamily (2863 nt)	-16.001	-1.03873	0.428631
PITG_13176	Pi diaminopimelate decarboxylase, putative (1249 nt)	-15.9405	1.073591	0.4287
PITG_01614	Pi carbon catabolite repressor protein, putative (4923 nt)	-14.8333	-0.93062	0.428913
PITG_09874	Pi conserved hypothetical protein (1292 nt)	-14.8139	0.931589	0.428913
PITG_03011	Pi F-box protein, putative (4337 nt)	-15.8396	-0.93989	0.429186
PITG_01860	Pi transmembrane protein, putative (2746 nt)	-15.8793	-1.21951	0.429186
PITG_10539	Pi conserved hypothetical protein (650 nt)	-15.0158	-0.96847	0.429278
PITG_00218	Pi ATP-binding Cassette (ABC) Superfamily (14365 nt)	-13.7062	-0.90021	0.429558
PITG_21988	Pi conserved hypothetical protein (1305 nt)	-15.4588	-1.13465	0.429761
PITG_15571	Pi Mitochondrial Carrier (MC) Family (1806 nt)	-15.2181	-0.85074	0.429775
PITG_00302	Pi phenylalanyl-tRNA synthetase beta chain (2017 nt)	-14.2447	0.826152	0.429878
PITG_05598	Pi conserved hypothetical protein (884 nt)	-14.7454	-0.81009	0.429942
PITG_09599	Pi 2OG-Fe(II) oxygenase superfamily protein (1014 nt)	-14.6122	0.830456	0.429951
PITG_02428	Pi 15-hydroxyprostaglandin dehydrogenase [NAD+], putative	-13.862	-0.85926	0.430211
PITG_19045	Pi conserved hypothetical protein (949 nt)	-15.1074	-1.03096	0.430403
PITG_08011	Pi pre-mRNA-splicing factor RSE1 (3594 nt)	-15.5835	-0.97946	0.43049
PITG_09640	Pi ATP phosphoribosyltransferase (974 nt)	-15.0056	-0.88346	0.430496
PITG_03420	Pi 50S ribosomal protein L13 (423 nt)	-13.0646	0.789374	0.43054
PITG_12877	Pi DNA-directed RNA polymerase I, II, and III subunit RPABC2	-13.1578	0.785977	0.430668

PITG_21146	Pi conserved hypothetical protein (1271 nt)	-14.8335	-0.93026	0.430858
PITG_04931	Pi conserved hypothetical protein (1322 nt)	-14.1	0.86942	0.431099
PITG_12266	Pi inositol-3,4-bisphosphate 4-phosphatase, putative (4696 r	-14.2285	-0.88524	0.43111
PITG_10311	Pi myb-like DNA-binding domain, putative (2590 nt)	-11.9802	0.821208	0.431168
PITG_02620	Pi conserved hypothetical protein (1545 nt)	-16.0053	0.877868	0.431894
PITG_02943	Pi palmitoyltransferase, putative (1033 nt)	-14.6047	-0.86199	0.431942
PITG_22646	Pi conserved hypothetical protein (498 nt)	-14.6009	0.834377	0.431942
PITG_17617	Pi TFIIH basal transcription factor complex helicase XPB subu	-14.4165	-0.91149	0.432218
PITG_03711	Pi serine/threonine-protein phosphatase 2A regulatory subu	-13.0986	-0.83101	0.432259
PITG_08038	Pi sporangia induced hypothetical protein (973 nt)	-15.0981	0.973366	0.43228
PITG_01006	Pi protein kinase, putative (1464 nt)	-14.9904	-0.85438	0.432385
PITG_21389	Pi conserved hypothetical protein (717 nt)	-13.9543	0.824737	0.432409
PITG_00204	Pi kinesin heavy chain, putative (3202 nt)	-17.2291	-1.69953	0.432494
PITG_02489	Pi conserved hypothetical protein (1975 nt)	-17.2291	-1.69953	0.432494
PITG_02800	Pi conserved hypothetical protein (3207 nt)	-17.2291	-1.69953	0.432494
PITG_04889	Pi conserved hypothetical protein (4476 nt)	-17.2291	-1.69953	0.432494
PITG_07226	Pi conserved hypothetical protein (4561 nt)	-17.2291	-1.69953	0.432494
PITG_08770	Pi conserved hypothetical protein (1674 nt)	-17.2291	-1.69953	0.432494
PITG_11188	Pi conserved hypothetical protein (1313 nt)	-17.2291	-1.69953	0.432494
PITG_14757	Pi conserved hypothetical protein (3006 nt)	-17.2291	-1.69953	0.432494
PITG_20265	Pi conserved hypothetical protein (3215 nt)	-17.2291	-1.69953	0.432494
PITG_07278	Pi protein kinase, putative (1325 nt)	-12.6882	0.773834	0.432535
PITG_22398	Pi conserved hypothetical protein (596 nt)	-13.9988	-0.88252	0.432543
PITG_08083	Pi conserved hypothetical protein (1055 nt)	-14.2229	-0.87353	0.433134
PITG_09512	Pi prohibitin-2 (1326 nt)	-11.438	0.754581	0.433286
PITG_13097	Pi conserved hypothetical protein (543 nt)	-13.5003	0.969124	0.433415
PITG_03422	Pi conserved hypothetical protein (587 nt)	-14.1582	-0.86459	0.433601
PITG_03975	Pi conserved hypothetical protein (1161 nt)	-16.2125	1.179254	0.433608
PITG_11111	Pi leucyl-tRNA synthetase, cytoplasmic, putative (3405 nt)	-14.6315	0.838005	0.43374
PITG_03614	Pi signal recognition particle receptor subunit alpha (2122 nt	-14.5034	0.851389	0.433771
PITG_13172	Pi GPI mannosyltransferase, putative (1365 nt)	-17.1775	-1.80272	0.433779
PITG_14579	Pi conserved hypothetical protein (3101 nt)	-17.1775	-1.80272	0.433779
PITG_13259	Pi conserved hypothetical protein (1083 nt)	-15.2642	0.898382	0.433982
PITG_06780	Pi conserved hypothetical protein (1753 nt)	-14.2407	-0.86158	0.433995
PITG_06912	Pi Amino Acid/Auxin Permease (AAP) Family (1493 nt)	-15.5495	-0.99593	0.434021
PITG_13273	Pi conserved hypothetical protein (3811 nt)	-15.3537	0.992442	0.434109
PITG_15248	Pi catalase (1694 nt)	-12.3248	0.788873	0.434138
PITG_19314	Pi replication factor C subunit 3 (1287 nt)	-13.6413	-0.80921	0.434408
PITG_15652	Pi H/ACA ribonucleoprotein complex subunit, putative (1546	-14.0383	0.819461	0.434842
PITG_22406	Pi conserved hypothetical protein (957 nt)	-11.2424	0.787176	0.434967
PITG_13839	Pi conserved hypothetical protein (511 nt)	-13.3961	-0.84865	0.435145
PITG_07952	Pi conserved hypothetical protein (1282 nt)	-16.6728	-0.97143	0.435589
PITG_12226	Pi Phosphatidylinositol kinase (PIK-L2) (7980 nt)	-16.1631	-1.13957	0.435622
PITG_00397	Pi eukaryotic translation initiation factor 3 subunit C, putativ	-14.648	0.890461	0.43568
PITG_07302	Pi histone acetyltransferase, putative (7584 nt)	-15.5822	-0.98181	0.435781
PITG_18632	Pi ATPase (1497 nt)	-15.574	-1.05012	0.435781
PITG_11293	Pi alcohol dehydrogenase, putative (1080 nt)	-13.1856	0.787139	0.435805

PITG_18973	Pi conserved hypothetical protein (3057 nt)	-15.1076	-1.03043	0.436019
PITG_08031	Pi conserved hypothetical protein (7775 nt)	-15.1806	-1.04662	0.436316
PITG_18414	Pi phosphoglucomutase (3392 nt)	-11.5568	0.889279	0.436385
PITG_15749	Pi conserved hypothetical protein (1287 nt)	-15.2594	1.06581	0.436619
PITG_18076	Pi phosphoglycerate mutase family (1280 nt)	-15.9644	1.055143	0.436768
PITG_19749	Pi conserved hypothetical protein (1337 nt)	-15.9987	-1.04407	0.436768
PITG_07054	Pi conserved hypothetical protein (837 nt)	-16.6283	-1.06114	0.43701
PITG_15996	Pi hypothetical protein (656 nt)	-14.1747	0.834518	0.437059
PITG_05847	Pi hypothetical protein (2153 nt)	-14.0274	0.910558	0.437542
PITG_04538	Pi splicing factor 3 subunit, putative (2042 nt)	-14.6443	-0.9199	0.437826
PITG_21887	Pi Major Facilitator Superfamily (MFS) (1489 nt)	-14.5923	0.835568	0.437872
PITG_17698	Pi conserved hypothetical protein (1168 nt)	-14.6109	-0.95588	0.438205
PITG_12158	Pi Annexin (Annexin) Family (1140 nt)	-11.6218	0.864211	0.438226
PITG_13829	Pi conserved hypothetical protein (809 nt)	-16.0921	-1.21659	0.438387
PITG_00590	Pi conserved hypothetical protein (3207 nt)	-15.7441	-1.01726	0.439146
PITG_12573	Pi conserved hypothetical protein (746 nt)	-15.6791	0.947705	0.439146
PITG_04156	Pi conserved hypothetical protein (1998 nt)	-16.4508	-1.33484	0.439317
PITG_13042	Pi conserved hypothetical protein (5964 nt)	-15.6926	-1.11611	0.439373
PITG_19004	Pi conserved hypothetical protein (1214 nt)	-14.3057	-0.85903	0.439583
PITG_01156	Pi conserved hypothetical protein (1452 nt)	-16.2688	-0.93509	0.439833
PITG_09447	Pi conserved hypothetical protein (4266 nt)	-16.251	-1.10643	0.439833
PITG_09840	Pi conserved hypothetical protein (345 nt)	-16.2653	1.201018	0.439833
PITG_12486	Pi conserved hypothetical protein (1010 nt)	-9.28508	-0.73541	0.44027
PITG_14612	Pi NADH dehydrogenase iron-sulfur protein 8, mitochondrial	-10.9606	0.788296	0.440356
PITG_02486	Pi conserved hypothetical protein (1050 nt)	-14.4645	0.784831	0.440378
PITG_06636	Pi conserved hypothetical protein (606 nt)	-13.9513	0.832697	0.44076
PITG_06771	Pi 40S ribosomal protein S24, putative (944 nt)	-9.35799	0.749349	0.441028
PITG_10957	Pi hypothetical protein (2152 nt)	-12.7541	-0.77412	0.441248
PITG_05940	Pi spindle assembly protein, putative (2132 nt)	-16.7997	-1.43235	0.441272
PITG_08759	Pi conserved hypothetical protein (1095 nt)	-16.7997	-1.43235	0.441272
PITG_03649	Pi conserved hypothetical protein (1999 nt)	-17.204	-1.64061	0.441495
PITG_10622	Pi lipase, putative (689 nt)	-17.0287	-1.06485	0.441495
PITG_00167	Pi cAMP-specific 3',5'-cyclic phosphodiesterase, putative (18	-13.8759	-0.79668	0.441947
PITG_06304	Pi conserved hypothetical protein (2001 nt)	-16.4081	-1.24686	0.442345
PITG_20706	Pi conserved hypothetical protein (1552 nt)	-16.4081	-1.24686	0.442345
PITG_00942	Pi conserved hypothetical protein (2332 nt)	-14.7977	0.852302	0.442397
PITG_13102	Pi fimbrin-like protein (2322 nt)	-14.794	-0.90538	0.442524
PITG_09985	Pi pro-apoptotic serine protease nma111-like protein (2862	-15.7127	0.932292	0.442572
PITG_10264	Pi D-3-phosphoglycerate dehydrogenase (1493 nt)	-15.7417	-1.02169	0.442572
PITG_00299	Pi alpha-1,3-mannosyltransferase, putative (4859 nt)	-16.7757	-1.38282	0.442692
PITG_01444	Pi Argonaute5 (AGO5) (2496 nt)	-16.7757	-1.38282	0.442692
PITG_10265	Pi conserved hypothetical protein (2322 nt)	-16.7589	-1.51398	0.442692
PITG_16721	Pi conserved hypothetical protein (988 nt)	-16.7757	-1.38282	0.442692
PITG_22125	Pi conserved hypothetical protein (519 nt)	-16.7757	-1.38282	0.442692
PITG_14385	Pi conserved hypothetical protein (4127 nt)	-15.1753	0.957493	0.442722
PITG_05292	Pi hypothetical protein (861 nt)	-12.4601	-0.77324	0.443225
PITG_12182	Pi conserved hypothetical protein (1267 nt)	-12.8971	-0.80638	0.443574

PITG_10184	Pi conserved hypothetical protein (1195 nt)	-14.0935	0.881506	0.443641
PITG_11265	Pi conserved hypothetical protein (829 nt)	-15.3037	-0.89356	0.443686
PITG_16555	Pi GTP-binding protein, putative (1846 nt)	-15.3333	-0.87845	0.443686
PITG_14575	Pi U6 snRNA-associated Sm-like protein, putative (321 nt)	-12.2493	0.763789	0.443912
PITG_10899	Pi protein kinase, putative (1146 nt)	-14.2625	-0.86804	0.443929
PITG_02698	Pi conserved hypothetical protein (4793 nt)	-16.7348	-1.46424	0.444111
PITG_17827	Pi conserved hypothetical protein (794 nt)	-16.7348	-1.46424	0.444111
PITG_17312	Pi SUMO-activating enzyme (SAE), putative (1132 nt)	-14.4084	0.840136	0.444234
PITG_00702	Pi conserved hypothetical protein (700 nt)	-11.3799	0.74347	0.444279
PITG_06981	Pi DEAD/DEAH box RNA helicase, putative (2637 nt)	-15.6789	0.899369	0.444279
PITG_18080	Pi phosphoglycerate mutase (789 nt)	-15.6847	0.841929	0.444279
PITG_15071	Pi conserved hypothetical protein (1382 nt)	-14.8173	-0.89246	0.444298
PITG_01081	Pi Drug/Metabolite Transporter (DMT) Superfamily (1319 nt)	-16.2068	1.083259	0.444478
PITG_19212	Pi tubulin/FtsZ family protein, putative (1644 nt)	-16.2682	-1.07303	0.444478
PITG_07283	Pi threonine dehydratase catabolic, putative (1560 nt)	-14.6173	-0.93836	0.444931
PITG_02670	Pi conserved hypothetical protein (869 nt)	-13.4685	0.797926	0.445089
PITG_07637	Pi transcription initiation factor TFIID subunit, putative (468 nt)	-14.1776	-0.79937	0.445139
PITG_09837	Pi secreted RxLR effector peptide, putative (369 nt)	-13.1371	-0.89215	0.445839
PITG_18056	Pi conserved hypothetical protein (1078 nt)	-15.7735	0.787142	0.445879
PITG_09628	Pi conserved hypothetical protein (1141 nt)	-13.1577	0.776049	0.445921
PITG_23005	Pi conserved hypothetical protein (630 nt)	-8.84416	-0.75133	0.44593
PITG_13268	Pi p21-activated protein kinase-interacting protein, putative (1004 nt)	-16.1725	0.971795	0.446022
PITG_13623	Pi conserved hypothetical protein (1004 nt)	-16.1725	0.971795	0.446022
PITG_06910	Pi Mitochondrial Carrier (MC) Family (1056 nt)	-15.5059	0.838961	0.446249
PITG_03599	Pi alanine aminotransferase 2 (1500 nt)	-13.1829	-0.79933	0.446302
PITG_21607	Pi serine protease family S10, putative (1508 nt)	-13.1859	-0.83233	0.446341
PITG_10160	Pi NADPH-cytochrome P450 reductase, putative (2164 nt)	-15.204	-0.83779	0.446373
PITG_13831	Pi tryptophanyl-tRNA synthetase (1691 nt)	-15.1702	0.844452	0.446373
PITG_18330	Pi conserved hypothetical protein (939 nt)	-13.5483	0.740773	0.446379
PITG_00954	Pi conserved hypothetical protein (865 nt)	-14.644	-0.85378	0.446795
PITG_01292	Pi conserved hypothetical protein (664 nt)	-11.8745	0.728244	0.447101
PITG_07890	Pi conserved hypothetical protein (2045 nt)	-16.2285	-1.01458	0.447564
PITG_22719	Pi phosphatidylinositol kinase (PIK-G2) (4244 nt)	-16.2285	-1.01458	0.447564
PITG_12742	Pi conserved hypothetical protein (1926 nt)	-16.263	-0.94558	0.447564
PITG_19017	Pi 14-3-3 protein epsilon (1094 nt)	-10.0199	0.770351	0.447663
PITG_17329	Pi COP9 signalosome complex subunit, putative (1757 nt)	-15.7397	-1.02525	0.447682
PITG_01133	Pi conserved hypothetical protein (1122 nt)	-15.53	0.950897	0.447979
PITG_11232	Pi conserved hypothetical protein (3141 nt)	-16.0098	-0.95823	0.448052
PITG_14699	Pi phosphatidylserine synthase, putative (1546 nt)	-16.0098	-0.95823	0.448052
PITG_16072	Pi conserved hypothetical protein (850 nt)	-16.0195	-1.13399	0.448052
PITG_03148	Pi Rab7 family GTPase, putative (984 nt)	-12.4165	-0.745	0.44866
PITG_00879	Pi 60S ribosomal protein L30, putative (976 nt)	-14.5267	-1.08533	0.448693
PITG_05817	Pi aspartyl/Asparaginyl beta-hydroxylase, putative (942 nt)	-15.3209	-0.9933	0.449099
PITG_13185	Pi conserved hypothetical protein (1501 nt)	-15.3392	-0.95671	0.449099
PITG_12051	Pi conserved hypothetical protein (315 nt)	-14.5414	0.855981	0.449109
PITG_10979	Pi elongation factor 1-gamma, putative (1555 nt)	-14.1732	0.78055	0.449133
PITG_13493	Pi conserved hypothetical protein (1342 nt)	-14.8644	-0.83346	0.44924

PITG_07972	Pi conserved hypothetical protein (1173 nt)	-11.6741	0.746379	0.449332
PITG_06367	Pi conserved hypothetical protein (1007 nt)	-15.7005	-0.84944	0.449377
PITG_05489	Pi conserved hypothetical protein (408 nt)	-11.7067	-0.76702	0.44952
PITG_03549	Pi coatomer subunit gamma, putative (3611 nt)	-13.9921	0.805875	0.449529
PITG_19095	Pi conserved hypothetical protein (2048 nt)	-16.0426	-1.08841	0.449654
PITG_06991	Pi FHA domain-interacting nucleolar phosphoprotein, putative	-15.12	0.872132	0.449786
PITG_19999	Pi 40S ribosomal protein S14 (808 nt)	-8.1888	0.721146	0.4501
PITG_07470	Pi conserved hypothetical protein (3281 nt)	-14.1821	0.820472	0.450115
PITG_11789	Pi conserved hypothetical protein (2341 nt)	-12.387	0.735769	0.450327
PITG_03587	Pi Mitochondrial Protein Translocase (MPT) Family (3720 nt)	-17.2202	-1.7164	0.45051
PITG_08505	Pi conserved hypothetical protein (1578 nt)	-17.2202	-1.7164	0.45051
PITG_10302	Pi Sulfate Permease (SulP) Family (2751 nt)	-17.2202	-1.7164	0.45051
PITG_18035	Pi conserved hypothetical protein (941 nt)	-17.2202	-1.7164	0.45051
PITG_00577	Pi conserved hypothetical protein (2944 nt)	-15.0341	-0.94414	0.450951
PITG_11170	Pi histone-binding protein RBBP4 (1632 nt)	-15.0007	0.876795	0.450951
PITG_13971	Pi conserved hypothetical protein (1801 nt)	-14.8508	-0.86065	0.451156
PITG_22428	Pi conserved hypothetical protein (488 nt)	-15.9983	-1.04629	0.451254
PITG_18028	Pi conserved hypothetical protein (2296 nt)	-15.1547	-0.93652	0.451641
PITG_13939	Pi conserved hypothetical protein (2961 nt)	-15.2232	-1.00868	0.451811
PITG_02578	Pi 60S ribosomal protein L15-1 (621 nt)	-9.00858	0.736951	0.452078
PITG_09444	Pi conserved hypothetical protein (1052 nt)	-15.459	-0.95867	0.452138
PITG_06934	Pi conserved hypothetical protein (2871 nt)	-16.2313	-1.1487	0.452178
PITG_16016	Pi cytochrome oxidase assembly protein, putative (1429 nt)	-16.2313	-1.1487	0.452178
PITG_19809	Pi conserved hypothetical protein (2673 nt)	-16.2313	-1.1487	0.452178
PITG_21280	Pi conserved hypothetical protein (373 nt)	-16.2313	-1.1487	0.452178
PITG_03767	Pi conserved hypothetical protein (4755 nt)	-15.94	-1.09937	0.452438
PITG_23090	Pi protein kinase, putative (2448 nt)	-14.122	-0.86435	0.452507
PITG_05953	Pi conserved hypothetical protein (765 nt)	-13.1096	-0.75975	0.452656
PITG_16376	Pi conserved hypothetical protein (2684 nt)	-13.9406	-0.85611	0.452959
PITG_15124	Pi Multidrug/Oligosaccharidyl-lipid/Polysaccharide (MOP) Fli	-14.3982	1.008939	0.452967
PITG_07289	Pi phosphatidylinositol kinase (4167 nt)	-15.5812	-0.98309	0.453147
PITG_10864	Pi conserved hypothetical protein (1542 nt)	-15.5299	0.954884	0.453147
PITG_08374	Pi conserved hypothetical protein (2459 nt)	-15.1716	0.845598	0.453614
PITG_10969	Pi pre-mRNA-processing-splicing factor 8 (7384 nt)	-14.8103	0.824607	0.453715
PITG_02736	Pi U2 small nuclear ribonucleoprotein A', putative (1375 nt)	-14.7512	0.858152	0.454075
PITG_16271	Pi M96 mating-specific protein family (1679 nt)	-15.9365	-1.10627	0.454084
PITG_03324	Pi ATP-dependent RNA helicase, putative (2810 nt)	-16.5245	-1.10364	0.454402
PITG_00476	Pi conserved hypothetical protein (3579 nt)	-15.9433	0.832435	0.454447
PITG_06259	Pi calcium/calmodulin-dependent protein kinase, putative (3	-15.3212	-0.85817	0.454466
PITG_18934	Pi calreticulin precursor (1415 nt)	-10.0918	-0.76171	0.45448
PITG_17768	Pi retinol dehydrogenase, putative (852 nt)	-15.574	-1.05123	0.454861
PITG_10729	Pi conserved hypothetical protein (10174 nt)	-14.6035	-0.93374	0.455294
PITG_12192	Pi conserved hypothetical protein (2599 nt)	-15.1336	-0.82347	0.455333
PITG_12889	Pi conserved hypothetical protein (846 nt)	-15.1188	0.894457	0.455333
PITG_21879	Pi transmembrane protein Gpr7 (1715 nt)	-14.1498	-0.78317	0.455657
PITG_17703	Pi conserved hypothetical protein (2997 nt)	-15.8734	0.91279	0.455725
PITG_07275	Pi conserved hypothetical protein (1680 nt)	-15.7469	0.849619	0.455764

PITG_15697	Pi 60S ribosomal protein L11, putative (880 nt)	-9.38984	0.720092	0.45589
PITG_17005	Pi conserved hypothetical protein (1571 nt)	-11.0139	-0.72667	0.455929
PITG_03482	Pi conserved hypothetical protein (2693 nt)	-15.6765	1.050648	0.45612
PITG_05177	Pi conserved hypothetical protein (1793 nt)	-15.6991	-0.85326	0.45612
PITG_08572	Pi dual specificity tyrosine-phosphorylation-regulated kinase	-15.6752	-0.90118	0.45612
PITG_01361	Pi conserved hypothetical protein (2647 nt)	-14.7449	-0.88849	0.456647
PITG_02291	Pi conserved hypothetical protein (1800 nt)	-16.1849	0.950456	0.456772
PITG_00703	Pi 2,4-dienoyl-CoA reductase (2346 nt)	-14.8465	-0.90419	0.456863
PITG_00398	Pi conserved hypothetical protein (1621 nt)	-16.5434	-1.14108	0.457293
PITG_04664	Pi conserved hypothetical protein (1586 nt)	-16.5434	-1.14108	0.457293
PITG_09953	Pi guanylate-binding protein, putative (2898 nt)	-16.5027	-1.22237	0.457293
PITG_12340	Pi sulfite oxidase, putative (779 nt)	-16.5027	-1.22237	0.457293
PITG_19351	Pi kinesin-like protein (1519 nt)	-16.5434	-1.14108	0.457293
PITG_11985	Pi hypothetical protein (309 nt)	-11.3568	-0.92365	0.457336
PITG_09950	Pi conserved hypothetical protein (3267 nt)	-15.4621	-0.90513	0.457423
PITG_12288	Pi ADP-ribosylation factor family (968 nt)	-10.6508	0.710111	0.457492
PITG_02420	Pi DNA-directed RNA polymerase I subunit RPA2, putative (3	-15.9572	1.023573	0.45763
PITG_04603	Pi conserved hypothetical protein (7600 nt)	-14.4481	-0.84777	0.458269
PITG_02077	Pi protein kinase, putative (2392 nt)	-16.2693	-1.14592	0.4583
PITG_04575	Pi conserved hypothetical protein (1882 nt)	-16.2586	-0.95271	0.4583
PITG_05673	Pi hypothetical protein (795 nt)	-16.2644	-1.1557	0.4583
PITG_09270	Pi structural maintenance of chromosomes protein 6, putati	-16.2586	-0.95271	0.4583
PITG_18015	Pi glycosyl transferase, putative (1574 nt)	-16.2426	-1.05604	0.4583
PITG_18316	Pi phospholipid hydroperoxide glutathione peroxidase, putat	-11.3749	-0.82075	0.458455
PITG_11929	Pi dihydrolipoyllysine-residue acetyltransferase component c	-13.7931	0.760754	0.458494
PITG_01520	Pi hypothetical protein (4181 nt)	-16.5344	-1.15928	0.458736
PITG_04954	Pi protein kinase (1494 nt)	-16.5344	-1.15928	0.458736
PITG_06133	Pi sugar fermentation stimulation protein (1179 nt)	-16.5344	-1.15928	0.458736
PITG_17567	Pi myb-like DNA-binding protein, putative (504 nt)	-16.5344	-1.15928	0.458736
PITG_06075	Pi conserved hypothetical protein (3266 nt)	-13.9751	0.73204	0.458969
PITG_10158	Pi conserved hypothetical protein (3450 nt)	-15.8581	0.88203	0.458997
PITG_03388	Pi lectin, putative (1612 nt)	-15.1438	-0.91681	0.459001
PITG_03887	Pi conserved hypothetical protein (1367 nt)	-15.1352	-0.82073	0.459001
PITG_14847	Pi conserved hypothetical protein (943 nt)	-15.1183	-0.85453	0.459001
PITG_01584	Pi conserved hypothetical protein (2506 nt)	-15.4504	-0.88109	0.459174
PITG_09097	Pi conserved hypothetical protein (1199 nt)	-16.2275	-1.23006	0.459825
PITG_17068	Pi conserved hypothetical protein (4224 nt)	-16.225	-1.01967	0.459825
PITG_01557	Pi conserved hypothetical protein (1647 nt)	-13.3997	-0.75173	0.460122
PITG_00819	Pi conserved hypothetical protein (3717 nt)	-16.4951	-1.23814	0.460177
PITG_00216	Pi conserved hypothetical protein (685 nt)	-13.5152	0.770831	0.460337
PITG_05412	Pi Ca2 :Cation Antiporter (CaCA) Family (2261 nt)	-14.624	-0.85444	0.460425
PITG_14110	Pi endoplasmic reticulum-Golgi intermediate compartment p	-12.9165	0.743483	0.460493
PITG_14588	Pi sporangia induced hypothetical protein similar to endothe	-15.1057	-0.84029	0.460827
PITG_20672	Pi methyltransferase domain-containing protein, putative (1.	-15.0905	0.812256	0.460827
PITG_06703	Pi conserved hypothetical protein (490 nt)	-17.1937	-1.65049	0.460834
PITG_02447	Pi conserved hypothetical protein (1248 nt)	-14.7036	-0.8286	0.461043
PITG_07250	Pi conserved hypothetical protein (1055 nt)	-15.6568	0.867204	0.461138

PITG_00858	Pi serine/threonine protein kinase (3299 nt)	-15.2426	-0.76057	0.461488
PITG_17930	Pi RNA pseudouridine synthase, putative (1218 nt)	-15.321	-0.8581	0.461551
PITG_15781	Pi WD domain-containing protein, putative (1246 nt)	-12.9649	0.755872	0.46245
PITG_14727	Pi callose synthase, putative (6687 nt)	-13.0371	-0.85886	0.462849
PITG_14586	Pi 5'-AMP-activated protein kinase subunit beta, putative (99	-14.712	-0.88779	0.46296
PITG_00110	Pi cytochrome c1 heme lyase, putative (823 nt)	-16.5075	-1.13722	0.463055
PITG_02267	Pi coatomer subunit beta, putative (2979 nt)	-13.5448	0.767548	0.463184
PITG_06920	Pi SEC1 family transporter SLY1 (1888 nt)	-15.5554	-0.92633	0.463377
PITG_16484	Pi conserved hypothetical protein (927 nt)	-13.8577	0.890918	0.46374
PITG_11656	Pi long-chain-fatty-acid-CoA ligase, putative (2143 nt)	-14.2184	0.811628	0.464042
PITG_16648	Pi conserved hypothetical protein (1191 nt)	-13.1901	0.772698	0.464172
PITG_15959	Pi conserved hypothetical protein (1483 nt)	-14.6219	-0.79785	0.464254
PITG_17984	Pi conserved hypothetical protein (1317 nt)	-16.2298	-1.15469	0.464389
PITG_11157	Pi myotubularin-like protein (2970 nt)	-16.527	-1.17532	0.464492
PITG_17080	Pi Ca2 :Cation Antiporter (CaCA) Family (1904 nt)	-16.527	-1.17532	0.464492
PITG_15377	Pi conserved hypothetical protein (1667 nt)	-13.8011	-0.86028	0.464532
PITG_10345	Pi conserved hypothetical protein (2367 nt)	-14.5489	-0.91346	0.464583
PITG_15863	Pi conserved hypothetical protein (1556 nt)	-10.9751	0.717224	0.464611
PITG_19856	Pi conserved hypothetical protein (991 nt)	-15.4116	-0.95539	0.464621
PITG_21349	Pi aspartyl-tRNA synthetase, putative (1043 nt)	-13.7816	0.749973	0.465233
PITG_03522	Pi GPI-anchor transamidase, putative (1739 nt)	-15.8885	-0.89785	0.465499
PITG_21397	Pi ribose-phosphate pyrophosphokinase, putative (1516 nt)	-13.8371	0.719664	0.465684
PITG_00717	Pi myosin-like protein (6654 nt)	-16.4889	-1.2519	0.465927
PITG_05367	Pi translational activator GCN1, putative (8268 nt)	-15.6513	0.88192	0.466123
PITG_07227	Pi hypothetical protein (555 nt)	-15.6666	0.851439	0.466123
PITG_12119	Pi ATPase family AAA domain-containing protein 3A (1870 nt)	-15.4129	0.778578	0.466131
PITG_19199	Pi arginine N-methyltransferase, putative (1377 nt)	-13.8578	0.781258	0.46638
PITG_12309	Pi conserved hypothetical protein (234 nt)	-11.9428	0.715641	0.466728
PITG_02525	Pi elicitin-like mating protein M25 (846 nt)	-15.2712	0.884462	0.466814
PITG_20494	Pi conserved hypothetical protein (384 nt)	-15.2218	-0.80219	0.466892
PITG_02778	Pi conserved hypothetical protein (5595 nt)	-15.8361	0.874828	0.467115
PITG_10064	Pi conserved hypothetical protein (1378 nt)	-13.2259	-0.74819	0.467355
PITG_11099	Pi 60S ribosomal protein L18-2 (1333 nt)	-8.74436	0.7083	0.467594
PITG_13699	Pi crinkler (CRN) family protein, pseudogene (2083 nt)	-8.5534	-0.81848	0.467779
PITG_11768	Pi conserved hypothetical protein (521 nt)	-13.1114	-0.75762	0.467946
PITG_04824	Pi conserved hypothetical protein (3821 nt)	-12.0466	-0.73944	0.468048
PITG_11193	Pi conserved hypothetical protein (1244 nt)	-14.8568	-0.81364	0.468096
PITG_02380	Pi C2 domain-containing protein, putative (762 nt)	-15.6074	-0.93178	0.46826
PITG_02068	Pi GTP-binding protein SAR1 (964 nt)	-11.9966	-0.72438	0.468365
PITG_05628	Pi hypothetical protein (806 nt)	-11.0992	-0.71016	0.468515
PITG_14707	Pi SNF1-related protein kinase catalytic subunit alpha, putati	-14.783	-0.77848	0.468516
PITG_17076	Pi conserved hypothetical protein (2557 nt)	-14.7103	-0.78377	0.468664
PITG_09991	Pi dolichyldiphosphatase 1, putative (1104 nt)	-15.2052	0.808209	0.468682
PITG_05458	Pi conserved hypothetical protein (1649 nt)	-15.9157	-1.08466	0.468728
PITG_20787	Pi conserved hypothetical protein (3251 nt)	-15.8856	-0.90454	0.468728
PITG_13804	Pi conserved hypothetical protein (2535 nt)	-14.4491	-0.8147	0.469622
PITG_16984	Pi cellulose synthase 4 (3531 nt)	-14.2405	-0.86063	0.469649

PITG_02490	Pi conserved hypothetical protein (870 nt)	-15.1129	0.856076	0.469865
PITG_06403	Pi conserved hypothetical protein (1558 nt)	-14.8612	-0.87561	0.469945
PITG_11459	Pi conserved hypothetical protein (1659 nt)	-14.8298	0.884703	0.469945
PITG_04475	Pi hypothetical protein (1193 nt)	-15.566	0.85279	0.469958
PITG_08703	Pi conserved hypothetical protein (937 nt)	-8.28543	0.682788	0.470013
PITG_11923	Pi mitochondrial 39-S ribosomal protein L47, putative (513 n	-13.8193	0.747648	0.470713
PITG_21380	Pi conserved hypothetical protein (1311 nt)	-13.8822	0.723717	0.471156
PITG_21851	Pi hypothetical protein (864 nt)	-11.9646	-0.78394	0.471281
PITG_01049	Pi conserved hypothetical protein (1147 nt)	-15.461	-0.90743	0.471298
PITG_18085	Pi hypothetical protein (710 nt)	-15.3733	0.998317	0.47146
PITG_20777	Pi hypothetical protein (584 nt)	-10.6729	0.741163	0.471526
PITG_10534	Pi conserved hypothetical protein (1580 nt)	-15.5948	-0.90586	0.471652
PITG_06610	Pi tRNA nucleotidyltransferase, putative (1847 nt)	-15.2482	-0.83318	0.472244
PITG_18813	Pi conserved hypothetical protein (1749 nt)	-16.5015	-1.14854	0.473078
PITG_00208	Pi protein kinase, putative (2334 nt)	-13.412	-0.72714	0.473352
PITG_01516	Pi conserved hypothetical protein (903 nt)	-13.1308	0.705109	0.473406
PITG_03347	Pi ribonucleoside-diphosphate reductase small chain (1466 r	-14.2447	-0.87352	0.473466
PITG_01778	Pi soluble pyridine nucleotide transhydrogenase, putative (1	-14.0793	0.736852	0.473657
PITG_03117	Pi U4/U6 small nuclear ribonucleoprotein Prp3, putative (21	-15.2145	-0.85861	0.474016
PITG_00883	Pi hypothetical protein (455 nt)	-14.7893	0.815254	0.47416
PITG_19121	Pi 60S ribosomal protein L10 (848 nt)	-8.51695	-0.72547	0.474204
PITG_05615	Pi pyrophosphate-energized vacuolar membrane proton pun	-10.8241	0.79375	0.474283
PITG_00625	Pi monooxygenase, putative (672 nt)	-12.4101	-0.7681	0.474337
PITG_08237	Pi histone deacetylase, putative (2589 nt)	-16.0493	-0.88054	0.47434
PITG_11214	Pi conserved hypothetical protein (1440 nt)	-16.015	0.784183	0.47434
PITG_09827	Pi mitotic checkpoint protein, putative (786 nt)	-14.5316	-0.76614	0.47442
PITG_01539	Pi hypothetical protein (1499 nt)	-13.8099	-0.79909	0.474749
PITG_14835	Pi conserved hypothetical protein (2160 nt)	-14.2431	-0.75894	0.474938
PITG_13738	Pi conserved hypothetical protein (2194 nt)	-15.9836	-1.00938	0.474977
PITG_21140	Pi conserved hypothetical protein (950 nt)	-15.5607	0.916885	0.475025
PITG_19506	Pi conserved hypothetical protein (2006 nt)	-15.5631	0.748629	0.475025
PITG_20263	Pi conserved hypothetical protein (549 nt)	-15.5194	0.963578	0.475145
PITG_05674	Pi peroxisome assembly protein, putative (1244 nt)	-15.8661	-0.88697	0.475147
PITG_17201	Pi GTP-binding protein, putative (1843 nt)	-15.3546	-0.83565	0.475168
PITG_04704	Pi conserved hypothetical protein (1168 nt)	-12.618	0.700304	0.475343
PITG_02023	Pi conserved hypothetical protein (1095 nt)	-14.8787	-0.80489	0.475383
PITG_17966	Pi conserved hypothetical protein (525 nt)	-14.5646	0.829652	0.475433
PITG_17557	Pi hypothetical protein (787 nt)	-15.0489	-0.91448	0.475699
PITG_13415	Pi protein kinase, putative (2746 nt)	-15.0303	0.692872	0.475699
PITG_02024	Pi conserved hypothetical protein (1569 nt)	-14.2114	0.76697	0.475872
PITG_06911	Pi translation initiation factor IF-2, putative (1972 nt)	-16.0256	0.763782	0.475888
PITG_00226	Pi kinesin-like protein (3531 nt)	-16.5222	-1.18733	0.475928
PITG_00275	Pi Iron(III)-zinc(II) purple acid phosphatase, putative (1549 nt	-16.5222	-1.18733	0.475928
PITG_16209	Pi conserved hypothetical protein (1750 nt)	-16.5222	-1.18733	0.475928
PITG_14260	Pi FACT complex subunit SSRP1, putative (1614 nt)	-13.2696	-0.72536	0.475954
PITG_06608	Pi ubiquitin-conjugating enzyme E2, putative (764 nt)	-10.8869	0.682772	0.477085
PITG_11097	Pi mannose-1-phosphate guanyltransferase alpha, putative (	-14.8783	-0.80561	0.477246



PITG_18355	Pi conserved hypothetical protein (1811 nt)	-14.8732	-0.85049	0.477246
PITG_19589	Pi Crinkler (CRN) family protein (1818 nt)	-16.4844	-1.0214	0.477351
PITG_05778	Pi conserved hypothetical protein (2026 nt)	-13.0179	-0.82017	0.477444
PITG_18863	Pi conserved hypothetical protein (747 nt)	-15.2294	0.935964	0.477544
PITG_11766	Pi 40S ribosomal protein S3a (1393 nt)	-8.81024	0.682233	0.477655
PITG_00888	Pi conserved hypothetical protein (992 nt)	-14.3144	-0.79207	0.478098
PITG_01937	Pi myosin-like protein (1685 nt)	-14.3032	-0.78895	0.478098
PITG_18232	Pi avirulence-associated protein 3.4, putative (5892 nt)	-15.4637	0.949155	0.478123
PITG_09488	Pi small nuclear ribonucleoprotein Sm D3 (503 nt)	-13.7186	-0.75351	0.478338
PITG_19780	Pi eukaryotic translation initiation factor 1A (457 nt)	-13.3343	0.989448	0.478536
PITG_04676	Pi conserved hypothetical protein (795 nt)	-15.3682	-0.85278	0.478665
PITG_10423	Pi conserved hypothetical protein (1419 nt)	-16.4824	-1.10546	0.478772
PITG_21144	Pi conserved hypothetical protein (3569 nt)	-15.2738	0.887416	0.478931
PITG_08232	Pi conserved hypothetical protein (1707 nt)	-16.0766	-0.82573	0.478975
PITG_22334	Pi Amino Acid-Polyamine-Organocation (APC) Family (529 nt)	-16.0447	-0.8895	0.478975
PITG_13228	Pi conserved hypothetical protein (2007 nt)	-14.839	0.870005	0.479098
PITG_17891	Pi conserved hypothetical protein (2335 nt)	-14.2401	-0.89196	0.47914
PITG_05505	Pi conserved hypothetical protein (2274 nt)	-13.9796	0.789809	0.479191
PITG_04961	Pi crinkler (CRN) family protein, pseudogene (4915 nt)	-11.7559	-0.76497	0.47921
PITG_10185	Pi conserved hypothetical protein (504 nt)	-11.0329	0.681747	0.479212
PITG_13596	Pi biotin synthase (1332 nt)	-12.9929	-0.73123	0.479698
PITG_07380	Pi glutamate synthase, putative (1695 nt)	-12.6639	0.718296	0.480166
PITG_01426	Pi conserved hypothetical protein (2715 nt)	-16.054	-0.99433	0.480514
PITG_06598	Pi conserved hypothetical protein (1611 nt)	-16.0603	-0.91994	0.480514
PITG_16138	Pi exosome complex exonuclease RRP42-like protein (888 nt)	-16.0365	0.981264	0.480514
PITG_15118	Pi actin-like protein (578 nt)	-8.52294	0.67354	0.48084
PITG_11114	Pi conserved hypothetical protein (1834 nt)	-15.1972	0.791443	0.48105
PITG_23176	Pi 26S proteasome non-ATPase regulatory subunit, putative	-15.0237	0.802525	0.481124
PITG_19350	Pi formin-homology 2 domain-containing protein (4822 nt)	-15.4416	-0.9463	0.481508
PITG_12394	Pi conserved hypothetical protein (882 nt)	-16.0808	-0.94123	0.482049
PITG_03828	Pi conserved hypothetical protein (1679 nt)	-12.9476	-0.67958	0.482311
PITG_14642	Pi GDP-L-fucose synthetase (963 nt)	-14.6593	0.828628	0.482413
PITG_10830	Pi cyclin-dependent kinase with F-box domain, putative (342	-14.2205	0.747435	0.482826
PITG_16695	Pi N-acetyltransferase 5 (813 nt)	-15.1351	0.721451	0.483067
PITG_18046	Pi conserved hypothetical protein (2477 nt)	-13.4673	-0.72082	0.483146
PITG_02627	Pi conserved hypothetical protein (1416 nt)	-13.8259	-0.74734	0.483482
PITG_08661	Pi CDK5 regulatory subunit-associated protein 1 (1877 nt)	-15.9998	0.753928	0.483582
PITG_12960	Pi conserved hypothetical protein (1742 nt)	-16.0078	0.963357	0.483582
PITG_17490	Pi Mitochondrial Carrier (MC) Family (1161 nt)	-16.0078	0.963357	0.483582
PITG_09364	Pi conserved hypothetical protein (959 nt)	-15.3516	-0.84202	0.483867
PITG_02177	Pi metalloprotease family M48X, putative (1636 nt)	-13.2845	-0.71551	0.484235
PITG_05614	Pi conserved hypothetical protein (1206 nt)	-13.8578	-0.76038	0.484475
PITG_03814	Pi D-cysteine desulfhydrase, putative (1482 nt)	-14.5025	-0.82552	0.484516
PITG_00899	Pi prefoldin subunit 3, putative (784 nt)	-14.2553	0.736371	0.484563
PITG_17717	Pi nuclear migration protein nudC, putative (1038 nt)	-12.7121	-0.69324	0.484722
PITG_02260	Pi C2 domain-containing protein, putative (783 nt)	-14.3997	-0.8022	0.484809
PITG_20306	Pi transmembrane protein, putative (1668 nt)	-14.2836	-0.72638	0.484906

PITG_03473	Pi callose synthase, putative (6163 nt)	-13.9748	-0.7881	0.484994
PITG_02921	Pi valyl-tRNA synthetase (3210 nt)	-13.6697	0.708818	0.485135
PITG_13296	Pi aldose 1-epimerase, putative (947 nt)	-14.1821	0.828965	0.485177
PITG_06677	Pi conserved hypothetical protein (1181 nt)	-14.7932	-0.85897	0.485257
PITG_00983	Pi UDP-N-acetylglucosamine-peptide N-acetylglucosaminyltr	-16.8569	-1.31432	0.485797
PITG_01301	Pi conserved hypothetical protein (3616 nt)	-16.8569	-1.31432	0.485797
PITG_16562	Pi conserved hypothetical protein (1333 nt)	-15.2322	-0.82389	0.486268
PITG_20994	Pi conserved hypothetical protein (3079 nt)	-13.2198	-0.73292	0.486396
PITG_08746	Pi conserved hypothetical protein (3138 nt)	-16.0411	-0.89632	0.486638
PITG_09419	Pi gamma-soluble NSF attachment protein, putative (2957 nt)	-16.0411	-0.89632	0.486638
PITG_00855	Pi conserved hypothetical protein (1091 nt)	-13.424	-0.70315	0.48681
PITG_15502	Pi conserved hypothetical protein (894 nt)	-14.4146	-0.80252	0.486873
PITG_03736	Pi conserved hypothetical protein (2031 nt)	-15.3274	0.857065	0.487308
PITG_08023	Pi HECT E3 ubiquitin ligase, putative (6662 nt)	-16.0612	-1.26365	0.487432
PITG_10883	Pi 26S proteasome non-ATPase regulatory subunit, putative	-12.7331	0.679753	0.487759
PITG_10932	Pi dipeptidyl peptidase, putative (2406 nt)	-14.5962	-0.75923	0.48788
PITG_01208	Pi trifunctional enzyme subunit beta, mitochondrial precursc	-11.6319	-0.71878	0.487914
PITG_02479	Pi T-complex protein 1 subunit theta (1856 nt)	-13.6548	0.745023	0.488117
PITG_00281	Pi Major Facilitator Superfamily (MFS) (1781 nt)	-16.0467	-1.01095	0.488162
PITG_06770	Pi hypothetical protein (444 nt)	-16.0189	0.944934	0.488162
PITG_14099	Pi conserved hypothetical protein (728 nt)	-14.8648	0.841475	0.488276
PITG_03954	Pi conserved hypothetical protein (995 nt)	-16.8356	-1.26999	0.488396
PITG_07456	Pi conserved hypothetical protein (1320 nt)	-16.8356	-1.26999	0.488396
PITG_04941	Pi RNA polymerase II subunit A C-terminal domain phosphat	-15.1428	-0.76579	0.4884
PITG_13504	Pi hypothetical protein (396 nt)	-15.1543	-0.93713	0.4884
PITG_14919	Pi transmembrane protein, putative (1650 nt)	-15.1605	-0.88366	0.4884
PITG_13679	Pi conserved hypothetical protein (2052 nt)	-13.5427	-0.76009	0.488415
PITG_09345	Pi 40S ribosomal protein S5-2 (1061 nt)	-8.48053	0.678501	0.488455
PITG_17240	Pi eukaryotic translation initiation factor 3 subunit E-interact	-13.3409	0.694283	0.489113
PITG_07573	Pi conserved hypothetical protein (2598 nt)	-15.8293	0.860305	0.489399
PITG_08314	Pi ATP-binding Cassette (ABC) Superfamily (960 nt)	-15.8293	0.860305	0.489399
PITG_16053	Pi conserved hypothetical protein (1032 nt)	-15.8789	-0.98402	0.489399
PITG_10352	Pi sporangia induced hypothetical protein (731 nt)	-10.9338	0.687051	0.489434
PITG_01950	Pi protein kinase, putative (2368 nt)	-13.2129	-0.68323	0.489936
PITG_09450	Pi conserved hypothetical protein (5480 nt)	-14.0483	0.74422	0.490036
PITG_02857	Pi L-allo-threonine aldolase (1202 nt)	-15.1539	0.863825	0.490166
PITG_07286	Pi phosphatidylinositol kinase (4304 nt)	-14.2802	-0.80723	0.490274
PITG_18463	Pi hypothetical protein (1921 nt)	-13.277	0.695639	0.49042
PITG_18027	Pi histone acetyltransferase, putative (2887 nt)	-15.7279	-0.79385	0.49053
PITG_05666	Pi small nuclear ribonucleoprotein E (240 nt)	-13.0526	0.699619	0.491282
PITG_01379	Pi conserved hypothetical protein (1668 nt)	-15.1559	-0.7399	0.491924
PITG_22418	Pi conserved hypothetical protein (481 nt)	-15.1503	-0.86258	0.491924
PITG_19979	Pi conserved hypothetical protein (780 nt)	-13.1852	0.711256	0.49195
PITG_00269	Pi conserved hypothetical protein (2585 nt)	-14.0239	0.688502	0.491995
PITG_01549	Pi succinate semialdehyde dehydrogenase, mitochondrial pr	-13.794	0.70905	0.492278
PITG_01913	Pi dihydroorotate dehydrogenase, mitochondrial precursor (	-14.7158	0.756433	0.492325
PITG_20797	Pi tubulin-specific chaperone B, putative (928 nt)	-14.7154	0.750628	0.492325

PITG_08598	Pi 6-phosphogluconolactonase, putative (984 nt)	-13.7208	0.683318	0.49249
PITG_04424	Pi SNARE associated Golgi protein, putative (918 nt)	-14.8046	-0.76812	0.492527
PITG_13157	Pi suppressor of necrosis 1, putative (1074 nt)	-14.0631	0.961991	0.492638
PITG_04113	Pi conserved hypothetical protein (1646 nt)	-15.4912	-0.84706	0.493052
PITG_12886	Pi conserved hypothetical protein (819 nt)	-9.39271	-0.67072	0.493439
PITG_19482	Pi ras protein let-60 (1186 nt)	-12.3715	-0.67341	0.493527
PITG_16864	Pi conserved hypothetical protein (2664 nt)	-15.0452	-0.84283	0.493564
PITG_22618	Pi conserved hypothetical protein (656 nt)	-14.8756	0.840595	0.493698
PITG_04255	Pi glucosylceramidase, putative (1623 nt)	-14.7669	-0.99553	0.494032
PITG_16528	Pi hsp70-like protein (1904 nt)	-16.4997	-1.15096	0.494313
PITG_20081	Pi conserved hypothetical protein (5295 nt)	-14.7875	-0.88143	0.494319
PITG_06851	Pi conserved hypothetical protein (1061 nt)	-13.5263	0.736918	0.494355
PITG_13275	Pi conserved hypothetical protein (954 nt)	-13.6582	0.720076	0.494516
PITG_02781	Pi conserved hypothetical protein (1596 nt)	-16.8472	-1.33485	0.494876
PITG_04523	Pi conserved hypothetical protein (2736 nt)	-16.8472	-1.33485	0.494876
PITG_07045	Pi conserved hypothetical protein (3128 nt)	-16.8472	-1.33485	0.494876
PITG_08186	Pi conserved hypothetical protein (1872 nt)	-16.8472	-1.33485	0.494876
PITG_17631	Pi conserved hypothetical protein (534 nt)	-16.8472	-1.33485	0.494876
PITG_10715	Pi hypothetical protein (1221 nt)	-11.6064	-0.75826	0.494895
PITG_04500	Pi nucleosome assembly protein 1 (1225 nt)	-13.1082	0.713815	0.495377
PITG_05395	Pi conserved hypothetical protein (1404 nt)	-15.1817	-0.84073	0.495424
PITG_20121	Pi conserved hypothetical protein (772 nt)	-12.2875	0.663307	0.495781
PITG_16855	Pi conserved hypothetical protein (925 nt)	-13.3659	0.684745	0.496023
PITG_03957	Pi conserved hypothetical protein (2017 nt)	-16.825	-1.28921	0.496169
PITG_08552	Pi conserved hypothetical protein (2095 nt)	-16.825	-1.28921	0.496169
PITG_14765	Pi GPI ethanolamine phosphate transferase, putative (2985 r	-16.825	-1.28921	0.496169
PITG_19441	Pi ATP-binding Cassette (ABC) Superfamily (3824 nt)	-16.825	-1.28921	0.496169
PITG_11630	Pi eukaryotic translation initiation factor 1A, putative (786 nt)	-11.2803	0.693538	0.49628
PITG_06716	Pi tafazzin-like protein (1282 nt)	-15.4728	0.804119	0.496406
PITG_03178	Pi 60S ribosomal protein L9 (754 nt)	-10.0026	0.668014	0.496749
PITG_02695	Pi striatin-3 family protein (2493 nt)	-13.8474	-0.7184	0.496827
PITG_17692	Pi conserved hypothetical protein (1392 nt)	-16.5218	-1.19228	0.497121
PITG_22548	Pi hypothetical protein similar to phosphatidylinositol 3-kina	-16.5218	-1.19228	0.497121
PITG_16183	Pi adhesin-like protein (5735 nt)	-14.5893	-0.73769	0.497239
PITG_07476	Pi conserved hypothetical protein (1568 nt)	-10.9618	-0.70117	0.49752
PITG_10543	Pi conserved hypothetical protein (1087 nt)	-9.593	-0.7884	0.497657
PITG_01511	Pi conserved hypothetical protein (1649 nt)	-14.4649	-0.75587	0.497673
PITG_06943	Pi conserved hypothetical protein (1647 nt)	-14.9637	-0.7407	0.498292
PITG_22810	Pi conserved hypothetical protein (768 nt)	-13.9089	0.75717	0.498322
PITG_03525	Pi cleavage induced serine protease family S33, putative (15	-16.2925	-0.95534	0.498328
PITG_13764	Pi conserved hypothetical protein (780 nt)	-16.4854	-1.26538	0.498523
PITG_16105	Pi conserved hypothetical protein (771 nt)	-15.7619	-0.98028	0.498535
PITG_07701	Pi ubiquinone/menaquinone biosynthesis methyltransferase	-14.6811	-0.77954	0.498549
PITG_02520	Pi conserved hypothetical protein (2341 nt)	-16.039	-0.89984	0.498746
PITG_18329	Pi conserved hypothetical protein (975 nt)	-16.039	-0.89984	0.498746
PITG_18642	Pi conserved hypothetical protein (2079 nt)	-16.039	-0.89984	0.498746
PITG_03557	Pi conserved hypothetical protein (1429 nt)	-14.8669	-0.78073	0.499059

PITG_06643	Pi conserved hypothetical protein (1753 nt)	-15.3563	-0.92516	0.499184
PITG_11022	Pi hypothetical protein (769 nt)	-14.4561	0.732765	0.499547
PITG_07851	Pi protein kinase (1421 nt)	-15.2594	-0.72707	0.499726
PITG_12521	Pi vacuolar protein sorting-associated protein 35, putative (2	-15.2594	-0.72707	0.499726
PITG_00350	Pi COP9 signalosome complex subunit 1, putative (1472 nt)	-15.4904	-0.94453	0.499738
PITG_03109	Pi conserved hypothetical protein (1054 nt)	-16.3078	-0.9248	0.499764
PITG_03277	Pi pyruvate dehydrogenase E1 component subunit alpha (15	-11.1394	0.665326	0.499772
PITG_05601	Pi conserved hypothetical protein (1098 nt)	-11.9342	0.65026	0.49982
PITG_08061	Pi hydroxyacyl-coenzyme A dehydrogenase, mitochondrial p	-13.7351	-0.78648	0.500051
PITG_13918	Pi N-terminal acetyltransferase A complex subunit nat1-like	-14.2353	-0.79626	0.500066
PITG_11912	Pi DNA replication licensing factor MCM7 (2607 nt)	-15.7295	0.896603	0.500123
PITG_22505	Pi conserved hypothetical protein (1198 nt)	-15.7295	0.896603	0.500123
PITG_01397	Pi glycoside hydrolase, putative (1725 nt)	-14.2118	0.82563	0.50052
PITG_13370	Pi conserved hypothetical protein (1551 nt)	-10.8215	-0.65664	0.500546
PITG_06359	Pi conserved hypothetical protein (1237 nt)	-13.5451	0.744137	0.500618
PITG_17967	Pi conserved hypothetical protein (2693 nt)	-15.2998	-0.87404	0.500862
PITG_09626	Pi transcription factor BTF3-like protein (888 nt)	-9.45942	-0.69717	0.501126
PITG_04426	Pi DNA polymerase alpha-associated DNA helicase A, putativ	-16.2856	-0.96929	0.501198
PITG_08715	Pi conserved hypothetical protein (2483 nt)	-14.3376	0.762041	0.501245
PITG_00970	Pi conserved hypothetical protein (1122 nt)	-14.6956	0.787441	0.501432
PITG_08739	Pi conserved hypothetical protein (495 nt)	-16.0798	-1.01412	0.501745
PITG_22624	Pi Major Facilitator Superfamily (MFS) (702 nt)	-12.5873	-0.89624	0.502069
PITG_03643	Pi 3-phosphoinositide-dependent protein kinase, putative (2	-15.1233	0.85145	0.502351
PITG_07767	Pi conserved hypothetical protein (2458 nt)	-16.3097	-0.98894	0.502629
PITG_18455	Pi conserved hypothetical protein (575 nt)	-13.9561	-0.73205	0.502786
PITG_02069	Pi vacuolar sorting protein SNF8 (980 nt)	-15.0871	-0.79951	0.503114
PITG_05680	Pi conserved hypothetical protein (676 nt)	-15.7421	0.969148	0.503288
PITG_09181	Pi conserved hypothetical protein (1067 nt)	-15.2386	0.878982	0.503324
PITG_18005	Pi conserved hypothetical protein (1379 nt)	-12.6225	-0.65195	0.504079
PITG_02339	Pi 26S proteasome non-ATPase regulatory subunit 12, putati	-13.2109	0.686505	0.504295
PITG_08082	Pi cytochrome b5 (444 nt)	-13.1889	0.693903	0.504326
PITG_08094	Pi inorganic pyrophosphatase (889 nt)	-15.4582	0.8066	0.504697
PITG_20289	Pi carbohydrate-binding protein, putative (1402 nt)	-15.4941	-0.88959	0.504697
PITG_10725	Pi ribosomal RNA processing protein 1 (1804 nt)	-16.0338	0.865357	0.504733
PITG_07285	Pi conserved hypothetical protein (1174 nt)	-10.0966	-0.68538	0.504827
PITG_03772	Pi ADP-ribosylation factor-like protein (1588 nt)	-16.3032	-1.00266	0.505484
PITG_16066	Pi conserved hypothetical protein (978 nt)	-16.3032	-1.00266	0.505484
PITG_17609	Pi conserved hypothetical protein (1112 nt)	-13.9602	0.662678	0.505844
PITG_18861	Pi conserved hypothetical protein (1158 nt)	-15.3526	0.876062	0.505857
PITG_22524	Pi conserved hypothetical protein (1004 nt)	-15.361	-1.03799	0.505945
PITG_10285	Pi conserved hypothetical protein (2697 nt)	-15.7513	-1.05839	0.506437
PITG_05420	Pi conserved hypothetical protein (681 nt)	-15.8125	0.911473	0.506483
PITG_14578	Pi phosducin-like protein (715 nt)	-13.3546	-0.67073	0.5065
PITG_19495	Pi glyceraldehyde-3-phosphate dehydrogenase, putative (54	-10.9863	-0.77909	0.506567
PITG_01832	Pi protein kinase (2896 nt)	-15.2577	-0.73029	0.506567
PITG_18459	Pi conserved hypothetical protein (1623 nt)	-15.0682	-0.69731	0.506623
PITG_01123	Pi conserved hypothetical protein (654 nt)	-14.9017	0.76639	0.507178

PITG_03398	Pi histidyl-tRNA synthetase, putative (1038 nt)	-14.9845	0.881937	0.507728
PITG_03332	Pi phosphatidylinositol-4-phosphate 5-kinase, putative (1412 nt)	-15.7608	-0.98148	0.508005
PITG_15173	Pi conserved hypothetical protein (2982 nt)	-15.7608	-0.98148	0.508005
PITG_18072	Pi conserved hypothetical protein (1370 nt)	-8.76856	-0.63217	0.508138
PITG_10861	Pi nuclear transcription factor Y subunit B-3 (700 nt)	-11.3744	-0.63963	0.508566
PITG_01332	Pi lysophospholipid acyltransferase, putative (1563 nt)	-15.8986	0.862317	0.508771
PITG_12749	Pi conserved hypothetical protein (1335 nt)	-11.9592	0.657171	0.509172
PITG_16910	Pi ATP-binding Cassette (ABC) Superfamily (1875 nt)	-16.0085	0.921046	0.509194
PITG_13256	Pi conserved hypothetical protein (995 nt)	-13.8674	0.711569	0.509353
PITG_13066	Pi hypothetical protein (816 nt)	-14.1913	-0.74834	0.509411
PITG_11086	Pi HIT domain-containing protein, putative (592 nt)	-14.0943	0.651917	0.509968
PITG_02245	Pi D-2-hydroxyglutarate dehydrogenase, mitochondrial precursor	-15.9527	-1.01277	0.510297
PITG_05267	Pi transmembrane protein, putative (1028 nt)	-15.9909	1.009432	0.51046
PITG_15831	Pi 5-formyltetrahydrofolate cyclo-ligase, putative (931 nt)	-13.7702	-0.70429	0.510611
PITG_04677	Pi protein kinase (1359 nt)	-16.2279	-1.2506	0.510615
PITG_18728	Pi conserved hypothetical protein (2363 nt)	-14.1048	-0.75944	0.510663
PITG_22323	Pi ribosome biogenesis protein RLP24 (675 nt)	-16.3217	-0.89743	0.511163
PITG_06406	Pi HECT E3 ubiquitin ligase, putative (648 nt)	-15.4936	-0.89106	0.511239
PITG_17045	Pi mannitol dehydrogenase, putative (2012 nt)	-13.8078	0.685261	0.511424
PITG_11551	Pi Major Facilitator Superfamily (MFS) (504 nt)	-15.9153	-0.78627	0.511818
PITG_03504	Pi conserved hypothetical protein (955 nt)	-15.8832	0.831891	0.511818
PITG_02254	Pi conserved hypothetical protein (2198 nt)	-16.087	-1.00411	0.512155
PITG_13975	Pi hypothetical protein (371 nt)	-16.087	-1.00411	0.512155
PITG_23192	Pi small nuclear ribonucleoprotein F, putative (580 nt)	-12.0467	0.65403	0.512305
PITG_01756	Pi negative elongation factor, putative (2775 nt)	-16.2983	-1.01436	0.512576
PITG_18038	Pi conserved hypothetical protein (900 nt)	-13.9246	0.682942	0.513276
PITG_17069	Pi coatomer protein complex, putative (3808 nt)	-14.0095	0.731115	0.51337
PITG_13438	Pi conserved hypothetical protein (1355 nt)	-12.9876	-0.67565	0.513756
PITG_07083	Pi ubiquitin thioesterase OTU1-like protein (1069 nt)	-15.6376	-0.87149	0.51405
PITG_20284	Pi hypothetical protein (998 nt)	-16.843	-1.34558	0.514186
PITG_03685	Pi 2-amino-3-ketobutyrate coenzyme A ligase, mitochondria	-13.6756	-0.83166	0.51483
PITG_22683	Pi secreted RxLR effector peptide, putative (522 nt)	-16.021	0.902838	0.515105
PITG_01119	Pi conserved hypothetical protein (610 nt)	-11.6737	-0.68685	0.515371
PITG_06394	Pi conserved hypothetical protein (1365 nt)	-16.8191	-1.29626	0.515467
PITG_19122	Pi conserved hypothetical protein (1498 nt)	-16.8191	-1.29626	0.515467
PITG_04705	Pi conserved hypothetical protein (2356 nt)	-15.6411	-0.91547	0.515645
PITG_06383	Pi conserved hypothetical protein (2769 nt)	-13.1075	-0.76344	0.515823
PITG_02423	Pi cysteine protease family C01A, putative (2587 nt)	-12.5504	0.661654	0.515847
PITG_00266	Pi 40S ribosomal protein S10 (596 nt)	-9.31665	0.64686	0.516528
PITG_01697	Pi importin alpha-2 subunit (2191 nt)	-13.1795	0.831192	0.516645
PITG_06410	Pi conserved hypothetical protein (6512 nt)	-14.1585	-0.69732	0.516944
PITG_00170	Pi vacuolar-sorting receptor, putative (1963 nt)	-12.1484	-0.62897	0.51714
PITG_16781	Pi hypothetical protein (706 nt)	-15.7641	0.974754	0.517335
PITG_11982	Pi conserved hypothetical protein (486 nt)	-12.9725	-0.63389	0.517572
PITG_07301	Pi conserved hypothetical protein (4224 nt)	-15.9172	-0.84043	0.517868
PITG_14913	Pi 40S ribosomal protein S16 (1118 nt)	-9.47691	0.637776	0.51805
PITG_10736	Pi cysteine protease family C54, putative (1313 nt)	-13.0675	-0.66241	0.518451

PITG_03119	Pi conserved hypothetical protein (1770 nt)	-14.529	0.739366	0.518549
PITG_16921	Pi conserved hypothetical protein (867 nt)	-8.93993	-0.61227	0.518928
PITG_07328	Pi manganese superoxide dismutase (877 nt)	-9.99484	0.682813	0.519015
PITG_13661	Pi conserved hypothetical protein (1053 nt)	-16.3047	-1.07512	0.519608
PITG_16062	Pi conserved hypothetical protein (1547 nt)	-16.2991	-1.08629	0.519608
PITG_08571	Pi Drug/Metabolite Transporter (DMT) Superfamily (1227 nt)	-13.7705	0.6736	0.519813
PITG_02717	Pi conserved hypothetical protein (922 nt)	-15.9139	-0.84797	0.52087
PITG_01864	Pi conserved hypothetical protein (998 nt)	-16.3422	-1.00068	0.521007
PITG_20212	Pi intraflagellar transport protein 172 (5418 nt)	-14.8364	0.879201	0.521041
PITG_19411	Pi conserved hypothetical protein (1390 nt)	-14.7356	-0.73317	0.521204
PITG_22666	Pi conserved hypothetical protein (654 nt)	-12.8267	0.63826	0.521206
PITG_06329	Pi conserved hypothetical protein (457 nt)	-15.2752	0.86454	0.521619
PITG_00280	Pi conserved hypothetical protein (1521 nt)	-13.171	-0.74701	0.521807
PITG_00058	Pi protease inhibitor EpiC4 (519 nt)	-10.2752	0.61174	0.522473
PITG_00158	Pi conserved hypothetical protein (551 nt)	-14.2988	0.712688	0.522503
PITG_15247	Pi conserved hypothetical protein (567 nt)	-15.1394	-0.90003	0.522583
PITG_00479	Pi conserved hypothetical protein (2066 nt)	-14.1994	0.72794	0.522991
PITG_04907	Pi conserved hypothetical protein (652 nt)	-15.2632	-0.88327	0.523264
PITG_03821	Pi conserved hypothetical protein (3044 nt)	-14.9954	-0.80595	0.523499
PITG_12754	Pi dynein light chain 2B (588 nt)	-12.3908	0.62265	0.523742
PITG_13291	Pi dolichyl pyrophosphate Glc1Man9GlcNAc2 alpha-1,3-gluc	-16.3245	-1.03735	0.523798
PITG_10501	Pi conserved hypothetical protein (404 nt)	-12.9036	0.701902	0.523986
PITG_11410	Pi hypothetical protein (1851 nt)	-14.6082	-0.7294	0.524052
PITG_17123	Pi T-complex protein 1 subunit gamma (1738 nt)	-13.0309	0.68298	0.524273
PITG_07199	Pi conserved hypothetical protein (724 nt)	-13.7561	0.769848	0.524726
PITG_12163	Pi conserved hypothetical protein (1014 nt)	-15.6247	0.791674	0.525114
PITG_14280	Pi conserved hypothetical protein (667 nt)	-16.1895	0.786118	0.525191
PITG_17346	Pi conserved hypothetical protein (1201 nt)	-16.1895	0.786118	0.525191
PITG_13853	Pi conserved hypothetical protein (1208 nt)	-15.5073	-0.91541	0.525677
PITG_14750	Pi conserved hypothetical protein (1760 nt)	-15.9675	-0.97975	0.526831
PITG_22113	Pi conserved hypothetical protein (1068 nt)	-15.9246	0.936455	0.526831
PITG_13483	Pi conserved hypothetical protein (1657 nt)	-13.9137	-0.72278	0.527065
PITG_03684	Pi conserved hypothetical protein (962 nt)	-12.2743	-0.6668	0.527919
PITG_06025	Pi conserved hypothetical protein (2390 nt)	-13.0719	-0.6421	0.528208
PITG_10711	Pi PpiC-type peptidyl-prolyl cis-trans isomerase, putative (10	-13.3126	-0.65255	0.528292
PITG_04511	Pi conserved hypothetical protein (1507 nt)	-17.2851	-1.58757	0.528435
PITG_05075	Pi conserved hypothetical protein (3271 nt)	-17.2851	-1.58757	0.528435
PITG_05799	Pi conserved hypothetical protein (905 nt)	-17.2851	-1.58757	0.528435
PITG_08539	Pi conserved hypothetical protein (755 nt)	-17.2851	-1.58757	0.528435
PITG_14746	Pi conserved hypothetical protein (867 nt)	-17.2851	-1.58757	0.528435
PITG_11806	Pi vacuolar protein sorting-associated protein 26B-A (703 nt)	-15.3952	-0.84524	0.528649
PITG_09770	Pi conserved hypothetical protein (1403 nt)	-14.3189	-0.68039	0.529409
PITG_10987	Pi Drug/Metabolite Transporter (DMT) Superfamily (1416 nt)	-14.0543	0.679587	0.529514
PITG_16453	Pi conserved hypothetical protein (2559 nt)	-16.568	-1.01672	0.53041
PITG_16764	Pi hypothetical protein (684 nt)	-16.797	-1.23401	0.530785
PITG_04398	Pi Amino Acid/Auxin Permease (AAP) Family (1608 nt)	-13.8302	0.701621	0.531143
PITG_18695	Pi UDP-galactose transporter (1132 nt)	-16.5573	-1.0379	0.531704

PITG_13849	Pi GDP-mannose transporter, putative (1020 nt)	-13.708	0.67197	0.53237
PITG_18706	Pi acetyl-CoA carboxylase, putative (8050 nt)	-13.9032	0.694158	0.532524
PITG_02112	Pi 3-hydroxyisobutyryl-CoA hydrolase, putative (1549 nt)	-13.8229	0.670171	0.532964
PITG_06864	Pi cytosolic endo-beta-N-acetylglucosaminidase, putative (25	-16.5868	-1.05427	0.532995
PITG_01242	Pi condensin complex subunit 2, putative (2609 nt)	-15.3399	0.76252	0.533467
PITG_12550	Pi conserved hypothetical protein (496 nt)	-12.1189	0.657254	0.533599
PITG_18662	Pi conserved hypothetical protein (641 nt)	-11.7165	0.666291	0.534028
PITG_10123	Pi Drug/Metabolite Transporter (DMT) Superfamily (362 nt)	-15.8685	0.822685	0.534202
PITG_02683	Pi calcineurin-like phosphoesterase, putative (1396 nt)	-14.5366	0.71146	0.534273
PITG_14132	Pi conserved hypothetical protein (715 nt)	-16.5765	-1.07517	0.534284
PITG_14702	Pi conserved hypothetical protein (384 nt)	-16.5978	-1.03256	0.534284
PITG_13462	Pi carbohydrate-binding protein, putative (1542 nt)	-14.2364	-0.84235	0.534393
PITG_03565	Pi hypothetical protein (851 nt)	-15.5663	0.720566	0.534415
PITG_02667	Pi conserved hypothetical protein (592 nt)	-16.1066	0.926008	0.534621
PITG_13364	Pi conserved hypothetical protein (708 nt)	-14.8021	-0.76853	0.53472
PITG_15416	Pi conserved hypothetical protein (627 nt)	-12.6409	0.620081	0.534819
PITG_06693	Pi trifunctional enzyme subunit alpha, putative (2244 nt)	-12.8845	-0.73329	0.535118
PITG_00622	Pi vacuolar protein sorting-associated protein 18 (4544 nt)	-14.9831	-0.7203	0.535409
PITG_12826	Pi conserved hypothetical protein (678 nt)	-16.0847	0.882176	0.536036
PITG_17081	Pi Voltage-gated Ion Channel (VIC) Superfamily (2685 nt)	-15.8085	-0.94376	0.536197
PITG_03635	Pi conserved hypothetical protein (3743 nt)	-17.2602	-1.52901	0.53622
PITG_04352	Pi conserved hypothetical protein (3282 nt)	-17.2602	-1.52901	0.53622
PITG_19533	Pi cleavage and polyadenylation specificity factor subunit, pu	-17.2602	-1.52901	0.53622
PITG_20809	Pi conserved hypothetical protein (747 nt)	-17.2602	-1.52901	0.53622
PITG_08740	Pi conserved hypothetical protein (2290 nt)	-14.6945	-0.75219	0.53623
PITG_20385	Pi 3-oxo-5-alpha-steroid 4-dehydrogenase, putative (602 nt)	-15.5324	-0.76471	0.536486
PITG_02724	Pi Cullin family protein, putative (2338 nt)	-15.4069	-0.87039	0.536652
PITG_01120	Pi conserved hypothetical protein (231 nt)	-11.655	0.671325	0.537403
PITG_13435	Pi conserved hypothetical protein (3146 nt)	-15.5779	0.699866	0.53748
PITG_15046	Pi conserved hypothetical protein (775 nt)	-15.2741	0.690345	0.537686
PITG_16036	Pi echinoderm microtubule-associated protein (7873 nt)	-15.7632	0.72952	0.537701
PITG_18931	Pi hypothetical protein (699 nt)	-8.89109	0.619454	0.537758
PITG_00804	Pi T-complex protein 1 subunit delta (1892 nt)	-12.9301	0.65993	0.537809
PITG_17543	Pi crinkler (CRN) family protein, pseudogene (1989 nt)	-9.55716	-0.62727	0.53782
PITG_08346	Pi carbohydrate-binding protein, putative (3089 nt)	-13.4925	0.662619	0.537935
PITG_15924	Pi conserved hypothetical protein (1916 nt)	-14.6087	-0.70038	0.538049
PITG_02502	Pi T-complex protein 1 subunit zeta (3765 nt)	-13.2978	0.658458	0.538079
PITG_11417	Pi U4/U6.U5 small nuclear ribonucleoprotein 27 kDa protein	-15.9114	-0.91833	0.538585
PITG_06631	Pi conserved hypothetical protein (1938 nt)	-13.0475	-0.67471	0.539166
PITG_00313	Pi hypothetical protein (1989 nt)	-16.5678	-1.09371	0.539421
PITG_06034	Pi conserved hypothetical protein (1369 nt)	-16.5678	-1.09371	0.539421
PITG_11922	Pi epoxide hydrolase, putative (993 nt)	-14.7612	-0.68158	0.539639
PITG_01858	Pi Der1-like family, putative (1184 nt)	-15.9143	-0.91331	0.540039
PITG_10832	Pi protein recA (1647 nt)	-15.0737	0.729177	0.540201
PITG_03233	Pi conserved hypothetical protein (996 nt)	-16.0958	0.861969	0.540259
PITG_07941	Pi conserved hypothetical protein (114 nt)	-16.319	-1.05627	0.540364
PITG_12487	Pi conserved hypothetical protein (606 nt)	-8.39095	-0.58731	0.540896

PITG_17920	Pi plasma membrane H <sup>+</sup> -ATPase (876 nt)	-11.1838	0.644834	0.541474
PITG_23144	Pi Crinkler (CRN) family protein, pseudogene (7122 nt)	-12.8228	-0.90936	0.541657
PITG_15868	Pi DNA primase, putative (1617 nt)	-16.1186	-0.8651	0.54166
PITG_04865	Pi conserved hypothetical protein (858 nt)	-16.297	1.121283	0.54173
PITG_03286	Pi hypothetical protein (367 nt)	-17.3314	-1.49413	0.541776
PITG_06256	Pi conserved hypothetical protein (5536 nt)	-17.3314	-1.49413	0.541776
PITG_16722	Pi metalloprotease family M67A, putative (757 nt)	-17.3314	-1.49413	0.541776
PITG_17070	Pi CCAAT-binding transcription factor, putative (752 nt)	-17.3314	-1.49413	0.541776
PITG_18168	Pi conserved hypothetical protein (1080 nt)	-17.3314	-1.49413	0.541776
PITG_20794	Pi conserved hypothetical protein (1264 nt)	-13.1175	0.617841	0.542021
PITG_13114	Pi elicitin-like protein (1288 nt)	-14.4944	0.658735	0.542084
PITG_19963	Pi conserved hypothetical protein (1042 nt)	-12.9913	0.644488	0.542098
PITG_01001	Pi conserved hypothetical protein (2731 nt)	-15.7987	0.800295	0.542186
PITG_16152	Pi conserved hypothetical protein (2635 nt)	-15.7803	0.837104	0.542186
PITG_01702	Pi conserved hypothetical protein (846 nt)	-12.9751	0.63893	0.542903
PITG_22035	Pi conserved hypothetical protein (1467 nt)	-15.3445	0.738916	0.542959
PITG_19977	Pi haloacid dehalogenase-like hydrolase, putative (859 nt)	-15.7781	-1.00527	0.543071
PITG_18735	Pi vacuolar protein sorting-associated protein, putative (187	-14.6116	0.791575	0.543178
PITG_19316	Pi Crinkler (CRN) family protein, pseudogene (1872 nt)	-12.2799	-0.62949	0.54342
PITG_00391	Pi conserved hypothetical protein (2680 nt)	-13.686	-0.67466	0.543444
PITG_09366	Pi conserved hypothetical protein (703 nt)	-15.0867	0.703846	0.543512
PITG_07974	Pi conserved hypothetical protein (1801 nt)	-12.8842	0.64647	0.543594
PITG_01265	Pi conserved hypothetical protein (1336 nt)	-15.1419	0.786122	0.543857
PITG_20118	Pi 50S ribosomal protein L15 (753 nt)	-13.4859	0.666358	0.543882
PITG_12794	Pi conserved hypothetical protein (4368 nt)	-17.2737	-1.60939	0.543997
PITG_16983	Pi conserved hypothetical protein (1051 nt)	-17.2737	-1.60939	0.543997
PITG_20633	Pi Major Facilitator Superfamily (MFS) (441 nt)	-17.2737	-1.60939	0.543997
PITG_05500	Pi conserved hypothetical protein (1252 nt)	-14.9403	-0.75163	0.544236
PITG_10258	Pi conserved hypothetical protein (381 nt)	-13.9967	-0.74343	0.544289
PITG_14850	Pi 40S ribosomal protein S7 (909 nt)	-9.70294	0.596473	0.544307
PITG_06846	Pi Drug/Metabolite Transporter (DMT) Superfamily (909 nt)	-15.917	-0.90963	0.544382
PITG_12549	Pi conserved hypothetical protein (966 nt)	-16.0667	0.845522	0.544453
PITG_12561	Pi elicitin INF2A-like protein (567 nt)	-11.0859	-0.64424	0.544701
PITG_03365	Pi glucokinase, putative (1763 nt)	-14.5336	0.717647	0.544742
PITG_15504	Pi thioredoxin peroxidase, putative (765 nt)	-13.1159	0.674353	0.545141
PITG_04525	Pi conserved hypothetical protein (982 nt)	-13.3248	-0.78377	0.545799
PITG_00720	Pi acetyl-coenzyme A synthetase (1983 nt)	-14.9133	0.722609	0.545914
PITG_10747	Pi conserved hypothetical protein (721 nt)	-12.9908	0.643593	0.545949
PITG_05675	Pi histone, putative (441 nt)	-13.8951	-0.80518	0.545993
PITG_03574	Pi serine/threonine-protein phosphatase 4 catalytic subunit	-12.4014	0.60876	0.546263
PITG_08693	Pi hook domain-containing protein (2751 nt)	-14.9165	-0.81315	0.54648
PITG_01419	Pi Major Facilitator Superfamily (MFS) (1956 nt)	-14.8868	-0.90283	0.546504
PITG_03265	Pi Monovalent Cation:Proton Antiporter-1 (CPA1) Family (17	-15.8005	-0.95978	0.546632
PITG_03650	Pi conserved hypothetical protein (2458 nt)	-15.2672	0.793103	0.547344
PITG_03590	Pi inositol hexakisphosphate and diphosphoinositol-pentakis	-15.5052	0.741783	0.547391
PITG_05476	Pi flavin-binding monooxygenase-like protein (1557 nt)	-15.8123	-0.87953	0.548105
PITG_04489	Pi peroxisome assembly factor, putative (2828 nt)	-16.5615	-1.10837	0.548341



PITG_20504	Pi conserved hypothetical protein (1002 nt)	-16.5615	-1.10837	0.548341
PITG_13676	Pi conserved hypothetical protein (555 nt)	-8.80006	-0.62734	0.548657
PITG_05546	Pi conserved hypothetical protein (1299 nt)	-14.6492	-0.78214	0.548893
PITG_13392	Pi conserved hypothetical protein (677 nt)	-12.5546	0.616004	0.549358
PITG_06700	Pi cell division cycle protein 48 (2039 nt)	-15.639	-0.9217	0.549568
PITG_06503	Pi hypothetical protein (1469 nt)	-11.389	-0.69347	0.550054
PITG_06408	Pi conserved hypothetical protein (1849 nt)	-12.1256	-0.62567	0.55024
PITG_03555	Pi importin-like protein (3240 nt)	-15.2673	0.910433	0.550434
PITG_21658	Pi conserved hypothetical protein (4189 nt)	-11.6817	-0.60468	0.550507
PITG_09004	Pi conserved hypothetical protein (925 nt)	-13.6338	-0.63597	0.550615
PITG_11743	Pi nuclear pore complex protein, putative (6165 nt)	-15.4175	-0.89484	0.550731
PITG_19065	Pi pyridine nucleotide-disulphide oxidoreductase, putative (1	-14.4532	0.668163	0.550809
PITG_03827	Pi conserved hypothetical protein (1240 nt)	-15.7685	-0.7673	0.551039
PITG_05938	Pi conserved hypothetical protein (1148 nt)	-13.2304	0.6852	0.551649
PITG_14592	Pi hypothetical protein (608 nt)	-13.8969	-0.67154	0.551725
PITG_09861	Pi secreted RxLR effector peptide, putative (702 nt)	-17.3059	-1.42757	0.551771
PITG_01787	Pi conserved hypothetical protein (1738 nt)	-15.0713	1.016411	0.551934
PITG_11178	Pi molybdenum cofactor synthesis protein 2 large subunit (6	-15.5237	-0.78197	0.551986
PITG_08090	Pi conserved hypothetical protein (3085 nt)	-12.8122	-0.62235	0.552134
PITG_08708	Pi conserved hypothetical protein (3084 nt)	-15.7343	0.708467	0.552499
PITG_08754	Pi conserved hypothetical protein (2329 nt)	-15.7343	0.708467	0.552499
PITG_19773	Pi serine/threonine protein kinase (2308 nt)	-15.7699	0.817078	0.552499
PITG_00960	Pi conserved hypothetical protein (2971 nt)	-17.2475	-1.54361	0.552881
PITG_06039	Pi conserved hypothetical protein (843 nt)	-17.2475	-1.54361	0.552881
PITG_20247	Pi hypothetical protein (2075 nt)	-17.2475	-1.54361	0.552881
PITG_14818	Pi guanylate-binding protein, putative (1890 nt)	-15.5118	-0.75736	0.553508
PITG_16788	Pi conserved hypothetical protein (1197 nt)	-15.3158	-0.7416	0.553664
PITG_02283	Pi conserved hypothetical protein (719 nt)	-13.1135	-0.6218	0.553702
PITG_01459	Pi conserved hypothetical protein (2081 nt)	-15.5859	0.827766	0.554034
PITG_14180	Pi glutamine synthetase (1184 nt)	-11.7227	0.603005	0.554134
PITG_01608	Pi Major Facilitator Superfamily (MFS) (1695 nt)	-14.5058	-0.67558	0.554246
PITG_00016	Pi DNA-binding protein, putative (708 nt)	-15.9024	-0.94309	0.554406
PITG_02917	Pi puromycin-sensitive aminopeptidase, putative (2655 nt)	-14.764	-0.68478	0.554907
PITG_15494	Pi cytosine deaminase (438 nt)	-14.576	-0.7364	0.554938
PITG_01353	Pi UDP-N-acetylglucosamine transferase subunit, putative (5	-15.2717	0.71615	0.555229
PITG_03074	Pi diacylglycerol acyltransferase, putative (1160 nt)	-15.2717	0.71615	0.555229
PITG_21514	Pi conserved hypothetical protein (845 nt)	-15.326	-0.75872	0.555229
PITG_09531	Pi conserved hypothetical protein (981 nt)	-13.9079	0.703331	0.555254
PITG_00452	Pi xylulose kinase, putative (1677 nt)	-15.7985	-0.79195	0.555408
PITG_05189	Pi conserved hypothetical protein (642 nt)	-15.8104	-0.88248	0.555408
PITG_19693	Pi conserved hypothetical protein (2062 nt)	-15.7994	-0.96225	0.555408
PITG_21643	Pi vacuolar protein sorting-associated protein 29 (650 nt)	-13.5019	0.647715	0.555453
PITG_14509	Pi hypothetical protein (243 nt)	-13.1725	-0.8229	0.555468
PITG_03943	Pi conserved hypothetical protein (672 nt)	-15.6895	1.0041	0.555514
PITG_12987	Pi kinesin-like protein (2238 nt)	-15.7386	1.170594	0.555514
PITG_22670	Pi PcF and SCR74-like cys-rich secreted peptide, putative (25	-8.18561	0.688736	0.555547
PITG_07887	Pi 26S proteasome non-ATPase regulatory subunit 6 (1430 n	-13.6161	0.623739	0.556394

PITG_02924	Pi conserved hypothetical protein (1970 nt)	-15.1023	-0.76826	0.556494
PITG_12152	Pi ribonuclease HIII (837 nt)	-15.4941	-0.69547	0.556536
PITG_13911	Pi conserved hypothetical protein (745 nt)	-15.1409	0.782787	0.556543
PITG_02679	Pi conserved hypothetical protein (3114 nt)	-15.0434	-0.70995	0.556575
PITG_09726	Pi phosphoribosylaminoimidazole carboxylase (1833 nt)	-15.0346	0.726165	0.556575
PITG_07529	Pi conserved hypothetical protein (536 nt)	-12.3782	0.587732	0.556876
PITG_16073	Pi alcohol dehydrogenase, putative (1376 nt)	-14.2322	-0.68654	0.556923
PITG_10169	Pi 26S protease regulatory subunit 7 (1450 nt)	-12.2863	0.577963	0.557184
PITG_05840	Pi cytochrome b-c1 complex subunit Rieske, putative (948 nt)	-10.8047	0.585199	0.557979
PITG_06238	Pi conserved hypothetical protein (736 nt)	-15.4974	-0.68931	0.558042
PITG_17273	Pi conserved hypothetical protein (3462 nt)	-14.6725	0.67146	0.558177
PITG_03416	Pi cysteine protease family C01A, putative (1530 nt)	-13.8507	-0.62858	0.558182
PITG_16117	Pi conserved hypothetical protein (875 nt)	-9.74675	-0.59983	0.558823
PITG_12049	Pi conserved hypothetical protein (683 nt)	-10.7271	0.566459	0.559088
PITG_19038	Pi conserved hypothetical protein (2066 nt)	-14.1001	0.640916	0.559094
PITG_00613	Pi 26S protease regulatory subunit 8 (1558 nt)	-12.5179	0.599011	0.559595
PITG_19842	Pi conserved hypothetical protein (3047 nt)	-14.9886	-0.78271	0.559865
PITG_13641	Pi glucanase inhibitor protein, putative (771 nt)	-13.6645	-0.67387	0.559965
PITG_19865	Pi carboxyvinyl-carboxyphosphonate phosphorylmutase, put	-13.9733	-0.72947	0.560204
PITG_05497	Pi conserved hypothetical protein (904 nt)	-12.5773	0.576779	0.560329
PITG_10219	Pi V-type proton ATPase subunit E, putative (824 nt)	-11.5661	0.571396	0.560778
PITG_10971	Pi protein kinase, putative (2405 nt)	-13.9801	0.626989	0.560929
PITG_06970	Pi conserved hypothetical protein (3040 nt)	-13.7079	-0.70351	0.561145
PITG_06992	Pi glucosidase 2 subunit beta, putative (3210 nt)	-14.6852	0.648837	0.561149
PITG_17568	Pi conserved hypothetical protein (2884 nt)	-15.2305	-0.74381	0.561161
PITG_08394	Pi conserved hypothetical protein (3215 nt)	-15.4148	-0.71542	0.561243
PITG_11010	Pi conserved hypothetical protein (4156 nt)	-15.0789	0.686507	0.561258
PITG_08995	Pi conserved hypothetical protein (718 nt)	-15.3553	0.731227	0.561411
PITG_00152	Pi kinesin-like protein (4503 nt)	-15.31	-0.83459	0.561435
PITG_02981	Pi conserved hypothetical protein (1555 nt)	-15.2973	-0.78032	0.561435
PITG_12142	Pi conserved hypothetical protein (615 nt)	-15.2786	0.757703	0.561435
PITG_18738	Pi hypothetical protein (906 nt)	-14.3884	-0.72027	0.561457
PITG_14831	Pi conserved hypothetical protein (1281 nt)	-14.2994	-0.6463	0.561514
PITG_13068	Pi conserved hypothetical protein (737 nt)	-14.7399	0.803688	0.561569
PITG_01535	Pi myosin-like protein (3890 nt)	-12.772	-0.6717	0.561716
PITG_08676	Pi 26S proteasome non-ATPase regulatory subunit 14, putati	-12.7904	0.592424	0.561845
PITG_20192	Pi ORM1-like protein (783 nt)	-11.7055	-0.61259	0.561846
PITG_08403	Pi conserved hypothetical protein (1685 nt)	-13.4528	-0.64567	0.562016
PITG_13078	Pi conserved hypothetical protein (592 nt)	-14.5503	0.610689	0.562086
PITG_13492	Pi conserved hypothetical protein (1837 nt)	-14.9171	-0.76399	0.562306
PITG_12994	Pi conserved hypothetical protein (4956 nt)	-15.9988	1.204852	0.562881
PITG_20200	Pi vacuolar protein sorting-associated protein, putative (218	-15.9402	-1.0271	0.562881
PITG_08559	Pi conserved hypothetical protein (622 nt)	-16.3082	1.135941	0.563339
PITG_22458	Pi conserved hypothetical protein (451 nt)	-16.3082	1.135941	0.563339
PITG_22522	Pi conserved hypothetical protein (446 nt)	-11.6301	0.585761	0.563466
PITG_00229	Pi 26S protease regulatory subunit S10B (1485 nt)	-13.6331	0.624528	0.563468
PITG_14885	Pi DNA-directed RNA polymerase II 19 kDa polypeptide (701	-13.6478	-0.6672	0.563468

PITG_18095	Pi transmembrane protein, putative (886 nt)	-14.8646	0.691923	0.563667
PITG_11202	Pi conserved hypothetical protein (1053 nt)	-14.8265	0.615765	0.563667
PITG_09965	Pi protein transport Sec23/Sec24-like protein (2541 nt)	-14.5675	0.650727	0.563767
PITG_10031	Pi lysosomal alpha-mannosidase, putative (3135 nt)	-12.8186	0.683174	0.563772
PITG_15537	Pi conserved hypothetical protein (786 nt)	-14.0497	-0.94763	0.564157
PITG_18361	Pi inositol oxygenase (918 nt)	-14.0905	0.607153	0.564403
PITG_06886	Pi conserved hypothetical protein (932 nt)	-15.1383	-0.89932	0.564404
PITG_19216	Pi conserved hypothetical protein (644 nt)	-15.3521	0.723873	0.564421
PITG_06776	Pi RAC family serine/threonine-protein kinase (2717 nt)	-14.9922	0.665801	0.564673
PITG_01753	Pi conserved hypothetical protein (659 nt)	-16.5382	-1.07402	0.564681
PITG_21286	Pi conserved hypothetical protein (466 nt)	-16.5382	-1.07402	0.564681
PITG_09895	Pi conserved hypothetical protein (1317 nt)	-13.8485	-0.69057	0.564819
PITG_07870	Pi conserved hypothetical protein (363 nt)	-16.1041	-0.90109	0.565002
PITG_09298	Pi conserved hypothetical protein (885 nt)	-13.5198	-0.60839	0.565195
PITG_00164	Pi conserved hypothetical protein (1426 nt)	-14.4733	-0.70704	0.565732
PITG_21210	Pi conserved hypothetical protein (1694 nt)	-15.4624	-0.81009	0.565827
PITG_09348	Pi glutaredoxin, putative (1448 nt)	-14.3361	0.699895	0.566034
PITG_15955	Pi epoxide hydrolase, putative (1375 nt)	-14.3443	0.682359	0.566034
PITG_20945	Pi conserved hypothetical protein (735 nt)	-15.6263	0.655374	0.566243
PITG_21011	Pi 14 kDa zinc-binding protein (608 nt)	-13.0317	0.646144	0.5663
PITG_19421	Pi hypothetical protein (264 nt)	-14.7505	0.677337	0.566378
PITG_07349	Pi gamma-glutamyl hydrolase, putative (954 nt)	-13.7312	0.583337	0.566882
PITG_18652	Pi Cation Diffusion Facilitator (CDF) Family (1946 nt)	-15.8245	-0.91215	0.566883
PITG_01034	Pi Mitochondrial Carrier (MC) Family (787 nt)	-13.4782	-0.58717	0.567027
PITG_01663	Pi conserved hypothetical protein (10315 nt)	-16.5602	-1.11511	0.56717
PITG_07776	Pi conserved hypothetical protein (829 nt)	-16.5602	-1.11511	0.56717
PITG_14392	Pi conserved hypothetical protein (2690 nt)	-16.5602	-1.11511	0.56717
PITG_01146	Pi selenide, water dikinase, putative (1363 nt)	-13.9603	0.670126	0.568013
PITG_17594	Pi conserved hypothetical protein (2173 nt)	-13.772	-0.64701	0.56821
PITG_00338	Pi conserved hypothetical protein (978 nt)	-14.4737	-0.76623	0.568211
PITG_09281	Pi conserved hypothetical protein (2811 nt)	-15.8099	-0.88195	0.5683
PITG_07960	Pi alpha-tubulin, putative (1576 nt)	-12.8688	-0.63752	0.568312
PITG_17990	Pi cell division protein kinase, putative (1253 nt)	-14.0621	0.609869	0.568486
PITG_19537	Pi calnexin, putative (1746 nt)	-14.0793	-0.68204	0.568486
PITG_06423	Pi conserved hypothetical protein (420 nt)	-11.8465	-0.63971	0.568545
PITG_00827	Pi prohibitin (1137 nt)	-11.166	0.558237	0.568818
PITG_14456	Pi glutamyl-tRNA synthetase, putative (3088 nt)	-13.5143	-0.58309	0.568842
PITG_16978	Pi crossover junction endonuclease MUS81-like protein (189	-15.4375	-0.76002	0.568855
PITG_00475	Pi conserved hypothetical protein (749 nt)	-15.1971	0.737576	0.568991
PITG_00725	Pi N-acetylglucosamine-1-phosphotransferase subunits alpha	-15.674	-0.79833	0.569157
PITG_06006	Pi conserved hypothetical protein (986 nt)	-13.6483	0.62616	0.569355
PITG_00128	Pi conserved hypothetical protein (675 nt)	-14.7164	-0.7013	0.569403
PITG_01762	Pi glycyl-tRNA synthetase (2046 nt)	-13.6663	0.626554	0.569477
PITG_09873	Pi pre-mRNA-splicing factor SPF27, putative (2223 nt)	-13.4619	-0.62754	0.569638
PITG_13848	Pi conserved hypothetical protein (2816 nt)	-14.1499	0.65162	0.570188
PITG_11600	Pi carbohydrate-binding protein, putative (1070 nt)	-14.2058	-0.67178	0.57067
PITG_09315	Pi conserved hypothetical protein (1081 nt)	-13.2603	0.585554	0.57068

PITG_18288	Pi endoribonuclease L-PSP, putative (697 nt)	-13.661	0.609136	0.571254
PITG_15748	Pi conserved hypothetical protein (1106 nt)	-16.0173	-0.88338	0.571434
PITG_15133	Pi conserved hypothetical protein (1393 nt)	-16.1429	-0.82537	0.571707
PITG_00930	Pi conserved hypothetical protein (883 nt)	-12.239	-0.57831	0.571768
PITG_20537	Pi conserved hypothetical protein (1243 nt)	-15.7558	1.053567	0.572052
PITG_07103	Pi nuclear pore complex protein Nup155 (4625 nt)	-15.3875	0.665389	0.573356
PITG_08794	Pi hypothetical protein (739 nt)	-14.8782	0.701975	0.573482
PITG_15076	Pi methylmalonate semialdehyde dehydrogenase [acylating]	-13.3304	0.637309	0.573553
PITG_20486	Pi conserved hypothetical protein (420 nt)	-15.1471	0.896619	0.573703
PITG_10498	Pi conserved hypothetical protein (658 nt)	-10.281	-0.62365	0.573928
PITG_10416	Pi nuclear pore glycoprotein, putative (1609 nt)	-14.3404	0.692068	0.574421
PITG_01525	Pi conserved hypothetical protein (901 nt)	-13.6112	-0.56597	0.57444
PITG_01411	Pi elongation of very long chain fatty acids protein, putative	-12.8792	0.614509	0.574574
PITG_03824	Pi conserved hypothetical protein (672 nt)	-14.4098	0.681849	0.574873
PITG_18230	Pi glycoside hydrolase, putative (1426 nt)	-14.9045	0.729509	0.574953
PITG_04609	Pi hypothetical protein (-4T49) (529 nt)	-14.034	0.623763	0.575117
PITG_14911	Pi mitochondrial folate transporter/carrier, putative (1137 nt)	-15.2575	-0.77309	0.575144
PITG_10343	Pi conserved hypothetical protein (4480 nt)	-15.0938	-0.74407	0.575233
PITG_13644	Pi conserved hypothetical protein (1181 nt)	-15.1133	-0.84758	0.575233
PITG_00223	Pi DNA repair and recombination protein RAD54 (3231 nt)	-16.3479	-0.91252	0.575565
PITG_19931	Pi conserved hypothetical protein (2001 nt)	-16.3479	-0.91252	0.575565
PITG_17748	Pi leucyl-tRNA synthetase, putative (2767 nt)	-16.1352	0.91212	0.575698
PITG_11643	Pi voltage-gated potassium channel subunit beta, putative (1	-15.5525	-0.87725	0.575759
PITG_07153	Pi serine protease family S10, putative (1491 nt)	-14.352	-0.68668	0.576074
PITG_14247	Pi conserved hypothetical protein (4481 nt)	-16.9218	-1.18392	0.576627
PITG_03393	Pi autophagy-related protein, putative (1234 nt)	-11.2842	-0.55517	0.577109
PITG_07868	Pi conserved hypothetical protein (3591 nt)	-15.008	0.721449	0.577278
PITG_21377	Pi conserved hypothetical protein (1445 nt)	-13.7063	-0.60052	0.577773
PITG_12604	Pi hypothetical protein (2702 nt)	-13.7178	-0.62828	0.577773
PITG_00683	Pi conserved hypothetical protein (567 nt)	-14.5123	-0.63211	0.57805
PITG_01957	Pi serine/threonine-protein phosphatase 2B catalytic subunit	-16.3544	-0.83191	0.578076
PITG_07108	Pi conserved hypothetical protein (1008 nt)	-15.2085	0.731291	0.578185
PITG_00589	Pi conserved hypothetical protein (442 nt)	-15.121	0.666861	0.578214
PITG_03532	Pi conserved hypothetical protein (2049 nt)	-15.1294	-0.67642	0.578214
PITG_00535	Pi hypothetical protein (891 nt)	-16.9611	-1.10575	0.578832
PITG_01113	Pi conserved hypothetical protein (1345 nt)	-16.9611	-1.10575	0.578832
PITG_07830	Pi protein kinase (2166 nt)	-16.9611	-1.10575	0.578832
PITG_13500	Pi 40S ribosomal protein S4 (1129 nt)	-8.88105	0.535899	0.578854
PITG_04599	Pi sestrin-like protein (1761 nt)	-14.1969	-0.64379	0.579127
PITG_06648	Pi conserved hypothetical protein (759 nt)	-15.631	0.781785	0.579207
PITG_13986	Pi trafficking protein particle complex subunit 3 (1025 nt)	-12.9933	-0.5842	0.579328
PITG_22389	Pi conserved hypothetical protein (1110 nt)	-15.7648	-0.78342	0.579505
PITG_01921	Pi conserved hypothetical protein (890 nt)	-15.2855	0.739529	0.579546
PITG_16116	Pi conserved hypothetical protein (1453 nt)	-14.6535	0.708728	0.579811
PITG_11791	Pi conserved hypothetical protein (309 nt)	-14.1023	-0.62392	0.579834
PITG_13980	Pi ARP2/3 complex 20 kDa subunit (1341 nt)	-13.8337	-0.62572	0.579845
PITG_16161	Pi hypothetical protein (2019 nt)	-12.2088	-0.63446	0.579924

PITG_10961	Pi conserved hypothetical protein (1307 nt)	-14.6437	-0.72373	0.579933
PITG_17996	Pi conserved hypothetical protein (1524 nt)	-16.9397	-1.06231	0.579933
PITG_13845	Pi conserved hypothetical protein (2278 nt)	-14.7822	0.617672	0.580298
PITG_07238	Pi conserved hypothetical protein (677 nt)	-13.5006	-0.60911	0.58051
PITG_04114	Pi small cellulose binding protein, putative (512 nt)	-14.5957	0.68223	0.581406
PITG_13620	Pi conserved hypothetical protein (3219 nt)	-14.617	-0.65261	0.581406
PITG_14249	Pi conserved hypothetical protein (1489 nt)	-14.603	-0.62343	0.581406
PITG_11012	Pi conserved hypothetical protein (1337 nt)	-13.9077	0.590086	0.581598
PITG_13070	Pi conserved hypothetical protein (633 nt)	-14.2311	-0.66524	0.582308
PITG_02152	Pi hypothetical protein (2048 nt)	-15.2258	-0.7242	0.582703
PITG_03163	Pi conserved hypothetical protein (2087 nt)	-15.1362	-0.70101	0.582844
PITG_08135	Pi D-aspartate oxidase, putative (1354 nt)	-13.298	0.595707	0.582856
PITG_06012	Pi conserved hypothetical protein (669 nt)	-14.5812	0.633709	0.583044
PITG_13298	Pi conserved hypothetical protein (2908 nt)	-16.3728	-0.86504	0.583069
PITG_19281	Pi ATP-binding cassette sub-family E member 1 (2034 nt)	-14.3078	0.636004	0.583406
PITG_02092	Pi electron transfer flavoprotein-ubiquinone oxidoreductase	-13.5122	-0.65491	0.583532
PITG_00289	Pi glutamate carboxypeptidase, putative (2350 nt)	-15.4355	-0.72099	0.58367
PITG_03094	Pi conserved hypothetical protein (607 nt)	-15.4485	0.888475	0.58367
PITG_09540	Pi 60S ribosomal protein L19-1 (774 nt)	-8.7559	-0.54095	0.583966
PITG_14747	Pi conserved hypothetical protein (2999 nt)	-13.8549	-0.62047	0.584173
PITG_07797	Pi methionyl-tRNA synthetase, putative (2231 nt)	-15.2191	0.753236	0.584198
PITG_01330	Pi lysophospholipid acyltransferase, putative (1563 nt)	-14.3524	0.601992	0.584362
PITG_18274	Pi serine protease, putative (3261 nt)	-14.6121	-0.69166	0.584673
PITG_14300	Pi conserved hypothetical protein (1090 nt)	-15.3552	0.73548	0.58502
PITG_01267	Pi glycoside hydrolase, putative (1419 nt)	-15.4346	-0.76934	0.585123
PITG_03560	Pi conserved hypothetical protein (12004 nt)	-15.4104	-0.72502	0.585123
PITG_08157	Pi queuine tRNA-ribosyltransferase domain-containing prote	-15.3989	-0.70206	0.585123
PITG_03429	Pi conserved hypothetical protein (959 nt)	-15.3207	-0.68756	0.585297
PITG_09282	Pi calcium-transporting ATPase 1, endoplasmic reticulum-tyr	-12.1377	0.614478	0.585316
PITG_07926	Pi glycoprotein-N-acetylgalactosamine 3-beta-galactosyltran	-16.9466	-1.13571	0.58542
PITG_11184	Pi conserved hypothetical protein (2305 nt)	-16.9466	-1.13571	0.58542
PITG_16462	Pi conserved hypothetical protein (3268 nt)	-16.9466	-1.13571	0.58542
PITG_03314	Pi conserved hypothetical protein (755 nt)	-14.2647	0.66076	0.585617
PITG_03898	Pi serine protease family S01B, putative (1839 nt)	-15.2269	-0.72283	0.585687
PITG_02684	Pi peptidyl-tRNA hydrolase, putative (797 nt)	-13.8571	0.593539	0.585877
PITG_13340	Pi Folate-Biopterin Transporter (FBT) Family (1773 nt)	-15.6583	-0.77567	0.586248
PITG_03795	Pi conserved hypothetical protein (707 nt)	-13.5939	0.602219	0.586411
PITG_01606	Pi conserved hypothetical protein (3729 nt)	-16.9246	-1.09055	0.586514
PITG_09362	Pi conserved hypothetical protein (2118 nt)	-16.9246	-1.09055	0.586514
PITG_11084	Pi transmembrane protein, putative (2352 nt)	-16.9246	-1.09055	0.586514
PITG_15235	Pi secreted RxLR effector peptide, putative (552 nt)	-13.6554	-0.88106	0.586694
PITG_11117	Pi conserved hypothetical protein (1666 nt)	-15.3504	0.784655	0.586782
PITG_18342	Pi alcohol dehydrogenase, putative (980 nt)	-13.7747	-0.61361	0.587054
PITG_01814	Pi conserved hypothetical protein (1520 nt)	-14.3877	-0.74229	0.587592
PITG_14448	Pi hypothetical protein (1081 nt)	-15.7981	-0.77718	0.587763
PITG_14269	Pi transmembrane protein, putative (1149 nt)	-14.0062	-0.64711	0.587885
PITG_02475	Pi conserved hypothetical protein (501 nt)	-16.5153	-1.12105	0.588022

PITG_21853	Pi transmembrane protein, putative (1840 nt)	-15.3035	0.719769	0.588262
PITG_07828	Pi serine carboxypeptidase-like family S10, putative (1835 nt)	-14.2344	0.598217	0.588906
PITG_09039	Pi calcium/calmodulin-dependent protein kinase, putative (1	-14.8665	-0.71448	0.588945
PITG_07888	Pi conserved hypothetical protein (899 nt)	-15.5482	0.685942	0.588978
PITG_11608	Pi conserved hypothetical protein (927 nt)	-14.6757	-0.75783	0.589374
PITG_05326	Pi Poly(A) polymerase, putative (3459 nt)	-14.619	-0.7075	0.589512
PITG_12041	Pi cysteine protease family C01A, putative (1131 nt)	-12.4933	0.557128	0.589539
PITG_21173	Pi nucleotide-binding protein 1 (1186 nt)	-13.4228	-0.56948	0.589642
PITG_07646	Pi conserved hypothetical protein (465 nt)	-14.9094	-0.73839	0.590233
PITG_05321	Pi conserved hypothetical protein (1515 nt)	-16.3747	-0.93511	0.590483
PITG_02664	Pi ATP-dependent RNA helicase DBP2, putative (2496 nt)	-12.6029	-0.54834	0.590539
PITG_03846	Pi conserved hypothetical protein (1944 nt)	-14.9549	-0.72385	0.590543
PITG_01498	Pi ATP-binding cassette sub-family F member 2 (1895 nt)	-13.9	0.595252	0.590608
PITG_04001	Pi peptidase family U48, putative (1432 nt)	-15.4353	-0.81664	0.590885
PITG_12565	Pi conserved hypothetical protein (681 nt)	-13.5657	-0.58602	0.591115
PITG_11486	Pi protein-L-isoaspartate O-methyltransferase (795 nt)	-15.3175	-0.69475	0.591204
PITG_06969	Pi oxidoreductase, putative (1123 nt)	-13.5274	0.571759	0.591629
PITG_03608	Pi serine/threonine-protein phosphatase 5 (1716 nt)	-14.4233	0.589845	0.591641
PITG_08143	Pi elicitor-like protein (459 nt)	-16.3678	-0.87748	0.59171
PITG_19659	Pi ATP-binding Cassette (ABC) Superfamily (3837 nt)	-16.3678	-0.87748	0.59171
PITG_19961	Pi glyceraldehyde-3-phosphate dehydrogenase (669 nt)	-10.5785	0.539245	0.591773
PITG_19167	Pi conserved hypothetical protein (942 nt)	-15.5403	0.669759	0.591826
PITG_13976	Pi DEAD/DEAH box RNA helicase, putative (1502 nt)	-16.9178	-1.01069	0.591968
PITG_01737	Pi DNA damage-binding protein, putative (3453 nt)	-14.8897	-0.71385	0.592039
PITG_16925	Pi hypothetical protein (582 nt)	-9.18742	0.565285	0.592199
PITG_16814	Pi conserved hypothetical protein (1704 nt)	-14.0913	-0.65793	0.592243
PITG_10866	Pi spermidine synthase, putative (1070 nt)	-15.4389	0.734536	0.592314
PITG_20344	Pi conserved hypothetical protein (1577 nt)	-15.4365	0.862678	0.592314
PITG_03763	Pi pre-mRNA-splicing factor SF2-like protein (1786 nt)	-12.4376	-0.54508	0.592341
PITG_12465	Pi adenylate kinase, putative (806 nt)	-15.0516	-0.65704	0.592351
PITG_17263	Pi regulator of microtubule dynamics protein, putative (1023	-12.5522	-0.56929	0.592464
PITG_10916	Pi eukaryotic translation initiation factor 3, putative (1533 nt)	-13.1674	0.549804	0.59274
PITG_04053	Pi conserved hypothetical protein (670 nt)	-16.3307	-0.95213	0.592935
PITG_10048	Pi conserved hypothetical protein (906 nt)	-16.3614	-0.96305	0.592935
PITG_17883	Pi condensin complex subunit 3, putative (3779 nt)	-15.5775	-0.7702	0.593242
PITG_02735	Pi 2,3-bisphosphoglycerate-dependent phosphoglycerate mu	-14.3016	-0.59522	0.593353
PITG_10635	Pi conserved hypothetical protein (470 nt)	-14.4955	0.58359	0.594072
PITG_11364	Pi conserved hypothetical protein (936 nt)	-13.4981	0.597205	0.594337
PITG_18731	Pi 26S proteasome non-ATPase regulatory subunit, putative	-13.0671	0.622652	0.594344
PITG_10002	Pi conserved hypothetical protein (1327 nt)	-14.7898	0.645562	0.594368
PITG_17089	Pi conserved hypothetical protein (706 nt)	-14.7869	0.689798	0.594368
PITG_01796	Pi potassium/sodium hyperpolarization-activated cyclic nucl	-15.8392	1.080416	0.594553
PITG_21556	Pi conserved hypothetical protein (1813 nt)	-13.1168	-0.55428	0.594563
PITG_01203	Pi mitogen-activated protein kinase, putative (2335 nt)	-15.1046	0.6331	0.59491
PITG_10837	Pi conserved hypothetical protein (3679 nt)	-15.1248	-0.66202	0.59491
PITG_08669	Pi 3-methyl-2-oxobutanoate hydroxymethyltransferase (153	-14.9159	0.611507	0.595098
PITG_00400	Pi conserved hypothetical protein (796 nt)	-13.5104	-0.64951	0.595223

PITG_06775	Pi conserved hypothetical protein (398 nt)	-15.3372	0.697941	0.595573
PITG_16210	Pi ubulin-tyrosine ligase-like protein (2111 nt)	-14.3592	0.653799	0.595712
PITG_00459	Pi coatomer subunit zeta-1, putative (1166 nt)	-13.0455	0.549477	0.595724
PITG_04579	Pi conserved hypothetical protein (2495 nt)	-15.8882	-0.78427	0.595837
PITG_22486	Pi conserved hypothetical protein (482 nt)	-15.8594	-0.84186	0.595837
PITG_11718	Pi hypothetical protein (1646 nt)	-12.0547	0.633405	0.595847
PITG_14888	Pi conserved hypothetical protein (707 nt)	-14.0355	-0.58843	0.595972
PITG_20383	Pi conserved hypothetical protein (1221 nt)	-12.0256	-0.52869	0.596027
PITG_20725	Pi histone H3.3 type 1 (656 nt)	-11.4835	-0.5081	0.596344
PITG_15954	Pi SNARE associated Golgi protein, putative (970 nt)	-12.883	-0.54931	0.59684
PITG_18237	Pi replication factor C subunit 2 (998 nt)	-15.8457	-0.81401	0.59718
PITG_05480	Pi conserved hypothetical protein (3958 nt)	-14.759	-0.72763	0.597452
PITG_16352	Pi conserved hypothetical protein (1015 nt)	-13.8349	-0.53874	0.59767
PITG_11588	Pi hypothetical cleavage-induced protein (1378 nt)	-12.6367	0.526315	0.59787
PITG_17710	Pi charged multivesicular body protein 1b-2 (747 nt)	-13.9507	-0.60773	0.597874
PITG_00496	Pi 3'5'-cyclic nucleotide phosphodiesterase, putative (3735 nt)	-15.8191	-0.61117	0.598519
PITG_09600	Pi conserved hypothetical protein (561 nt)	-12.3029	-0.55336	0.598835
PITG_12961	Pi alanyl-tRNA synthetase, mitochondrial precursor (3091 nt)	-13.0981	0.576829	0.599235
PITG_04547	Pi conserved hypothetical protein (3742 nt)	-15.1192	-0.73423	0.599334
PITG_08132	Pi conserved hypothetical protein (1057 nt)	-14.4683	-0.66616	0.599507
PITG_23128	Pi katanin p80 subunit (2680 nt)	-15.0328	0.59589	0.599926
PITG_07949	Pi alpha-tubulin, putative (1407 nt)	-14.3967	-0.75059	0.600012
PITG_05894	Pi conserved hypothetical protein (1943 nt)	-15.733	-0.91624	0.600013
PITG_00442	Pi cytochrome c/c1 heme lyase, putative (1233 nt)	-14.5497	0.614877	0.600149
PITG_10707	Pi PpiC-type peptidyl-prolyl cis-trans isomerase, putative (69 nt)	-12.1544	0.520221	0.600428
PITG_00635	Pi Ryanodine-Inositol 1,4,5-triphosphate Receptor Ca2 Channel	-16.9384	-1.15439	0.60064
PITG_01337	Pi conserved hypothetical protein (4089 nt)	-16.9384	-1.15439	0.60064
PITG_07010	Pi conserved hypothetical protein (1227 nt)	-16.9384	-1.15439	0.60064
PITG_14051	Pi beta-glucan synthesis-associated protein, putative (2177 nt)	-16.9384	-1.15439	0.60064
PITG_16090	Pi conserved hypothetical protein (6724 nt)	-16.9384	-1.15439	0.60064
PITG_05667	Pi vacuolar protein sorting-associated protein, putative (361 nt)	-15.8082	0.782071	0.601184
PITG_13064	Pi conserved hypothetical protein (1384 nt)	-15.8606	-0.72789	0.601184
PITG_13413	Pi conserved hypothetical protein (1419 nt)	-15.883	0.894136	0.601184
PITG_05149	Pi conserved hypothetical protein (2082 nt)	-15.0798	-0.71196	0.601421
PITG_17156	Pi conserved hypothetical protein (623 nt)	-14.2502	0.564251	0.601883
PITG_22135	Pi 60S ribosomal protein L10a-1 (895 nt)	-8.82511	0.506979	0.601889
PITG_00134	Pi COP9 signalosome complex subunit 3, putative (1502 nt)	-14.8464	-0.68443	0.601903
PITG_15983	Pi conserved hypothetical protein (977 nt)	-14.1512	-0.73546	0.60192
PITG_14229	Pi mannose-1-phosphate guanyltransferase beta, putative (5 nt)	-12.6078	0.507342	0.602767
PITG_02088	Pi conserved hypothetical protein (3152 nt)	-16.8892	-1.25297	0.602798
PITG_08410	Pi conserved hypothetical protein (1389 nt)	-16.9152	-1.10473	0.602798
PITG_11028	Pi mevalonate kinase, putative (1306 nt)	-16.9152	-1.10473	0.602798
PITG_12003	Pi conserved hypothetical protein (1960 nt)	-16.8892	-1.25297	0.602798
PITG_14135	Pi conserved hypothetical protein (593 nt)	-16.8892	-1.25297	0.602798
PITG_20159	Pi Voltage-gated Ion Channel (VIC) Superfamily (7118 nt)	-16.8892	-1.25297	0.602798
PITG_21181	Pi conserved hypothetical protein (3348 nt)	-16.9152	-1.10473	0.602798
PITG_23007	Pi histidine kinase (6042 nt)	-16.9152	-1.10473	0.602798

PITG_04608	Pi conserved hypothetical protein (2467 nt)	-15.0608	0.728462	0.602909
PITG_20630	Pi Cation Diffusion Facilitator (CDF) Family (984 nt)	-15.2307	0.632079	0.602977
PITG_19568	Pi crinkler (CRN) family protein, pseudogene (1056 nt)	-10.0179	-0.66735	0.60325
PITG_06597	Pi protein phosphatase 2A regulatory B subunit, putative (20	-12.4677	-0.53903	0.603427
PITG_15960	Pi conserved hypothetical protein (2469 nt)	-14.8019	0.589426	0.603445
PITG_05902	Pi Major Facilitator Superfamily (MFS) (1749 nt)	-12.9888	0.53145	0.603646
PITG_13736	Pi diacylglycerol kinase (2249 nt)	-15.8683	0.864155	0.603832
PITG_16448	Pi hypothetical protein (1170 nt)	-15.654	0.858976	0.604064
PITG_21059	Pi conserved hypothetical protein (870 nt)	-14.0408	0.627259	0.604207
PITG_03020	Pi cysteine protease family C01A, putative (1608 nt)	-10.8175	-0.50346	0.604232
PITG_23197	Pi Crinkler (CRN) family protein, pseudogene (331 nt)	-16.1306	-0.93252	0.604286
PITG_13153	Pi GTP-binding protein, putative (1780 nt)	-13.8439	-0.58141	0.604377
PITG_03774	Pi conserved hypothetical protein (3442 nt)	-15.5868	0.871002	0.60439
PITG_12503	Pi conserved hypothetical protein (1477 nt)	-15.5868	0.871002	0.60439
PITG_04591	Pi protein kinase (1318 nt)	-13.5731	0.539086	0.604398
PITG_01138	Pi beta-galactosidase, putative (2469 nt)	-14.0076	-0.56787	0.604419
PITG_03287	Pi conserved hypothetical protein (1545 nt)	-15.2848	-0.67625	0.604432
PITG_15695	Pi conserved hypothetical protein (2460 nt)	-14.668	-0.70567	0.604752
PITG_15875	Pi conserved hypothetical protein (2397 nt)	-14.5594	-0.67876	0.60485
PITG_12141	Pi H - or Na -translocating F-type, V-type and A-type ATPase	-12.6418	0.541354	0.604903
PITG_16469	Pi RMD5 family protein (2464 nt)	-13.7524	-0.62242	0.604944
PITG_04204	Pi geranylgeranyl transferase type-2 subunit alpha, putative	-15.4012	0.758922	0.604962
PITG_17359	Pi calcium/calmodulin-dependent protein kinase kinase, putative	-13.8146	-0.59179	0.605079
PITG_03545	Pi conserved hypothetical protein (1213 nt)	-14.2304	-0.62008	0.605157
PITG_20559	Pi conserved hypothetical protein (991 nt)	-14.9224	0.604838	0.605506
PITG_12525	Pi conserved hypothetical protein (600 nt)	-14.995	0.662155	0.605672
PITG_01437	Pi mediator of RNA polymerase II transcription subunit, putative	-13.8492	0.594817	0.606029
PITG_09944	Pi hypothetical protein (1224 nt)	-15.0904	0.658479	0.606591
PITG_03606	Pi conserved oligomeric Golgi complex subunit, putative (251	-16.1749	-0.69	0.606604
PITG_01748	Pi mitochondrial inner membrane protein OXA1 (1920 nt)	-14.2255	0.557483	0.606775
PITG_18658	Pi conserved hypothetical protein (1286 nt)	-15.2972	0.705823	0.606984
PITG_19105	Pi conserved hypothetical protein (948 nt)	-14.2885	0.769066	0.607069
PITG_19741	Pi conserved hypothetical protein (781 nt)	-12.858	0.567852	0.60713
PITG_01870	Pi conserved hypothetical protein (1468 nt)	-15.216	0.663007	0.607322
PITG_20904	Pi small nuclear ribonucleoprotein Sm D1 (424 nt)	-13.1536	0.538812	0.60734
PITG_19198	Pi conserved hypothetical protein (612 nt)	-13.1153	0.524462	0.607415
PITG_05289	Pi conserved hypothetical protein (1216 nt)	-13.8446	-0.5858	0.607671
PITG_00743	Pi N-acetylglucosamine-1-phosphotransferase subunits alpha	-15.9367	-0.98035	0.607772
PITG_07206	Pi hypothetical protein (1386 nt)	-15.7928	0.674193	0.607772
PITG_13056	Pi Mitochondrial Carrier (MC) Family (1210 nt)	-15.8321	0.691339	0.607772
PITG_05104	Pi conserved hypothetical protein (928 nt)	-15.8668	-1.02994	0.607904
PITG_08310	Pi conserved hypothetical protein (354 nt)	-14.8192	-0.62929	0.608024
PITG_12527	Pi conserved hypothetical protein (1653 nt)	-15.116	-0.72202	0.608025
PITG_12099	Pi serine protease family S09A, putative (2235 nt)	-14.7425	-0.68778	0.608117
PITG_02527	Pi histone H2A variant 1 (654 nt)	-12.4954	0.527298	0.608411
PITG_05688	Pi splicing factor U2AF 35 kDa subunit (1193 nt)	-13.2418	-0.54314	0.608487
PITG_00038	Pi myb-like DNA-binding protein, putative (2903 nt)	-15.2683	-0.7509	0.608758



PITG_17627	Pi conserved hypothetical protein (3774 nt)	-15.2353	0.729326	0.608758
PITG_17040	Pi cellulose binding elicitor lectin, putative (1143 nt)	-15.0503	0.705873	0.608796
PITG_06358	Pi callose synthase, putative (7335 nt)	-14.1831	-0.72793	0.608802
PITG_16299	Pi conserved hypothetical protein (2944 nt)	-15.8783	-0.80427	0.609077
PITG_19223	Pi conserved hypothetical protein (3603 nt)	-15.8463	0.857158	0.609077
PITG_20152	Pi conserved hypothetical protein (6347 nt)	-15.8783	-0.80427	0.609077
PITG_02487	Pi conserved hypothetical protein (939 nt)	-14.849	-0.7463	0.609536
PITG_12837	Pi N-carbamoylputrescine amidase (1332 nt)	-14.8406	0.731085	0.609536
PITG_13074	Pi cysteine protease family C01A, putative (1277 nt)	-13.4284	-0.55819	0.610131
PITG_11724	Pi conserved hypothetical protein (774 nt)	-14.8905	-0.71071	0.610206
PITG_04115	Pi conserved hypothetical protein (2899 nt)	-15.8511	-0.85884	0.610379
PITG_06922	Pi conserved hypothetical protein (651 nt)	-15.9026	-0.87144	0.610379
PITG_11242	Pi conserved hypothetical protein (1236 nt)	-15.8215	-0.66224	0.610379
PITG_09389	Pi trehalose-phosphatase, putative (3869 nt)	-13.0434	-0.53969	0.610825
PITG_00155	Pi conserved hypothetical protein (1187 nt)	-13.4749	-0.61078	0.610848
PITG_08445	Pi cystathionine gamma-lyase (1227 nt)	-13.4024	-0.64153	0.611129
PITG_13966	Pi conserved hypothetical protein (1026 nt)	-15.0415	-0.70812	0.6114
PITG_06402	Pi formin-homology 2 domain-containing protein (3315 nt)	-16.1905	-0.72144	0.6115
PITG_15240	Pi conserved hypothetical protein (2706 nt)	-16.1905	-0.72144	0.6115
PITG_18016	Pi flagellar protein, putative (2007 nt)	-15.2236	0.649321	0.611612
PITG_01227	Pi conserved hypothetical protein (677 nt)	-13.2126	0.559159	0.611666
PITG_12260	Pi protein transporter Sec24 (3758 nt)	-14.3584	0.589908	0.612004
PITG_01401	Pi conserved hypothetical protein (1356 nt)	-13.0936	0.555685	0.612819
PITG_01139	Pi conserved hypothetical protein (744 nt)	-13.7649	0.56826	0.613046
PITG_13724	Pi cysteine protease family C48, putative (1388 nt)	-15.9871	0.972716	0.613514
PITG_17347	Pi conserved hypothetical protein (1593 nt)	-16.1979	-0.70744	0.613928
PITG_16930	Pi carbohydrate esterase, putative (2711 nt)	-14.8326	-0.71241	0.614027
PITG_08528	Pi conserved hypothetical protein (764 nt)	-14.2134	-0.62929	0.614471
PITG_08187	Pi ankyrin-like protein (1227 nt)	-16.8933	-1.0435	0.614603
PITG_21074	Pi conserved hypothetical protein (1617 nt)	-16.0515	1.101084	0.614777
PITG_00173	Pi vesicle-associated membrane protein, putative (848 nt)	-15.4517	0.635264	0.614861
PITG_09941	Pi myosin-like protein (2352 nt)	-13.4623	-0.52592	0.615122
PITG_07139	Pi conserved hypothetical protein (1738 nt)	-16.1772	-0.74928	0.615138
PITG_13882	Pi conserved hypothetical protein (2061 nt)	-16.1772	-0.74928	0.615138
PITG_21617	Pi cell division protein kinase, putative (2339 nt)	-16.2827	-0.97542	0.615138
PITG_13468	Pi hypothetical protein (2031 nt)	-13.7038	0.65542	0.615359
PITG_04906	Pi glutaredoxin (479 nt)	-9.53655	0.513832	0.615869
PITG_00987	Pi conserved hypothetical protein (243 nt)	-9.34098	-0.549	0.615952
PITG_01555	Pi conserved hypothetical protein (1642 nt)	-14.2617	0.60359	0.616061
PITG_14299	Pi conserved hypothetical protein (1286 nt)	-15.461	-0.71311	0.616233
PITG_16491	Pi conserved hypothetical protein (924 nt)	-15.5029	-0.82371	0.616233
PITG_20188	Pi 60S ribosomal protein L5 (1120 nt)	-8.70693	0.492804	0.616282
PITG_10312	Pi Patatin like protein (874 nt)	-14.6489	0.560323	0.616566
PITG_12990	Pi glutathione transferase, theta class (787 nt)	-10.2978	0.496871	0.617404
PITG_10844	Pi conserved hypothetical protein (1937 nt)	-14.8662	0.623626	0.617495
PITG_00144	Pi conserved hypothetical protein (1314 nt)	-16.2051	-0.69429	0.617548
PITG_01582	Pi hypothetical protein (601 nt)	-15.491	-0.79946	0.617599

PITG_10990	Pi farnesyl pyrophosphate synthetase (1420 nt)	-15.4373	0.701849	0.617599
PITG_12319	Pi conserved hypothetical protein (1132 nt)	-16.1966	-0.64837	0.618749
PITG_08953	Pi double-strand-break repair protein rad21 (2125 nt)	-15.5462	-0.73702	0.619225
PITG_10921	Pi conserved hypothetical protein (15721 nt)	-15.3604	-0.77849	0.619429
PITG_06982	Pi short chain dehydrogenase, putative (1314 nt)	-15.7177	-0.76217	0.619633
PITG_00118	Pi conserved hypothetical protein (624 nt)	-12.5344	0.503279	0.619895
PITG_17556	Pi conserved hypothetical protein (2867 nt)	-15.2099	0.649176	0.620035
PITG_11712	Pi neutral alpha-glucosidase, putative (3069 nt)	-13.6398	0.578094	0.620388
PITG_00647	Pi conserved hypothetical protein (2152 nt)	-15.1812	0.731252	0.620519
PITG_06647	Pi conserved hypothetical protein (1443 nt)	-14.4787	0.544828	0.620866
PITG_12678	Pi ribosome production factor 1, putative (2107 nt)	-15.7979	-0.90968	0.62094
PITG_03531	Pi conserved hypothetical protein (3480 nt)	-14.6358	0.682589	0.62138
PITG_18744	Pi amino acid/auxin permease-like protein (657 nt)	-14.9898	-0.67034	0.621509
PITG_16492	Pi conserved hypothetical protein (1126 nt)	-14.5914	0.69548	0.62153
PITG_11126	Pi conserved hypothetical protein (2584 nt)	-15.4196	0.602251	0.621665
PITG_01836	Pi conserved hypothetical protein (3595 nt)	-16.6507	-0.85113	0.621689
PITG_06836	Pi conserved hypothetical protein (769 nt)	-16.6507	-0.85113	0.621689
PITG_10532	Pi conserved hypothetical protein (490 nt)	-15.1678	-0.5993	0.621936
PITG_19530	Pi conserved hypothetical protein (656 nt)	-15.1634	-0.68544	0.621936
PITG_09793	Pi small cysteine rich protein SCR108 (1043 nt)	-9.52883	-0.48108	0.622048
PITG_13252	Pi conserved hypothetical protein (1183 nt)	-14.3255	0.593526	0.622184
PITG_07965	Pi conserved hypothetical protein (952 nt)	-15.6762	0.555455	0.622244
PITG_14155	Pi nitrate reductase, putative (1765 nt)	-16.088	-1.21038	0.622293
PITG_11780	Pi conserved hypothetical protein (5416 nt)	-15.4773	-0.68203	0.62301
PITG_12673	Pi conserved hypothetical protein (1305 nt)	-15.7223	0.812205	0.623542
PITG_06637	Pi Drug/Metabolite Transporter (DMT) Superfamily (1179 nt)	-13.9967	-0.59609	0.623621
PITG_13289	Pi thioredoxin-like protein (1353 nt)	-15.4903	-0.80028	0.624351
PITG_15912	Pi Glycoside-Pentoside-Hexuronide (GPH):Cation Symporter	-15.1977	-0.65626	0.624751
PITG_21909	Pi conserved hypothetical protein (979 nt)	-15.1372	-0.55979	0.624751
PITG_07269	Pi 60S ribosomal protein L7 (1385 nt)	-9.74985	0.478205	0.624813
PITG_05494	Pi conserved hypothetical protein (1248 nt)	-15.712	-0.7738	0.624836
PITG_18542	Pi conserved hypothetical protein (851 nt)	-15.7543	-0.74095	0.624836
PITG_14599	Pi conserved hypothetical protein (2040 nt)	-16.6379	-0.87646	0.624904
PITG_00490	Pi protein phosphatase 2C, putative (1562 nt)	-14.1458	0.549788	0.625012
PITG_15787	Pi conserved hypothetical protein (2141 nt)	-12.3053	0.503124	0.62516
PITG_05016	Pi conserved hypothetical protein (3060 nt)	-15.4402	-0.84366	0.625276
PITG_15146	Pi conserved hypothetical protein (1896 nt)	-14.5798	-0.58109	0.62559
PITG_02252	Pi conserved hypothetical protein (3288 nt)	-13.4787	0.516807	0.625684
PITG_00708	Pi thioredoxin, putative (984 nt)	-10.9121	-0.51263	0.625729
PITG_07107	Pi conserved hypothetical protein (583 nt)	-11.5937	-0.53139	0.625748
PITG_09441	Pi Mitochondrial Protein Translocase (MPT) Family (399 nt)	-11.3348	0.511133	0.62579
PITG_19099	Pi elongator complex protein, putative (2965 nt)	-16.6572	-0.91423	0.625972
PITG_05991	Pi FKBP-type peptidyl-prolyl cis-trans isomerase, putative (1000 nt)	-14.931	0.641041	0.626026
PITG_09360	Pi conserved hypothetical protein (5277 nt)	-15.7126	-0.66982	0.626125
PITG_03642	Pi conserved hypothetical protein (1061 nt)	-13.6808	-0.55146	0.626714
PITG_06323	Pi endomembrane protein 70-like protein, putative (2184 nt)	-12.3193	0.490895	0.626802
PITG_13234	Pi conserved hypothetical protein (1734 nt)	-15.8399	0.842382	0.626946

PITG_17910	Pi conserved hypothetical protein (1003 nt)	-14.8041	0.570251	0.62713
PITG_01991	Pi conserved hypothetical protein (3136 nt)	-15.0079	-0.70693	0.627201
PITG_09440	Pi conserved hypothetical protein (1025 nt)	-15.7249	0.763251	0.627409
PITG_21010	Pi eukaryotic translation initiation factor 3 subunit, putative	-14.9028	0.560635	0.627471
PITG_08611	Pi cell 5A endo-1,4-beta-glucanase, putative (1749 nt)	-11.2763	-0.49032	0.627585
PITG_10300	Pi electron transfer flavoprotein subunit beta (890 nt)	-12.1004	0.48645	0.627816
PITG_19160	Pi conserved hypothetical protein (1462 nt)	-14.0747	-0.58843	0.627952
PITG_15640	Pi peroxisomal 2,4-dienoyl-CoA reductase, putative (894 nt)	-14.0288	-0.54118	0.628242
PITG_08550	Pi conserved hypothetical protein (804 nt)	-16.2021	-0.76954	0.628247
PITG_11162	Pi hypothetical protein (567 nt)	-16.2021	-0.76954	0.628247
PITG_03224	Pi conserved hypothetical protein (786 nt)	-13.7902	-0.57498	0.628278
PITG_08898	Pi protein kinase, putative (2098 nt)	-14.2204	-0.57385	0.628522
PITG_04553	Pi conserved hypothetical protein (2658 nt)	-15.7226	-0.7009	0.628689
PITG_12105	Pi N-terminal kinase-like protein (2938 nt)	-14.6434	-0.69393	0.628749
PITG_17736	Pi conserved hypothetical protein (1180 nt)	-15.3937	-0.75759	0.628978
PITG_19063	Pi hypothetical protein (1057 nt)	-11.5851	-0.47899	0.629116
PITG_19851	Pi myb-like DNA-binding protein, putative (2525 nt)	-13.507	-0.57447	0.629398
PITG_01993	Pi transmembrane protein, putative (645 nt)	-16.1694	-0.76962	0.629422
PITG_05511	Pi Mitochondrial Carrier (MC) Family (1343 nt)	-16.2009	-0.64116	0.629422
PITG_22557	Pi amino acid/auxin permease-like protein (807 nt)	-15.3629	-0.84968	0.630171
PITG_18062	Pi conserved hypothetical protein (2532 nt)	-14.8994	0.706016	0.630237
PITG_02992	Pi tyrosyl-tRNA synthetase, putative (1698 nt)	-14.7808	-0.71657	0.630266
PITG_12797	Pi regulator of nonsense transcripts 2, putative (3744 nt)	-15.4021	-0.69669	0.630332
PITG_06658	Pi conserved hypothetical protein (433 nt)	-14.1136	-0.57399	0.630442
PITG_01341	Pi conserved hypothetical protein (1179 nt)	-16.197	-0.78106	0.630594
PITG_21333	Pi hypothetical protein (1330 nt)	-12.6869	-0.5358	0.630895
PITG_15281	Pi cell differentiation protein rcd1 (2005 nt)	-13.9025	0.54062	0.630993
PITG_03779	Pi anaphase-promoting complex subunit, putative (6320 nt)	-16.6275	-0.89682	0.631282
PITG_04917	Pi anaphase-promoting complex subunit, putative (2135 nt)	-16.6275	-0.89682	0.631282
PITG_00559	Pi protein phosphatase 2C, putative (2776 nt)	-14.5699	-0.6015	0.631527
PITG_10817	Pi nonsense transcript regulator (1299 nt)	-16.2419	-0.91212	0.631763
PITG_03819	Pi 26S proteasome non-ATPase regulatory subunit, putative	-14.1082	-0.65319	0.631845
PITG_05363	Pi dihydrodipicolinate synthase, putative (1162 nt)	-13.7233	0.552357	0.63218
PITG_00850	Pi thioredoxin-dependent peroxide reductase, putative (163	-13.0411	0.527584	0.632199
PITG_15852	Pi transmembrane protein, putative (1124 nt)	-14.5308	-0.62399	0.632238
PITG_07062	Pi aspartyl/glutamyl-tRNA(Asn/Gln) amidotransferase subun	-15.7216	0.77351	0.632503
PITG_15573	Pi cytochrome b ascorbate-dependent protein, putative (109	-13.1677	0.508521	0.632805
PITG_11603	Pi peptidyl-prolyl cis-trans isomerase CYP19-4 precursor (87	-11.1029	0.456154	0.632886
PITG_08172	Pi conserved hypothetical protein (1247 nt)	-14.3863	0.533834	0.633011
PITG_00117	Pi splicing factor 3A (1905 nt)	-15.3753	0.709414	0.633024
PITG_06114	Pi conserved hypothetical protein (4443 nt)	-14.7525	-0.60447	0.63313
PITG_05814	Pi conserved hypothetical protein (1799 nt)	-16.6479	-0.93502	0.633394
PITG_07964	Pi conserved hypothetical protein (1850 nt)	-14.1463	0.550902	0.634224
PITG_00641	Pi conserved hypothetical protein (893 nt)	-15.3354	0.568563	0.634361
PITG_01689	Pi hydroxyacylglutathione hydrolase, putative (1066 nt)	-15.3351	0.528894	0.634361
PITG_03822	Pi conserved hypothetical protein (1792 nt)	-13.5947	0.49226	0.634399
PITG_03972	Pi acetyltransferase (GNAT) family, putative (453 nt)	-15.1446	0.603889	0.634413

PITG_01066	Pi conserved hypothetical protein (957 nt)	-14.5771	-0.61531	0.634449
PITG_12150	Pi conserved hypothetical protein (646 nt)	-15.541	0.773617	0.63482
PITG_18720	Pi ATP-citrate synthase (3410 nt)	-13.4417	0.532538	0.634873
PITG_09848	Pi medium-chain specific acyl-CoA dehydrogenase, mitochor	-12.6207	-0.54807	0.63488
PITG_15637	Pi abnormal spindle-like microcephaly-associated protein (61	-15.7018	0.605952	0.635023
PITG_10026	Pi phosphatidate cytidyltransferase, putative (1847 nt)	-15.0864	-0.66074	0.635234
PITG_15242	Pi phosphate acetyltransferase (2448 nt)	-15.0864	-0.66074	0.635234
PITG_03177	Pi conserved hypothetical protein (895 nt)	-12.9123	0.520246	0.635302
PITG_19615	Pi hypothetical protein (5192 nt)	-14.6927	-0.65688	0.63534
PITG_05980	Pi secreted RxLR effector peptide, putative (486 nt)	-13.7463	-0.67773	0.635484
PITG_15409	Pi conserved hypothetical protein (1103 nt)	-11.6592	0.479721	0.635671
PITG_17456	Pi conserved hypothetical protein (817 nt)	-13.0581	-0.54331	0.635872
PITG_11064	Pi conserved hypothetical protein (1076 nt)	-14.9041	0.560875	0.635997
PITG_17725	Pi conserved hypothetical protein (695 nt)	-11.8672	0.488432	0.636158
PITG_18509	Pi exosome complex exonuclease RRP44, putative (3240 nt)	-15.7162	0.74711	0.636277
PITG_00502	Pi conserved hypothetical protein (4136 nt)	-16.0637	0.840175	0.636293
PITG_22628	Pi hypothetical protein (589 nt)	-13.0439	-0.51271	0.636321
PITG_18475	Pi conserved hypothetical protein (901 nt)	-14.2225	-0.5693	0.636494
PITG_07983	Pi urease accessory protein, putative (1556 nt)	-15.3685	-0.69181	0.636743
PITG_15657	Pi conserved hypothetical protein (616 nt)	-13.7583	0.525522	0.636902
PITG_01335	Pi conserved hypothetical protein (2333 nt)	-15.3719	-0.6285	0.637019
PITG_10208	Pi conserved hypothetical protein (551 nt)	-15.3749	-0.6225	0.637019
PITG_09246	Pi conserved hypothetical protein (532 nt)	-15.199	-0.73609	0.637121
PITG_06694	Pi conserved hypothetical protein (1201 nt)	-14.8937	0.56688	0.637394
PITG_02556	Pi Major Facilitator Superfamily (MFS) (1790 nt)	-15.9972	0.665291	0.637481
PITG_20539	Pi conserved hypothetical protein (1868 nt)	-16.0642	0.923883	0.637481
PITG_03072	Pi conserved hypothetical protein (699 nt)	-15.4559	-0.72825	0.637483
PITG_00651	Pi centromere/kinetochore protein, putative (3303 nt)	-15.7851	-0.93288	0.637527
PITG_08442	Pi conserved hypothetical protein (1035 nt)	-16.1593	-0.86011	0.637567
PITG_15311	Pi hypothetical protein (2765 nt)	-13.2571	0.520497	0.637908
PITG_03220	Pi proteasome subunit beta type-7, putative (1249 nt)	-11.5029	0.457295	0.637915
PITG_04333	Pi 3-oxo-5-alpha-steroid 4-dehydrogenase, putative (974 nt)	-15.0658	0.554535	0.638001
PITG_07038	Pi serine/threonine-protein phosphatase ppe1 (1248 nt)	-13.781	0.528378	0.638029
PITG_00516	Pi conserved hypothetical protein (717 nt)	-14.6819	-0.64807	0.638134
PITG_19959	Pi hypothetical protein (984 nt)	-12.4651	0.493798	0.638385
PITG_16114	Pi myb-like DNA-binding protein, putative (2249 nt)	-14.3414	-0.51526	0.638409
PITG_09875	Pi AP-4 complex subunit mu-1, putative (1344 nt)	-13.6683	0.544074	0.638508
PITG_13681	Pi 40S ribosomal protein S26, putative (675 nt)	-8.08817	0.45433	0.638743
PITG_06487	Pi conserved hypothetical protein (1194 nt)	-15.7731	-0.70651	0.638772
PITG_20906	Pi conserved hypothetical protein (433 nt)	-14.4386	-0.54453	0.638901
PITG_09769	Pi hypothetical protein (616 nt)	-10.5879	0.451703	0.63949
PITG_04661	Pi L-aminoadipate-semialdehyde dehydrogenase large subur	-15.3887	-0.67833	0.639655
PITG_09432	Pi nucleolar protein NOP5 (1865 nt)	-13.1408	0.526217	0.639842
PITG_15053	Pi DNA replication licensing factor MCM6, putative (2825 nt)	-16.0919	-0.85645	0.639846
PITG_08211	Pi U2-associated splicing factor, putative (3263 nt)	-15.723	-0.80682	0.640014
PITG_10081	Pi conserved hypothetical protein (1329 nt)	-13.658	0.488793	0.640074
PITG_16854	Pi conserved hypothetical protein (4617 nt)	-13.9508	-0.54956	0.640464

PITG_14067	Pi zinc (Zn <sup>2+</sup> )-Iron (Fe <sup>2+</sup> ) Permease (ZIP) family (993 nt)	-15.1015	-0.63121	0.640743
PITG_07366	Pi conserved hypothetical protein (522 nt)	-13.6862	-0.74301	0.640826
PITG_01998	Pi Voltage-gated Ion Channel (VIC) Superfamily (1365 nt)	-15.338	0.634167	0.640965
PITG_03078	Pi triosephosphate isomerase (819 nt)	-15.5866	-0.76233	0.641152
PITG_13579	Pi ATP-binding Cassette (ABC) Superfamily (4047 nt)	-15.5627	-0.7568	0.641152
PITG_04651	Pi exportin-like protein (4306 nt)	-14.6748	0.509369	0.641272
PITG_12946	Pi hydroxyacylglutathione hydrolase (839 nt)	-14.0656	0.498123	0.641688
PITG_03268	Pi conserved hypothetical protein (744 nt)	-15.5861	0.609983	0.641911
PITG_17997	Pi conserved hypothetical protein (2376 nt)	-15.6146	-0.64743	0.641911
PITG_07944	Pi conserved hypothetical protein (1242 nt)	-16.1522	-0.74026	0.642165
PITG_05796	Pi ribosomal RNA-processing protein, putative (978 nt)	-16.1054	-0.76794	0.642197
PITG_02096	Pi polycomb-like protein (1962 nt)	-15.3459	0.619217	0.64227
PITG_01310	Pi peptidyl-prolyl isomerase FKBP12 (333 nt)	-12.1765	0.524431	0.642279
PITG_09549	Pi hypothetical protein (264 nt)	-13.3362	0.529461	0.642348
PITG_15449	Pi branched-chain-amino-acid aminotransferase (1312 nt)	-12.6898	-0.4872	0.642511
PITG_00807	Pi conserved hypothetical protein (570 nt)	-14.7697	0.599521	0.642947
PITG_17746	Pi conserved hypothetical protein (2850 nt)	-16.0084	0.643949	0.643368
PITG_22301	Pi conserved hypothetical protein (1371 nt)	-15.0798	0.583964	0.643459
PITG_12108	Pi conserved hypothetical protein (8734 nt)	-14.0387	-0.58206	0.643898
PITG_05989	Pi myb-like DNA-binding protein, putative (1912 nt)	-14.5117	-0.5792	0.643934
PITG_20033	Pi conserved hypothetical protein (1003 nt)	-14.1051	-0.57009	0.644074
PITG_09318	Pi hypothetical protein (538 nt)	-14.7019	0.61838	0.644086
PITG_00189	Pi conserved hypothetical protein (1889 nt)	-13.5301	0.495214	0.644133
PITG_01923	Pi conserved hypothetical protein (2375 nt)	-14.3365	-0.6428	0.644219
PITG_03813	Pi tripeptidyl-peptidase, putative (2252 nt)	-16.0107	0.733455	0.644534
PITG_08809	Pi 60S ribosomal protein L12, putative (1873 nt)	-10.8675	0.453262	0.644633
PITG_21026	Pi conserved hypothetical protein (2173 nt)	-13.6853	-0.50029	0.644683
PITG_01581	Pi mitotic spindle checkpoint component mad2 (1007 nt)	-14.4066	-0.60761	0.644689
PITG_15039	Pi secreted RxLR effector peptide, putative (1518 nt)	-15.4017	-0.78802	0.644864
PITG_10210	Pi phosphoenolpyruvate carboxykinase (1839 nt)	-11.0093	-0.47157	0.645236
PITG_21071	Pi threonyl-tRNA synthetase (2235 nt)	-13.3245	0.507592	0.645404
PITG_11888	Pi conserved hypothetical protein (3291 nt)	-15.3013	-0.64326	0.64548
PITG_13567	Pi endo-1,3(4)-beta-glucanase, putative (2700 nt)	-15.2825	-0.6809	0.64548
PITG_05463	Pi HECT E3 ubiquitin ligase, putative (2473 nt)	-14.4316	-0.61093	0.645527
PITG_05556	Pi D-lactate dehydrogenase, putative (1794 nt)	-15.9942	0.614744	0.645698
PITG_10437	Pi acyl-CoA dehydrogenase/oxidase (2174 nt)	-16.0724	-0.83371	0.645698
PITG_18749	Pi conserved hypothetical protein (2573 nt)	-16.0724	-0.83371	0.645698
PITG_03916	Pi ribosomal protein L28, putative (772 nt)	-8.84631	0.44686	0.646119
PITG_04582	Pi conserved hypothetical protein (2387 nt)	-15.7205	-0.70415	0.64616
PITG_21334	Pi conserved hypothetical protein (1330 nt)	-14.3165	0.558319	0.646354
PITG_20223	Pi carbohydrate esterase, putative (470 nt)	-15.1746	-0.70462	0.646423
PITG_01676	Pi conserved hypothetical protein (1226 nt)	-16.2638	-1.09173	0.646722
PITG_03901	Pi serine/threonine protein kinase (2295 nt)	-15.5948	-0.63983	0.64695
PITG_19916	Pi conserved hypothetical protein (1065 nt)	-15.624	-0.67723	0.64695
PITG_20747	Pi transcription elongation factor B polypeptide 1 (564 nt)	-12.6803	0.513244	0.647224
PITG_09588	Pi conserved hypothetical protein (1034 nt)	-14.3204	-0.59483	0.647229
PITG_01619	Pi metalloprotease family M01, putative (3027 nt)	-14.1457	-0.57052	0.647478

PITG_00695	Pi importin, putative (3310 nt)	-15.108	-0.63993	0.647488
PITG_03709	Pi conserved hypothetical protein (694 nt)	-15.65	-0.84643	0.648198
PITG_14044	Pi transcription initiation factor TFIID subunit 2, putative (38	-15.7074	-0.67586	0.648591
PITG_13803	Pi Hect domain-containing protein, putative (5525 nt)	-15.0429	-0.71104	0.648739
PITG_19761	Pi conserved hypothetical protein (1520 nt)	-11.411	0.449842	0.648934
PITG_11741	Pi conserved hypothetical protein (1761 nt)	-16.6442	-0.94655	0.649017
PITG_12426	Pi conserved hypothetical protein (1858 nt)	-16.6442	-0.94655	0.649017
PITG_16691	Pi DNA polymerase alpha/epsilon subunit B, putative (1991 r	-16.6442	-0.94655	0.649017
PITG_00763	Pi conserved hypothetical protein (1209 nt)	-15.5711	0.57982	0.649441
PITG_02850	Pi conserved hypothetical protein (2391 nt)	-15.5972	-0.73142	0.649441
PITG_10016	Pi conserved hypothetical protein (1180 nt)	-15.5623	0.59731	0.649441
PITG_14643	Pi conserved hypothetical protein (385 nt)	-15.6062	0.733593	0.649441
PITG_08688	Pi conserved hypothetical protein (432 nt)	-14.8168	0.549773	0.649447
PITG_07975	Pi methylcrotonoyl-CoA carboxylase beta chain, mitochondri	-13.8443	-0.51407	0.649614
PITG_06953	Pi histone H3.3 (528 nt)	-12.2652	-0.52611	0.649702
PITG_02467	Pi translocation protein SEC63 (1987 nt)	-12.912	-0.46179	0.649752
PITG_04289	Pi ATP-binding Cassette (ABC) Superfamily (3689 nt)	-15.7487	-0.75747	0.649801
PITG_08941	Pi hypothetical protein (1080 nt)	-11.5768	-0.45761	0.649993
PITG_04385	Pi putative GPI-anchored acidic serine-threonine rich HAM34	-15.861	-0.96749	0.650111
PITG_19735	Pi conserved hypothetical protein (1350 nt)	-15.0847	-0.66598	0.650143
PITG_01943	Pi 60S ribosomal protein L23 (623 nt)	-8.56159	0.444047	0.650155
PITG_18775	Pi conserved hypothetical protein (563 nt)	-9.91074	0.449877	0.650411
PITG_12037	Pi ferredoxin-dependent glutamate synthase, putative (4743	-13.9616	0.537455	0.650588
PITG_20045	Pi hypothetical protein (793 nt)	-15.2612	-0.56851	0.650732
PITG_06659	Pi conserved hypothetical protein (848 nt)	-13.6643	0.526691	0.650765
PITG_20818	Pi conserved hypothetical protein (792 nt)	-14.446	0.680647	0.650998
PITG_13079	Pi peptidylprolyl isomerase domain and WD repeat-containir	-16.6026	-0.86008	0.651073
PITG_13055	Pi conserved hypothetical protein (1328 nt)	-15.3357	0.628874	0.651259
PITG_08660	Pi conserved hypothetical protein (589 nt)	-12.6145	-0.49143	0.651318
PITG_16335	Pi conserved hypothetical protein (856 nt)	-14.4223	-0.54845	0.65135
PITG_06950	Pi histone H3.3 (880 nt)	-11.0001	-0.43941	0.651599
PITG_12428	Pi conserved hypothetical protein (3124 nt)	-15.593	-0.64335	0.651912
PITG_16067	Pi conserved hypothetical protein (1236 nt)	-15.2987	-0.73197	0.65203
PITG_06448	Pi pyruvate carboxylase, mitochondrial precursor (2075 nt)	-14.1437	-0.70417	0.652063
PITG_10648	Pi conserved hypothetical protein (1964 nt)	-14.5998	0.596403	0.652846
PITG_22541	Pi 60S ribosomal export protein NMD3, putative (1203 nt)	-14.2449	-0.60386	0.652932
PITG_09493	Pi Mitochondrial Protein Translocase (MPT) Family (688 nt)	-13.442	-0.50978	0.653232
PITG_07880	Pi betaine aldehyde dehydrogenase (1476 nt)	-15.2718	0.656294	0.653323
PITG_09676	Pi conserved hypothetical protein (615 nt)	-15.337	0.743714	0.653361
PITG_04011	Pi tetraacyldisaccharide 4'-kinase, putative (1161 nt)	-14.3008	-0.54946	0.653594
PITG_15627	Pi conserved hypothetical protein (1153 nt)	-13.6538	0.514941	0.653737
PITG_21121	Pi hypothetical protein (132 nt)	-12.169	-0.49863	0.653777
PITG_06603	Pi hypothetical protein (468 nt)	-13.8329	0.512226	0.65406
PITG_04038	Pi conserved hypothetical protein (1405 nt)	-15.001	0.557781	0.65413
PITG_19746	Pi conserved hypothetical protein (1407 nt)	-14.1904	0.519106	0.654147
PITG_13809	Pi Rab18 family GTPase, putative (955 nt)	-13.0036	-0.48923	0.654188
PITG_03698	Pi enolase (1502 nt)	-11.0609	0.450063	0.654307

PITG_08532	Pi Drug/Metabolite Transporter (DMT) Superfamily (1407 nt)	-14.6403	0.537659	0.654316
PITG_06754	Pi conserved hypothetical protein (845 nt)	-15.3117	-0.74889	0.65461
PITG_20745	Pi Intraflagellar Transport Protein 52 (1678 nt)	-14.9321	-0.6185	0.654992
PITG_08692	Pi conserved hypothetical protein (1251 nt)	-13.0193	0.442768	0.655099
PITG_08579	Pi isoleucyl-tRNA synthetase (3531 nt)	-14.5178	0.539128	0.65515
PITG_17726	Pi conserved hypothetical protein (726 nt)	-13.7765	0.481855	0.655194
PITG_01924	Pi twinfilin-like protein (1088 nt)	-14.7677	0.566122	0.655215
PITG_19310	Pi conserved hypothetical protein (966 nt)	-15.0136	0.658718	0.655462
PITG_12949	Pi conserved hypothetical protein (911 nt)	-16.0421	-0.76475	0.656017
PITG_03451	Pi conserved hypothetical protein (959 nt)	-12.8266	-0.46144	0.656257
PITG_15736	Pi conserved hypothetical protein (812 nt)	-15.3527	0.599502	0.656288
PITG_14615	Pi conserved hypothetical protein (468 nt)	-11.822	0.442977	0.656837
PITG_01171	Pi signal recognition particle, putative (1536 nt)	-14.4361	-0.57236	0.657062
PITG_14987	Pi conserved hypothetical protein (510 nt)	-14.4193	0.532597	0.657062
PITG_14989	Pi conserved hypothetical protein (333 nt)	-13.0089	-0.44998	0.657395
PITG_04665	Pi ribose-5-phosphate isomerase (857 nt)	-14.3254	-0.54541	0.657841
PITG_15723	Pi 60S ribosomal protein L14, putative (718 nt)	-8.49525	-0.46364	0.658066
PITG_19166	Pi conserved hypothetical protein (1499 nt)	-13.7767	0.519589	0.658174
PITG_14596	Pi transcription initiation factor IIB, putative (927 nt)	-14.253	0.503538	0.658193
PITG_19870	Pi bax inhibitor-like protein (1129 nt)	-12.9322	-0.46415	0.658248
PITG_19544	Pi carbohydrate-binding protein, putative (594 nt)	-13.8136	-0.52808	0.658298
PITG_17042	Pi protein RER1A (736 nt)	-13.3465	0.481429	0.65834
PITG_09376	Pi conserved hypothetical protein (5603 nt)	-15.2615	0.542126	0.658438
PITG_06972	Pi conserved hypothetical protein (631 nt)	-13.8114	0.531816	0.659143
PITG_03030	Pi conserved hypothetical protein (1138 nt)	-15.6475	-0.85072	0.659218
PITG_03641	Pi conserved hypothetical protein (1581 nt)	-16.0332	-0.67487	0.659399
PITG_08716	Pi hypothetical protein (568 nt)	-15.9907	0.735871	0.659399
PITG_05518	Pi hypothetical protein (783 nt)	-15.9183	-0.72414	0.659576
PITG_06978	Pi metalloprotease family M20D, putative (2049 nt)	-15.9178	0.823413	0.659576
PITG_01979	Pi conserved hypothetical protein (420 nt)	-16.544	-1.06446	0.660197
PITG_00461	Pi Mitochondrial Carrier (MC) Family (879 nt)	-13.2483	0.437526	0.660319
PITG_07171	Pi calcineurin-like phosphoesterase, putative (987 nt)	-16.0021	0.714838	0.66052
PITG_13650	Pi conserved hypothetical protein (693 nt)	-15.5012	0.657748	0.660543
PITG_17728	Pi conserved hypothetical protein (1491 nt)	-14.5219	0.616827	0.660591
PITG_12692	Pi conserved hypothetical protein (1687 nt)	-15.9349	0.857491	0.66073
PITG_03547	Pi conserved hypothetical protein (2473 nt)	-15.2952	-0.6552	0.660962
PITG_12164	Pi conserved hypothetical protein (708 nt)	-12.3946	0.453641	0.6614
PITG_12892	Pi thioredoxin-like protein, putative (755 nt)	-12.9321	0.487998	0.661565
PITG_01447	Pi serine protease family S10, putative (1425 nt)	-12.9923	0.466465	0.661708
PITG_19768	Pi conserved hypothetical protein (782 nt)	-11.4573	0.448319	0.661758
PITG_15923	Pi conserved hypothetical protein (889 nt)	-15.5176	0.624787	0.661775
PITG_16974	Pi conserved hypothetical protein (738 nt)	-15.9137	-0.73332	0.661881
PITG_02239	Pi ATP-dependent hsl protease ATP-binding subunit hslU (15	-14.1297	-0.49527	0.661978
PITG_00071	Pi DNA replication complex GINS protein PSF1 (1030 nt)	-14.5231	0.462965	0.661998
PITG_03703	Pi conserved hypothetical protein (1480 nt)	-14.3811	-0.50707	0.662252
PITG_10105	Pi exportin-T, putative (3093 nt)	-16.5481	-1.05609	0.662255
PITG_19213	Pi mitogen-activated protein kinase, putative (3606 nt)	-14.6323	0.52095	0.662442

PITG_03586	Pi trafficking protein particle complex subunit, putative (501	-14.4678	-0.56179	0.662539
PITG_12157	Pi conserved hypothetical protein (2196 nt)	-14.8459	-0.61851	0.66279
PITG_19804	Pi hypothetical protein (1288 nt)	-12.8366	-0.46286	0.662857
PITG_08591	Pi actin-depolymerizing factor, putative (744 nt)	-10.3245	0.41746	0.663508
PITG_03221	Pi 40S ribosomal protein S18 (948 nt)	-7.88931	0.42267	0.663556
PITG_12187	Pi diphthamide biosynthesis protein 1 (2303 nt)	-15.9005	0.596678	0.664169
PITG_17071	Pi malonyl-CoA decarboxylase (MCD), putative (2217 nt)	-15.9125	0.773336	0.664169
PITG_15776	Pi protein kinase, putative (867 nt)	-13.4954	0.483445	0.664256
PITG_20217	Pi hypothetical protein (878 nt)	-15.0866	-0.66378	0.664346
PITG_03568	Pi DEAD/DEAH box RNA helicase, putative (1945 nt)	-12.4319	0.464618	0.664422
PITG_15786	Pi heat shock 70 kDa protein, mitochondrial precursor (1902	-12.1822	-0.43551	0.664493
PITG_18452	Pi thioredoxin reductase 1 (3219 nt)	-13.4689	0.483047	0.664577
PITG_04666	Pi conserved hypothetical protein (1826 nt)	-14.5458	0.562929	0.664759
PITG_06966	Pi conserved hypothetical protein (1446 nt)	-14.5458	-0.51011	0.664759
PITG_14548	Pi conserved hypothetical protein (485 nt)	-13.4447	0.529161	0.664968
PITG_08045	Pi dimethyladenosine transferase (1226 nt)	-16.0391	-0.76667	0.664975
PITG_15365	Pi conserved hypothetical protein (1466 nt)	-12.7879	-0.44743	0.665085
PITG_13196	Pi conserved hypothetical protein (1584 nt)	-14.9702	-0.62182	0.665141
PITG_01484	Pi beta-glucosidase, putative (1712 nt)	-15.6329	-0.71475	0.665185
PITG_05557	Pi Drug/Metabolite Transporter (DMT) Superfamily (1113 nt)	-14.6001	0.610889	0.665234
PITG_16058	Pi conserved hypothetical protein (10877 nt)	-14.4576	-0.55387	0.665242
PITG_09144	Pi conserved hypothetical protein (1676 nt)	-14.2	-0.52886	0.665284
PITG_10117	Pi ATP-binding Cassette (ABC) superfamily (5077 nt)	-15.8626	0.673391	0.665308
PITG_19006	Pi conserved hypothetical protein (2670 nt)	-15.1801	0.502101	0.66558
PITG_06131	Pi conserved hypothetical protein (883 nt)	-13.1314	-0.46128	0.66569
PITG_01591	Pi conserved hypothetical protein (3637 nt)	-14.7192	-0.54279	0.665713
PITG_21626	Pi ATP-binding cassette protein, putative (4435 nt)	-14.5327	0.516944	0.666127
PITG_15871	Pi nucleolar protein, putative (2417 nt)	-12.5224	-0.47181	0.66634
PITG_16023	Pi transcription initiation factor TFIID subunit, putative (2763	-16.5294	-1.01509	0.666343
PITG_11607	Pi metalloprotease family M48X, putative (748 nt)	-15.7005	-0.64118	0.666357
PITG_17831	Pi protein kinase, putative (1930 nt)	-15.7005	-0.64118	0.666357
PITG_12818	Pi glutamate carboxypeptidase, putative (2339 nt)	-14.4809	-0.55855	0.666583
PITG_02344	Pi 5-oxoprolinase (3842 nt)	-14.8262	0.530424	0.666674
PITG_08327	Pi ubiquitin-conjugating enzyme E2 (659 nt)	-13.2137	0.445593	0.667513
PITG_03855	Pi DNA-directed RNA polymerase I subunit RPA1, putative (5	-15.8441	0.525783	0.667573
PITG_08093	Pi conserved hypothetical protein (2712 nt)	-15.9243	-0.76894	0.667573
PITG_15819	Pi glutamyl-tRNA(Gln) amidotransferase subunit A, putative	-15.5354	-0.71089	0.66786
PITG_04842	Pi conserved hypothetical protein (5338 nt)	-13.9888	-0.47348	0.668422
PITG_10060	Pi conserved hypothetical protein (2022 nt)	-15.5922	-0.64491	0.668715
PITG_04226	Pi geranylgeranyl transferase type-2 subunit alpha, putative	-15.4877	-0.61483	0.669062
PITG_16365	Pi conserved hypothetical protein (5508 nt)	-15.5166	0.688787	0.669062
PITG_02567	Pi T-complex protein 1 subunit alpha (1841 nt)	-13.2573	0.480359	0.66921
PITG_11225	Pi P-type ATPase (P-ATPase) Superfamily (4335 nt)	-15.1771	0.49588	0.669361
PITG_07925	Pi exportin-5-like protein (3724 nt)	-16.5409	-1.06978	0.669385
PITG_18374	Pi lysophosphatidylcholine acyltransferase, putative (1677 nt)	-16.5409	-1.06978	0.669385
PITG_20908	Pi conserved hypothetical protein (2363 nt)	-16.5409	-1.06978	0.669385
PITG_10901	Pi resistance-Nodulation-Cell Division (RND) superfamily (49	-15.2767	-0.6923	0.669635



PITG_11098	Pi conserved hypothetical protein (2149 nt)	-15.9432	-0.7889	0.669823
PITG_18575	Pi conserved hypothetical protein (798 nt)	-15.6479	-0.84927	0.669884
PITG_15890	Pi threonine protease family T01A, putative (858 nt)	-12.0887	0.437907	0.67027
PITG_19622	Pi conserved hypothetical protein (4284 nt)	-14.8213	0.539109	0.670507
PITG_06424	Pi formin-homology 2 domain-containing protein (3877 nt)	-14.3782	-0.53764	0.670555
PITG_17795	Pi hypothetical protein (1553 nt)	-14.3596	0.592494	0.670601
PITG_02694	Pi 60S ribosomal protein L23a (830 nt)	-9.23601	0.409349	0.670785
PITG_20590	Pi cleavage induced conserved hypothetical protein (1255 nt)	-13.9073	0.498075	0.670792
PITG_21176	Pi transportin-like protein (3101 nt)	-14.3237	-0.48	0.671225
PITG_06618	Pi conserved hypothetical protein (1107 nt)	-15.463	0.514494	0.671451
PITG_06871	Pi ankyrin-like protein (3315 nt)	-15.5238	-0.6858	0.671451
PITG_15830	Pi conserved hypothetical protein (651 nt)	-13.3517	0.485071	0.671497
PITG_02453	Pi conserved hypothetical protein (1095 nt)	-14.0526	0.524695	0.6715
PITG_16071	Pi prenyltransferase-like protein, putative (2267 nt)	-14.0572	-0.50451	0.6715
PITG_12578	Pi acyl-CoA desaturase 1 (1264 nt)	-12.2265	0.428908	0.671511
PITG_01360	Pi conserved hypothetical protein (735 nt)	-14.5359	0.502956	0.671527
PITG_02161	Pi conserved hypothetical protein (3408 nt)	-16.0704	-0.83595	0.67157
PITG_04600	Pi conserved hypothetical protein (1983 nt)	-14.486	0.540015	0.671959
PITG_00808	Pi conserved hypothetical protein (1619 nt)	-14.1795	0.48166	0.672006
PITG_04067	Pi conserved hypothetical protein (985 nt)	-14.2161	-0.53698	0.672214
PITG_06863	Pi ATP-binding Cassette (ABC) Superfamily (4098 nt)	-13.5227	-0.61233	0.672433
PITG_02529	Pi protein kinase, putative (4011 nt)	-15.9217	-0.77531	0.67317
PITG_20820	Pi conserved hypothetical protein (3315 nt)	-15.9217	-0.77531	0.67317
PITG_11039	Pi conserved hypothetical protein (787 nt)	-16.5275	-0.93528	0.67341
PITG_18634	Pi DNA topoisomerase, putative (3053 nt)	-16.4423	-0.80057	0.67341
PITG_11110	Pi eukaryotic translation initiation factor 2 subunit 3 (1847 nt)	-13.2867	-0.43551	0.673553
PITG_01940	Pi triosephosphate isomerase/glyceraldehyde-3-phosphate c	-9.98522	0.489553	0.673811
PITG_00663	Pi rRNA methyltransferase, putative (3915 nt)	-14.3128	0.440543	0.67397
PITG_02491	Pi conserved hypothetical protein (739 nt)	-14.6753	0.528121	0.674179
PITG_05128	Pi conserved hypothetical protein (5333 nt)	-15.2288	-0.74618	0.674323
PITG_05512	Pi conserved hypothetical protein (1614 nt)	-15.1813	0.53054	0.674323
PITG_17716	Pi voltage-dependent anion-selective channel protein, putati	-12.2837	0.440091	0.6749
PITG_18101	Pi conserved hypothetical protein (2262 nt)	-14.7413	-0.58975	0.674935
PITG_18752	Pi small nuclear ribonucleoprotein-associated protein, putati	-13.266	0.466728	0.675008
PITG_10183	Pi conserved hypothetical protein (872 nt)	-14.8997	-0.6108	0.675251
PITG_22958	Pi conserved hypothetical protein (1679 nt)	-14.89	-0.53194	0.675251
PITG_10724	Pi conserved hypothetical protein (8835 nt)	-16.3407	0.482014	0.675409
PITG_15357	Pi conserved hypothetical protein (567 nt)	-13.7838	-0.47901	0.675448
PITG_09428	Pi conserved hypothetical protein (966 nt)	-12.077	-0.41489	0.675542
PITG_04844	Pi folate-Biopterin Transporter (FBT) family (1518 nt)	-16.0357	0.886503	0.675911
PITG_15216	Pi S-phase kinase-associated protein 1A (615 nt)	-14.0907	-0.54058	0.67656
PITG_19470	Pi conserved hypothetical protein (756 nt)	-15.0965	0.480046	0.676614
PITG_15881	Pi peptide methionine sulfoxide reductase (494 nt)	-13.9686	-0.50077	0.676791
PITG_08230	Pi vacuolar protein sorting-associated protein, putative (124	-15.5749	0.550101	0.676814
PITG_09528	Pi conserved hypothetical protein (1289 nt)	-12.8073	0.459185	0.677127
PITG_15761	Pi conserved hypothetical protein (1032 nt)	-12.5037	0.410331	0.677145
PITG_12122	Pi proteasome subunit alpha type-5, putative (964 nt)	-11.4049	0.407863	0.677265

PITG_21502	Pi conserved hypothetical protein (417 nt)	-14.4127	0.553608	0.677392
PITG_08876	Pi conserved hypothetical protein (655 nt)	-13.8896	-0.4651	0.677691
PITG_05804	Pi conserved hypothetical protein (1129 nt)	-14.8707	-0.49438	0.677823
PITG_03783	Pi Mitochondrial Protein Translocase (MPT) Family (258 nt)	-12.1919	0.416449	0.677854
PITG_06538	Pi ATP-binding Cassette (ABC) Superfamily (501 nt)	-15.1193	-0.52173	0.677862
PITG_09435	Pi conserved hypothetical protein (3425 nt)	-14.6749	-0.50822	0.678121
PITG_11926	Pi glu/Leu/Phe/Val dehydrogenase family, putative (3096 nt)	-13.5919	0.448297	0.678339
PITG_17117	Pi salicylate hydroxylase, putative (1304 nt)	-15.3939	0.58378	0.678397
PITG_20780	Pi ATPase (3841 nt)	-14.9964	0.546856	0.678406
PITG_01283	Pi glycoside hydrolase, putative (8578 nt)	-15.5034	0.696274	0.678505
PITG_04648	Pi conserved hypothetical protein (1624 nt)	-15.4745	-0.59665	0.678505
PITG_11775	Pi hypothetical protein (1765 nt)	-12.0135	0.445885	0.678585
PITG_13237	Pi alpha-actinin-1, putative (3164 nt)	-14.169	-0.53926	0.678669
PITG_08531	Pi conserved hypothetical protein (540 nt)	-14.9383	-0.72702	0.679033
PITG_02810	Pi cell division cycle protein 16 (2592 nt)	-15.1103	-0.5763	0.679103
PITG_20759	Pi dihydroxy-acid dehydratase (1899 nt)	-13.2324	-0.46044	0.679109
PITG_21117	Pi malate synthase, glyoxysomal, putative (1780 nt)	-11.5651	-0.4205	0.679481
PITG_04501	Pi hypothetical protein (338 nt)	-12.8854	-0.52804	0.679547
PITG_07287	Pi conserved hypothetical protein (771 nt)	-15.4863	0.636103	0.679665
PITG_00455	Pi conserved hypothetical protein (1185 nt)	-12.5295	0.414368	0.679745
PITG_05240	Pi casein kinase, putative (1301 nt)	-11.2614	-0.39518	0.680118
PITG_04938	Pi calcium/calmodulin-dependent protein kinase, putative (1	-15.154	0.537179	0.680403
PITG_10822	Pi Mitochondrial Protein Translocase (MPT) Family (657 nt)	-13.5059	-0.4597	0.680609
PITG_03144	Pi conserved hypothetical protein (1997 nt)	-15.388	0.571798	0.680778
PITG_08826	Pi conserved hypothetical protein (1321 nt)	-15.4477	-0.69394	0.680778
PITG_19886	Pi sphingosine kinase, putative (5332 nt)	-15.4237	-0.65354	0.680778
PITG_20838	Pi conserved hypothetical protein (1921 nt)	-15.4019	0.567996	0.680778
PITG_19875	Pi phosphoinositide 3-kinase regulatory subunit (6054 nt)	-15.5114	-0.75736	0.68082
PITG_05250	Pi tRNA (adenine-N(1)-)-methyltransferase catalytic subunit,	-13.2795	-0.50865	0.680911
PITG_11612	Pi conserved hypothetical protein (1277 nt)	-11.8575	-0.44442	0.680986
PITG_00632	Pi dolichyl-diphosphooligosaccharide-protein glycosyltransfe	-13.5237	0.449914	0.68116
PITG_14088	Pi conserved hypothetical protein (835 nt)	-14.3046	0.625437	0.681262
PITG_17641	Pi conserved hypothetical protein (1358 nt)	-16.4324	-0.82548	0.681357
PITG_09670	Pi protein kinase (621 nt)	-15.074	0.597914	0.681524
PITG_05643	Pi hypothetical protein (3228 nt)	-14.8467	0.494751	0.68163
PITG_08749	Pi conserved hypothetical protein (1312 nt)	-13.8875	0.443044	0.681842
PITG_14714	Pi hypothetical protein (670 nt)	-15.3907	-0.50592	0.68196
PITG_07945	Pi snRNA-activating protein complex subunit 3, putative (135	-15.5133	-0.65936	0.681971
PITG_08780	Pi Sulfate Permease (SulP) Family (2805 nt)	-14.3332	-0.52987	0.682016
PITG_09990	Pi dolichyldiphosphatase, putative (941 nt)	-13.5579	0.465033	0.682166
PITG_01691	Pi phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase, p	-14.1482	-0.48375	0.682484
PITG_17814	Pi conserved hypothetical protein (2097 nt)	-15.0892	0.576246	0.682792
PITG_17700	Pi conserved hypothetical protein (1292 nt)	-14.8732	-0.49962	0.682886
PITG_09829	Pi conserved hypothetical protein (1602 nt)	-15.7623	0.551113	0.683041
PITG_15097	Pi conserved hypothetical protein (1695 nt)	-15.7974	-0.60272	0.683041
PITG_16649	Pi chromosome transmission fidelity protein, putative (3420	-15.4161	0.627855	0.683137
PITG_22427	Pi ubiquitin-specific protease, putative (777 nt)	-15.3747	0.576614	0.683137

PITG_01410	Pi conserved hypothetical protein (1171 nt)	-13.6062	-0.4913	0.683244
PITG_07795	Pi myosin-like protein (2346 nt)	-14.6253	0.550098	0.683344
PITG_08001	Pi glucosylceramidase, putative (2022 nt)	-14.244	0.473763	0.683894
PITG_02084	Pi golgi reassembly-stacking protein, putative (1053 nt)	-15.0377	0.475473	0.683904
PITG_00787	Pi CRM1 C terminal Exportin 1-like protein (3496 nt)	-13.8598	-0.46557	0.684062
PITG_21111	Pi conserved hypothetical protein (614 nt)	-13.8888	-0.54615	0.684084
PITG_20307	Pi conserved hypothetical protein (1010 nt)	-14.0078	0.471969	0.684111
PITG_17503	Pi conserved hypothetical protein (997 nt)	-14.8672	0.535668	0.684136
PITG_05830	Pi conserved hypothetical protein (724 nt)	-14.8539	-0.60035	0.684147
PITG_03063	Pi conserved hypothetical protein (474 nt)	-15.5526	0.767298	0.684259
PITG_05486	Pi acyl-CoA dehydrogenase/oxidase (2366 nt)	-16.3861	-0.7698	0.684304
PITG_01109	Pi palmitoyltransferase, putative (1538 nt)	-15.4043	0.540413	0.68431
PITG_06765	Pi conserved hypothetical protein (760 nt)	-14.6051	-0.47538	0.684642
PITG_07995	Pi cyclin-dependent kinase, putative (918 nt)	-14.6267	-0.51948	0.684642
PITG_07843	Pi protein disulfide-isomerase, putative (1657 nt)	-13.082	0.468568	0.68484
PITG_01400	Pi Argonaute3 (AGO3) (3810 nt)	-14.5193	-0.61283	0.685097
PITG_07293	Pi conserved hypothetical protein (1493 nt)	-15.883	0.753005	0.685171
PITG_03766	Pi conserved hypothetical protein (429 nt)	-15.2092	-0.53485	0.685173
PITG_01935	Pi hypothetical protein (553 nt)	-15.7855	-0.6783	0.685255
PITG_08198	Pi conserved hypothetical protein (1653 nt)	-15.7935	-0.6108	0.685255
PITG_12876	Pi RNA-binding protein, putative (924 nt)	-15.7855	-0.6783	0.685255
PITG_03700	Pi enolase (1365 nt)	-11.0334	0.445063	0.685342
PITG_02043	Pi SWI/SNF-related matrix-associated actin-dependent regul.	-14.091	0.449275	0.685837
PITG_16228	Pi conserved hypothetical protein (3169 nt)	-14.1116	-0.49784	0.685837
PITG_19458	Pi protein kinase (1187 nt)	-16.3307	-0.87889	0.686196
PITG_10828	Pi conserved hypothetical protein (1943 nt)	-13.5694	-0.47944	0.686331
PITG_00206	Pi conserved hypothetical protein (1726 nt)	-15.2293	-0.744	0.686353
PITG_03678	Pi kynurenine-oxoglutarate transaminase, putative (1248 nt)	-15.2084	-0.70066	0.686353
PITG_03751	Pi nipped-B-like protein (7782 nt)	-15.7477	0.623833	0.686355
PITG_00132	Pi phosphoglycerate kinase (1321 nt)	-15.4343	-0.63197	0.686639
PITG_02909	Pi carbohydrate-binding protein, putative (1740 nt)	-14.6435	0.429869	0.687076
PITG_05434	Pi importin subunit beta, putative (3021 nt)	-12.7697	0.420451	0.687125
PITG_13159	Pi conserved hypothetical protein (1943 nt)	-13.6562	-0.44497	0.687253
PITG_16156	Pi conserved hypothetical protein (1174 nt)	-13.0419	0.462348	0.688479
PITG_01101	Pi aquaporin, putative (894 nt)	-15.7787	-0.69283	0.688544
PITG_07765	Pi conserved hypothetical protein (2670 nt)	-15.7622	-0.67364	0.688544
PITG_05006	Pi U1 small nuclear ribonucleoprotein A (865 nt)	-13.8905	0.483702	0.688591
PITG_09413	Pi sterol 3-beta-glucosyltransferase, putative (4590 nt)	-15.5216	0.694216	0.688786
PITG_00989	Pi histone demethylase, putative (3052 nt)	-15.0353	-0.49158	0.689036
PITG_03048	Pi ubiquitin-conjugating enzyme E2, putative (1098 nt)	-14.8664	0.533481	0.689073
PITG_12588	Pi phosphatidylinositol N-acetylglucosaminyltransferase subu	-16.4795	-1.1049	0.689177
PITG_22600	Pi conserved hypothetical protein (804 nt)	-16.4795	-1.1049	0.689177
PITG_11483	Pi hypothetical protein (2832 nt)	-13.0128	-0.58228	0.689573
PITG_00941	Pi 60S ribosomal protein L21-1 (1002 nt)	-9.75263	0.399688	0.689786
PITG_13997	Pi serine/threonine protein kinase (3857 nt)	-14.8911	-0.59578	0.690292
PITG_02856	Pi DEAD/DEAH box RNA helicase, putative (2098 nt)	-14.0068	0.476851	0.690754
PITG_01294	Pi hypothetical protein (1032 nt)	-13.7038	-0.57008	0.691163

PITG_16103	Pi Major Facilitator Superfamily (MFS) (1347 nt)	-16.2296	-0.64305	0.691165
PITG_17241	Pi leucine carboxyl methyltransferase, putative (1195 nt)	-16.2296	-0.64305	0.691165
PITG_02058	Pi conserved hypothetical protein (1499 nt)	-13.1707	-0.45588	0.69129
PITG_02867	Pi ubiquitin conjugation factor E4, putative (3219 nt)	-15.0576	-0.60866	0.691467
PITG_04569	Pi conserved hypothetical protein (3737 nt)	-15.0766	0.656829	0.691467
PITG_13970	Pi conserved hypothetical protein (2027 nt)	-14.1416	-0.49708	0.691733
PITG_18105	Pi putative GPI mannosyltransferase (2326 nt)	-15.7722	0.67144	0.691796
PITG_00936	Pi conserved hypothetical protein (963 nt)	-16.2139	-0.55095	0.692151
PITG_00882	Pi ATP-binding Cassette (ABC) Superfamily (6129 nt)	-15.1339	-0.62608	0.692377
PITG_06813	Pi conserved hypothetical protein (932 nt)	-13.1781	-0.41132	0.692785
PITG_03589	Pi conserved hypothetical protein (421 nt)	-12.3424	-0.40481	0.692817
PITG_17261	Pi 60S acidic ribosomal protein P0 (1350 nt)	-9.42197	0.419855	0.69283
PITG_21283	Pi conserved hypothetical protein (533 nt)	-14.0694	0.443096	0.692945
PITG_12670	Pi conserved hypothetical protein (2070 nt)	-11.3289	0.39312	0.692995
PITG_03840	Pi endomembrane protein 70-like protein, putative (3071 nt)	-16.2021	0.57475	0.693134
PITG_05056	Pi GTP-binding protein, putative (1843 nt)	-14.661	0.465931	0.693276
PITG_17727	Pi conserved hypothetical protein (521 nt)	-14.0218	-0.47252	0.693357
PITG_01830	Pi conserved hypothetical protein (1556 nt)	-13.3109	-0.45692	0.693698
PITG_02663	Pi conserved hypothetical protein (1298 nt)	-14.9024	-0.61668	0.693914
PITG_00190	Pi conserved hypothetical protein (1683 nt)	-15.7481	0.58451	0.693945
PITG_22685	Pi dihydroxy-acid dehydratase, putative (1869 nt)	-13.4619	-0.44158	0.694332
PITG_13393	Pi RNA-binding protein, putative (1978 nt)	-14.2448	-0.47973	0.694387
PITG_06984	Pi stromal cell-derived factor 2 precursor (957 nt)	-15.3204	-0.60496	0.694495
PITG_06281	Pi conserved hypothetical protein (4655 nt)	-14.7915	0.431979	0.69453
PITG_02626	Pi conserved hypothetical protein (1995 nt)	-13.9384	-0.45334	0.694733
PITG_20388	Pi conserved hypothetical protein (1307 nt)	-12.2374	0.402931	0.69488
PITG_01366	Pi conserved hypothetical protein (921 nt)	-13.7237	-0.50507	0.694886
PITG_16938	Pi conserved hypothetical protein (504 nt)	-15.7456	0.518381	0.695013
PITG_04466	Pi cystathionine gamma-synthase, putative (1575 nt)	-16.2892	-0.8239	0.695091
PITG_14972	Pi protein kinase, putative (2515 nt)	-16.3126	-0.77724	0.695091
PITG_17114	Pi conserved hypothetical protein (1473 nt)	-16.3126	-0.77724	0.695091
PITG_20086	Pi conserved hypothetical protein (1361 nt)	-14.3738	0.435821	0.695405
PITG_04875	Pi xaa-Pro aminopeptidase, putative (2111 nt)	-13.8324	-0.45555	0.695539
PITG_06387	Pi conserved hypothetical protein (583 nt)	-15.307	0.603102	0.69565
PITG_08184	Pi phosphatidylinositide phosphatase SAC1-like protein (474	-14.5657	0.512559	0.69573
PITG_23270	Pi crinkler (CRN) family protein, pseudogene (1386 nt)	-16.138	1.039013	0.69598
PITG_12494	Pi transmembrane protein, putative (1423 nt)	-14.6071	0.507903	0.696008
PITG_12441	Pi conserved hypothetical protein (1074 nt)	-16.3343	-0.94193	0.696066
PITG_01232	Pi conserved hypothetical protein (2368 nt)	-15.7062	0.439627	0.696078
PITG_01477	Pi myosin-like protein (5007 nt)	-13.9007	-0.48524	0.696428
PITG_14905	Pi conserved hypothetical protein (1760 nt)	-16.0048	0.869046	0.696778
PITG_12556	Pi elicitor-like INF6 (745 nt)	-14.1944	0.452595	0.696852
PITG_00337	Pi small mechanosensitive channel family protein, putative (	-14.7993	-0.47352	0.696958
PITG_11506	Pi hypothetical protein (475 nt)	-16.2466	-0.61171	0.697038
PITG_20711	Pi Folate-Biopterin Transporter (FBT) Family (981 nt)	-16.2461	-0.61263	0.697038
PITG_09866	Pi tRNA (adenine-N(1)-)-methyltransferase non-catalytic sub	-15.7398	0.566817	0.697139
PITG_05452	Pi hypothetical cleavage-induced protein (2059 nt)	-14.7338	0.653599	0.697671

PITG_00025	Pi conserved hypothetical protein (1831 nt)	-17.0025	-1.02363	0.697767
PITG_02794	Pi conserved hypothetical protein (1986 nt)	-17.0025	-1.02363	0.697767
PITG_03313	Pi conserved hypothetical protein (1944 nt)	-17.0025	-1.02363	0.697767
PITG_20506	Pi conserved hypothetical protein (5792 nt)	-17.0025	-1.02363	0.697767
PITG_08328	Pi ubiquitin-conjugating enzyme E2, putative (728 nt)	-15.296	0.520734	0.697945
PITG_14462	Pi AP-1 complex subunit mu, putative (2736 nt)	-14.7623	-0.51614	0.698116
PITG_22409	Pi hypothetical protein (978 nt)	-13.673	0.455189	0.698117
PITG_11047	Pi T-complex protein 1 subunit eta (2074 nt)	-13.4442	0.416452	0.698317
PITG_01798	Pi conserved hypothetical protein (1890 nt)	-14.3455	-0.48322	0.698673
PITG_03756	Pi kinesin-like protein (2314 nt)	-15.3014	-0.48812	0.699084
PITG_16378	Pi conserved hypothetical protein (1377 nt)	-15.3014	-0.48812	0.699084
PITG_20907	Pi cobalamin synthesis protein, putative (1297 nt)	-15.4086	-0.63696	0.699103
PITG_17838	Pi PexRD8 family secreted RxLR effector peptide, putative (4	-11.46	-0.38138	0.699222
PITG_05538	Pi conserved hypothetical protein (1354 nt)	-15.823	-0.79895	0.69925
PITG_11733	Pi pantothenate kinase, putative (1865 nt)	-14.7465	0.543054	0.699341
PITG_02780	Pi conserved hypothetical protein (6195 nt)	-16.9809	-0.97792	0.699391
PITG_02961	Pi choline dehydrogenase, putative (1843 nt)	-16.9809	-0.97792	0.699391
PITG_06536	Pi conserved hypothetical protein (2385 nt)	-16.9809	-0.97792	0.699391
PITG_08400	Pi conserved hypothetical protein (1956 nt)	-16.9809	-0.97792	0.699391
PITG_09968	Pi conserved hypothetical protein (1605 nt)	-16.9809	-0.97792	0.699391
PITG_10574	Pi RNA pseudouridylylase, putative (1084 nt)	-16.9809	-0.97792	0.699391
PITG_03130	Pi M96 mating-specific protein family (878 nt)	-14.2086	-0.48861	0.699427
PITG_01470	Pi syntaxin-like protein (1174 nt)	-14.561	-0.53614	0.699472
PITG_03039	Pi conserved hypothetical protein (3607 nt)	-14.2349	0.483501	0.699483
PITG_16757	Pi 40S ribosomal protein S15a (853 nt)	-9.89819	0.374395	0.699886
PITG_18372	Pi myotubularin-like protein (4389 nt)	-16.3114	-0.91838	0.699938
PITG_21601	Pi conserved hypothetical protein (5258 nt)	-16.3114	-0.91838	0.699938
PITG_00965	Pi conserved hypothetical protein (1942 nt)	-13.9453	0.447346	0.699949
PITG_03057	Pi ubiquitin-conjugating enzyme E2, putative (641 nt)	-15.2935	0.507999	0.700218
PITG_01103	Pi phosphatidylinositol synthase (PIS) (986 nt)	-13.4285	-0.40819	0.700223
PITG_12963	Pi conserved hypothetical protein (2475 nt)	-16.4323	-0.83831	0.700687
PITG_21174	Pi D-cysteine desulfhydrase, putative (1314 nt)	-12.9642	-0.41388	0.700875
PITG_08406	Pi conserved hypothetical protein (552 nt)	-15.055	0.587148	0.700952
PITG_20685	Pi conserved hypothetical protein (393 nt)	-13.901	0.449493	0.700999
PITG_02666	Pi protein kinase, putative (3176 nt)	-15.6673	0.610592	0.701558
PITG_08503	Pi conserved hypothetical protein (550 nt)	-15.6448	0.492687	0.701558
PITG_09563	Pi 40S ribosomal protein S9-1 (813 nt)	-8.43199	0.369002	0.702099
PITG_02384	Pi conserved hypothetical protein (1429 nt)	-15.3255	-0.55312	0.70247
PITG_16669	Pi transcription factor IIIB, putative (2114 nt)	-15.3535	-0.66526	0.70247
PITG_00656	Pi conserved hypothetical protein (699 nt)	-14.5083	0.49257	0.702472
PITG_08430	Pi conserved hypothetical protein (1350 nt)	-15.7019	-0.74294	0.70263
PITG_05653	Pi protein kinase, putative (3478 nt)	-14.7406	-0.52979	0.702975
PITG_22439	Pi conserved hypothetical protein (330 nt)	-14.1312	-0.48801	0.703094
PITG_11702	Pi conserved hypothetical protein (3018 nt)	-14.2411	-0.46404	0.703229
PITG_12788	Pi 12-oxophytodienoate reductase, putative (1119 nt)	-14.186	0.415971	0.703231
PITG_02827	Pi ras-like GTP-binding protein (1897 nt)	-14.5206	-0.50749	0.703713
PITG_03965	Pi transmembrane protein, putative (1919 nt)	-14.9839	0.524141	0.703989

PITG_16344	Pi conserved hypothetical protein (2776 nt)	-14.9634	0.533698	0.703989
PITG_06322	Pi myosin-like protein (9897 nt)	-14.5347	0.514487	0.704041
PITG_00979	Pi conserved hypothetical protein (2036 nt)	-13.6096	-0.47593	0.704266
PITG_07815	Pi conserved hypothetical protein (828 nt)	-14.547	-0.45512	0.704364
PITG_19049	Pi conserved hypothetical protein (1310 nt)	-13.74	-0.40734	0.704654
PITG_00646	Pi protein kinase, putative (2411 nt)	-16.24	-0.69363	0.704722
PITG_21875	Pi conserved hypothetical protein (1070 nt)	-16.2482	0.667014	0.704722
PITG_07791	Pi conserved hypothetical protein (698 nt)	-12.7379	0.393063	0.704944
PITG_09932	Pi translation initiation factor eIF-2B subunit epsilon, putativ	-14.9462	0.473953	0.705161
PITG_07790	Pi peroxisomal (S)-2-hydroxy-acid oxidase, putative (1448 nt	-14.5517	0.470194	0.70557
PITG_00179	Pi 40S ribosomal protein S12, putative (958 nt)	-8.73791	0.378902	0.705777
PITG_01479	Pi pre-mRNA-splicing factor prp46, putative (2055 nt)	-15.298	-0.49628	0.705811
PITG_02733	Pi conserved hypothetical protein (1731 nt)	-15.298	-0.49628	0.705811
PITG_02673	Pi conserved hypothetical protein (1392 nt)	-15.6341	-0.51356	0.705822
PITG_11648	Pi chitobiosyldiphosphodolichol beta-mannosyltransferase, p	-13.742	-0.43573	0.705961
PITG_03415	Pi cysteine protease family C01A, putative (1575 nt)	-15.1138	-0.64901	0.706123
PITG_08741	Pi conserved hypothetical protein (2554 nt)	-15.113	0.513958	0.706123
PITG_06845	Pi riboflavin kinase (601 nt)	-13.9053	-0.40473	0.70613
PITG_06559	Pi conserved hypothetical protein (1132 nt)	-16.2032	0.526538	0.706618
PITG_01580	Pi conserved hypothetical protein (510 nt)	-13.352	-0.39828	0.707975
PITG_11675	Pi conserved hypothetical protein (2970 nt)	-15.2872	-0.47821	0.708014
PITG_16385	Pi conserved hypothetical protein (1164 nt)	-17.0499	-0.93102	0.708255
PITG_18960	Pi conserved hypothetical protein (897 nt)	-17.0499	-0.93102	0.708255
PITG_17092	Pi protein arginine N-methyltransferase 1 (1032 nt)	-16.2249	0.720717	0.708505
PITG_22991	Pi conserved hypothetical protein (1248 nt)	-14.7243	-0.52851	0.708841
PITG_20593	Pi conserved hypothetical protein (1968 nt)	-15.7101	0.786962	0.708976
PITG_06885	Pi membrane-bound transcription factor site-1 protease, put	-16.9918	-1.04729	0.709056
PITG_07644	Pi replication factor C subunit 1 (2845 nt)	-17.0266	-0.88277	0.709056
PITG_08956	Pi DNA repair protein REV1 (2935 nt)	-16.9918	-1.04729	0.709056
PITG_08970	Pi conserved hypothetical protein (3475 nt)	-17.0266	-0.88277	0.709056
PITG_12146	Pi hypothetical protein (588 nt)	-17.0266	-0.88277	0.709056
PITG_14463	Pi protein kinase, putative (2115 nt)	-16.9918	-1.04729	0.709056
PITG_17205	Pi elongation factor G, putative (3736 nt)	-16.9918	-1.04729	0.709056
PITG_19251	Pi palmitoyltransferase, putative (1431 nt)	-16.9918	-1.04729	0.709056
PITG_22453	Pi conserved hypothetical protein (691 nt)	-17.0266	-0.88277	0.709056
PITG_15711	Pi conserved hypothetical protein (693 nt)	-15.2852	0.497556	0.709108
PITG_04685	Pi hypothetical protein (1441 nt)	-13.284	0.470291	0.70953
PITG_02277	Pi cyclopropane-fatty-acyl-phospholipid synthase (1439 nt)	-14.6815	0.50078	0.709597
PITG_05413	Pi patatin-like phospholipase, putative (1423 nt)	-14.6883	-0.48133	0.709597
PITG_13767	Pi conserved hypothetical protein (2007 nt)	-14.7044	-0.51317	0.709597
PITG_19164	Pi Mitochondrial Protein Translocase (MPT) Family (1613 nt)	-14.6812	-0.46704	0.709597
PITG_01375	Pi conserved hypothetical protein (11548 nt)	-16.9684	-0.99882	0.709856
PITG_14887	Pi conserved hypothetical protein (7911 nt)	-16.9684	-0.99882	0.709856
PITG_00947	Pi conserved hypothetical protein (1852 nt)	-14.3308	0.463861	0.709858
PITG_06674	Pi acetyl-CoA acetyltransferase IB (474 nt)	-14.1029	0.376472	0.709903
PITG_08601	Pi conserved hypothetical protein (1233 nt)	-11.9814	-0.38497	0.710186
PITG_01678	Pi conserved hypothetical protein (1602 nt)	-15.2498	0.612843	0.7102

PITG_13312	Pi 40S ribosomal protein S25, putative (1154 nt)	-8.73155	0.359655	0.710249
PITG_02960	Pi mitogen-activated protein kinase kinase kinase, putative (	-12.8189	-0.38268	0.710612
PITG_19054	Pi peroxisomal multifunctional enzyme, putative (1484 nt)	-13.1796	0.380757	0.710914
PITG_07155	Pi conserved hypothetical protein (1334 nt)	-11.0416	-0.40901	0.711042
PITG_11430	Pi conserved hypothetical protein (1414 nt)	-14.4574	-0.47816	0.711121
PITG_07055	Pi ribosomal protein S6 kinase, putative (2853 nt)	-14.2815	-0.5343	0.711295
PITG_03518	Pi hypothetical protein (249 nt)	-14.7136	0.59981	0.711417
PITG_13528	Pi conserved hypothetical protein (1300 nt)	-11.9909	-0.42986	0.711778
PITG_17673	Pi M96 mating-specific protein family (2077 nt)	-14.9921	-0.61338	0.71207
PITG_07048	Pi superoxide dismutase, mitochondrial precursor (800 nt)	-11.6885	0.364851	0.712076
PITG_01325	Pi myosin-like protein (1102 nt)	-13.3158	-0.40329	0.712248
PITG_00417	Pi Patatin like protein (3525 nt)	-15.3243	-0.52725	0.712363
PITG_16354	Pi conserved hypothetical protein (722 nt)	-16.0622	0.535033	0.712456
PITG_11464	Pi pairing protein 2 family protein (1400 nt)	-15.6376	0.605306	0.713123
PITG_11485	Pi conserved hypothetical protein (937 nt)	-15.6656	-0.64571	0.713123
PITG_09082	Pi conserved hypothetical protein (611 nt)	-14.8023	0.51327	0.71329
PITG_14657	Pi tubulin-specific chaperone E, putative (1808 nt)	-15.0449	-0.58208	0.713413
PITG_11116	Pi NAD-specific glutamate dehydrogenase, putative (3486 nt)	-13.7089	-0.46709	0.713491
PITG_03075	Pi Cullin family protein, putative (3486 nt)	-14.756	-0.49929	0.713535
PITG_13398	Pi tubulin-tyrosine ligase family, putative (3275 nt)	-15.7616	0.645335	0.713633
PITG_20779	Pi hypothetical protein (693 nt)	-15.7076	0.457081	0.713633
PITG_18541	Pi conserved hypothetical protein (234 nt)	-14.2826	-0.49031	0.713641
PITG_19728	Pi cohesin subunit, putative (4725 nt)	-15.282	-0.67352	0.714008
PITG_06772	Pi ATP-binding cassette sub-family F member 1 (2707 nt)	-14.2959	0.47606	0.714023
PITG_16645	Pi conserved hypothetical protein (1371 nt)	-14.9728	0.502126	0.714327
PITG_01297	Pi conserved hypothetical protein (663 nt)	-16.0681	0.679521	0.714363
PITG_20043	Pi conserved hypothetical protein (1810 nt)	-16.1452	-0.68856	0.714363
PITG_21046	Pi glycoside hydrolase, putative (1012 nt)	-16.1099	-0.75913	0.714363
PITG_06450	Pi myosin-like protein (3489 nt)	-15.2875	-0.47834	0.714509
PITG_18297	Pi ATP-binding Cassette (ABC) Superfamily (1773 nt)	-15.2355	0.48994	0.714621
PITG_21962	Pi alpha,alpha-trehalose-phosphate synthase [UDP-forming],	-15.6955	-0.75463	0.715173
PITG_00029	Pi aminoacylase-1, putative (1617 nt)	-14.234	-0.47764	0.715275
PITG_04724	Pi serine protease family S10, putative (1455 nt)	-16.0473	0.504548	0.715313
PITG_08447	Pi exonuclease, putative (2805 nt)	-16.1254	-0.78946	0.715313
PITG_22839	Pi nuclear mitotic apparatus protein, putative (5941 nt)	-15.3002	0.459795	0.715576
PITG_01622	Pi myosin-like protein (4212 nt)	-16.2927	-0.88134	0.71596
PITG_02229	Pi conserved hypothetical protein (1303 nt)	-16.1535	-0.79528	0.716259
PITG_15621	Pi conserved hypothetical protein (2935 nt)	-16.1535	-0.79528	0.716259
PITG_11433	Pi conserved hypothetical protein (989 nt)	-15.2722	0.403797	0.716638
PITG_02625	Pi conserved hypothetical protein (625 nt)	-16.1474	-0.80796	0.717202
PITG_01960	Pi conserved hypothetical protein (2080 nt)	-15.6349	0.584766	0.717207
PITG_17170	Pi peptidyl-tRNA hydrolase, putative (1208 nt)	-15.6827	-0.7271	0.717207
PITG_17351	Pi conserved hypothetical protein (1969 nt)	-13.5206	0.429868	0.717254
PITG_00232	Pi conserved hypothetical protein (691 nt)	-14.9212	-0.53507	0.717823
PITG_04992	Pi arginyl-tRNA synthetase, putative (1618 nt)	-14.64	-0.49292	0.718023
PITG_18384	Pi conserved hypothetical protein (688 nt)	-14.5007	-0.4194	0.718056
PITG_08129	Pi folic acid synthesis protein fol1, putative (1745 nt)	-16.1198	0.739217	0.718142

PITG_21665	Pi conserved hypothetical protein (1266 nt)	-16.1198	0.739217	0.718142
PITG_03041	Pi Major Facilitator Superfamily (MFS) (1170 nt)	-15.6431	0.471734	0.718218
PITG_12111	Pi conserved hypothetical protein (2470 nt)	-15.2429	0.594603	0.718959
PITG_05423	Pi DNA-dependent protein kinase catalytic subunit, putative	-16.1206	-0.7998	0.719079
PITG_07240	Pi 3-deoxy-manno-octulosonate cytidylyltransferase, putativ	-16.0493	-0.51929	0.719079
PITG_11194	Pi conserved hypothetical protein (3661 nt)	-16.1206	-0.7998	0.719079
PITG_14606	Pi conserved hypothetical protein (705 nt)	-16.1206	-0.7998	0.719079
PITG_15779	Pi conserved hypothetical protein (4641 nt)	-16.105	-0.76858	0.719079
PITG_16459	Pi thyroid receptor-interacting protein 13 (1292 nt)	-16.1206	-0.7998	0.719079
PITG_21014	Pi conserved hypothetical protein (2481 nt)	-16.105	-0.76858	0.719079
PITG_22982	Pi conserved hypothetical protein (393 nt)	-16.0638	0.627236	0.719079
PITG_12528	Pi conserved hypothetical protein (758 nt)	-10.4661	0.346598	0.719279
PITG_02494	Pi conserved hypothetical protein (1225 nt)	-13.8158	0.438997	0.719606
PITG_05478	Pi conserved hypothetical protein (2145 nt)	-16.2059	-0.70241	0.719635
PITG_08142	Pi 5-methylthioadenosine/S-adenosylhomocysteine deamina	-13.9186	-0.38355	0.719719
PITG_10039	Pi conserved hypothetical protein (693 nt)	-14.9751	0.456579	0.719873
PITG_21054	Pi conserved hypothetical protein (1243 nt)	-15.5726	-0.68427	0.719962
PITG_04229	Pi conserved hypothetical protein (711 nt)	-13.1134	0.393859	0.719988
PITG_11812	Pi DNA replication licensing factor Mcm2, putative (3072 nt)	-16.0868	0.58259	0.720013
PITG_08626	Pi conserved hypothetical protein (1020 nt)	-14.6945	-0.43782	0.720054
PITG_00542	Pi mediator of RNA polymerase II transcription subunit 31 (4	-14.9325	-0.54598	0.720072
PITG_12348	Pi conserved hypothetical protein (1089 nt)	-14.9055	-0.56659	0.720072
PITG_17140	Pi transmembrane protein, putative (1043 nt)	-14.2401	0.416114	0.720266
PITG_12839	Pi conserved hypothetical protein (1318 nt)	-13.3471	-0.38952	0.720274
PITG_21806	Pi fumarylacetoacetase (1812 nt)	-12.4352	-0.39334	0.720337
PITG_02662	Pi ubiquitin family protein, putative (1157 nt)	-12.449	-0.3813	0.720633
PITG_21314	Pi conserved hypothetical protein (1180 nt)	-14.4054	0.49791	0.720634
PITG_17733	Pi conserved hypothetical protein (522 nt)	-14.6804	-0.46643	0.721184
PITG_13404	Pi DNA-directed RNA polymerase II 135 kDa polypeptide (360	-14.7427	0.453064	0.72142
PITG_13969	Pi conserved hypothetical protein (545 nt)	-15.2509	0.55454	0.72216
PITG_14921	Pi conserved hypothetical protein (676 nt)	-14.8933	0.442857	0.722298
PITG_05531	Pi conserved hypothetical protein (2270 nt)	-15.3163	-0.61286	0.722921
PITG_12151	Pi aspartyl-tRNA synthetase, putative (1714 nt)	-13.89	-0.37561	0.723009
PITG_06733	Pi transmembrane protein, putative (2112 nt)	-15.5624	0.597335	0.723037
PITG_19457	Pi conserved hypothetical protein (512 nt)	-15.5972	-0.68279	0.723037
PITG_00333	Pi dihydroflavonol-4-reductase, putative (3720 nt)	-13.1542	-0.40412	0.723131
PITG_12541	Pi conserved hypothetical protein (659 nt)	-13.9173	0.426689	0.723374
PITG_15466	Pi serine protease family S33, putative (1221 nt)	-14.2201	-0.40391	0.723822
PITG_11468	Pi peptide deformylase, putative (834 nt)	-15.5118	0.578912	0.724053
PITG_05813	Pi conserved hypothetical protein (983 nt)	-16.0657	-0.54644	0.724641
PITG_12662	Pi conserved hypothetical protein (681 nt)	-13.9561	0.418733	0.724701
PITG_16813	Pi Rio kinase (1437 nt)	-15.5656	0.652393	0.725065
PITG_03576	Pi RNA (guanine-9-)-methyltransferase domain-containing pr	-14.8277	0.458467	0.725138
PITG_11497	Pi transcriptional regulator ATRX (3819 nt)	-16.1353	-0.70734	0.725558
PITG_13224	Pi beclin-1-like protein (2184 nt)	-16.1353	-0.70734	0.725558
PITG_01510	Pi conserved hypothetical protein (568 nt)	-14.5854	0.41169	0.725895
PITG_16749	Pi hypothetical protein (1503 nt)	-12.3534	-0.36281	0.725958



PITG_18050	Pi conserved hypothetical protein (1456 nt)	-14.633	-0.4754	0.726041
PITG_06242	Pi conserved hypothetical protein (797 nt)	-12.6509	-0.36519	0.726096
PITG_13778	Pi cell cycle-related kinase, putative (2870 nt)	-11.8337	0.349457	0.726266
PITG_21706	Pi conserved hypothetical protein (1444 nt)	-13.8391	0.468819	0.726421
PITG_04006	Pi conserved hypothetical protein (3031 nt)	-14.4376	0.3717	0.726441
PITG_01954	Pi conserved hypothetical protein (1015 nt)	-16.0461	-0.52763	0.726473
PITG_05889	Pi conserved hypothetical protein (4132 nt)	-16.1018	-0.77436	0.726473
PITG_08056	Pi carbohydrate esterase, putative (1567 nt)	-16.0461	-0.52763	0.726473
PITG_20236	Pi conserved hypothetical protein (1559 nt)	-16.1179	-0.80655	0.726473
PITG_15294	Pi histidinol dehydrogenase, putative (1676 nt)	-15.581	-0.61927	0.727076
PITG_15982	Pi histone-arginine methyltransferase, putative (1126 nt)	-15.5582	0.637023	0.727076
PITG_18518	Pi translation initiation factor eIF-2B subunit alpha, putative	-15.1364	-0.4875	0.72772
PITG_12053	Pi acetylornithine aminotransferase, mitochondrial precursor	-14.0168	-0.41764	0.727905
PITG_04862	Pi RNA binding protein, putative (1307 nt)	-12.7461	-0.38723	0.728104
PITG_12179	Pi conserved hypothetical protein (519 nt)	-12.4977	0.385645	0.728264
PITG_04644	Pi mRNA cap guanine-N7 methyltransferase, putative (1772	-16.12	-0.67316	0.728294
PITG_19299	Pi conserved hypothetical protein (715 nt)	-14.8551	-0.52576	0.728464
PITG_11462	Pi conserved hypothetical protein (1920 nt)	-13.6489	0.403806	0.728669
PITG_00849	Pi hypothetical protein (310 nt)	-13.7447	0.38603	0.728892
PITG_15544	Pi conserved hypothetical protein (588 nt)	-16.742	-0.66843	0.728988
PITG_19692	Pi conserved hypothetical protein (1804 nt)	-16.7219	-0.78395	0.728988
PITG_09523	Pi Rab32/38 family GTPase, putative (683 nt)	-15.5532	-0.48459	0.72907
PITG_16446	Pi ribosomal protein S6 kinase, putative (2757 nt)	-13.5104	0.372244	0.729294
PITG_01238	Pi hypothetical protein (1236 nt)	-12.5535	-0.41334	0.729745
PITG_06149	Pi conserved hypothetical protein (2283 nt)	-14.6768	-0.44651	0.730024
PITG_15384	Pi conserved hypothetical protein (351 nt)	-13.9025	0.428016	0.73004
PITG_02951	Pi phosphoglycerate mutase family (708 nt)	-15.5694	-0.59375	0.730061
PITG_04318	Pi conserved hypothetical protein (1698 nt)	-15.2984	0.584937	0.730064
PITG_06861	Pi conserved hypothetical protein (1298 nt)	-16.7614	-0.70566	0.730551
PITG_13433	Pi conserved hypothetical protein (1183 nt)	-16.7614	-0.70566	0.730551
PITG_07163	Pi ubiquitin-fold modifier 1 precursor (515 nt)	-13.6093	-0.41458	0.730736
PITG_02134	Pi conserved hypothetical protein (17245 nt)	-16.0659	0.585564	0.731005
PITG_07731	Pi protein kinase, putative (2749 nt)	-16.136	-0.83693	0.731005
PITG_21150	Pi Folate-Biopterin Transporter (FBT) Family (1554 nt)	-15.5435	0.571995	0.731048
PITG_04471	Pi Argonaute2 (AGO2) (2784 nt)	-13.7745	-0.4648	0.731076
PITG_01053	Pi Amino Acid-Polyamine-Organocation (APC) Family (1680 r	-16.7074	-0.814	0.731331
PITG_13605	Pi zinc phosphodiesterase ELAC protein 2, putative (1054 nt)	-16.8855	-1.17035	0.731331
PITG_14218	Pi conserved hypothetical protein (2868 nt)	-16.7074	-0.814	0.731331
PITG_10502	Pi conserved hypothetical protein (676 nt)	-14.3038	-0.45963	0.731365
PITG_17959	Pi conserved hypothetical protein (1255 nt)	-14.8208	0.394707	0.731736
PITG_10484	Pi axin interactor, putative (1221 nt)	-13.8321	0.486917	0.731844
PITG_00176	Pi presenilin-like protein (1741 nt)	-16.0546	0.609758	0.731903
PITG_00263	Pi conserved hypothetical protein (4408 nt)	-13.8466	-0.46208	0.731964
PITG_01578	Pi conserved hypothetical protein (1235 nt)	-14.432	0.386089	0.732011
PITG_13077	Pi geranylgeranyl pyrophosphate synthetase (1034 nt)	-15.2738	0.407789	0.732071
PITG_16347	Pi conserved hypothetical protein (1156 nt)	-15.9831	-0.59452	0.73211
PITG_21418	Pi conserved hypothetical protein (4089 nt)	-15.9831	-0.59452	0.73211

PITG_05376	Pi mitogen-activated protein kinase organizer, putative (143	-14.3982	0.39015	0.73213
PITG_21018	Pi expressed protein (1433 nt)	-13.3747	-0.39348	0.732246
PITG_01342	Pi conserved hypothetical protein (2067 nt)	-14.5931	-0.49952	0.732657
PITG_03631	Pi conserved hypothetical protein (1670 nt)	-16.0167	0.487172	0.732799
PITG_11886	Pi ubiquitin family protein, putative (1263 nt)	-14.1667	-0.4045	0.732942
PITG_11009	Pi conserved hypothetical protein (2119 nt)	-13.2723	0.339523	0.732952
PITG_19516	Pi conserved hypothetical protein (2268 nt)	-15.1652	-0.54251	0.732955
PITG_15629	Pi conserved hypothetical protein (1197 nt)	-14.8874	-0.46299	0.733095
PITG_20167	Pi Crinkler (CRN) family protein, pseudogene (2511 nt)	-11.8531	-0.52389	0.733399
PITG_05300	Pi methyltransferase (2289 nt)	-15.4723	0.567201	0.733402
PITG_04348	Pi conserved hypothetical protein (3299 nt)	-16.727	-0.69792	0.733661
PITG_14151	Pi conserved hypothetical protein (3267 nt)	-16.727	-0.69792	0.733661
PITG_15946	Pi hypothetical protein (2795 nt)	-16.727	-0.69792	0.733661
PITG_20202	Pi conserved hypothetical protein (1366 nt)	-14.8461	-0.4417	0.733888
PITG_03102	Pi septum-promoting GTP-binding protein 1 (827 nt)	-15.997	-0.62225	0.73395
PITG_09701	Pi conserved hypothetical protein (489 nt)	-15.997	-0.62225	0.73395
PITG_10394	Pi nitric oxide synthase-interacting protein, putative (870 nt)	-15.9447	-0.67133	0.73395
PITG_00460	Pi phosphatidylinositol-4-phosphate-5-kinase (Pi-PIP5K) (30	-15.581	-0.71687	0.733985
PITG_13367	Pi XRP2-like protein (1462 nt)	-15.1505	0.530876	0.733987
PITG_09430	Pi trafficking protein particle complex subunit 2, putative (14	-13.085	0.379269	0.734182
PITG_07033	Pi conserved hypothetical protein (555 nt)	-14.545	-0.45868	0.734386
PITG_16022	Pi conserved hypothetical protein (1078 nt)	-15.4654	0.553476	0.734404
PITG_11444	Pi conserved hypothetical protein (918 nt)	-15.0964	0.507191	0.734484
PITG_19158	Pi conserved hypothetical protein (2102 nt)	-15.0631	-0.40155	0.734484
PITG_06513	Pi hypothetical protein (577 nt)	-16.1012	0.573293	0.734583
PITG_09374	Pi conserved hypothetical protein (2997 nt)	-15.9608	0.675859	0.734866
PITG_07191	Pi protein kinase, putative (1786 nt)	-15.1342	0.468032	0.735014
PITG_06792	Pi conserved hypothetical protein (4242 nt)	-16.7472	-0.73574	0.735207
PITG_21852	Pi diphthamide biosynthesis protein, putative (1635 nt)	-16.7472	-0.73574	0.735207
PITG_12483	Pi eukaryotic translation initiation factor 3, putative (1428 nt)	-14.2151	0.414387	0.735334
PITG_14613	Pi conserved hypothetical protein (1019 nt)	-16.1085	-0.46589	0.735472
PITG_11822	Pi conserved hypothetical protein (1137 nt)	-15.0611	-0.40547	0.735535
PITG_07039	Pi N(4)-(Beta-N-acetylglucosaminy)-L-asparaginase, putative	-15.9719	-0.61703	0.735777
PITG_10758	Pi beta-glucan synthesis-associated protein, putative (2337 r	-15.9213	0.555127	0.735777
PITG_13309	Pi conserved hypothetical protein (1365 nt)	-16.0093	-0.59824	0.735777
PITG_19639	Pi conserved hypothetical protein (2459 nt)	-15.9719	-0.61703	0.735777
PITG_00746	Pi conserved hypothetical protein (1512 nt)	-15.5682	-0.59452	0.735924
PITG_01100	Pi aquaporin, putative (2207 nt)	-15.5445	-0.64198	0.735924
PITG_02809	Pi conserved hypothetical protein (4665 nt)	-14.8645	0.505556	0.736018
PITG_13972	Pi U6 snRNA-associated Sm-like protein LSm6, putative (456	-12.0058	0.346974	0.736091
PITG_04958	Pi coatomer subunit beta' (3231 nt)	-13.8149	0.433333	0.736096
PITG_01639	Pi Small Conductance Mechanosensitive Ion Channel (MscS)	-15.478	-0.58915	0.736393
PITG_05291	Pi Animal Inward Rectifier K Channel (IRK-C) Family (1553 nt	-15.0435	0.373906	0.73658
PITG_07808	Pi fidgetin-like protein (3137 nt)	-13.7799	-0.42697	0.736677
PITG_09247	Pi neurobeachin-like protein (8721 nt)	-15.9402	-0.68046	0.736686
PITG_07310	Pi Putative beta-1,4-galactosyltransferase (1089 nt)	-14.7605	0.438124	0.737269
PITG_13371	Pi 60S ribosomal protein L31, putative (762 nt)	-9.27467	0.326345	0.737276

PITG_17611	Pi hypothetical protein (540 nt)	-14.3481	-0.3876	0.737455
PITG_10389	Pi conserved hypothetical protein (363 nt)	-15.9738	0.617688	0.737591
PITG_12107	Pi conserved hypothetical protein (1621 nt)	-15.9864	-0.64457	0.737591
PITG_16495	Pi conserved hypothetical protein (2508 nt)	-15.9864	-0.64457	0.737591
PITG_21765	Pi conserved hypothetical protein (1047 nt)	-13.2382	0.352881	0.738231
PITG_20773	Pi conserved hypothetical protein (1446 nt)	-14.9149	-0.51427	0.7383
PITG_14573	Pi AP-3 complex subunit delta, putative (3366 nt)	-14.7939	-0.52254	0.738342
PITG_02040	Pi deoxyribonuclease TATDN1-like protein (1658 nt)	-15.4243	-0.48085	0.738364
PITG_19183	Pi conserved hypothetical protein (1447 nt)	-15.4484	0.452263	0.738364
PITG_10005	Pi conserved hypothetical protein (1921 nt)	-12.435	0.338843	0.738459
PITG_03371	Pi acyltransferase, putative (1770 nt)	-15.9547	-0.70808	0.738494
PITG_15392	Pi leukotriene A-4 hydrolase-like protein (2013 nt)	-14.4504	-0.48807	0.738504
PITG_13737	Pi protoplast secreted protein 2 precursor (697 nt)	-9.71845	-0.38311	0.738583
PITG_13469	Pi hypothetical protein (765 nt)	-15.0281	0.669041	0.738812
PITG_00194	Pi casein kinase II subunit, putative (1305 nt)	-12.2115	-0.35054	0.739113
PITG_08751	Pi protein phosphatase 2C, putative (1128 nt)	-14.777	0.470766	0.739409
PITG_12325	Pi hypothetical protein (645 nt)	-16.1171	-0.51317	0.739877
PITG_07885	Pi eukaryotic translation initiation factor 2 subunit alpha (1222 nt)	-12.268	-0.33718	0.739883
PITG_20264	Pi 40S ribosomal protein S13 (784 nt)	-9.22637	0.327044	0.739943
PITG_03012	Pi conserved hypothetical protein (823 nt)	-10.1564	0.318835	0.740101
PITG_18009	Pi conserved hypothetical protein (495 nt)	-14.2991	0.353387	0.740249
PITG_12304	Pi TATA-box-binding protein, putative (560 nt)	-15.9482	0.650704	0.740288
PITG_18243	Pi conserved hypothetical protein (567 nt)	-15.4637	0.516313	0.740318
PITG_02097	Pi hypothetical protein (2647 nt)	-14.7679	-0.40979	0.740469
PITG_10952	Pi conserved hypothetical protein (3778 nt)	-14.7762	-0.42868	0.740469
PITG_02802	Pi stomatin-like protein (1226 nt)	-14.2767	0.39781	0.740517
PITG_09846	Pi prolyl-tRNA synthetase, putative (2542 nt)	-13.8767	0.346449	0.740541
PITG_12155	Pi flagellar peptidyl-prolyl cis-trans isomerase (884 nt)	-13.9475	-0.41639	0.740565
PITG_21458	Pi conserved hypothetical protein (2035 nt)	-15.5214	-0.5033	0.740705
PITG_10590	Pi kynurenine-oxoglutarate transaminase, putative (1503 nt)	-15.0689	-0.495	0.740707
PITG_19634	Pi polygalacturonase, putative (651 nt)	-16.077	0.681282	0.740751
PITG_13920	Pi phosphatidylinositol kinase (PIK-D) (3069 nt)	-15.9139	-0.47648	0.741181
PITG_15407	Pi ribosomal protein L34 (647 nt)	-8.56398	-0.32739	0.741228
PITG_00426	Pi conserved hypothetical protein (2286 nt)	-15.4543	0.530844	0.741288
PITG_01938	Pi glyceraldehyde-3-phosphate dehydrogenase (1025 nt)	-12.0045	0.373968	0.741561
PITG_01408	Pi D-isomer specific 2-hydroxyacid dehydrogenase, putative (1025 nt)	-13.0439	0.335918	0.741602
PITG_19184	Pi ER lumen protein retaining receptor (1036 nt)	-14.2881	-0.41561	0.741637
PITG_05815	Pi ATP-binding Cassette (ABC) Superfamily (5469 nt)	-15.569	-0.69147	0.74165
PITG_02813	Pi conserved hypothetical protein (1230 nt)	-14.5257	0.386911	0.742065
PITG_03990	Pi conserved hypothetical protein (1403 nt)	-14.5265	-0.41701	0.742065
PITG_01994	Pi conserved hypothetical protein (290 nt)	-15.9826	-0.6532	0.742071
PITG_04588	Pi Amino Acid/Auxin Permease (AAAP) Family (1551 nt)	-15.9826	-0.6532	0.742071
PITG_01604	Pi serine palmitoyltransferase, putative (1525 nt)	-12.8072	0.337	0.742179
PITG_00482	Pi conserved hypothetical protein (2025 nt)	-14.4874	-0.39305	0.742374
PITG_03936	Pi ras protein let-60 (1206 nt)	-11.8248	-0.33467	0.742415
PITG_00178	Pi dual specificity tyrosine-phosphorylation-regulated kinase (1206 nt)	-14.3088	-0.39693	0.742447
PITG_08808	Pi calcyphosin-like protein (1653 nt)	-16.0858	-0.73693	0.742492

PITG_01846	Pi actin-related protein 2/3 complex subunit, putative (2316 nt)	-12.8726	-0.3352	0.742548
PITG_17767	Pi conserved hypothetical protein (3923 nt)	-15.0886	0.520261	0.742739
PITG_03815	Pi FAD-dependent oxidoreductase domain-containing protein (2316 nt)	-14.3684	-0.36678	0.742894
PITG_01898	Pi conserved hypothetical protein (734 nt)	-15.9704	-0.73586	0.742957
PITG_14598	Pi prolyl endopeptidase, putative (2259 nt)	-13.7166	0.351145	0.743079
PITG_01068	Pi conserved hypothetical protein (1195 nt)	-15.4415	-0.61747	0.743216
PITG_05740	Pi conserved hypothetical protein (1906 nt)	-15.4415	-0.61747	0.743216
PITG_12956	Pi conserved hypothetical protein (2474 nt)	-15.4639	-0.57268	0.743216
PITG_20354	Pi hypothetical protein (649 nt)	-12.9839	-0.38428	0.743448
PITG_02319	Pi hypothetical protein (3391 nt)	-14.4935	-0.45672	0.743465
PITG_19536	Pi conserved hypothetical protein (567 nt)	-14.472	0.434968	0.743465
PITG_17141	Pi Major Facilitator Superfamily (MFS) (1374 nt)	-16.772	-0.77177	0.743611
PITG_17110	Pi conserved hypothetical protein (2299 nt)	-15.0401	0.366641	0.743748
PITG_09963	Pi cellulose synthase catalytic subunit, putative (4148 nt)	-11.9075	-0.34066	0.743803
PITG_00151	Pi conserved hypothetical protein (429 nt)	-12.4842	-0.33928	0.744037
PITG_18055	Pi mitochondrial inner membrane protease ATP23 (990 nt)	-15.1161	0.402736	0.744048
PITG_10462	Pi conserved hypothetical protein (3594 nt)	-14.5204	-0.40293	0.744202
PITG_13437	Pi metalloprotease family M16C, putative (3147 nt)	-16.7179	-0.71511	0.744367
PITG_20836	Pi conserved hypothetical protein (1774 nt)	-16.7179	-0.71511	0.744367
PITG_19774	Pi mannose-6-phosphate isomerase, putative (1208 nt)	-14.7118	0.386528	0.744385
PITG_20320	Pi retinol dehydrogenase, putative (693 nt)	-15.5361	-0.61752	0.744465
PITG_12310	Pi conserved hypothetical protein (966 nt)	-13.3889	0.351136	0.744642
PITG_16923	Pi hypothetical protein (415 nt)	-14.9704	-0.43771	0.744804
PITG_18053	Pi dolichyl-diphosphooligosaccharide-protein glycosyltransferase (1080 nt)	-13.4371	-0.38277	0.745111
PITG_20714	Pi putative E3 ubiquitin-protein ligase MARCH6 (membrane-associated) (1080 nt)	-15.0265	-0.5438	0.745609
PITG_09305	Pi DNA repair protein RAD51 (1465 nt)	-15.0778	0.498095	0.74575
PITG_00083	Pi conserved hypothetical protein (957 nt)	-16.7395	-0.75512	0.745875
PITG_01204	Pi DNA mismatch repair protein, putative (2873 nt)	-16.7395	-0.75512	0.745875
PITG_09851	Pi metalloprotease family M12A, putative (1182 nt)	-16.7395	-0.75512	0.745875
PITG_16097	Pi Monovalent Cation:Proton Antiporter-1 (CPA1) Family (1609 nt)	-16.7395	-0.75512	0.745875
PITG_08653	Pi mitochondrial import inner membrane translocase subunit (1080 nt)	-15.0198	-0.45395	0.746628
PITG_16375	Pi conserved hypothetical protein (624 nt)	-14.9957	0.468962	0.746628
PITG_20208	Pi conserved hypothetical protein (3284 nt)	-14.2891	-0.41675	0.74713
PITG_10552	Pi hypothetical protein (1882 nt)	-14.2333	0.374723	0.747184
PITG_03028	Pi pre-mRNA-splicing factor SF2 (928 nt)	-12.7791	-0.35946	0.747217
PITG_17244	Pi zinc finger CDGSH domain-containing protein 1 (405 nt)	-11.7607	-0.32111	0.747321
PITG_00911	Pi conserved hypothetical protein (1817 nt)	-15.9979	-0.68288	0.747346
PITG_03032	Pi conserved hypothetical protein (2103 nt)	-15.9653	-0.63042	0.747346
PITG_00430	Pi conserved hypothetical protein (2326 nt)	-16.8655	-1.20385	0.747379
PITG_07141	Pi methionyl-tRNA synthetase, putative (1621 nt)	-16.8655	-1.20385	0.747379
PITG_15089	Pi ribosomal protein S6 kinase, putative (2109 nt)	-14.7095	-0.46787	0.747535
PITG_08687	Pi Mitochondrial Carrier (MC) Family (1084 nt)	-16.0423	0.462433	0.74766
PITG_05070	Pi conserved hypothetical protein (1421 nt)	-14.6896	-0.51101	0.747705
PITG_03147	Pi conserved hypothetical protein (849 nt)	-15.7001	0.799771	0.74788
PITG_06649	Pi adenyl cyclase-associated protein, putative (1414 nt)	-12.8175	0.336367	0.747897
PITG_15837	Pi chromodomain protein, putative (3178 nt)	-16.6987	-0.66857	0.748129
PITG_06764	Pi phosphatidylinositol transfer protein SFH5, putative (1014 nt)	-15.3356	-0.3799	0.748277

PITG_19419	Pi conserved hypothetical protein (1373 nt)	-15.3762	-0.45247	0.748277
PITG_09627	Pi ribosomal protein L23, putative (958 nt)	-12.9711	0.352608	0.748359
PITG_19176	Pi conserved hypothetical protein (421 nt)	-12.7628	0.338311	0.748483
PITG_13827	Pi conserved hypothetical protein (2988 nt)	-15.0066	-0.43086	0.748649
PITG_16318	Pi transmembrane protein, putative (627 nt)	-15.0059	-0.43231	0.748649
PITG_00284	Pi phospholipase D, Pi-PXTM-PLD (5424 nt)	-15.4411	-0.61774	0.7489
PITG_04562	Pi mucin, putative (11178 nt)	-15.4526	-0.64064	0.7489
PITG_03294	Pi 60S ribosomal protein L6, putative (1516 nt)	-10.4848	0.321397	0.749769
PITG_11405	Pi conserved hypothetical protein (4792 nt)	-14.4264	-0.3681	0.749902
PITG_01537	Pi conserved hypothetical protein (1356 nt)	-14.3149	-0.4124	0.749937
PITG_13791	Pi conserved hypothetical protein (1320 nt)	-15.9502	-0.72	0.749944
PITG_05839	Pi conserved hypothetical protein (542 nt)	-10.5683	-0.36342	0.750081
PITG_03971	Pi acetyltransferase (GNAT) family, putative (541 nt)	-13.0857	0.33002	0.750485
PITG_01747	Pi conserved hypothetical protein (1101 nt)	-14.7016	-0.39426	0.750632
PITG_19956	Pi conserved hypothetical protein (1681 nt)	-15.8324	-0.53261	0.750697
PITG_03719	Pi voltage-gated potassium channel subunit beta, putative (1	-12.3968	0.327857	0.750741
PITG_21216	Pi hypothetical protein (306 nt)	-15.4282	0.443868	0.750763
PITG_01839	Pi 4-coumarate-CoA ligase, putative (2069 nt)	-14.4625	0.381612	0.750918
PITG_15497	Pi conserved hypothetical protein (1797 nt)	-14.3204	0.424225	0.750982
PITG_00943	Pi proline synthetase co-transcribed bacterial protein (849 nt)	-13.8745	0.376058	0.751112
PITG_01031	Pi conserved hypothetical protein (2295 nt)	-13.6649	0.346031	0.751142
PITG_14276	Pi conserved hypothetical protein (866 nt)	-13.7824	0.371952	0.751389
PITG_00887	Pi conserved hypothetical protein (1650 nt)	-15.8393	0.627366	0.751581
PITG_12145	Pi serine protease family S33, putative (1748 nt)	-15.0152	-0.44811	0.751641
PITG_04662	Pi conserved hypothetical protein (1364 nt)	-13.2482	-0.35912	0.751943
PITG_02237	Pi conserved hypothetical protein (484 nt)	-13.8784	-0.38719	0.752218
PITG_15117	Pi actin-like protein (1384 nt)	-10.3725	0.339614	0.752234
PITG_06257	Pi conserved hypothetical protein (6418 nt)	-15.9411	0.63672	0.752517
PITG_06686	Pi conserved hypothetical protein (2067 nt)	-15.9922	-0.75743	0.752517
PITG_16153	Pi conserved hypothetical protein (965 nt)	-15.4413	-0.5256	0.752611
PITG_11023	Pi conserved hypothetical protein (786 nt)	-14.9967	-0.48535	0.752628
PITG_09920	Pi conserved hypothetical protein (1401 nt)	-15.0074	-0.51263	0.752628
PITG_15688	Pi conserved hypothetical protein (2067 nt)	-15.0074	-0.51263	0.752628
PITG_10576	Pi conserved hypothetical protein (1213 nt)	-15.341	0.413591	0.75304
PITG_10892	Pi hypothetical protein (1141 nt)	-15.3569	-0.53189	0.75304
PITG_03753	Pi ubiquitin carboxyl-terminal hydrolase and/or F-box protein	-14.6664	-0.38005	0.753043
PITG_14822	Pi conserved hypothetical protein (2339 nt)	-15.8523	0.653051	0.753338
PITG_10022	Pi vacuolar protein sorting-associated protein 8 (5419 nt)	-14.4395	-0.4387	0.754125
PITG_05171	Pi 60S ribosomal protein L44 (673 nt)	-8.28234	0.318379	0.754217
PITG_02957	Pi conserved hypothetical protein (1746 nt)	-15.9063	0.523102	0.754219
PITG_08331	Pi conserved hypothetical protein (1413 nt)	-16.0365	0.82744	0.754219
PITG_09427	Pi conserved hypothetical protein (786 nt)	-12.7803	0.373392	0.754561
PITG_17563	Pi hypothetical protein (1433 nt)	-11.5434	0.302783	0.754651
PITG_07818	Pi conserved hypothetical protein (551 nt)	-16.7671	-0.79113	0.754825
PITG_08659	Pi conserved hypothetical protein (2330 nt)	-12.1568	-0.4297	0.75506
PITG_14176	Pi conserved hypothetical protein (1998 nt)	-15.816	0.580232	0.755081
PITG_06690	Pi conserved hypothetical protein (863 nt)	-12.1909	0.322283	0.755374

PITG_01182	Pi conserved hypothetical protein (2003 nt)	-15.0073	-0.51252	0.755559
PITG_21492	Pi conserved hypothetical protein (2918 nt)	-15.3369	-0.45853	0.755845
PITG_02426	Pi conserved hypothetical protein (1473 nt)	-15.77	0.335877	0.755948
PITG_03997	Pi conserved hypothetical protein (2059 nt)	-15.8549	-0.54028	0.755948
PITG_21209	Pi conserved hypothetical protein (1158 nt)	-13.5189	-0.37105	0.756047
PITG_14692	Pi conserved hypothetical protein (455 nt)	-14.4095	-0.41468	0.756279
PITG_05491	Pi conserved hypothetical protein (974 nt)	-16.7181	-0.89055	0.756301
PITG_14136	Pi tRNA-dihydrouridine synthase, putative (1339 nt)	-16.7181	-0.89055	0.756301
PITG_15252	Pi conserved hypothetical protein (1635 nt)	-16.8436	-1.14154	0.756301
PITG_07700	Pi conserved hypothetical protein (826 nt)	-15.3561	-0.5335	0.756771
PITG_02067	Pi pre-mRNA-splicing factor cwc2, putative (1347 nt)	-14.9112	0.378733	0.756836
PITG_06708	Pi cyclin-dependent kinase, putative (2415 nt)	-14.6662	-0.43638	0.757122
PITG_07796	Pi myosin-like protein (2910 nt)	-16.6334	-0.96109	0.757415
PITG_09522	Pi conserved hypothetical protein (2072 nt)	-16.6274	-0.89779	0.757415
PITG_13486	Pi dTDP-D-glucose 4,6-dehydratase, putative (1332 nt)	-16.6213	-0.9853	0.757415
PITG_21180	Pi conserved hypothetical protein (1029 nt)	-16.6213	-0.9853	0.757415
PITG_16083	Pi glyoxylate/hydroxypyruvate reductase A, putative (1239 nt)	-16.016	-0.7461	0.757591
PITG_12291	Pi pre-mRNA-processing factor 39, putative (2886 nt)	-14.6872	0.336604	0.757663
PITG_05549	Pi conserved hypothetical protein (1577 nt)	-16.6804	-0.61144	0.757773
PITG_08183	Pi conserved hypothetical protein (1792 nt)	-14.9372	-0.50314	0.757819
PITG_12913	Pi conserved hypothetical protein (2337 nt)	-14.9372	-0.50314	0.757819
PITG_00054	Pi Mitochondrial Protein Translocase (MPT) Family (911 nt)	-13.4268	-0.3646	0.758125
PITG_03498	Pi octanoyltransferase, putative (967 nt)	-16.6461	-0.93593	0.75816
PITG_18693	Pi hypothetical protein (1064 nt)	-15.0101	0.469825	0.758446
PITG_12290	Pi conserved hypothetical protein (1221 nt)	-15.8234	0.514244	0.758527
PITG_22053	Pi NPP1-like protein (798 nt)	-15.8686	0.616554	0.758527
PITG_16207	Pi pre-mRNA-splicing helicase BRR2, putative (6882 nt)	-14.2787	-0.41134	0.758648
PITG_05780	Pi conserved hypothetical protein (1494 nt)	-14.916	0.362314	0.758797
PITG_00224	Pi conserved hypothetical protein (3393 nt)	-16.515	-0.5787	0.758903
PITG_07042	Pi conserved hypothetical protein (738 nt)	-16.5914	-0.9696	0.758903
PITG_09867	Pi calcineurin-like phosphoesterase, putative (1895 nt)	-16.515	-0.5787	0.758903
PITG_06758	Pi conserved hypothetical protein (654 nt)	-14.2359	-0.47198	0.758955
PITG_03466	Pi aldehyde dehydrogenase, putative (2196 nt)	-14.4854	-0.47189	0.759076
PITG_02547	Pi transcription initiation factor TFIID subunit 1, putative (471 nt)	-15.803	-0.53992	0.759381
PITG_08607	Pi conserved hypothetical protein (2566 nt)	-15.803	-0.53992	0.759381
PITG_15267	Pi phospholipid-transporting ATPase, putative (5630 nt)	-15.803	-0.53992	0.759381
PITG_01714	Pi conserved hypothetical protein (411 nt)	-13.2061	-0.31414	0.759554
PITG_03831	Pi conserved hypothetical protein (2000 nt)	-16.5835	-0.9086	0.759644
PITG_17402	Pi conserved hypothetical protein (402 nt)	-16.5835	-0.9086	0.759644
PITG_03083	Pi nuclease precursor (725 nt)	-15.4236	0.464384	0.759855
PITG_07496	Pi conserved hypothetical protein (468 nt)	-15.8508	-0.60319	0.760231
PITG_17129	Pi copper-transporting ATPase, putative (3401 nt)	-15.7974	0.582192	0.760231
PITG_13826	Pi hybrid signal transduction histidine kinase, putative (1264 nt)	-14.7907	-0.55894	0.760557
PITG_03353	Pi 60S ribosomal protein L17-2 (752 nt)	-8.68791	0.295994	0.760707
PITG_03566	Pi conserved hypothetical protein (1146 nt)	-15.9258	-0.52005	0.760923
PITG_22918	Pi conserved hypothetical protein (1214 nt)	-15.9665	-0.6283	0.760923
PITG_07652	Pi mitogen-activated protein kinase, putative (3285 nt)	-15.9853	0.743912	0.760923

PITG_11959	Pi conserved hypothetical protein (2156 nt)	-13.8879	0.326089	0.761049
PITG_10625	Pi conserved hypothetical protein (978 nt)	-16.503	-0.60395	0.761121
PITG_19056	Pi Cation Diffusion Facilitator (CDF) Family (1173 nt)	-14.9991	-0.49322	0.761291
PITG_16065	Pi conserved hypothetical protein (643 nt)	-12.8311	-0.30192	0.76132
PITG_12834	Pi conserved hypothetical protein (572 nt)	-14.7338	0.416558	0.761564
PITG_21398	Pi DEAD/DEAH box RNA helicase, putative (3288 nt)	-14.6464	0.346388	0.762091
PITG_21378	Pi protein disulfide-isomerase, putative (1781 nt)	-10.2542	-0.31636	0.762262
PITG_01097	Pi conserved hypothetical protein (8792 nt)	-15.8019	-0.64856	0.762763
PITG_09780	Pi conserved hypothetical protein (2136 nt)	-15.8019	-0.64856	0.762763
PITG_17317	Pi hypothetical protein (752 nt)	-15.1062	0.437631	0.762911
PITG_00854	Pi conserved hypothetical protein (3184 nt)	-13.8042	0.34376	0.762978
PITG_02607	Pi peroxisomal multifunctional enzyme, putative (1083 nt)	-12.5344	0.293047	0.763157
PITG_05175	Pi conserved hypothetical protein (1473 nt)	-11.2771	-0.33492	0.763295
PITG_15529	Pi exosome complex exonuclease RRP45-like protein (1853 r	-16.4748	-0.59138	0.763323
PITG_05156	Pi secretory protein OPEL (1892 nt)	-10.2884	-0.35977	0.763636
PITG_18435	Pi uricase, putative (1137 nt)	-11.8744	-0.308	0.764015
PITG_01047	Pi conserved hypothetical protein (1840 nt)	-16.5828	-0.9861	0.764054
PITG_19750	Pi conserved hypothetical protein (4204 nt)	-16.5828	-0.9861	0.764054
PITG_02259	Pi hsp70-like protein (2266 nt)	-15.2971	-0.56903	0.764469
PITG_12881	Pi dolichyl-diphosphooligosaccharide-protein glycosyltransfe	-11.5929	-0.29451	0.764627
PITG_18161	Pi conserved hypothetical protein (1269 nt)	-15.3353	-0.48948	0.764925
PITG_00492	Pi cytochrome c peroxidase, mitochondrial precursor (1247 r	-11.4993	0.31638	0.765122
PITG_18048	Pi aconitate hydratase, mitochondrial precursor (3034 nt)	-11.4023	0.31738	0.765354
PITG_21599	Pi conserved hypothetical protein (1744 nt)	-15.2508	0.460143	0.765379
PITG_00187	Pi protein kinase, putative (1771 nt)	-16.6033	-1.02449	0.76551
PITG_02728	Pi inositol-3,4-bisphosphate 4-phosphatase, putative (6826 r	-16.6033	-1.02449	0.76551
PITG_07074	Pi conserved hypothetical protein (4855 nt)	-16.4935	-0.62503	0.76551
PITG_22555	Pi conserved hypothetical protein (1343 nt)	-15.3249	0.411543	0.765811
PITG_00699	Pi dynactin subunit 5, putative (906 nt)	-14.8868	-0.46189	0.766261
PITG_03927	Pi conserved hypothetical protein (1626 nt)	-15.7598	-0.62709	0.766877
PITG_13913	Pi SUMO protease, putative (2081 nt)	-15.8152	-0.56901	0.766922
PITG_19269	Pi conserved hypothetical protein (1193 nt)	-16.5639	-0.94332	0.766959
PITG_07096	Pi protease inhibitor Epi11 (1335 nt)	-11.9799	0.36944	0.767177
PITG_10939	Pi conserved hypothetical protein (681 nt)	-12.1548	-0.32168	0.767179
PITG_14375	Pi conserved hypothetical protein (1976 nt)	-15.2333	-0.36812	0.767186
PITG_22069	Pi arginase, putative (598 nt)	-14.1189	0.344214	0.767356
PITG_02948	Pi conserved hypothetical protein (1305 nt)	-13.1553	0.338634	0.767364
PITG_01195	Pi aspartate aminotransferase, putative (2001 nt)	-15.122	-0.43618	0.767398
PITG_19550	Pi phosphatidylserine decarboxylase, putative (1442 nt)	-15.6948	0.555756	0.767724
PITG_07839	Pi translation initiation factor eIF-2B subunit gamma, putativ	-15.2606	0.442798	0.768083
PITG_15876	Pi conserved hypothetical protein (953 nt)	-15.6808	0.388111	0.768568
PITG_01966	Pi conserved hypothetical protein (1154 nt)	-15.2717	0.452619	0.768576
PITG_03158	Pi tRNA isopentenyltransferase, putative (1380 nt)	-15.3693	0.568216	0.76932
PITG_02017	Pi conserved hypothetical protein (1481 nt)	-15.6856	0.537179	0.769408
PITG_13096	Pi conserved hypothetical protein (2588 nt)	-15.7277	0.621347	0.769408
PITG_06710	Pi conserved hypothetical protein (1204 nt)	-15.4317	0.447678	0.769461
PITG_05318	Pi N-(5'-phosphoribosyl)anthranilate isomerase indole-3-glyc	-14.545	-0.40643	0.769704

PITG_06185	Pi ADP-ribosylation factor 2 (1004 nt)	-14.539	0.360861	0.769704
PITG_09955	Pi acyl-CoA dehydrogenase family member 9, mitochondrial	-12.9318	-0.35668	0.769949
PITG_09816	Pi conserved hypothetical protein (1536 nt)	-15.7296	-0.46617	0.770245
PITG_09426	Pi conserved hypothetical protein (1331 nt)	-14.3416	0.383622	0.770721
PITG_01947	Pi COPII coat assembly protein SEC16, putative (8683 nt)	-14.5855	0.331042	0.770905
PITG_09508	Pi ubiquitin carboxyl-terminal hydrolase, putative (1014 nt)	-14.3027	0.402467	0.77108
PITG_16812	Pi anaphase-promoting complex subunit 10 (692 nt)	-14.2944	0.362267	0.77108
PITG_13416	Pi ubiquinone biosynthesis protein COQ4 (849 nt)	-15.1904	0.399646	0.77121
PITG_18236	Pi conserved hypothetical protein (1431 nt)	-15.1867	0.421848	0.77121
PITG_20999	Pi conserved hypothetical protein (2109 nt)	-14.112	0.355825	0.771391
PITG_05498	Pi heat shock protein 90, putative (2645 nt)	-12.5303	0.305671	0.771748
PITG_12470	Pi glycerol-3-phosphate acyltransferase, putative (2523 nt)	-15.6738	0.37439	0.771909
PITG_05450	Pi conserved hypothetical protein (1286 nt)	-14.8889	-0.45861	0.771909
PITG_05307	Pi phosphoenolpyruvate carboxykinase, putative (1985 nt)	-9.22974	-0.33864	0.77249
PITG_03266	Pi conserved hypothetical protein (1069 nt)	-15.8387	-0.69014	0.772623
PITG_05155	Pi conserved hypothetical protein (972 nt)	-15.7883	-0.45898	0.772623
PITG_07516	Pi EF hand containing protein, putative (1368 nt)	-15.8387	-0.69014	0.772623
PITG_03061	Pi conserved hypothetical protein (1746 nt)	-14.3484	-0.43054	0.772666
PITG_00859	Pi hypothetical protein (759 nt)	-15.7236	0.57474	0.772735
PITG_10923	Pi apolipoprotein A-I-binding protein, putative (966 nt)	-15.6978	-0.53058	0.772735
PITG_21842	Pi conserved hypothetical protein (859 nt)	-14.9587	0.494856	0.772864
PITG_01173	Pi palmitoyltransferase, putative (1089 nt)	-14.0113	0.342852	0.773194
PITG_14836	Pi conserved hypothetical protein (1128 nt)	-16.4698	-0.60229	0.773402
PITG_00066	Pi conserved hypothetical protein (3837 nt)	-15.7639	0.473129	0.774228
PITG_19161	Pi pyruvate dehydrogenase E1 component subunit beta (142	-12.5016	0.302148	0.77436
PITG_08290	Pi conserved hypothetical protein (958 nt)	-15.6935	0.492579	0.775195
PITG_17572	Pi protein kinase (614 nt)	-14.7018	0.396658	0.775521
PITG_03461	Pi conserved hypothetical protein (839 nt)	-16.4728	-0.74669	0.775521
PITG_06201	Pi TATA-box-binding protein (1101 nt)	-15.7981	-0.44151	0.775821
PITG_20687	Pi ribulose-phosphate 3-epimerase (753 nt)	-14.0351	-0.34297	0.776012
PITG_06438	Pi conserved hypothetical protein (1345 nt)	-16.601	-1.0334	0.776225
PITG_12728	Pi conserved hypothetical protein (342 nt)	-14.5396	-0.33949	0.776385
PITG_06379	Pi serine/threonine protein kinase (1971 nt)	-14.9221	-0.46577	0.77644
PITG_01701	Pi hypothetical protein (487 nt)	-11.8879	0.276716	0.776612
PITG_10207	Pi Mitochondrial Carrier (MC) Family (1035 nt)	-13.8873	0.352541	0.777102
PITG_05854	Pi conserved hypothetical protein (512 nt)	-15.1939	-0.40941	0.777425
PITG_03459	Pi COP9 signalosome complex subunit, putative (1255 nt)	-15.1736	0.396318	0.777425
PITG_04843	Pi 60S ribosomal protein L13, putative (1197 nt)	-9.16336	0.275774	0.778048
PITG_00423	Pi conserved hypothetical protein (781 nt)	-13.4567	-0.30546	0.778273
PITG_05691	Pi conserved hypothetical protein (2217 nt)	-15.1835	-0.43043	0.778295
PITG_17387	Pi ras-specific guanine nucleotide-releasing factor, putative (	-15.1641	-0.46921	0.778295
PITG_08383	Pi DNA-directed RNA polymerase III largest subunit (4605 nt)	-15.6966	0.460161	0.778428
PITG_16430	Pi conserved hypothetical protein (2730 nt)	-15.6966	0.460161	0.778428
PITG_21215	Pi transmembrane protein, putative (1222 nt)	-15.7345	-0.6238	0.778428
PITG_09449	Pi SCO1 family protein (916 nt)	-13.8588	-0.34601	0.77868
PITG_10045	Pi ser/thr kinase (4007 nt)	-15.6726	0.509247	0.779229
PITG_18651	Pi conserved hypothetical protein (2887 nt)	-14.7984	-0.34903	0.779571



PITG_06363	Pi conserved hypothetical protein (1885 nt)	-15.7893	-0.62208	0.77976
PITG_20954	Pi conserved hypothetical protein (948 nt)	-15.694	-0.54095	0.780027
PITG_05168	Pi conserved hypothetical protein (1032 nt)	-15.568	0.37572	0.78027
PITG_16315	Pi conserved hypothetical protein (783 nt)	-16.3912	-0.75805	0.780393
PITG_04530	Pi conserved hypothetical protein (1065 nt)	-11.9782	-0.28497	0.780463
PITG_18694	Pi conserved hypothetical protein (410 nt)	-14.8477	0.400506	0.780929
PITG_03226	Pi glutathione S-transferase, putative (1389 nt)	-13.1223	-0.40689	0.780945
PITG_13432	Pi conserved hypothetical protein (1026 nt)	-16.3885	-0.83127	0.781101
PITG_04708	Pi bifunctional fold protein (927 nt)	-14.7319	-0.33739	0.781273
PITG_07420	Pi hypothetical protein (1269 nt)	-14.762	-0.45722	0.781273
PITG_11302	Pi hypothetical protein (455 nt)	-14.4889	-0.39003	0.781486
PITG_02787	Pi conserved hypothetical protein (1719 nt)	-14.5005	-0.36765	0.781486
PITG_12308	Pi conserved hypothetical protein (1038 nt)	-14.4502	-0.32063	0.781618
PITG_18754	Pi conserved hypothetical protein (817 nt)	-16.3949	-0.7507	0.781807
PITG_21660	Pi trehalase, putative (2103 nt)	-16.3949	-0.7507	0.781807
PITG_08584	Pi conserved hypothetical protein (1865 nt)	-15.5669	-0.36716	0.7819
PITG_12478	Pi conserved hypothetical protein (1470 nt)	-15.6139	-0.55449	0.7819
PITG_16975	Pi hypothetical protein (491 nt)	-15.5669	-0.36716	0.7819
PITG_18416	Pi conserved hypothetical protein (2192 nt)	-15.6225	-0.58432	0.7819
PITG_14114	Pi conserved hypothetical protein (1440 nt)	-14.7346	0.409493	0.782185
PITG_03563	Pi conserved hypothetical protein (1413 nt)	-15.0885	-0.38528	0.782422
PITG_08766	Pi demethylmenaquinone methyltransferase, putative (1035	-16.3781	-0.71607	0.78251
PITG_06841	Pi conserved hypothetical protein (2425 nt)	-15.1642	-0.46935	0.782582
PITG_13235	Pi putative P-type ATPase (2964 nt)	-15.1465	0.342526	0.782582
PITG_12275	Pi conserved hypothetical protein (548 nt)	-15.5997	-0.39009	0.78271
PITG_17107	Pi aldehyde dehydrogenase, putative (1721 nt)	-15.5994	0.401767	0.78271
PITG_18254	Pi conserved hypothetical protein (3885 nt)	-15.5654	0.498694	0.78271
PITG_03617	Pi protein kinase (2278 nt)	-16.2943	0.390312	0.783212
PITG_20861	Pi ATP-binding Cassette (ABC) Superfamily (474 nt)	-16.2956	-0.51196	0.783212
PITG_13016	Pi pescadillo-like protein (1896 nt)	-15.1084	0.444053	0.783289
PITG_03355	Pi conserved hypothetical protein (1254 nt)	-14.4619	-0.39448	0.783485
PITG_15998	Pi phospholipase A-2-activating protein, putative (2794 nt)	-14.7541	-0.44323	0.783993
PITG_13927	Pi conserved hypothetical protein (1113 nt)	-14.4907	0.327413	0.784229
PITG_13718	Pi conserved hypothetical protein (1401 nt)	-15.1838	0.47756	0.784268
PITG_06769	Pi conserved hypothetical protein (1080 nt)	-15.6319	-0.61347	0.784319
PITG_11197	Pi myosin-like protein (3912 nt)	-15.7334	-0.62415	0.784748
PITG_17674	Pi 5'-3' exoribonuclease 1, putative (4517 nt)	-15.1179	-0.52443	0.785863
PITG_13669	Pi serine/threonine protein kinase (2411 nt)	-15.5722	-0.40084	0.785913
PITG_13796	Pi conserved hypothetical protein (967 nt)	-16.5165	-0.66873	0.785928
PITG_03348	Pi RNA polymerase-associated protein CTR9 (3501 nt)	-14.4868	0.334704	0.786032
PITG_00431	Pi calcineurin-like phosphoesterase, putative (1687 nt)	-12.1706	-0.28961	0.786035
PITG_14941	Pi conserved hypothetical protein (1344 nt)	-13.7938	0.296465	0.78634
PITG_02970	Pi hypothetical protein (586 nt)	-16.5839	-0.8022	0.786611
PITG_05072	Pi secreted RxLR effector peptide, putative, 3' partial (402 nt)	-16.4731	-0.75609	0.786611
PITG_06611	Pi vacuolar amino acid transporter, putative (1810 nt)	-14.7156	0.28018	0.786665
PITG_17986	Pi conserved hypothetical protein (1234 nt)	-14.7304	0.400433	0.786665
PITG_19813	Pi conserved hypothetical protein (1907 nt)	-16.3616	-0.67767	0.786692

PITG_01817	Pi conserved hypothetical protein (1015 nt)	-15.5752	0.427139	0.786705
PITG_21687	Pi conserved hypothetical protein (533 nt)	-16.5402	-0.88892	0.787293
PITG_14137	Pi histone-lysine N-methyltransferase, putative (4506 nt)	-16.3883	-0.76449	0.787382
PITG_19126	Pi conserved hypothetical protein (875 nt)	-16.3883	-0.76449	0.787382
PITG_08366	Pi parafibromin-like protein (1596 nt)	-14.4025	-0.36917	0.787957
PITG_08609	Pi endomembrane protein 70-like protein, putative (2953 nt)	-14.4083	-0.33407	0.787957
PITG_22865	Pi propionyl coenzyme A carboxylase (Pi-PCC1) (2295 nt)	-14.0428	-0.33967	0.788431
PITG_12727	Pi cysteine synthase (1160 nt)	-12.4476	-0.29369	0.788681
PITG_03486	Pi conserved hypothetical protein (662 nt)	-9.15506	0.297717	0.788729
PITG_01206	Pi xaa-Pro aminopeptidase, putative (1660 nt)	-14.4017	0.385302	0.788871
PITG_05007	Pi glutaminyl-tRNA synthetase, putative (2013 nt)	-14.4078	-0.38146	0.788871
PITG_00719	Pi acetyl-coenzyme A synthetase (2013 nt)	-14.4404	-0.38865	0.788949
PITG_01453	Pi ubiquitin-specific protease, putative (8843 nt)	-14.5356	-0.37063	0.788982
PITG_15528	Pi hypothetical protein (242 nt)	-14.7299	0.399176	0.789292
PITG_15738	Pi conserved hypothetical protein (965 nt)	-14.1989	-0.34496	0.789303
PITG_22340	Pi conserved hypothetical protein (641 nt)	-14.7029	-0.3953	0.789754
PITG_17672	Pi conserved hypothetical protein (2875 nt)	-15.1128	-0.40797	0.790065
PITG_03750	Pi endo-1,3(4)-beta-glucanase, putative (1797 nt)	-15.5594	-0.38138	0.790616
PITG_13838	Pi polycomb protein EZH2, putative (2824 nt)	-15.5594	-0.38138	0.790616
PITG_15154	Pi conserved hypothetical protein (1444 nt)	-13.6233	0.285207	0.790797
PITG_00553	Pi 2-oxoglutarate dehydrogenase E1 component, putative (2	-16.4007	-0.88437	0.790804
PITG_10610	Pi conserved hypothetical protein (912 nt)	-16.4007	-0.88437	0.790804
PITG_14484	Pi conserved hypothetical protein (1905 nt)	-16.4007	-0.88437	0.790804
PITG_16666	Pi conserved hypothetical protein (631 nt)	-13.7585	-0.28718	0.791368
PITG_11431	Pi ubiquitin-specific protease, putative (3500 nt)	-15.6043	-0.57204	0.791388
PITG_16736	Pi adenylosuccinate synthetase (1656 nt)	-12.9017	0.267573	0.791429
PITG_11568	Pi hypothetical protein (996 nt)	-15.2235	0.402932	0.791645
PITG_05679	Pi replication protein A 70 kDa DNA-binding subunit, putative	-15.0145	-0.38148	0.791844
PITG_09443	Pi prefoldin subunit 2, putative (589 nt)	-13.1344	-0.29831	0.79195
PITG_09437	Pi conserved hypothetical protein (976 nt)	-13.4697	0.327994	0.791971
PITG_18962	Pi DNA repair protein, putative (2633 nt)	-15.5828	-0.4262	0.792157
PITG_08311	Pi conserved hypothetical protein (622 nt)	-9.23685	0.267711	0.792349
PITG_18912	Pi nonsense transcript regulator (2567 nt)	-14.1264	-0.29075	0.792458
PITG_09722	Pi thioredoxin H-type (1210 nt)	-13.3218	-0.31232	0.792556
PITG_00747	Pi hydroxymethylglutaryl-CoA lyase, mitochondrial precursor	-13.4399	-0.30582	0.793309
PITG_17035	Pi conserved hypothetical protein (1584 nt)	-15.0459	-0.36704	0.793517
PITG_11540	Pi conserved hypothetical protein (3669 nt)	-15.5237	-0.45368	0.793666
PITG_15387	Pi conserved hypothetical protein (2150 nt)	-15.4589	0.320921	0.793666
PITG_18873	Pi conserved hypothetical protein (1696 nt)	-15.4921	0.387355	0.793666
PITG_02071	Pi protein kinase, putative (1360 nt)	-14.3678	-0.3454	0.79394
PITG_01073	Pi conserved hypothetical protein (2492 nt)	-14.3568	-0.32341	0.79394
PITG_15462	Pi GAF domain-containing protein (1812 nt)	-16.2754	0.619637	0.79418
PITG_03440	Pi malate synthase (1771 nt)	-11.5262	-0.31453	0.794418
PITG_07052	Pi conserved hypothetical protein (443 nt)	-15.4862	0.375355	0.794447
PITG_01224	Pi conserved hypothetical protein (821 nt)	-14.8541	-0.33696	0.794464
PITG_01770	Pi leukocyte receptor cluster member 8 (1942 nt)	-14.2381	-0.32589	0.794512
PITG_13015	Pi conserved hypothetical protein (1792 nt)	-14.4005	0.324525	0.795114

PITG_04533	Pi conserved hypothetical protein (1683 nt)	-15.5701	-0.49908	0.795202
PITG_02482	Pi ATP-dependent RNA helicase DHX8 (3493 nt)	-15.4805	-0.36785	0.795225
PITG_18635	Pi conserved hypothetical protein (621 nt)	-13.7316	-0.32537	0.795283
PITG_03460	Pi seryl-tRNA synthetase (1365 nt)	-13.4195	0.292131	0.795522
PITG_06328	Pi Rab8 family GTPase, putative (2041 nt)	-14.6806	-0.35225	0.795818
PITG_10445	Pi DNA-directed RNA polymerase I, II, and III subunit RPABC1	-15.4634	0.399216	0.795999
PITG_01751	Pi conserved hypothetical protein (682 nt)	-15.526	0.607733	0.795999
PITG_09702	Pi conserved hypothetical protein (1816 nt)	-14.3626	-0.33246	0.796603
PITG_00205	Pi conserved hypothetical protein (736 nt)	-13.0786	0.28273	0.796749
PITG_03336	Pi GTP-binding protein TypA/BipA, putative (2327 nt)	-15.4884	-0.52396	0.79677
PITG_00225	Pi sialin-like protein (1725 nt)	-14.6318	-0.31134	0.796818
PITG_14169	Pi conserved hypothetical protein (3882 nt)	-14.1387	0.350993	0.796976
PITG_01424	Pi conserved hypothetical protein (2122 nt)	-16.1991	-0.58099	0.797329
PITG_17298	Pi tRNA (cytosine-5-)-methyltransferase, putative (2567 nt)	-16.1222	0.414937	0.797329
PITG_03661	Pi cysteinyl-tRNA synthetase, putative (2142 nt)	-14.6743	-0.39478	0.797506
PITG_01649	Pi AP-2 complex subunit sigma (767 nt)	-13.3903	0.26318	0.79766
PITG_01463	Pi hypothetical protein (1847 nt)	-16.2056	-0.62858	0.798009
PITG_02978	Pi Chloride Channel (CIC) Family (1830 nt)	-16.2056	-0.62858	0.798009
PITG_00088	Pi pre-mRNA-splicing factor cwc2, putative (1347 nt)	-15.1007	0.342289	0.798164
PITG_14633	Pi conserved hypothetical protein (943 nt)	-15.609	-0.37517	0.798199
PITG_03015	Pi aspartyl/Asparaginyl beta-hydroxylase, putative (1095 nt)	-15.4627	0.446698	0.7983
PITG_13151	Pi protein transporter Sec24 (4393 nt)	-15.0193	0.408166	0.798431
PITG_00543	Pi formate-tetrahydrofolate ligase (2336 nt)	-14.2472	-0.38264	0.798787
PITG_21940	Pi cytochrome P450, putative (1575 nt)	-16.292	0.598472	0.798835
PITG_13165	Pi D-3-phosphoglycerate dehydrogenase, putative (1923 nt)	-14.9649	-0.41474	0.798849
PITG_03966	Pi NhaC Na :H Antiporter (NhaC) Family (2306 nt)	-16.1753	-0.56742	0.799362
PITG_20331	Pi conserved hypothetical protein (1878 nt)	-16.1494	0.5169	0.799362
PITG_12684	Pi CSH (456 nt)	-13.4032	-0.29012	0.799524
PITG_21581	Pi conserved hypothetical protein (824 nt)	-14.3231	-0.34569	0.799598
PITG_03376	Pi endomembrane protein 70-like protein, putative (2245 nt)	-12.2941	-0.25647	0.799611
PITG_19456	Pi protein kinase, putative (2099 nt)	-14.945	-0.31405	0.799671
PITG_04857	Pi impact-like protein (1370 nt)	-15.4868	-0.52681	0.799817
PITG_17978	Pi conserved hypothetical protein (1735 nt)	-15.4837	-0.40555	0.799817
PITG_13912	Pi conserved hypothetical protein (368 nt)	-13.1604	-0.29736	0.80007
PITG_01128	Pi putative fatty-acid-CoA ligase, putative (2690 nt)	-14.3441	0.320447	0.800075
PITG_02927	Pi hypothetical protein (700 nt)	-13.1065	-0.3522	0.800265
PITG_02198	Pi homoserine kinase, putative (1289 nt)	-14.9751	0.453801	0.800488
PITG_21067	Pi conserved hypothetical protein (1059 nt)	-15.477	0.356122	0.80057
PITG_14394	Pi conserved hypothetical protein (662 nt)	-14.6816	-0.35057	0.800827
PITG_03596	Pi conserved hypothetical protein (1893 nt)	-12.8279	-0.27936	0.801184
PITG_17245	Pi conserved hypothetical protein (1389 nt)	-14.0588	-0.31456	0.801214
PITG_07774	Pi conserved hypothetical protein (2334 nt)	-15.476	-0.5035	0.80132
PITG_23159	Pi HECT E3 ubiquitin ligase, putative (5214 nt)	-15.476	-0.5035	0.80132
PITG_05469	Pi conserved hypothetical protein (1071 nt)	-16.1754	-0.62788	0.801374
PITG_16818	Pi conserved hypothetical protein (3006 nt)	-16.1754	-0.62788	0.801374
PITG_20944	Pi conserved hypothetical protein (1984 nt)	-16.1754	-0.62788	0.801374
PITG_17853	Pi conserved hypothetical protein (3488 nt)	-14.6976	0.637196	0.8016

PITG_03342	Pi sorting and assembly machinery component 50 (1971 nt)	-14.0825	0.277899	0.801819
PITG_19149	Pi conserved hypothetical protein (2916 nt)	-15.1783	0.462382	0.801851
PITG_20386	Pi eukaryotic translation initiation factor 5B (2919 nt)	-14.6291	0.311613	0.80189
PITG_05634	Pi hypothetical protein (1687 nt)	-16.2141	-0.67492	0.802041
PITG_11701	Pi CLPTM1-like membrane protein, putative (1971 nt)	-16.1912	-0.65846	0.802041
PITG_06579	Pi conserved hypothetical protein (819 nt)	-12.7127	0.275523	0.802167
PITG_10616	Pi endoplasmic reticulum-Golgi intermediate compartment p	-14.1179	0.306601	0.80221
PITG_12234	Pi phosphatidic acid phosphatase (1429 nt)	-14.6335	0.378835	0.802718
PITG_01953	Pi serine/threonine-protein phosphatase, putative (3061 nt)	-14.9439	-0.31645	0.802911
PITG_04601	Pi phosphoadenosine phosphosulfate reductase (1647 nt)	-14.9536	-0.40447	0.802911
PITG_15903	Pi phosphoethanolamine N-methyltransferase (1532 nt)	-15.5631	0.316668	0.803333
PITG_23134	Pi conserved hypothetical protein (390 nt)	-15.6057	-0.4662	0.803333
PITG_22939	Pi Crinkler (CRN) family protein, pseudogene (1654 nt)	-13.2676	-0.38946	0.80334
PITG_11426	Pi conserved hypothetical protein (1125 nt)	-16.1605	-0.5951	0.803367
PITG_04325	Pi pectinesterase, putative (1053 nt)	-15.7577	0.551041	0.803379
PITG_18860	Pi conserved hypothetical protein (988 nt)	-14.5709	-0.35461	0.803425
PITG_21807	Pi conserved hypothetical protein (2911 nt)	-15.5096	-0.48097	0.80355
PITG_22638	Pi conserved hypothetical protein (455 nt)	-15.4543	0.296961	0.80355
PITG_16113	Pi conserved hypothetical protein (1971 nt)	-14.9478	0.373187	0.80371
PITG_09681	Pi transmembrane protein, putative (2182 nt)	-16.1788	0.625084	0.804027
PITG_05290	Pi myosin-like protein (3290 nt)	-14.6215	-0.44532	0.804398
PITG_17589	Pi histidine acid phosphatase, putative (1155 nt)	-16.1227	0.513226	0.804684
PITG_14239	Pi Poly(A) polymerase, putative (3061 nt)	-14.3031	-0.34417	0.804753
PITG_15967	Pi dynein heavy chain, outer arm (14271 nt)	-15.5473	0.334875	0.804776
PITG_08002	Pi glucosylceramidase, putative (1829 nt)	-14.6756	-0.33467	0.804878
PITG_17784	Pi conserved hypothetical protein (1308 nt)	-15.4203	-0.44642	0.804879
PITG_03836	Pi conserved hypothetical protein (1754 nt)	-15.4986	-0.45722	0.80502
PITG_16008	Pi 40S ribosomal protein S27-like protein (935 nt)	-8.75499	0.237604	0.805311
PITG_00254	Pi mitogen-activated protein kinase, putative (2165 nt)	-14.3069	0.283367	0.805593
PITG_01125	Pi Drug/Metabolite Transporter (DMT) Superfamily (1700 nt)	-15.3989	0.485912	0.805631
PITG_03571	Pi phosphatidylinositol kinase (PIK-L3) (13852 nt)	-15.4565	0.386127	0.805751
PITG_01340	Pi conserved hypothetical protein (2082 nt)	-15.4135	-0.46025	0.806378
PITG_17693	Pi conserved hypothetical protein (1816 nt)	-15.3928	-0.41893	0.806378
PITG_05301	Pi translation elongation factor 1-alpha, putative (1898 nt)	-13.7544	0.280236	0.806535
PITG_11795	Pi ATP-dependent RNA helicase SUPV3L1, putative (2961 nt)	-14.5707	-0.35411	0.806737
PITG_13686	Pi Sulfate Permease (SulP) Family (3498 nt)	-14.5841	-0.32735	0.806737
PITG_13426	Pi conserved hypothetical protein (2646 nt)	-16.1869	-0.66825	0.807295
PITG_02971	Pi conserved hypothetical protein (2669 nt)	-13.2676	0.262154	0.807344
PITG_13753	Pi choline/Carnitine O-acyltransferase, putative (2114 nt)	-13.3549	-0.28579	0.807436
PITG_14113	Pi conserved hypothetical protein (952 nt)	-14.27	0.301277	0.807499
PITG_06233	Pi conserved hypothetical protein (811 nt)	-16.1456	-0.5589	0.807943
PITG_00359	Pi hypothetical protein (817 nt)	-12.73	-0.27319	0.808242
PITG_00851	Pi conserved hypothetical protein (1468 nt)	-14.952	-0.33312	0.808416
PITG_17804	Pi Amino Acid/Auxin Permease (AAP) Family (1545 nt)	-14.1307	-0.44292	0.808565
PITG_00023	Pi mitoferrin-like protein (1812 nt)	-15.3723	0.333536	0.8086
PITG_14565	Pi conserved hypothetical protein (1448 nt)	-15.4119	-0.46382	0.8086
PITG_10845	Pi conserved hypothetical protein (2676 nt)	-15.4566	-0.46362	0.808643

PITG_14910	Pi conserved hypothetical protein (2328 nt)	-12.2361	-0.25035	0.809165
PITG_18000	Pi conserved hypothetical protein (872 nt)	-12.7504	-0.25112	0.809982
PITG_15641	Pi conserved hypothetical protein (1283 nt)	-14.2313	0.32449	0.810035
PITG_03276	Pi U4/U6.U5 tri-snRNP-associated protein, putative (2068 nt)	-15.3813	-0.36929	0.810064
PITG_07565	Pi folate-Biopterin Transporter (FBT) family (1775 nt)	-16.2561	0.464311	0.810453
PITG_00853	Pi conserved hypothetical protein (642 nt)	-16.1706	0.653647	0.810513
PITG_10524	Pi gastricsin, aspartyl protease family A01A, putative (2214 nt)	-14.5583	0.319928	0.810768
PITG_04626	Pi Amino Acid/Auxin Permease (AAP) Family (1323 nt)	-15.3806	0.459639	0.81079
PITG_05742	Pi RWP-RK domain-containing protein, putative (708 nt)	-15.3774	-0.37752	0.81079
PITG_06427	Pi serine hydroxymethyltransferase, mitochondrial precursor	-12.3023	0.303325	0.810954
PITG_08714	Pi lysyl-tRNA synthetase (1990 nt)	-16.334	-0.6364	0.811085
PITG_08017	Pi cell division cycle protein 123 (1114 nt)	-16.1367	0.443946	0.811151
PITG_07300	Pi 60S ribosomal protein L35 (797 nt)	-9.23187	0.23705	0.811455
PITG_02696	Pi vacuolar protein sorting-associated protein, putative (1330 nt)	-15.3607	0.343645	0.811514
PITG_13272	Pi conserved hypothetical protein (768 nt)	-15.4108	-0.46646	0.811514
PITG_00995	Pi conserved hypothetical protein (537 nt)	-13.1643	-0.26802	0.811565
PITG_07660	Pi transmembrane protein, putative (1026 nt)	-14.8943	0.42019	0.811568
PITG_04970	Pi conserved hypothetical protein (3710 nt)	-16.1497	0.419494	0.811787
PITG_07900	Pi Amino Acid/Auxin Permease (AAP) Family (1652 nt)	-16.1245	0.469904	0.811787
PITG_03402	Pi conserved hypothetical protein (2464 nt)	-15.5394	0.363367	0.811834
PITG_13112	Pi conserved hypothetical protein (1738 nt)	-13.4443	-0.30214	0.81192
PITG_00140	Pi chromodomain-helicase-DNA-binding protein, putative (510 nt)	-14.9125	-0.45372	0.812337
PITG_14003	Pi conserved hypothetical protein (1725 nt)	-16.1456	-0.45134	0.812421
PITG_04443	Pi Metal Ion (Mn2 -iron) Transporter (Nramp) Family (1725 nt)	-16.0475	-0.4657	0.813359
PITG_12274	Pi conserved hypothetical protein (567 nt)	-16.0114	-0.53799	0.813359
PITG_05882	Pi conserved hypothetical protein (952 nt)	-16.032	-0.55228	0.814006
PITG_10813	Pi endoplasmic reticulum metalloproteinase, putative (2973 nt)	-16.0337	-0.43787	0.814006
PITG_11271	Pi conserved hypothetical protein (1236 nt)	-16.0337	-0.43787	0.814006
PITG_19469	Pi conserved hypothetical protein (926 nt)	-15.9976	-0.51012	0.814006
PITG_00262	Pi nuclear pore complex protein Nup93-like protein (2904 nt)	-15.2937	-0.38632	0.81421
PITG_10509	Pi L-2-hydroxyglutarate dehydrogenase, putative (1415 nt)	-15.3034	0.402825	0.81421
PITG_16924	Pi conserved hypothetical protein (1645 nt)	-15.2937	-0.38632	0.81421
PITG_05797	Pi conserved hypothetical protein (937 nt)	-15.3501	0.254035	0.814374
PITG_00952	Pi conserved hypothetical protein (1707 nt)	-16.0246	0.548336	0.814651
PITG_01878	Pi conserved hypothetical protein (4692 nt)	-16.0405	-0.47978	0.814651
PITG_10868	Pi conserved hypothetical protein (1427 nt)	-16.0389	-0.53875	0.814651
PITG_12050	Pi queuine tRNA-ribosyltransferase (1284 nt)	-16.0405	-0.47978	0.814651
PITG_13833	Pi conserved hypothetical protein (1674 nt)	-15.9773	-0.2948	0.814651
PITG_16806	Pi conserved hypothetical protein (707 nt)	-13.1478	0.254394	0.814677
PITG_22688	Pi trans-aconitate 2-methyltransferase, putative (928 nt)	-15.3302	-0.35176	0.814938
PITG_17091	Pi histone chaperone ASF1-like protein (2210 nt)	-13.5586	-0.24199	0.815172
PITG_06638	Pi lysocardiolipin acyltransferase, putative (1329 nt)	-15.97	-0.30971	0.815294
PITG_19191	Pi 2-oxoglutarate dehydrogenase, putative (3475 nt)	-15.9857	0.426267	0.815294
PITG_14925	Pi conserved hypothetical protein (1667 nt)	-14.6141	0.352945	0.815361
PITG_03331	Pi conserved hypothetical protein (582 nt)	-15.3113	0.386945	0.815661
PITG_03818	Pi U3 small nucleolar RNA-associated protein, putative (2742 nt)	-16.0457	-0.52558	0.815934
PITG_11467	Pi conserved hypothetical protein (1011 nt)	-16.0196	-0.57782	0.815934

PITG_05521	Pi protein kinase, putative (2191 nt)	-14.4621	0.321028	0.81623
PITG_07891	Pi conserved hypothetical protein (487 nt)	-15.2891	0.299085	0.816381
PITG_12194	Pi biotin-protein ligase, putative (1076 nt)	-15.3219	-0.36845	0.816381
PITG_17592	Pi mannosyl-oligosaccharide glucosidase, putative (2676 nt)	-15.3219	-0.36845	0.816381
PITG_21282	Pi conserved hypothetical protein (393 nt)	-14.4697	-0.30556	0.817018
PITG_01782	Pi conserved hypothetical protein (2307 nt)	-16.038	-0.48491	0.817841
PITG_05759	Pi conserved hypothetical protein (1146 nt)	-16.0348	-0.49121	0.817841
PITG_20909	Pi conserved hypothetical protein (831 nt)	-16.0348	-0.49121	0.817841
PITG_13505	Pi hypothetical protein (766 nt)	-12.6869	0.235498	0.81799
PITG_19646	Pi pre-mRNA-processing factor 19, putative (1575 nt)	-16.1536	-0.60186	0.818047
PITG_11615	Pi homoserine dehydrogenase, putative (1519 nt)	-12.8648	0.295023	0.818056
PITG_20819	Pi conserved hypothetical protein (1799 nt)	-14.8218	-0.33734	0.818072
PITG_16968	Pi glucan 1,3-beta-glucosidase, putative (1377 nt)	-14.2967	0.453542	0.818074
PITG_05636	Pi transaldolase (1192 nt)	-11.4498	-0.27117	0.818202
PITG_05496	Pi augmenter of liver regeneration (811 nt)	-12.97	0.276449	0.818283
PITG_03701	Pi kinesin-like protein (2486 nt)	-16.0096	0.38278	0.818472
PITG_08655	Pi conserved hypothetical protein (764 nt)	-15.9864	-0.53133	0.818472
PITG_17383	Pi hsp70-like protein (1525 nt)	-16.0407	-0.59387	0.818472
PITG_04470	Pi Argonaute1 (AGO1) (2784 nt)	-11.8233	0.248759	0.818856
PITG_20790	Pi DEAD/DEAH box RNA helicase, putative (1698 nt)	-15.9909	-0.32261	0.819101
PITG_12042	Pi hypothetical protein (677 nt)	-11.9905	-0.27092	0.819313
PITG_16107	Pi rRNA biogenesis protein rrp5 (5835 nt)	-16.0012	0.547235	0.819727
PITG_17135	Pi arginine n-methyltransferase, putative (1544 nt)	-16.0012	0.547235	0.819727
PITG_01755	Pi conserved hypothetical protein (886 nt)	-14.4123	0.300607	0.82013
PITG_21329	Pi Zinc (Zn <sup>2+</sup> )-Iron (Fe <sup>2+</sup> ) Permease (ZIP) Family (657 nt)	-14.4122	0.24131	0.82013
PITG_03114	Pi conserved hypothetical protein (1276 nt)	-15.978	-0.34916	0.820352
PITG_16331	Pi conserved hypothetical protein (1864 nt)	-15.978	-0.34916	0.820352
PITG_12082	Pi hypothetical protein (540 nt)	-11.0724	-0.2451	0.820588
PITG_20186	Pi conserved hypothetical protein (927 nt)	-13.5688	0.26164	0.820593
PITG_06449	Pi pyruvate carboxylase, putative (738 nt)	-11.4197	0.28155	0.82077
PITG_07473	Pi EF hand containing protein, putative (1622 nt)	-15.0169	-0.37982	0.82095
PITG_16334	Pi conserved hypothetical protein (1007 nt)	-15.9428	0.294006	0.820974
PITG_21602	Pi pro-apoptotic serine protease nma111-like protein (3255 nt)	-14.7627	-0.2757	0.821107
PITG_10301	Pi homoserine O-acetyltransferase, putative (1212 nt)	-14.8793	-0.31827	0.821261
PITG_10150	Pi conserved hypothetical protein (3680 nt)	-16.0049	-0.29643	0.821594
PITG_04719	Pi trafficking protein particle complex subunit 2-like protein	-13.4044	-0.33567	0.821597
PITG_13239	Pi Mitochondrial Carrier (MC) Family (1073 nt)	-15.2786	0.42252	0.822012
PITG_12599	Pi elicitor-like protein (1765 nt)	-12.4364	0.264676	0.822045
PITG_11605	Pi aldehyde dehydrogenase, putative (1740 nt)	-13.9046	0.279511	0.822166
PITG_07134	Pi ATP-binding Cassette (ABC) Superfamily (4101 nt)	-16.0308	-0.49947	0.822212
PITG_16461	Pi protein kinase, putative (2618 nt)	-16.0308	-0.49947	0.822212
PITG_03544	Pi conserved hypothetical protein (984 nt)	-13.7507	-0.2474	0.822246
PITG_20468	Pi conserved hypothetical protein (714 nt)	-14.2331	0.313666	0.822779
PITG_11038	Pi ATP-dependent helicase, putative (8102 nt)	-16.0005	0.362323	0.822828
PITG_04567	Pi conserved hypothetical protein (885 nt)	-14.4597	-0.27969	0.82316
PITG_11914	Pi acetyltransferase (GNAT) family protein, putative (540 nt)	-14.7475	0.296899	0.823343
PITG_10865	Pi dymeclin, putative (2772 nt)	-15.9559	0.272827	0.823441

PITG_08025	Pi HECT E3 ubiquitin ligase, putative (3597 nt)	-13.4112	0.333793	0.823511
PITG_01438	Pi conserved hypothetical protein (1296 nt)	-13.2197	0.271965	0.824368
PITG_00494	Pi Drug/Metabolite Transporter (DMT) Superfamily (1551 nt)	-14.1004	0.237851	0.824595
PITG_12104	Pi ATP-dependent DNA helicase 2 subunit, putative (2477 nt)	-14.4595	-0.32597	0.82465
PITG_09538	Pi mitochondrial carnitine/acylcarnitine carrier protein, puta	-12.6023	-0.28868	0.82465
PITG_01741	Pi conserved hypothetical protein (856 nt)	-16.0121	0.34282	0.824662
PITG_11804	Pi conserved hypothetical protein (1414 nt)	-15.219	-0.39577	0.824708
PITG_01833	Pi 60S ribosomal protein L13, putative (1480 nt)	-10.4144	0.214377	0.824825
PITG_09280	Pi bZIP transcription factor, putative (1708 nt)	-13.113	0.296862	0.825884
PITG_02038	Pi fructose 1,6 bisphosphatase (1099 nt)	-12.2793	-0.25562	0.826393
PITG_09881	Pi ATP-binding Cassette (ABC) superfamily (1089 nt)	-15.8646	-0.4682	0.826404
PITG_05464	Pi conserved hypothetical protein (1043 nt)	-12.5204	0.251814	0.826567
PITG_11825	Pi hypothetical protein (581 nt)	-15.1973	-0.27345	0.826778
PITG_00675	Pi conserved hypothetical protein (3391 nt)	-15.8858	0.484402	0.827024
PITG_09791	Pi seryl-tRNA synthetase (1476 nt)	-15.8985	-0.40053	0.827024
PITG_01416	Pi sporangia induced TRP protein (1617 nt)	-15.8409	0.394518	0.827641
PITG_14951	Pi conserved hypothetical protein (3676 nt)	-15.901	0.556239	0.827641
PITG_02182	Pi homoserine dehydrogenase, putative (1518 nt)	-13.3574	0.232176	0.827955
PITG_18025	Pi fatty acid synthase subunit alpha, putative (12457 nt)	-14.3386	0.245912	0.828035
PITG_05664	Pi choline/Carnitine O-acyltransferase, putative (2092 nt)	-14.8005	0.259222	0.828214
PITG_03915	Pi glutamyl-tRNA(Gln) amidotransferase subunit, putative (21	-15.8775	-0.49436	0.828256
PITG_12077	Pi conserved hypothetical protein (1505 nt)	-15.8775	-0.49436	0.828256
PITG_13368	Pi cyclin-like protein (1846 nt)	-14.3694	0.268407	0.828323
PITG_08580	Pi conserved hypothetical protein (1236 nt)	-15.8671	-0.51532	0.828868
PITG_08602	Pi conserved hypothetical protein (1191 nt)	-15.8671	-0.51532	0.828868
PITG_21351	Pi conserved hypothetical protein (1050 nt)	-15.8812	-0.43559	0.828868
PITG_07201	Pi UDP-glucose:glycoprotein glucosyltransferase, putative (5	-14.6987	0.246592	0.828927
PITG_05589	Pi conserved hypothetical protein (1113 nt)	-13.059	-0.2984	0.829071
PITG_02273	Pi conserved hypothetical protein (1042 nt)	-14.7108	-0.29148	0.829647
PITG_15839	Pi conserved hypothetical protein (1039 nt)	-14.7182	-0.30812	0.829647
PITG_21510	Pi ubiquitin-conjugating enzyme E2, putative (882 nt)	-12.396	-0.21963	0.830265
PITG_06566	Pi long-chain-fatty-acid-CoA ligase, putative (2152 nt)	-13.1852	-0.31552	0.830551
PITG_12008	Pi hypothetical protein (276 nt)	-13.5396	0.345528	0.830577
PITG_08302	Pi hypothetical protein (477 nt)	-16.0177	-0.334	0.83065
PITG_15653	Pi small nuclear ribonucleoprotein G (381 nt)	-12.2553	0.260767	0.830955
PITG_01551	Pi conserved hypothetical protein (550 nt)	-12.3039	-0.21394	0.83116
PITG_05519	Pi phosphatidylinositol 4-phosphate 5-kinase D3 (PIPK-D3/GI	-15.863	0.353181	0.831293
PITG_14173	Pi endo-1,3(4)-beta-glucanase, putative (2623 nt)	-13.6612	-0.25886	0.831329
PITG_04846	Pi conserved hypothetical protein (2670 nt)	-13.8126	-0.26847	0.83135
PITG_02510	Pi conserved hypothetical protein (1081 nt)	-10.6444	-0.2214	0.831367
PITG_04681	Pi serine/threonine-protein phosphatase PP1-gamma catalyt	-11.2973	-0.21088	0.831642
PITG_11975	Pi conserved hypothetical protein (1393 nt)	-9.47538	0.207628	0.831743
PITG_07801	Pi conserved hypothetical protein (3748 nt)	-16.031	-0.49932	0.831825
PITG_11476	Pi conserved hypothetical protein (1327 nt)	-16.031	-0.49932	0.831825
PITG_17378	Pi 5'-nucleotidase domain-containing protein, putative (2327	-16.031	-0.49932	0.831825
PITG_01315	Pi conserved hypothetical protein (527 nt)	-15.8771	-0.44415	0.831893
PITG_08137	Pi palmitoyltransferase, putative (726 nt)	-15.886	-0.53187	0.831893

PITG_14514	Pi HSF-type DNA-binding protein, putative (627 nt)	-15.864	-0.41797	0.831893
PITG_19047	Pi hypothetical protein (1680 nt)	-15.8771	-0.44415	0.831893
PITG_01246	Pi conserved hypothetical protein (1249 nt)	-13.8183	0.249777	0.832112
PITG_19772	Pi hypothetical protein (614 nt)	-9.93159	0.226279	0.832234
PITG_22381	Pi methylenetetrahydrofolate reductase, putative (1844 nt)	-14.809	-0.30097	0.832338
PITG_19349	Pi conserved hypothetical protein (1161 nt)	-13.536	0.310515	0.832442
PITG_19204	Pi conserved hypothetical protein (1439 nt)	-13.8479	-0.2641	0.832475
PITG_20831	Pi conserved hypothetical protein (4202 nt)	-15.8461	-0.50633	0.832491
PITG_03841	Pi endomembrane protein 70-like protein, putative (1982 nt)	-15.8514	-0.39072	0.833087
PITG_21395	Pi CBL-interacting serine/threonine-protein kinase, putative	-11.5623	0.212713	0.83328
PITG_17174	Pi conserved hypothetical protein (1163 nt)	-13.9962	-0.37159	0.83337
PITG_17942	Pi ubiquitin activating enzyme, E1 family, putative (1777 nt)	-14.6365	0.236069	0.833405
PITG_14976	Pi pyridoxal phosphate phosphatase, putative (2429 nt)	-16.0063	0.336915	0.833574
PITG_16680	Pi conserved hypothetical protein (1514 nt)	-13.3156	-0.23633	0.833667
PITG_07985	Pi myosin-like protein (4915 nt)	-13.5406	-0.27078	0.833919
PITG_19590	Pi conserved hypothetical protein (986 nt)	-12.2106	-0.21308	0.834298
PITG_11143	Pi AP-1 complex subunit gamma-1 (3986 nt)	-14.6857	0.267707	0.83457
PITG_07169	Pi Major Facilitator Superfamily (MFS) (1861 nt)	-15.8781	-0.54994	0.834861
PITG_09680	Pi conserved hypothetical protein (1291 nt)	-15.8363	0.340805	0.835448
PITG_17602	Pi conserved hypothetical protein (1236 nt)	-14.6379	0.303552	0.835517
PITG_12297	Pi conserved hypothetical protein (2181 nt)	-15.1292	0.312593	0.835564
PITG_02211	Pi UV excision repair protein RAD23 (1465 nt)	-12.6382	-0.21919	0.836233
PITG_02010	Pi conserved hypothetical protein (793 nt)	-13.7618	-0.24287	0.836365
PITG_05644	Pi phosphatidylinositol-3-phosphate 5-kinase (4944 nt)	-15.8748	-0.44946	0.836615
PITG_17000	Pi hypothetical protein (288 nt)	-14.643	0.290949	0.837591
PITG_20681	Pi ATP-binding Cassette (ABC) superfamily (2764 nt)	-13.794	-0.3212	0.83772
PITG_13134	Pi conserved hypothetical protein (543 nt)	-15.8487	0.320895	0.837774
PITG_13344	Pi Cytochrome Oxidase Biogenesis (Oxa1) Family (1380 nt)	-15.8487	0.320895	0.837774
PITG_15638	Pi conserved hypothetical protein (686 nt)	-8.46567	-0.21181	0.838551
PITG_00953	Pi trafficking protein particle complex subunit 6B (691 nt)	-15.1863	0.264458	0.838573
PITG_05383	Pi conserved hypothetical protein (724 nt)	-13.7364	-0.22938	0.838718
PITG_17382	Pi hypothetical protein (1380 nt)	-13.8065	0.245936	0.838741
PITG_04990	Pi conserved hypothetical protein (813 nt)	-15.7299	0.447518	0.838813
PITG_00537	Pi ubiquitin-conjugating enzyme E2, putative (882 nt)	-12.7051	-0.25923	0.838949
PITG_08084	Pi conserved hypothetical protein (874 nt)	-13.2885	-0.25516	0.83898
PITG_02515	Pi LETM1 and EF-hand domain-containing protein 1, putative	-14.2388	0.256759	0.839205
PITG_16719	Pi conserved hypothetical protein (701 nt)	-15.7309	-0.36767	0.839403
PITG_18073	Pi cell division protein kinase, putative (1103 nt)	-15.7309	-0.36767	0.839403
PITG_05238	Pi conserved hypothetical protein (1011 nt)	-14.5817	0.213535	0.839631
PITG_06664	Pi conserved hypothetical protein (1578 nt)	-15.7429	-0.39125	0.839989
PITG_17593	Pi conserved hypothetical protein (1209 nt)	-12.9331	0.222238	0.840169
PITG_03267	Pi conserved hypothetical protein (7326 nt)	-14.6331	-0.2562	0.840301
PITG_08573	Pi conserved hypothetical protein (629 nt)	-14.6398	-0.26951	0.840301
PITG_05381	Pi protein phosphatase 2C, putative (1315 nt)	-15.7186	0.345976	0.840574
PITG_10943	Pi conserved hypothetical protein (1415 nt)	-15.7643	-0.39666	0.840574
PITG_01251	Pi conserved hypothetical protein (756 nt)	-15.0497	-0.31126	0.841023
PITG_10863	Pi 60S ribosomal protein L32-1 (723 nt)	-8.64246	0.195961	0.841359



PITG_00133	Pi phosphoserine aminotransferase, putative (11706 nt)	-14.5855	0.268487	0.841674
PITG_04535	Pi nuclear LIM factor interactor-interacting protein hyphal fo	-14.5798	0.2756	0.841674
PITG_00809	Pi M96 mating-specific protein family (4618 nt)	-12.8333	-0.28018	0.841685
PITG_05654	Pi conserved hypothetical protein (623 nt)	-15.7555	-0.41493	0.841735
PITG_03239	Pi 60S ribosomal protein L27 (1037 nt)	-8.79839	0.196635	0.841862
PITG_16214	Pi inactive ubiquitin carboxyl-terminal hydrolase, putative (2	-15.0318	0.205322	0.842305
PITG_09828	Pi U6 snRNA-associated Sm-like protein LSm3, putative (337	-11.0315	0.221126	0.842526
PITG_08411	Pi conserved hypothetical protein (1276 nt)	-15.0492	-0.31265	0.84294
PITG_22277	Pi conserved hypothetical protein (1008 nt)	-15.1081	0.237489	0.843209
PITG_20260	Pi ADP-ribosylation factor family (456 nt)	-14.5797	0.275427	0.843679
PITG_00878	Pi 2OG-Fe(II) oxygenase superfamily protein (1082 nt)	-15.7239	-0.38166	0.844028
PITG_01715	Pi conserved hypothetical protein (1513 nt)	-14.2483	-0.27907	0.844076
PITG_13007	Pi conserved hypothetical protein (1381 nt)	-14.6541	-0.29426	0.84425
PITG_00685	Pi conserved hypothetical protein (645 nt)	-14.585	-0.32605	0.844339
PITG_20412	Pi putative GPI-anchored serine rich elicitor SOL13E-like prot	-12.6321	-0.19869	0.844785
PITG_02446	Pi cyclin-dependent kinase, putative (1646 nt)	-14.5336	-0.22644	0.844796
PITG_15383	Pi thioredoxin-like protein (456 nt)	-13.5041	-0.30351	0.845026
PITG_00015	Pi DNA-binding protein, putative (804 nt)	-17.0792	-0.97265	0.845213
PITG_22087	Pi ATP-binding Cassette (ABC) Superfamily (4098 nt)	-14.3144	0.224599	0.845526
PITG_01042	Pi 60S ribosomal protein L22, putative (776 nt)	-9.58199	0.192796	0.845572
PITG_18743	Pi amino acid/auxin permease-like protein (706 nt)	-15.8623	-0.41977	0.845663
PITG_21316	Pi protein phosphatase methylesterase, putative (1485 nt)	-14.9811	-0.24171	0.845948
PITG_21219	Pi conserved hypothetical protein (1781 nt)	-14.5337	-0.22627	0.846125
PITG_09744	Pi CUG-BP- and ETR-3-like factor, putative (1645 nt)	-10.399	-0.2027	0.846822
PITG_18420	Pi protein kinase, putative (1415 nt)	-13.3243	-0.22852	0.846951
PITG_07326	Pi conserved hypothetical protein (1795 nt)	-14.5463	-0.25078	0.847438
PITG_08456	Pi ankyrin-like protein (1932 nt)	-15.0492	-0.31363	0.847906
PITG_09438	Pi conserved hypothetical protein (579 nt)	-10.5591	0.205768	0.847962
PITG_16455	Pi conserved hypothetical protein (2559 nt)	-15.6507	0.327687	0.848525
PITG_19371	Pi GTP-binding protein, putative (1525 nt)	-13.9824	-0.33598	0.84906
PITG_04391	Pi conserved hypothetical protein (1107 nt)	-14.12	0.24388	0.85039
PITG_02786	Pi fructose-bisphosphate aldolase (1256 nt)	-11.6006	-0.21369	0.850394
PITG_08548	Pi conserved hypothetical protein (732 nt)	-12.855	0.288868	0.850673
PITG_03762	Pi 60S ribosomal protein L38, putative (708 nt)	-8.2267	0.183027	0.852
PITG_02233	Pi conserved hypothetical protein (731 nt)	-14.4886	-0.24537	0.852845
PITG_19036	Pi serine/threonine-protein phosphatase ppe1 (1425 nt)	-14.9094	0.217166	0.852869
PITG_02048	Pi conserved hypothetical protein (1263 nt)	-15.6358	0.360286	0.854072
PITG_09706	Pi proteasome subunit beta, putative (818 nt)	-11.3357	-0.1825	0.854233
PITG_05248	Pi conserved hypothetical protein (759 nt)	-15.1277	-0.30367	0.854462
PITG_19024	Pi conserved hypothetical protein (3528 nt)	-15.6229	-0.39122	0.854614
PITG_20652	Pi conserved hypothetical protein (615 nt)	-15.6229	-0.39122	0.854614
PITG_08896	Pi conserved hypothetical protein (266 nt)	-12.6626	-0.23026	0.854965
PITG_22743	Pi dihydrolipoyllysine-residue succinyltransferase componen	-13.1795	-0.19435	0.85508
PITG_03478	Pi conserved hypothetical protein (4797 nt)	-15.6297	0.347445	0.855153
PITG_07284	Pi SEC14 cytosolic factor, putative (2586 nt)	-15.5945	0.277013	0.855153
PITG_18814	Pi conserved hypothetical protein (1219 nt)	-15.6297	0.347445	0.855153
PITG_12343	Pi conserved hypothetical protein (811 nt)	-14.9258	-0.25849	0.855279

PITG_13600	Pi eukaryotic translation initiation factor 3 subunit, putative	-12.3349	-0.19853	0.856721
PITG_02307	Pi alpha,alpha-trehalose-phosphate synthase [UDP-forming],	-16.8032	-0.6236	0.857003
PITG_04457	Pi tripeptidyl-peptidase, putative (4697 nt)	-15.0325	0.207964	0.857266
PITG_03603	Pi conserved hypothetical protein (647 nt)	-14.5484	0.34485	0.857402
PITG_08408	Pi conserved hypothetical protein (844 nt)	-15.7266	-0.28977	0.857582
PITG_08822	Pi conserved hypothetical protein (1103 nt)	-14.9125	-0.30918	0.857635
PITG_22383	Pi glycoside hydrolase, putative (1436 nt)	-14.928	-0.27816	0.857635
PITG_21224	Pi conserved hypothetical protein (879 nt)	-13.0056	-0.32733	0.857859
PITG_06241	Pi conserved hypothetical protein (1025 nt)	-11.8772	0.179239	0.858091
PITG_14909	Pi conserved hypothetical protein (761 nt)	-11.6318	-0.19858	0.858337
PITG_00806	Pi conserved hypothetical protein (911 nt)	-12.6282	0.227453	0.858475
PITG_00182	Pi conserved hypothetical protein (354 nt)	-13.7731	0.301709	0.8588
PITG_19709	Pi hypothetical protein (279 nt)	-13.7224	0.22077	0.85888
PITG_00733	Pi aspartyl protease family A22B, putative (1122 nt)	-13.1605	-0.19255	0.858978
PITG_00631	Pi conserved hypothetical protein (479 nt)	-8.63179	0.185238	0.859084
PITG_11592	Pi serine protease family S15, putative (2220 nt)	-14.3929	-0.25119	0.85909
PITG_02710	Pi serine protease family S01A, putative (3352 nt)	-13.5712	-0.30065	0.859101
PITG_07551	Pi N(6)-adenine-specific DNA methyltransferase 2, putative (	-15.5308	0.264469	0.859208
PITG_11139	Pi P-type ATPase (P-ATPase) Superfamily (3195 nt)	-13.6751	-0.32139	0.859245
PITG_20281	Pi GTP-dependent nucleic acid-binding protein engD (1372 n	-13.7672	-0.23849	0.859444
PITG_00680	Pi conserved hypothetical protein (2351 nt)	-14.9047	0.206006	0.85994
PITG_14436	Pi conserved hypothetical protein (1255 nt)	-15.1127	0.239883	0.860027
PITG_08425	Pi endothelin-converting enzyme 1, metalloprotease family I	-14.1557	-0.24502	0.86009
PITG_03784	Pi conserved hypothetical protein (905 nt)	-12.5202	0.188857	0.860226
PITG_05356	Pi maleylacetoacetate isomerase (660 nt)	-13.0872	-0.20445	0.860314
PITG_00234	Pi conserved hypothetical protein (2020 nt)	-10.7089	-0.19652	0.861013
PITG_06869	Pi conserved hypothetical protein (1796 nt)	-14.9024	-0.29955	0.861075
PITG_05502	Pi calcineurin-like phosphoesterase, putative (1922 nt)	-14.0779	-0.21849	0.861559
PITG_14175	Pi conserved hypothetical protein (8683 nt)	-13.0478	0.269064	0.862028
PITG_00143	Pi nuclear migration protein nudC-like protein (973 nt)	-15.5191	-0.29227	0.862377
PITG_16227	Pi conserved hypothetical protein (456 nt)	-14.9779	0.346619	0.862417
PITG_13768	Pi acyl-CoA-binding domain-containing protein, putative (160	-13.5092	0.207357	0.86248
PITG_14493	Pi conserved hypothetical protein (946 nt)	-14.4803	0.230708	0.862487
PITG_04390	Pi hypothetical protein (455 nt)	-16.793	-0.64793	0.862758
PITG_06701	Pi dual specificity protein kinase, putative (1580 nt)	-16.793	-0.64793	0.862758
PITG_13022	Pi inorganic phosphate transporter, putative (1419 nt)	-16.793	-0.64793	0.862758
PITG_19487	Pi conserved hypothetical protein (770 nt)	-14.8665	-0.21348	0.863278
PITG_02853	Pi 3,2-trans-enoyl-CoA isomerase, mitochondrial precursor (	-12.5568	-0.18338	0.863304
PITG_12691	Pi conserved hypothetical protein (2388 nt)	-14.3451	0.205471	0.863713
PITG_00884	Pi conserved hypothetical protein (441 nt)	-12.2631	0.188216	0.863766
PITG_01617	Pi conserved hypothetical protein (1226 nt)	-14.8617	-0.28773	0.86384
PITG_09220	Pi conserved hypothetical protein (3458 nt)	-15.4958	-0.25412	0.86393
PITG_05011	Pi 5A endo-1,4-beta-glucanase, putative (1696 nt)	-11.0692	-0.18416	0.864035
PITG_18882	Pi transcription initiation factor TFIID subunit, putative (3840	-14.8381	-0.30463	0.864399
PITG_14285	Pi vesicle-associated membrane protein, putative (749 nt)	-15.4186	0.274977	0.865104
PITG_08196	Pi conserved hypothetical protein (836 nt)	-13.7177	-0.29075	0.865345
PITG_02458	Pi conserved hypothetical protein (1512 nt)	-13.9736	0.180972	0.865618

PITG_01515	Pi ras-related GTP-binding protein, putative (1521 nt)	-12.9318	-0.18342	0.865946
PITG_00649	Pi conserved hypothetical protein (1739 nt)	-15.4937	0.189491	0.866472
PITG_16969	Pi conserved oligomeric Golgi complex subunit, putative (351 nt)	-14.1178	-0.24337	0.867033
PITG_13625	Pi conserved hypothetical protein (672 nt)	-15.4154	-0.26014	0.867178
PITG_09295	Pi Dicarboxylate/Amino Acid:Cation (Na <sup>+</sup> or H <sup>+</sup> ) Symporter (D)	-15.6203	-0.38376	0.867465
PITG_02018	Pi hypothetical protein (644 nt)	-15.5346	0.323029	0.867474
PITG_12587	Pi conserved hypothetical protein (618 nt)	-15.5298	0.313551	0.867474
PITG_01949	Pi glycosyl hydrolase, putative (2208 nt)	-15.4308	-0.30149	0.86769
PITG_06819	Pi transcription elongation factor, putative (1438 nt)	-15.4385	-0.3273	0.86769
PITG_14460	Pi chromodomain protein, putative (1071 nt)	-15.4128	-0.26548	0.86769
PITG_16366	Pi conserved hypothetical protein (1368 nt)	-12.5139	-0.20586	0.867887
PITG_07077	Pi lysophospholipid acyltransferase, putative (2152 nt)	-13.9438	0.185388	0.867968
PITG_17929	Pi signal peptidase complex catalytic subunit SEC11A, putative	-12.3979	0.205582	0.868929
PITG_05255	Pi hypothetical protein (1122 nt)	-11.8514	-0.16174	0.869203
PITG_09641	Pi conserved hypothetical protein (444 nt)	-13.6631	-0.26912	0.869629
PITG_08037	Pi conserved hypothetical protein (1024 nt)	-15.426	-0.28035	0.869714
PITG_08392	Pi FACT complex subunit SPT16, putative (3458 nt)	-13.9496	-0.30359	0.869745
PITG_04908	Pi conserved hypothetical protein (1814 nt)	-12.4708	-0.16644	0.86987
PITG_09028	Pi conserved hypothetical protein (761 nt)	-15.4237	-0.28523	0.870214
PITG_08444	Pi conserved hypothetical protein (2342 nt)	-12.5949	-0.20657	0.870316
PITG_13201	Pi conserved hypothetical protein (2461 nt)	-14.3545	-0.19194	0.870609
PITG_00662	Pi conserved hypothetical protein (4077 nt)	-16.589	-0.36238	0.870621
PITG_07246	Pi conserved hypothetical protein (1190 nt)	-16.589	-0.36238	0.870621
PITG_02912	Pi conserved hypothetical protein (1474 nt)	-13.9237	0.318581	0.8708
PITG_01094	Pi 26S proteasome non-ATPase regulatory subunit 11, putative	-12.1612	0.197411	0.870918
PITG_03820	Pi conserved hypothetical protein (797 nt)	-16.5723	-0.32814	0.871019
PITG_04546	Pi conserved hypothetical protein (864 nt)	-16.5723	-0.32814	0.871019
PITG_00260	Pi conserved hypothetical protein (842 nt)	-15.6377	0.312082	0.871331
PITG_03854	Pi conserved hypothetical protein (1062 nt)	-16.6067	-0.39564	0.87181
PITG_06913	Pi conserved hypothetical protein (5405 nt)	-16.6067	-0.39564	0.87181
PITG_08060	Pi conserved hypothetical protein (1197 nt)	-16.6067	-0.39564	0.87181
PITG_09424	Pi conserved hypothetical protein (1191 nt)	-16.6067	-0.39564	0.87181
PITG_06223	Pi protein kinase, putative (1536 nt)	-14.0063	-0.25505	0.871928
PITG_00585	Pi peroxiredoxin-like protein (1365 nt)	-13.0246	0.160945	0.871953
PITG_00734	Pi conserved hypothetical protein (1974 nt)	-15.3257	0.241071	0.872801
PITG_19767	Pi ATP-dependent Clp protease proteolytic subunit, putative	-11.999	-0.1705	0.872932
PITG_09292	Pi Dicer-like 1 (DCL1) (4995 nt)	-16.5742	-0.39233	0.87299
PITG_15293	Pi conserved hypothetical protein (1851 nt)	-16.5742	-0.39233	0.87299
PITG_04527	Pi DNA replication licensing factor mcm4, putative (3124 nt)	-16.5572	-0.35692	0.873382
PITG_11403	Pi WD domain-containing protein (1431 nt)	-16.5572	-0.35692	0.873382
PITG_01867	Pi splicing factor U2af large subunit, putative (2685 nt)	-15.4254	-0.30975	0.873651
PITG_05325	Pi conserved hypothetical protein (992 nt)	-12.7413	-0.20673	0.87373
PITG_10600	Pi conserved hypothetical protein (2646 nt)	-14.2661	0.311763	0.873882
PITG_03014	Pi F-box protein, putative (3548 nt)	-16.5928	-0.42568	0.874162
PITG_04610	Pi dolichyl-diphosphooligosaccharide-protein glycosyltransferase	-16.5928	-0.42568	0.874162
PITG_14207	Pi conserved hypothetical protein (1032 nt)	-16.5928	-0.42568	0.874162
PITG_05274	Pi conserved hypothetical protein (3045 nt)	-15.3967	0.266751	0.874613

PITG_04860	Pi conserved hypothetical protein (944 nt)	-14.7162	0.208741	0.874897
PITG_09760	Pi mucin-like protein (4777 nt)	-12.4797	0.169408	0.874947
PITG_22127	Pi conserved hypothetical protein (1097 nt)	-15.3272	0.20965	0.875272
PITG_20400	Pi conserved hypothetical protein (652 nt)	-14.1866	-0.20987	0.875495
PITG_02336	Pi conserved hypothetical protein (1068 nt)	-12.9789	-0.20288	0.875719
PITG_22264	Pi ribosomal protein S6 kinase alpha-5, putative (1950 nt)	-12.8043	0.217917	0.875763
PITG_03235	Pi 60S ribosomal protein L35a-4 (797 nt)	-8.85937	-0.15587	0.875982
PITG_19055	Pi conserved hypothetical protein (1137 nt)	-14.2515	0.184028	0.876058
PITG_06356	Pi conserved hypothetical protein (959 nt)	-14.7229	0.197206	0.876446
PITG_16671	Pi 26S proteasome non-ATPase regulatory subunit 3 (1796 nt)	-13.5591	0.257677	0.876734
PITG_19591	Pi conserved hypothetical protein (666 nt)	-13.3208	-0.17393	0.876763
PITG_00388	Pi conserved hypothetical protein (2188 nt)	-16.5743	-0.53791	0.876865
PITG_01822	Pi SNARE associated Golgi protein, putative (909 nt)	-13.8457	0.176747	0.877239
PITG_12820	Pi Mitochondrial Protein Translocase (MPT) Family (441 nt)	-14.6202	-0.22989	0.878423
PITG_03499	Pi phosphopantothencycysteine decarboxylase, putative (909 nt)	-15.2383	0.303854	0.878764
PITG_07656	Pi ubiquitin-specific protease, putative (2872 nt)	-16.5476	-0.37293	0.878769
PITG_10676	Pi transmembrane protein, putative (2010 nt)	-16.5476	-0.37293	0.878769
PITG_08590	Pi carbohydrate esterase, putative (888 nt)	-15.4314	0.307098	0.878841
PITG_10617	Pi conserved hypothetical protein (4837 nt)	-15.308	-0.2579	0.8791
PITG_03234	Pi DEAD/DEAH box RNA helicase, putative (3253 nt)	-14.1603	-0.31862	0.879147
PITG_20130	Pi aldehyde dehydrogenase, putative (1370 nt)	-13.4422	-0.25427	0.879243
PITG_10860	Pi conserved hypothetical protein (1061 nt)	-16.5855	-0.44536	0.879525
PITG_01718	Pi cryptochrome, putative (1734 nt)	-14.607	0.156701	0.879971
PITG_10831	Pi cyclin-dependent kinase with F-box domain, putative (342 nt)	-15.3217	-0.28919	0.880499
PITG_19472	Pi ubiquitin-specific protease, putative (8250 nt)	-15.3217	-0.28919	0.880499
PITG_09230	Pi conserved hypothetical protein (510 nt)	-13.8179	-0.27423	0.880804
PITG_20288	Pi conserved hypothetical protein (1103 nt)	-13.0718	0.158983	0.880909
PITG_00236	Pi cyclin-H, putative (1197 nt)	-14.6159	0.213728	0.880987
PITG_06247	Pi conserved hypothetical protein (537 nt)	-14.743	-0.46359	0.881433
PITG_17013	Pi conserved hypothetical protein (3313 nt)	-11.6465	-0.17289	0.881513
PITG_11065	Pi NAD-dependent malic enzyme, putative (2026 nt)	-15.4051	-0.25978	0.881573
PITG_08654	Pi conserved hypothetical protein (1176 nt)	-15.24	-0.18821	0.881622
PITG_10053	Pi conserved hypothetical protein (673 nt)	-15.2355	-0.28909	0.881622
PITG_12000	Pi conserved hypothetical protein (1834 nt)	-15.2355	-0.28909	0.881622
PITG_20746	Pi protein enhancer of rudimentary (501 nt)	-11.1562	-0.15896	0.881805
PITG_17965	Pi conserved hypothetical protein (3855 nt)	-15.2381	0.165015	0.882555
PITG_20034	Pi methyltransferase domain-containing protein, putative (1000 nt)	-15.2302	0.191625	0.882555
PITG_07026	Pi conserved hypothetical protein (2849 nt)	-16.3725	-0.2949	0.882984
PITG_05561	Pi conserved hypothetical protein (1659 nt)	-11.8285	-0.14515	0.883493
PITG_21185	Pi RPS6 protein kinase (2016 nt)	-14.0961	-0.22611	0.883669
PITG_16976	Pi conserved hypothetical protein (454 nt)	-15.253	-0.19983	0.883937
PITG_05690	Pi ubiquitin activating enzyme, E1 family, putative (3337 nt)	-13.5667	0.154733	0.883982
PITG_05340	Pi protein kinase, putative (2767 nt)	-16.3597	-0.32088	0.884112
PITG_05532	Pi conserved hypothetical protein (3062 nt)	-16.3597	-0.32088	0.884112
PITG_02416	Pi conserved hypothetical protein (506 nt)	-10.8663	0.171917	0.884169
PITG_21557	Pi conserved hypothetical protein (685 nt)	-14.6445	-0.39695	0.884451
PITG_06576	Pi conserved hypothetical protein (1092 nt)	-16.6119	-0.47603	0.884731

PITG_20317	Pi GTP-dependent nucleic acid-binding protein engD, putativ	-14.0761	-0.27991	0.884897
PITG_08470	Pi diacylglycerol acyltransferase, putative (1215 nt)	-14.128	0.1464	0.884902
PITG_14853	Pi exosome complex exonuclease MTR3-like protein (830 nt)	-14.072	0.289073	0.885415
PITG_01152	Pi conserved hypothetical protein (2485 nt)	-16.4895	0.224724	0.885828
PITG_03392	Pi Rab1 family GTPase (PiYpt1) (925 nt)	-9.82449	0.155901	0.885955
PITG_03418	Pi conserved hypothetical protein (711 nt)	-13.7228	0.253172	0.886061
PITG_20203	Pi Hect-domain containing peotein, putative (7079 nt)	-15.2441	-0.30972	0.886196
PITG_09784	Pi conserved hypothetical protein (465 nt)	-12.0046	-0.20891	0.886267
PITG_22134	Pi ATP-binding Cassette (ABC) Superfamily (1288 nt)	-16.3578	0.269594	0.887072
PITG_11474	Pi conserved hypothetical protein (1686 nt)	-13.4299	-0.24842	0.887391
PITG_10202	Pi hypothetical protein (698 nt)	-8.26442	0.144832	0.887772
PITG_00127	Pi estradiol 17-beta-dehydrogenase, putative (1259 nt)	-13.226	-0.24272	0.887784
PITG_02049	Pi citrate synthase, mitochondrial precursor (1693 nt)	-12.6992	0.151067	0.887894
PITG_14284	Pi conserved hypothetical protein (5103 nt)	-14.5544	0.328541	0.888286
PITG_18657	Pi conserved hypothetical protein (645 nt)	-14.5621	-0.17356	0.888286
PITG_11971	Pi conserved hypothetical protein (926 nt)	-16.3679	-0.3712	0.888527
PITG_02729	Pi chromodomain protein, putative (1543 nt)	-14.0426	-0.29523	0.888584
PITG_11965	Pi conserved hypothetical protein (2073 nt)	-15.147	0.152874	0.888698
PITG_19254	Pi conserved hypothetical protein (1271 nt)	-14.1342	0.28127	0.888842
PITG_05542	Pi 3-hydroxyacyl-CoA dehydrogenase, putative (984 nt)	-13.7292	0.247904	0.889137
PITG_22020	Pi eukaryotic initiation factor 4E, putative (1651 nt)	-13.716	0.13465	0.889137
PITG_02555	Pi conserved hypothetical protein (1587 nt)	-16.4412	-0.51541	0.889249
PITG_13746	Pi hypothetical protein (936 nt)	-15.2511	0.299469	0.8897
PITG_01788	Pi ubiquitin activating enzyme, E1 family, putative (1291 nt)	-13.6714	0.157221	0.889729
PITG_02268	Pi conserved hypothetical protein (1552 nt)	-15.0813	-0.21479	0.889905
PITG_09221	Pi glutaredoxin, putative (722 nt)	-14.5266	0.320959	0.890021
PITG_15373	Pi conserved hypothetical protein (637 nt)	-16.3591	0.216504	0.890681
PITG_19867	Pi conserved hypothetical protein (1043 nt)	-16.3511	-0.47399	0.891037
PITG_08540	Pi conserved hypothetical protein (5615 nt)	-15.1008	-0.24246	0.891242
PITG_08917	Pi conserved hypothetical protein (1002 nt)	-15.0795	0.207719	0.891242
PITG_07175	Pi conserved hypothetical protein (712 nt)	-14.5264	0.324726	0.891416
PITG_13270	Pi palmitoyltransferase, putative (1738 nt)	-14.4665	-0.19731	0.892054
PITG_03246	Pi conserved hypothetical protein (2572 nt)	-14.4325	-0.33197	0.892058
PITG_11155	Pi conserved hypothetical protein (1353 nt)	-16.3457	-0.3525	0.892098
PITG_05244	Pi conserved hypothetical protein (2844 nt)	-15.0806	0.215319	0.892557
PITG_00319	Pi conserved hypothetical protein (744 nt)	-12.0325	-0.13911	0.893114
PITG_01004	Pi hypothetical protein (405 nt)	-10.1085	0.157085	0.893203
PITG_10447	Pi mitogen-activated protein kinase, putative (2007 nt)	-14.5156	0.344191	0.893238
PITG_05239	Pi conserved hypothetical protein (1290 nt)	-14.4674	-0.19599	0.893436
PITG_13919	Pi conserved hypothetical protein (904 nt)	-9.13275	-0.13023	0.89395
PITG_00171	Pi conserved hypothetical protein (1383 nt)	-16.2404	0.334212	0.894046
PITG_01543	Pi NADPH-dependent diflavin oxidoreductase, putative (2349 nt)	-16.2532	0.30856	0.894046
PITG_22149	Pi conserved hypothetical protein (1248 nt)	-16.2532	0.30856	0.894046
PITG_20316	Pi exportin-like protein (2743 nt)	-16.4348	-0.52149	0.894197
PITG_01680	Pi RNA-binding protein PNO1-like protein (892 nt)	-14.3896	0.347104	0.894266
PITG_10650	Pi hypothetical protein (548 nt)	-15.1461	-0.26125	0.894291
PITG_06415	Pi heat shock protein 90 (2300 nt)	-9.31192	0.135007	0.894306

PITG_10836	Pi HECT E3 ubiquitin ligase, putative (2000 nt)	-16.1991	0.200213	0.894401
PITG_17433	Pi hypothetical protein (845 nt)	-16.1991	0.200213	0.894401
PITG_21175	Pi conserved hypothetical protein (796 nt)	-16.1862	0.225954	0.894401
PITG_16856	Pi hypoxanthine-guanine phosphoribosyltransferase, putativ	-16.3915	-0.6071	0.89489
PITG_14391	Pi conserved hypothetical protein (854 nt)	-11.3415	0.131335	0.894917
PITG_09349	Pi translation elongation factor 1-alpha, putative (2423 nt)	-15.0699	-0.2045	0.895125
PITG_10992	Pi conserved hypothetical protein (417 nt)	-13.7287	0.196878	0.895392
PITG_08684	Pi conserved hypothetical protein (549 nt)	-16.2383	0.278248	0.89616
PITG_17921	Pi P-type ATPase (P-ATPase) Superfamily (4365 nt)	-11.1959	0.166984	0.896331
PITG_11425	Pi transcriptional repressor TUP1-like protein (2735 nt)	-13.9491	0.15648	0.896375
PITG_05362	Pi conserved hypothetical protein (2212 nt)	-16.1867	0.174971	0.896509
PITG_08955	Pi GTP cyclohydrolase I (972 nt)	-16.1736	0.201236	0.896509
PITG_05264	Pi 10 kDa chaperonin (619 nt)	-10.6367	0.125194	0.896599
PITG_10410	Pi SCP-like extracellular protein (1006 nt)	-16.2127	0.331987	0.896856
PITG_01818	Pi homeodomain transcription factor, putative (2644 nt)	-15.0702	-0.20368	0.897615
PITG_13245	Pi glycerophosphodiesterase, putative (3322 nt)	-15.0702	-0.20368	0.897615
PITG_13729	Pi conserved hypothetical protein (1097 nt)	-11.2709	0.124303	0.89835
PITG_01618	Pi conserved hypothetical protein (773 nt)	-14.3266	0.187812	0.898605
PITG_21372	Pi protein kinase (774 nt)	-16.3892	-0.41134	0.898644
PITG_03594	Pi protein transporter Sec31A, putative (4482 nt)	-14.4214	0.286057	0.898837
PITG_17487	Pi conserved hypothetical protein (680 nt)	-16.1749	-0.33026	0.899933
PITG_07292	Pi hcp beta-lactamase-like protein (963 nt)	-14.9468	0.207966	0.900414
PITG_19962	Pi conserved hypothetical protein (471 nt)	-16.2153	-0.31071	0.900606
PITG_20046	Pi conserved hypothetical protein (978 nt)	-13.9218	-0.27314	0.90087
PITG_17422	Pi hypothetical protein (1292 nt)	-15.2776	0.377046	0.901056
PITG_08991	Pi insulin-degrading-like enzyme, metalloprotease family M1	-16.1664	0.187844	0.901274
PITG_12562	Pi elicitor-like protein (809 nt)	-9.34918	0.130301	0.901818
PITG_17007	Pi cellulose synthase catalytic subunit [UDP-forming], putativ	-9.67425	-0.13428	0.902075
PITG_10268	Pi hypothetical protein (2199 nt)	-13.8317	-0.24649	0.902234
PITG_19159	Pi conserved hypothetical protein (1511 nt)	-16.0333	0.18973	0.902575
PITG_20637	Pi conserved hypothetical protein (2541 nt)	-16.0333	0.18973	0.902575
PITG_07110	Pi cleavage and polyadenylation specificity factor subunit 3 (	-14.2805	-0.21479	0.90269
PITG_06805	Pi carbohydrate-binding protein, putative (1113 nt)	-13.2086	-0.17958	0.902818
PITG_16226	Pi conserved hypothetical protein (498 nt)	-15.1132	0.478353	0.90315
PITG_06979	Pi aspartate carbamoyltransferase (1271 nt)	-14.252	0.283114	0.90317
PITG_16127	Pi conserved hypothetical protein (893 nt)	-14.9373	-0.23483	0.903242
PITG_14047	Pi conserved hypothetical protein (694 nt)	-12.6479	-0.14138	0.903253
PITG_02293	Pi conserved hypothetical protein (1190 nt)	-13.807	0.226803	0.903306
PITG_05772	Pi conserved hypothetical protein (1603 nt)	-14.8808	0.186444	0.90364
PITG_11118	Pi conserved hypothetical protein (1799 nt)	-12.4906	-0.20961	0.90373
PITG_15848	Pi conserved hypothetical protein (2917 nt)	-14.2798	0.284446	0.903963
PITG_13607	Pi translation initiation factor eIF-2B subunit delta, putative (	-14.8746	-0.17277	0.904042
PITG_19450	Pi cell division protein kinase 2 (1000 nt)	-14.8689	0.136006	0.904042
PITG_10282	Pi pre-mRNA branch site protein p14, putative (673 nt)	-12.0648	-0.12599	0.904101
PITG_07041	Pi conserved hypothetical protein (3501 nt)	-15.0443	-0.43004	0.904503
PITG_05599	Pi conserved hypothetical protein (632 nt)	-14.2686	0.150172	0.904798
PITG_12440	Pi conserved hypothetical protein (1557 nt)	-16.1743	-0.3375	0.904883

PITG_12813	Pi phytanoyl-CoA dioxygenase domain-containing protein, pi	-14.962	0.428369	0.905198
PITG_12279	Pi phosphoglycerate mutase family protein (823 nt)	-14.3255	-0.13558	0.905416
PITG_18464	Pi hypothetical protein (1786 nt)	-14.8706	-0.23972	0.905627
PITG_00370	Pi conserved hypothetical protein (964 nt)	-14.3009	0.349257	0.906031
PITG_03283	Pi conserved hypothetical protein (1315 nt)	-16.0231	0.31452	0.906549
PITG_16206	Pi conserved hypothetical protein (651 nt)	-14.9197	0.395833	0.906792
PITG_05517	Pi regulatory-associated protein of mTOR (4096 nt)	-16.0664	-0.42831	0.906873
PITG_17282	Pi conserved hypothetical protein (5424 nt)	-16.0664	-0.42831	0.906873
PITG_12106	Pi CDP-alcohol phosphatidyltransferase, putative (1620 nt)	-13.7437	0.236133	0.907024
PITG_13421	Pi tripeptidyl-peptidase, putative (2214 nt)	-16.0521	-0.3986	0.907195
PITG_11966	Pi chaperonin CPN60-1, mitochondrial precursor (1943 nt)	-11.4719	-0.14942	0.907499
PITG_12295	Pi copine, putative (2872 nt)	-14.8778	0.179589	0.907939
PITG_16359	Pi UTP-glucose-1-phosphate uridylyltransferase (1851 nt)	-14.8967	0.398066	0.907939
PITG_21133	Pi hypothetical protein (905 nt)	-14.8591	0.220957	0.907939
PITG_10499	Pi conserved hypothetical protein (2133 nt)	-12.6597	0.141984	0.908063
PITG_01564	Pi amino-acid acetyltransferase, putative (1704 nt)	-16.0383	-0.36731	0.908157
PITG_02238	Pi conserved hypothetical protein (5511 nt)	-16.0383	-0.36731	0.908157
PITG_18328	Pi conserved hypothetical protein (752 nt)	-16.0383	-0.36731	0.908157
PITG_04506	Pi protein kinase (1653 nt)	-14.9126	-0.45232	0.908316
PITG_09537	Pi conserved hypothetical protein (976 nt)	-13.7335	-0.16627	0.90872
PITG_05864	Pi conserved hypothetical protein (975 nt)	-14.1744	-0.27453	0.908903
PITG_14353	Pi F-actin-capping protein subunit alpha, putative (1198 nt)	-14.8019	0.107568	0.908923
PITG_08765	Pi RNA binding protein, putative (538 nt)	-13.0712	0.116297	0.909699
PITG_00298	Pi conserved hypothetical protein (1380 nt)	-15.9052	0.265387	0.909751
PITG_04453	Pi conserved hypothetical protein (1413 nt)	-15.944	-0.25868	0.909751
PITG_10482	Pi pre-mRNA-splicing factor 18, putative (1063 nt)	-16.0413	0.253141	0.91005
PITG_21716	Pi conserved hypothetical protein (534 nt)	-16.0413	0.253141	0.91005
PITG_07599	Pi tubulin-specific chaperone E, putative (2085 nt)	-15.9595	-0.22766	0.910073
PITG_16104	Pi cryptochrome, putative (2154 nt)	-15.9272	0.264895	0.910073
PITG_14352	Pi methylenetetrahydrofolate dehydrogenase [NAD+], putat	-16.029	0.279244	0.910363
PITG_05354	Pi asparaginyl-tRNA synthetase (1709 nt)	-15.9497	-0.29831	0.910394
PITG_09987	Pi tRNA pseudouridine synthase, putative (2048 nt)	-15.9497	-0.29831	0.910394
PITG_14216	Pi methylthioribose-1-phosphate isomerase, putative (1089	-14.8272	0.362446	0.910431
PITG_12835	Pi conserved hypothetical protein (530 nt)	-14.7784	0.311702	0.91046
PITG_04549	Pi Ferroportin (FP) Family (1725 nt)	-16.0111	0.141723	0.910674
PITG_18696	Pi replication factor C subunit, putative (3196 nt)	-15.9146	-0.3686	0.910714
PITG_20742	Pi conserved hypothetical protein (955 nt)	-14.753	0.138044	0.910839
PITG_00064	Pi conserved hypothetical protein (1572 nt)	-15.9244	-0.24622	0.911032
PITG_08738	Pi conserved hypothetical protein (941 nt)	-15.8959	0.246492	0.911032
PITG_05373	Pi alcohol dehydrogenase class-3, putative (1242 nt)	-12.6851	-0.13279	0.911082
PITG_13354	Pi conserved hypothetical protein (2571 nt)	-16.0603	0.380699	0.911293
PITG_16085	Pi conserved hypothetical protein (1283 nt)	-13.8964	0.177476	0.911489
PITG_07011	Pi conserved hypothetical protein (1076 nt)	-14.7551	-0.20289	0.911592
PITG_02990	Pi conserved hypothetical protein (1597 nt)	-15.9076	0.224827	0.911664
PITG_08329	Pi conserved hypothetical protein (4663 nt)	-15.9076	0.224827	0.911664
PITG_03335	Pi callose synthase, putative (7947 nt)	-13.856	0.132425	0.911849
PITG_11764	Pi conserved hypothetical protein (1584 nt)	-15.9442	-0.30993	0.911979

PITG_20205	Pi integrator complex subunit 3, putative (3387 nt)	-15.9442	-0.30993	0.911979
PITG_21720	Pi conserved hypothetical protein (1298 nt)	-15.9413	0.19763	0.912604
PITG_01036	Pi phenylalanyl-tRNA synthetase alpha chain (1874 nt)	-14.7629	-0.21797	0.91307
PITG_01646	Pi hypothetical protein (2339 nt)	-15.9024	-0.17242	0.913225
PITG_12540	Pi gephyrin-like protein (2015 nt)	-14.8211	0.372485	0.913348
PITG_01640	Pi conserved hypothetical protein (4219 nt)	-14.8231	-0.39613	0.913348
PITG_14939	Pi glucosidase, putative (1728 nt)	-13.6521	-0.13191	0.913706
PITG_13773	Pi conserved hypothetical protein (3030 nt)	-15.9061	-0.22803	0.913841
PITG_15393	Pi eukaryotic translation initiation factor, putative (2892 nt)	-15.9061	-0.22803	0.913841
PITG_01508	Pi conserved hypothetical protein (3416 nt)	-14.7398	0.160304	0.914156
PITG_13271	Pi conserved hypothetical protein (366 nt)	-9.84711	-0.11581	0.914313
PITG_00488	Pi conserved hypothetical protein (623 nt)	-11.0283	0.106933	0.914342
PITG_02740	Pi acetolactate synthase, mitochondrial precursor (1947 nt)	-14.0608	0.266608	0.914582
PITG_10083	Pi chromodomain protein, putative (5912 nt)	-14.1176	-0.17733	0.914644
PITG_04712	Pi conserved hypothetical protein (3360 nt)	-14.7235	-0.38235	0.91478
PITG_08205	Pi methionyl-tRNA formyltransferase, putative (1696 nt)	-15.9141	0.188924	0.915059
PITG_00770	Pi conserved hypothetical protein (3380 nt)	-14.7637	0.331562	0.915224
PITG_05409	Pi conserved hypothetical protein (709 nt)	-15.8003	-0.22889	0.915875
PITG_07256	Pi conserved hypothetical protein (934 nt)	-14.0089	-0.10871	0.917303
PITG_01847	Pi conserved hypothetical protein (1573 nt)	-14.6356	-0.14726	0.917392
PITG_05652	Pi conserved hypothetical protein (519 nt)	-14.6469	0.14304	0.917392
PITG_02636	Pi conserved hypothetical protein (4157 nt)	-14.6591	-0.36737	0.917392
PITG_01343	Pi serine protease family S10, putative (1311 nt)	-15.7773	-0.22714	0.917401
PITG_04003	Pi conserved hypothetical protein (19526 nt)	-15.8865	0.226523	0.917737
PITG_01781	Pi heterogeneous nuclear ribonucleoprotein A1, putative (2601 nt)	-14.642	-0.15989	0.917745
PITG_19041	Pi protein kinase, putative (2401 nt)	-14.6406	0.153914	0.917745
PITG_06173	Pi conserved hypothetical protein (1052 nt)	-13.9772	-0.1548	0.918054
PITG_10806	Pi conserved hypothetical protein (1542 nt)	-13.0133	0.124466	0.918488
PITG_00518	Pi nucleoredoxin, putative (587 nt)	-10.962	-0.1029	0.918513
PITG_00147	Pi conserved hypothetical protein (891 nt)	-15.8228	0.235072	0.91919
PITG_05338	Pi protein kinase (2601 nt)	-15.7952	-0.28896	0.921223
PITG_15926	Pi conserved hypothetical protein (1808 nt)	-14.7124	-0.17963	0.921305
PITG_06820	Pi trehalase, putative (2103 nt)	-15.6693	-0.20633	0.921458
PITG_14365	Pi conserved hypothetical protein (2070 nt)	-15.6701	0.289033	0.921751
PITG_10564	Pi conserved hypothetical protein (597 nt)	-15.6857	0.319944	0.922043
PITG_23320	Pi hypothetical cleavage induced protein (1848 nt)	-15.6598	-0.22549	0.922043
PITG_14259	Pi conserved hypothetical protein (483 nt)	-14.5415	-0.1863	0.922089
PITG_11040	Pi hypothetical protein (540 nt)	-12.9893	-0.11271	0.922203
PITG_17998	Pi 3-hydroxyisobutyrate dehydrogenase, putative (2334 nt)	-15.6632	0.274832	0.922334
PITG_01458	Pi pyruvate dehydrogenase (1731 nt)	-15.6803	0.269518	0.922623
PITG_02258	Pi conserved hypothetical protein (1072 nt)	-15.6933	0.334725	0.922912
PITG_13512	Pi peptidyl-prolyl cis-trans isomerase B precursor (1169 nt)	-15.6558	-0.23356	0.922912
PITG_15916	Pi hypothetical protein (1789 nt)	-14.6991	-0.15581	0.922913
PITG_09452	Pi MMP37-like protein (895 nt)	-13.4942	-0.12087	0.922924
PITG_14198	Pi pre-mRNA-splicing factor 38B, putative (2124 nt)	-13.9633	0.130068	0.923056
PITG_00419	Pi conserved hypothetical protein (964 nt)	-15.6952	0.269073	0.923484
PITG_13139	Pi threonine synthase (1587 nt)	-13.8784	-0.14672	0.923588



PITG_01791	Pi protein disulfide-isomerase, putative (633 nt)	-11.7713	0.100351	0.923936
PITG_05552	Pi heat shock protein 75 kDa, mitochondrial precursor (2634	-14.4924	0.144014	0.924207
PITG_13922	Pi proline-rich protein 6 (411 nt)	-15.7745	-0.19078	0.92431
PITG_02628	Pi conserved hypothetical protein (1134 nt)	-14.4804	-0.12007	0.924538
PITG_17992	Pi P-3 complex subunit mu, putative (1447 nt)	-14.4912	0.141796	0.924538
PITG_03458	Pi conserved hypothetical protein (3101 nt)	-15.6497	0.166038	0.924615
PITG_13038	Pi conserved hypothetical protein (1433 nt)	-15.7374	0.271269	0.924615
PITG_19311	Pi conserved hypothetical protein (580 nt)	-14.5396	0.294146	0.924734
PITG_17931	Pi conserved hypothetical protein (869 nt)	-14.686	0.145388	0.924789
PITG_16977	Pi aurora-like protein kinase (1161 nt)	-15.7122	0.290664	0.924894
PITG_08594	Pi conserved hypothetical protein (1188 nt)	-12.3818	0.1531	0.925129
PITG_11171	Pi conserved hypothetical protein (1371 nt)	-13.6368	-0.29061	0.925231
PITG_15155	Pi conserved hypothetical protein (1255 nt)	-13.1544	0.212216	0.925362
PITG_11567	Pi conserved hypothetical protein (6184 nt)	-15.7707	-0.23655	0.925402
PITG_08489	Pi conserved hypothetical protein (944 nt)	-13.0602	0.097349	0.925528
PITG_13336	Pi DNA2-like helicase (4864 nt)	-15.7664	-0.3486	0.925673
PITG_04486	Pi conserved hypothetical protein (537 nt)	-15.6799	0.225178	0.925726
PITG_18369	Pi conserved hypothetical protein (1040 nt)	-14.4793	-0.16885	0.926162
PITG_06112	Pi hypothetical protein (481 nt)	-13.3985	-0.11775	0.926316
PITG_23277	Pi crinkler (CRN) domain, pseudogene (858 nt)	-15.8815	0.278655	0.926385
PITG_18209	Pi glycoside hydrolase, putative (1428 nt)	-15.9929	-0.77299	0.926652
PITG_13588	Pi conserved hypothetical protein (317 nt)	-13.8149	-0.14304	0.92668
PITG_00108	Pi phospholipase D, putative (1037 nt)	-15.5708	0.206643	0.926899
PITG_00880	Pi conserved hypothetical protein (1523 nt)	-10.0797	0.110487	0.926988
PITG_00472	Pi pre-mRNA-splicing factor syf2 (1007 nt)	-13.8082	0.116387	0.927017
PITG_13223	Pi cysteine desulfurase, putative (1380 nt)	-15.5748	0.176289	0.927177
PITG_00664	Pi conserved hypothetical protein (3626 nt)	-15.5431	0.112896	0.927453
PITG_11450	Pi conserved hypothetical protein (466 nt)	-9.74876	-0.10836	0.927672
PITG_10615	Pi conserved hypothetical protein (1117 nt)	-15.5553	0.238754	0.927728
PITG_09505	Pi centrosome-associated protein, putative (6330 nt)	-15.5705	0.168014	0.928546
PITG_14587	Pi conserved hypothetical protein (1670 nt)	-14.4418	0.124742	0.92873
PITG_02615	Pi conserved hypothetical protein (1055 nt)	-12.8061	-0.18731	0.928767
PITG_10152	Pi calcium-binding atopy-related autoantigen-like protein (19	-13.7747	0.113605	0.928793
PITG_08718	Pi conserved hypothetical protein (942 nt)	-11.8312	0.092947	0.928832
PITG_11993	Pi glycoside hydrolase, putative (1617 nt)	-14.3835	0.127945	0.929002
PITG_05355	Pi conserved hypothetical protein (2512 nt)	-15.5657	0.220021	0.929085
PITG_15973	Pi conserved hypothetical protein (1294 nt)	-13.9481	0.160518	0.929241
PITG_10857	Pi ubiquitin fusion degradation protein, putative (3949 nt)	-14.3849	0.12609	0.929625
PITG_05617	Pi UDP-glucose 4-epimerase, putative (1400 nt)	-12.2864	-0.14964	0.929661
PITG_13855	Pi phosphatidic acid phosphatase (890 nt)	-14.3511	0.138878	0.930427
PITG_23065	Pi general transcription factor IIH subunit, putative (495 nt)	-15.4635	0.166656	0.930914
PITG_04937	Pi conserved hypothetical protein (615 nt)	-13.0288	-0.1929	0.931636
PITG_09570	Pi hypothetical protein (1014 nt)	-13.9778	-0.29291	0.932138
PITG_16464	Pi Sulfate Permease (SulP) Family (2097 nt)	-14.5369	0.129018	0.932251
PITG_10597	Pi hypothetical protein (1250 nt)	-10.9575	-0.09701	0.932334
PITG_06968	Pi conserved hypothetical protein (2451 nt)	-14.3096	0.114859	0.932668
PITG_18895	Pi conserved hypothetical protein (1339 nt)	-15.6662	-0.23864	0.932787

PITG_11489	Pi fatty-acid-CoA ligase, putative (3596 nt)	-15.5631	-0.28029	0.932981
PITG_07884	Pi XTP3-transactivated gene A protein (1704 nt)	-15.4551	0.204328	0.933271
PITG_19745	Pi conserved hypothetical protein (872 nt)	-15.4659	0.134282	0.933271
PITG_11972	Pi pre-mRNA-splicing factor 38A, putative (625 nt)	-15.4637	0.221198	0.933526
PITG_10193	Pi ubiquitin, putative (471 nt)	-8.42212	0.082717	0.933984
PITG_03469	Pi conserved hypothetical protein (1248 nt)	-15.3734	-0.26548	0.934215
PITG_11445	Pi sepiapterin reductase, putative (709 nt)	-15.3707	-0.27085	0.934215
PITG_01257	Pi nucleoporin NUP85-like protein (2211 nt)	-15.4015	-0.20927	0.934473
PITG_10887	Pi 40S ribosomal protein S11 (1081 nt)	-9.40944	0.096741	0.934671
PITG_18113	Pi DNA-directed RNA polymerase II 36 kDa polypeptide A (76	-15.3928	-0.22667	0.934731
PITG_14473	Pi conserved hypothetical protein (2059 nt)	-15.3736	-0.18776	0.934986
PITG_02672	Pi ATP-dependent protease hslV (887 nt)	-14.2582	-0.1271	0.935078
PITG_02975	Pi conserved hypothetical protein (3032 nt)	-15.3904	-0.2316	0.935241
PITG_12499	Pi conserved hypothetical protein (1804 nt)	-15.4652	-0.18735	0.935284
PITG_12175	Pi conserved hypothetical protein (920 nt)	-15.4703	-0.19576	0.935776
PITG_19429	Pi prephenate dehydratase, putative (2816 nt)	-15.3621	0.12663	0.935997
PITG_08467	Pi diacylglycerol O-acyltransferase, putative (1179 nt)	-12.9198	-0.09843	0.936526
PITG_08364	Pi conserved hypothetical protein (1424 nt)	-15.3707	-0.1696	0.936742
PITG_06171	Pi splicing factor 3B subunit 1 (3778 nt)	-14.2151	0.105669	0.937077
PITG_08024	Pi conserved hypothetical protein (1559 nt)	-14.5945	-0.4579	0.937278
PITG_08461	Pi conserved hypothetical protein (1221 nt)	-15.3877	-0.23724	0.937718
PITG_03329	Pi conserved hypothetical protein (947 nt)	-15.293	-0.21086	0.937898
PITG_18164	Pi conserved hypothetical protein (1270 nt)	-13.6059	0.096884	0.938107
PITG_22572	Pi C-1-tetrahydrofolate synthase, putative (1111 nt)	-13.2092	-0.2117	0.938238
PITG_01752	Pi transketolase (2256 nt)	-12.2691	-0.10281	0.938263
PITG_02905	Pi conserved hypothetical protein (1843 nt)	-15.2828	0.188035	0.938391
PITG_03937	Pi conserved hypothetical protein (812 nt)	-15.2857	0.127189	0.938635
PITG_14217	Pi conserved hypothetical protein (978 nt)	-15.344	0.483703	0.938635
PITG_03018	Pi sporangia induced dynein heavy chain (12567 nt)	-15.3505	0.138399	0.939149
PITG_20562	Pi RAC family serine/threonine-protein kinase (4989 nt)	-13.6155	-0.24062	0.939499
PITG_07628	Pi tubulin-specific chaperone E, putative (1808 nt)	-15.308	-0.43648	0.940311
PITG_04485	Pi conserved hypothetical protein (6206 nt)	-15.3784	-0.48871	0.940312
PITG_18498	Pi conserved hypothetical protein (5417 nt)	-15.4514	-0.25287	0.94048
PITG_13399	Pi asparagine synthetase (1788 nt)	-15.2178	-0.12661	0.940742
PITG_15016	Pi conserved hypothetical protein (1338 nt)	-15.2047	-0.11833	0.940742
PITG_15832	Pi conserved hypothetical protein (3253 nt)	-15.3413	-0.45171	0.941242
PITG_05638	Pi GTPase, putative (1931 nt)	-13.4608	-0.09984	0.941675
PITG_18702	Pi conserved hypothetical protein (1770 nt)	-15.2481	-0.47713	0.941689
PITG_02162	Pi ATP-dependent Clp protease ATP-binding subunit clpX (22	-14.1032	0.09717	0.941706
PITG_09593	Pi conserved hypothetical protein (812 nt)	-13.4575	0.082827	0.941949
PITG_11374	Pi hypothetical protein (309 nt)	-11.3197	0.090583	0.942197
PITG_09748	Pi CUG-BP- and ETR-3-like factor, putative (1607 nt)	-11.8149	0.071128	0.942364
PITG_21394	Pi cobalamin synthesis protein, putative (1194 nt)	-14.0638	0.086972	0.942843
PITG_12574	Pi Rab2 family GTPase, putative (695 nt)	-13.4426	-0.0882	0.943133
PITG_06619	Pi ADP-ribosylation factor family (1012 nt)	-11.5248	0.116934	0.943473
PITG_01951	Pi conserved hypothetical protein (903 nt)	-15.2018	-0.11102	0.943524
PITG_15836	Pi hypothetical protein (1718 nt)	-15.2122	0.113747	0.943971

PITG_01127	Pi conserved hypothetical protein (2528 nt)	-15.1561	-0.44803	0.943999
PITG_06917	Pi Phosphatidylinositol-3-phosphate5- kinase (Fab-like; PIPK-	-15.1464	-0.33916	0.943999
PITG_19532	Pi cleavage and polyadenylation specificity factor subunit, pu	-15.1653	-0.46635	0.943999
PITG_08597	Pi conserved hypothetical protein (969 nt)	-15.138	-0.13488	0.944453
PITG_10164	Pi NAD-dependent histone deacetylase sir2-like protein (198	-15.1646	-0.46799	0.944678
PITG_20803	Pi conserved hypothetical protein (1947 nt)	-15.1462	-0.15231	0.944901
PITG_15553	Pi inorganic pyrophosphatase, putative (1909 nt)	-13.0835	0.075948	0.945691
PITG_15623	Pi nucampholin (2183 nt)	-15.0475	0.113917	0.945863
PITG_04856	Pi Crinkler (CRN) family protein (2517 nt)	-15.0746	0.16806	0.946528
PITG_20240	Pi aspartyl-tRNA synthetase, putative (1045 nt)	-15.0368	-0.13062	0.946528
PITG_04723	Pi hypothetical protein (610 nt)	-15.0555	-0.15703	0.946965
PITG_09415	Pi ethanolamine kinase, putative (1754 nt)	-15.0633	0.325683	0.946965
PITG_20970	Pi triosephosphate isomerase/glyceraldehyde-3-phosphate c	-12.7802	0.187015	0.947139
PITG_08926	Pi adherence factor, putative (6279 nt)	-15.0684	-0.42549	0.947182
PITG_05226	Pi conserved hypothetical protein (2029 nt)	-15.037	0.128076	0.947397
PITG_13758	Pi conserved hypothetical protein (1702 nt)	-14.0165	0.113087	0.947559
PITG_05317	Pi transcriptional adapter 2-alpha, putative (2023 nt)	-15.0771	-0.44351	0.948036
PITG_13302	Pi calcineurin-like phosphoesterase (2485 nt)	-14.9633	0.097097	0.948625
PITG_11258	Pi conserved hypothetical protein (570 nt)	-15.3201	0.293379	0.948917
PITG_06404	Pi conserved hypothetical protein (816 nt)	-9.92513	0.088228	0.949043
PITG_06986	Pi 5'-3' exoribonuclease, putative (2994 nt)	-15.0455	-0.15276	0.949489
PITG_06867	Pi conserved hypothetical protein (1454 nt)	-14.9787	-0.1454	0.949883
PITG_03860	Pi HECT E3 ubiquitin ligase, putative (15735 nt)	-15.0618	-0.18677	0.949895
PITG_20903	Pi exosome complex exonuclease RRP40, putative (1522 nt)	-14.9164	-0.17808	0.950335
PITG_11206	Pi conserved hypothetical protein (2315 nt)	-13.8298	-0.11319	0.950358
PITG_00049	Pi conserved hypothetical protein (1998 nt)	-14.9329	-0.14515	0.950543
PITG_08744	Pi long-chain-fatty-acid-CoA ligase (2516 nt)	-11.0476	0.104439	0.950824
PITG_19871	Pi cell division control protein 48 (2866 nt)	-11.7655	0.062137	0.951427
PITG_15850	Pi glycine dehydrogenase, mitochondrial precursor (3343 nt)	-13.9879	-0.13463	0.951588
PITG_15440	Pi conserved hypothetical protein (222 nt)	-15.1335	-0.14666	0.951686
PITG_07447	Pi conserved hypothetical protein (643 nt)	-14.898	-0.15007	0.951965
PITG_20293	Pi hypothetical protein (228 nt)	-15.0633	-0.07835	0.952246
PITG_03471	Pi conserved hypothetical protein (4608 nt)	-14.9052	-0.17048	0.95314
PITG_04000	Pi angio-associated migratory cell protein (1737 nt)	-13.7341	0.088131	0.953446
PITG_12223	Pi SWI/SNF-related matrix-associated actin-dependent regul.	-14.8292	0.056219	0.953493
PITG_14416	Pi conserved hypothetical protein (1437 nt)	-13.7673	-0.09881	0.954241
PITG_12153	Pi myosin-like protein (4548 nt)	-14.9011	0.060491	0.954648
PITG_03396	Pi conserved hypothetical protein (2455 nt)	-14.7986	0.127672	0.954702
PITG_04822	Pi inositol polyphosphate multikinase, putative (1122 nt)	-14.7738	-0.11067	0.954702
PITG_09582	Pi ATP phosphoribosyltransferase (900 nt)	-14.7909	-0.13412	0.955273
PITG_09552	Pi conserved hypothetical protein (1583 nt)	-9.05453	-0.05974	0.955395
PITG_16280	Pi glutamate synthase, putative (3791 nt)	-15.0523	0.098182	0.955715
PITG_01322	Pi myosin-like protein (3704 nt)	-13.7597	0.062014	0.95586
PITG_16791	Pi conserved hypothetical protein (1066 nt)	-14.7186	0.069235	0.955994
PITG_03872	Pi kinesin-like protein (2811 nt)	-14.7792	0.163788	0.956019
PITG_01897	Pi histone deacetylase, putative (1804 nt)	-13.6308	0.082255	0.956779
PITG_01480	Pi CBL-interacting serine/threonine-protein kinase, putative	-14.7173	0.066898	0.957104

PITG_14576	Pi conserved hypothetical protein (1042 nt)	-13.0761	0.056659	0.957221
PITG_02340	Pi conserved hypothetical protein (3042 nt)	-14.7876	-0.05612	0.95746
PITG_02901	Pi glycoside hydrolase, putative (902 nt)	-14.6593	0.120481	0.957917
PITG_12912	Pi phosphatidylinositol transfer protein beta isoform (1250 nt)	-13.5563	-0.23293	0.958982
PITG_03561	Pi COP9 signalosome complex subunit 5, putative (1222 nt)	-14.6219	0.139729	0.959005
PITG_02984	Pi conserved hypothetical protein (358 nt)	-12.92	0.057619	0.959084
PITG_12863	Pi cyclin-dependent kinase regulatory subunit (1007 nt)	-12.9378	-0.06221	0.959411
PITG_17719	Pi iron-sulfur cluster assembly protein, putative (901 nt)	-13.4962	0.084444	0.960883
PITG_19109	Pi conserved hypothetical protein (375 nt)	-14.6102	0.089291	0.960893
PITG_18712	Pi conserved hypothetical protein (2161 nt)	-14.5546	0.074971	0.96121
PITG_16833	Pi conserved hypothetical protein (2406 nt)	-13.4912	0.052421	0.961603
PITG_05323	Pi conserved hypothetical protein (741 nt)	-14.5728	-0.07746	0.961707
PITG_07745	Pi conserved hypothetical protein (1141 nt)	-14.5699	-0.12974	0.961871
PITG_06891	Pi S-formylglutathione hydrolase, putative (911 nt)	-14.5703	-0.12491	0.963301
PITG_09907	Pi arabinogalactan endo-1,4-beta-galactosidase, putative (970 nt)	-13.4166	0.049585	0.963411
PITG_09863	Pi septum site-determining protein minD (1017 nt)	-14.4277	0.096399	0.963617
PITG_11256	Pi conserved hypothetical protein (522 nt)	-14.5492	-0.08288	0.963761
PITG_02594	Pi glutamate decarboxylase (1660 nt)	-11.1247	0.045682	0.964655
PITG_22644	Pi conserved hypothetical protein (662 nt)	-14.4592	0.089323	0.964858
PITG_16670	Pi conserved hypothetical protein (661 nt)	-11.7019	-0.04895	0.965163
PITG_04921	Pi hypothetical protein (456 nt)	-12.8114	-0.06908	0.96532
PITG_06244	Pi hypothetical protein (2175 nt)	-11.316	0.049901	0.96636
PITG_05249	Pi conserved hypothetical protein (552 nt)	-10.4908	0.047195	0.966362
PITG_06602	Pi conserved hypothetical protein (1790 nt)	-14.2743	-0.11098	0.966773
PITG_02327	Pi conserved hypothetical protein (1533 nt)	-14.2866	-0.08633	0.967068
PITG_04020	Pi hypothetical protein (575 nt)	-13.6572	-0.04885	0.967219
PITG_05313	Pi undecaprenyl pyrophosphate synthetase, putative (1220 nt)	-14.2813	0.072684	0.967504
PITG_15137	Pi hypothetical protein (530 nt)	-14.2818	-0.0399	0.967789
PITG_21987	Pi protein phosphatase 2C, putative (735 nt)	-11.7666	-0.04474	0.969083
PITG_17958	Pi heme/steroid binding domain-containing protein, putative (1000 nt)	-14.1677	-0.08267	0.969448
PITG_03252	Pi alpha-soluble NSF attachment protein, putative (1268 nt)	-12.4689	0.047222	0.970011
PITG_21186	Pi conserved hypothetical protein (972 nt)	-14.059	-0.26867	0.972497
PITG_02034	Pi zinc transporter, putative (1230 nt)	-13.9184	0.248103	0.97395
PITG_18623	Pi polycomb protein, putative (1447 nt)	-13.901	-0.10138	0.974187
PITG_06512	Pi conserved hypothetical protein (1622 nt)	-11.8823	-0.04731	0.974445
PITG_01223	Pi conserved hypothetical protein (1177 nt)	-14.1102	0.029353	0.974756
PITG_02706	Pi NUK6 (2239 nt)	-13.0514	0.051201	0.974778
PITG_16329	Pi conserved hypothetical protein (2573 nt)	-13.7533	-0.05918	0.976378
PITG_05998	Pi ribonucleoside-diphosphate reductase large subunit (2885 nt)	-13.7746	0.064274	0.977802
PITG_20585	Pi AhpC/TSA family Redoxin, putative (2885 nt)	-13.7483	0.040316	0.977943
PITG_13861	Pi conserved hypothetical protein (1372 nt)	-13.6068	-0.06392	0.979067
PITG_15771	Pi hsp70-like protein (2743 nt)	-12.5854	-0.0552	0.980274
PITG_15063	Pi conserved hypothetical protein (410 nt)	-13.3727	0.043506	0.981805
PITG_07384	Pi isoamyl acetate-hydrolyzing esterase 1 (849 nt)	-13.4741	0.232518	0.981853
PITG_19690	Pi conserved hypothetical protein (860 nt)	-13.3177	0.064751	0.982421
PITG_01070	Pi conserved hypothetical protein (1289 nt)	-13.2984	0.043506	0.982509
PITG_14609	Pi eukaryotic translation initiation factor 2 subunit beta (1000 nt)	-12.3353	-0.03427	0.982515

PITG_00527	Pi luminal-binding protein 3 precursor (2088 nt)	-10.5703	0.024179	0.9827
PITG_04566	Pi hypothetical protein (132 nt)	-13.2007	0.170491	0.983916
PITG_07156	Pi serine protease family S10, putative (1505 nt)	-12.1369	0.033093	0.984778
PITG_11244	Pi heat shock 70 kDa protein (2279 nt)	-10.8495	-0.02231	0.984874
PITG_03900	Pi conserved hypothetical protein (1014 nt)	-12.839	-0.041	0.987327
PITG_14083	Pi glutathione reductase (1482 nt)	-11.3782	0.017577	0.988258
PITG_14604	Pi hypothetical protein (571 nt)	-11.6652	0.027128	0.988435
PITG_20793	Pi conserved hypothetical protein (361 nt)	-12.7206	0.028267	0.988485
PITG_13748	Pi ubiquitin-conjugating enzyme E2, putative (776 nt)	-11.8019	0.016029	0.993627
PITG_00233	Pi Major Facilitator Superfamily (MFS) (1776 nt)	-15.8366	-0.47323	1
PITG_00404	Pi hypothetical protein (1637 nt)	-16.0942	0.262705	1
PITG_01112	Pi UDP-3-O-[3-hydroxymyristoyl] glucosamine N-acyltransferase	-15.4232	0.353564	1
PITG_01245	Pi chorismate mutase, putative (1976 nt)	-15.7802	0.314566	1
PITG_01579	Pi transcription factor, putative (1553 nt)	-15.2668	-0.33833	1
PITG_01650	Pi conserved hypothetical protein (1251 nt)	-15.7709	-0.19243	1
PITG_01813	Pi tRNA (guanine-N(7)-)-methyltransferase, putative (907 nt)	-16.1026	0.007129	1
PITG_01825	Pi conserved hypothetical protein (1123 nt)	-14.9532	0.275616	1
PITG_02032	Pi tRNA (guanine-N(1)-)-methyltransferase, putative (1366 nt)	-15.9272	-0.07114	1
PITG_02294	Pi conserved hypothetical protein (2285 nt)	-16.4099	-0.2206	1
PITG_02895	Pi selenoprotein O, putative (1914 nt)	-15.5914	-0.10472	1
PITG_03490	Pi conserved hypothetical protein (1776 nt)	-15.7709	-0.19243	1
PITG_03570	Pi conserved hypothetical protein (1365 nt)	-15.9174	-0.41509	1
PITG_03656	Pi inosine-5'-monophosphate dehydrogenase, putative (1754 nt)	-15.0016	0.205719	1
PITG_04512	Pi conserved hypothetical protein (1076 nt)	-15.545	0.421734	1
PITG_05637	Pi S-adenosylmethionine mitochondrial carrier protein, putative	-15.4241	-0.12507	1
PITG_06749	Pi bifunctional dihydrofolate reductase-thymidylate synthase	-15.7693	-0.33875	1
PITG_06794	Pi putative methyltransferase METT10D (1723 nt)	-15.6267	-0.29179	1
PITG_06829	Pi conserved hypothetical protein (9345 nt)	-15.0104	0.248637	1
PITG_06897	Pi conserved hypothetical protein (1969 nt)	-15.889	-0.14756	1
PITG_07216	Pi ATPase WRNIP1 (1628 nt)	-16.7831	-0.58595	1
PITG_08316	Pi ATP-dependent RNA helicase, putative (4308 nt)	-16.5181	-0.43626	1
PITG_09248	Pi Proton-dependent Oligopeptide Transporter (POT) Family	-15.6156	-0.26952	1
PITG_09567	Pi conserved hypothetical protein (796 nt)	-13.935	-0.10957	1
PITG_09666	Pi conserved hypothetical protein (1146 nt)	-15.9282	0.355779	1
PITG_09751	Pi GPI mannosyltransferase 4, putative (1822 nt)	-15.3898	0.182109	1
PITG_09783	Pi conserved hypothetical protein (1687 nt)	-13.7151	0.015141	1
PITG_10034	Pi fatty acyl-CoA reductase, putative (3991 nt)	-16.7831	-0.58595	1
PITG_10792	Pi conserved hypothetical protein (1930 nt)	-15.6567	-0.14306	1
PITG_11108	Pi conserved hypothetical protein (929 nt)	-14.6895	-0.25028	1
PITG_11491	Pi hypothetical protein (800 nt)	-15.3098	-0.04864	1
PITG_11816	Pi conserved hypothetical protein (1444 nt)	-15.6638	0.455718	1
PITG_12121	Pi uridine kinase (984 nt)	-14.9572	-0.03142	1
PITG_13017	Pi ATP-dependent RNA helicase, putative (3981 nt)	-16.4099	-0.2206	1
PITG_13893	Pi conserved hypothetical protein (463 nt)	-15.9355	-0.05458	1
PITG_14854	Pi signal recognition particle, putative (1843 nt)	-14.9304	-0.21806	1
PITG_15817	Pi calpain-like protein (3729 nt)	-15.2161	0.021207	1
PITG_16841	Pi conserved hypothetical protein (694 nt)	-14.7854	0.074799	1

PITG_17734	Pi conserved hypothetical protein (3125 nt)	-16.0112	0.096862	1
PITG_18185	Pi phospholipase D, Pi-sPLD-like-1 (1650 nt)	-15.866	-0.19364	1
PITG_18246	Pi conserved hypothetical protein (2709 nt)	-16.1026	0.007129	1
PITG_18423	Pi conserved hypothetical protein (5054 nt)	-16.7831	-0.58595	1
PITG_19611	Pi conserved hypothetical protein (2220 nt)	-16.3444	-0.29015	1
PITG_19668	Pi conserved hypothetical protein (1234 nt)	-12.9649	0.026765	1
PITG_20378	Pi conserved hypothetical protein (1596 nt)	-15.7454	-0.29092	1
PITG_22611	Pi protein recA (641 nt)	-15.6267	-0.29179	1
PITG_00020	Pi conserved hypothetical protein (2785 nt)	-13.7692	0.116669	1
PITG_00503	Pi Rab32 family GTPase, putative (840 nt)	-13.4373	0.04944	1
PITG_00867	Pi conserved hypothetical protein (1749 nt)	-13.2484	-0.12973	1
PITG_01087	Pi cell division protease ftsH (2050 nt)	-13.7751	0.14247	1
PITG_02537	Pi conserved hypothetical protein (1443 nt)	-11.8366	0.003445	1
PITG_03389	Pi replication factor C subunit 4 (1123 nt)	-16.5527	-0.50399	1
PITG_03899	Pi conserved hypothetical protein (2889 nt)	-16.5226	-0.49559	1
PITG_04674	Pi conserved hypothetical protein (1407 nt)	-16.2526	-0.05551	1
PITG_04880	Pi Equilibrative Nucleoside Transporter (ENT) Family (1065 nt)	-16.5413	-0.52909	1
PITG_05508	Pi polycomb protein, putative (2674 nt)	-14.1385	0.020137	1
PITG_05874	Pi conserved hypothetical protein (1037 nt)	-14.3973	0.271008	1
PITG_06554	Pi cytochrome P450, putative (4126 nt)	-16.5226	-0.49559	1
PITG_06695	Pi conserved hypothetical protein (1404 nt)	-14.5295	0.06722	1
PITG_06739	Pi conserved hypothetical protein (493 nt)	-13.1341	0.091297	1
PITG_06921	Pi conserved hypothetical protein (465 nt)	-14.1168	-0.02335	1
PITG_07047	Pi THO complex subunit, putative (2342 nt)	-15.0596	-0.02204	1
PITG_07994	Pi Dicarboxylate/Amino Acid:Cation (Na <sup>+</sup> or H <sup>+</sup> ) Symporter (D)	-16.4897	0.000818	1
PITG_08578	Pi Mitochondrial Carrier (MC) Family (1068 nt)	-14.1129	-0.22544	1
PITG_08932	Pi conserved hypothetical protein (1781 nt)	-11.7176	0.006899	1
PITG_09648	Pi conserved hypothetical protein (512 nt)	-16.5413	-0.52909	1
PITG_09940	Pi conserved hypothetical protein (2091 nt)	-14.3295	-0.22487	1
PITG_10142	Pi conserved hypothetical protein (4210 nt)	-13.4788	-0.09929	1
PITG_11090	Pi conserved hypothetical protein (1029 nt)	-13.9208	0.131021	1
PITG_12472	Pi palmitoyltransferase, putative (2460 nt)	-15.8321	-0.48	1
PITG_12488	Pi conserved hypothetical protein (974 nt)	-13.1877	0.023201	1
PITG_12887	Pi conserved hypothetical protein (1840 nt)	-16.1265	-0.30771	1
PITG_13365	Pi Poly(U)-binding-splicing factor PUF60, putative (1707 nt)	-14.6198	0.132982	1
PITG_13727	Pi conserved hypothetical protein (1417 nt)	-14.2597	0.068259	1
PITG_14009	Pi pre-mRNA-splicing factor ATP-dependent RNA helicase, putative	-16.5226	-0.49559	1
PITG_14589	Pi choline-phosphate cytidyltransferase B (1341 nt)	-13.2306	0.051257	1
PITG_15784	Pi polyadenylate-binding protein 2 (741 nt)	-13.8285	-0.24649	1
PITG_15882	Pi alpha,alpha-trehalose-phosphate synthase (3076 nt)	-16.5226	-0.49559	1
PITG_17788	Pi coiled-coil domain-containing protein 94 (846 nt)	-15.4758	-0.049	1
PITG_20718	Pi conserved hypothetical protein (1161 nt)	-13.6198	-0.13986	1
PITG_20792	Pi soluble calcium-activated nucleotidase, putative (1368 nt)	-13.655	0.098405	1
PITG_21619	Pi homoserine O-acetyltransferase, putative (927 nt)	-16.1259	0.054182	1
PITG_00028	Pi aminoacylase-1, putative (1660 nt)	-16.315	0.126147	1
PITG_00070	Pi conserved hypothetical protein (2152 nt)	-16.4493	-0.14249	1
PITG_00082	Pi monovalent Cation:Proton Antiporter-2 (CPA2) family (216 nt)	-16.1036	-0.35387	1

PITG_00186	Pi histone acetyltransferase, putative (1618 nt)	-15.5237	0.213588	1
PITG_00255	Pi conserved hypothetical protein (438 nt)	-15.6916	-0.07219	1
PITG_00287	Pi formyl-coenzyme A transferase, putative (1335 nt)	-16.2773	-0.00624	1
PITG_00311	Pi conserved hypothetical protein (728 nt)	-16.0141	-0.00998	1
PITG_00408	Pi transmembrane protein, putative (3475 nt)	-16.001	0.076188	1
PITG_00437	Pi conserved hypothetical protein (1505 nt)	-16.1794	-0.14572	1
PITG_00466	Pi conserved hypothetical protein (2946 nt)	-16.2232	-0.5979	1
PITG_00499	Pi ATP-dependent RNA helicase dbp4, putative (1628 nt)	-16.468	-0.53651	1
PITG_00630	Pi conserved hypothetical protein (5242 nt)	-16.6427	-0.10801	1
PITG_00648	Pi periodic tryptophan protein, putative (1706 nt)	-16.1737	0.25262	1
PITG_00796	Pi conserved hypothetical protein (1363 nt)	-16.0221	0.118314	1
PITG_00996	Pi conserved hypothetical protein (973 nt)	-16.0222	-0.25997	1
PITG_01134	Pi conserved hypothetical protein (9050 nt)	-16.3817	-0.21502	1
PITG_01183	Pi conserved hypothetical protein (3168 nt)	-15.1695	-0.07271	1
PITG_01376	Pi conserved hypothetical protein (2266 nt)	-16.0772	0.009627	1
PITG_01450	Pi HECT E3 ubiquitin ligase, putative (14519 nt)	-14.4008	0.006864	1
PITG_01478	Pi conserved hypothetical protein (1301 nt)	-13.8418	-0.09747	1
PITG_01563	Pi conserved hypothetical protein (2711 nt)	-14.9107	-0.03732	1
PITG_01749	Pi conserved hypothetical protein (1656 nt)	-15.5168	0.060014	1
PITG_01857	Pi conserved hypothetical protein (1186 nt)	-16.4379	0.129618	1
PITG_02052	Pi conserved hypothetical protein (856 nt)	-15.9986	0.167768	1
PITG_02054	Pi DNA primase small subunit, putative (1497 nt)	-15.8942	0.287392	1
PITG_02304	Pi anaphase-promoting complex subunit 7, putative (2210 nt)	-16.2003	0.422279	1
PITG_02496	Pi conserved hypothetical protein (2508 nt)	-15.8678	0.31496	1
PITG_02718	Pi conserved hypothetical protein (1648 nt)	-16.4493	-0.14249	1
PITG_02753	Pi DNA polymerase zeta catalytic subunit, putative (5677 nt)	-16.4106	-0.29088	1
PITG_02805	Pi DNA mismatch repair protein Msh2, putative (2451 nt)	-16.4384	-0.6637	1
PITG_02976	Pi conserved hypothetical protein (3591 nt)	-14.9326	0.233302	1
PITG_03042	Pi Major Facilitator Superfamily (MFS) (1476 nt)	-15.6167	-0.2238	1
PITG_03112	Pi importin-like protein (3460 nt)	-15.8647	-0.00351	1
PITG_03260	Pi conserved hypothetical protein (2299 nt)	-15.6262	-0.03478	1
PITG_03295	Pi copper-transporting ATPase, putative (3771 nt)	-15.8285	-0.17235	1
PITG_03411	Pi lysosomal beta glucosidase, putative (2370 nt)	-15.9538	-0.34253	1
PITG_03506	Pi conserved hypothetical protein (1452 nt)	-16.4493	-0.14249	1
PITG_03548	Pi nucleolar protein, putative (1579 nt)	-16.1612	0.280653	1
PITG_03856	Pi peptidyl-prolyl cis-trans isomerase, putative (1789 nt)	-11.8586	0.00271	1
PITG_03999	Pi eukaryotic initiation factor 4E, putative (1175 nt)	-15.8304	0.414975	1
PITG_04028	Pi conserved hypothetical protein (2175 nt)	-15.8942	0.287392	1
PITG_04577	Pi conserved hypothetical protein (2403 nt)	-14.9565	0.054068	1
PITG_04647	Pi conserved hypothetical protein (1327 nt)	-14.4077	0.197265	1
PITG_04691	Pi pyridine nucleotide-disulphide oxidoreductase, putative (1	-15.9285	-0.06866	1
PITG_04699	Pi conserved hypothetical protein (489 nt)	-15.5575	0.102657	1
PITG_05186	Pi Ufm1-specific protease, putative (2070 nt)	-16.464	-0.11225	1
PITG_05233	Pi CLIP-associating protein, putative (4598 nt)	-15.7496	-0.4292	1
PITG_05324	Pi conserved hypothetical protein (675 nt)	-11.62	-0.00416	1
PITG_05465	Pi L-gulonolactone oxidase, putative (1707 nt)	-16.1612	0.280653	1
PITG_05479	Pi ubiquitin-activating enzyme (E1), putative (1981 nt)	-15.5575	0.102657	1

PITG_05563	Pi hypothetical protein (347 nt)	-16.2232	-0.5979	1
PITG_05610	Pi conserved hypothetical protein (1132 nt)	-15.9555	0.034256	1
PITG_06007	Pi Zinc (Zn <sup>2+</sup> )-Iron (Fe <sup>2+</sup> ) Permease (ZIP) Family (1320 nt)	-16.1235	0.152369	1
PITG_06046	Pi conserved hypothetical protein (547 nt)	-15.5492	-0.1063	1
PITG_06148	Pi conserved hypothetical protein (1498 nt)	-16.4667	-0.67533	1
PITG_06151	Pi conserved hypothetical protein (600 nt)	-15.8783	-0.22073	1
PITG_06220	Pi conserved hypothetical protein (3013 nt)	-16.1036	-0.35387	1
PITG_06258	Pi conserved hypothetical protein (753 nt)	-16.5136	-0.08406	1
PITG_06673	Pi Major Facilitator Superfamily (MFS) (2166 nt)	-15.4021	-0.16864	1
PITG_06774	Pi conserved hypothetical protein (454 nt)	-16.4106	-0.29088	1
PITG_06853	Pi conserved hypothetical protein (1980 nt)	-16.4487	-0.08165	1
PITG_06938	Pi conserved hypothetical protein (957 nt)	-16.2125	0.174874	1
PITG_07856	Pi conserved hypothetical protein (1033 nt)	-16.4129	-0.64489	1
PITG_07933	Pi F-box protein, putative (1205 nt)	-16.4336	-0.05009	1
PITG_07937	Pi conserved hypothetical protein (5262 nt)	-16.4337	-0.11115	1
PITG_08139	Pi conserved hypothetical protein (5069 nt)	-14.989	0.295901	1
PITG_08179	Pi ATP-binding Cassette (ABC) Superfamily (4661 nt)	-16.4493	-0.14249	1
PITG_08351	Pi conserved hypothetical protein (1707 nt)	-15.772	0.531749	1
PITG_08373	Pi serine hydrolase (FSH1)-like protein, putative (687 nt)	-15.9113	0.401763	1
PITG_08586	Pi conserved hypothetical protein (1322 nt)	-15.9157	0.090997	1
PITG_08747	Pi Mitochondrial Carrier (MC) Family (3855 nt)	-16.5347	-0.47105	1
PITG_08960	Pi myb-like DNA-binding protein, putative (1198 nt)	-16.4106	-0.29088	1
PITG_08997	Pi ATP-dependent RNA helicase DBP5, putative (1507 nt)	-14.989	0.295901	1
PITG_09041	Pi conserved hypothetical protein (1113 nt)	-16.3134	-0.41367	1
PITG_09092	Pi nucleoside diphosphate kinase, putative (7716 nt)	-15.1812	-0.09451	1
PITG_09301	Pi conserved hypothetical protein (597 nt)	-15.7789	-0.31891	1
PITG_09404	Pi myosin-like protein (4883 nt)	-14.15	-0.14254	1
PITG_09703	Pi unc-45 family protein (3219 nt)	-16.4129	-0.64489	1
PITG_09900	Pi 2Fe-2S ferredoxin, putative (545 nt)	-16.3121	-0.41621	1
PITG_09949	Pi conserved hypothetical protein (798 nt)	-14.3665	0.181435	1
PITG_10186	Pi cell division control protein 45 (2414 nt)	-16.2821	-0.19294	1
PITG_10271	Pi conserved hypothetical protein (948 nt)	-16.2635	-0.51484	1
PITG_10450	Pi protein kinase, putative (1742 nt)	-15.1258	0.014614	1
PITG_10516	Pi tryptophanyl-tRNA synthetase (1319 nt)	-16.0185	-0.16112	1
PITG_10544	Pi putative GPI-anchored acidic protein (979 nt)	-15.9614	-0.22164	1
PITG_10784	Pi conserved hypothetical protein (777 nt)	-16.0037	-0.19018	1
PITG_10881	Pi kinesin-like protein (2499 nt)	-15.5015	-0.15787	1
PITG_10896	Pi conserved hypothetical protein (1747 nt)	-16.0639	0.703699	1
PITG_10973	Pi conserved hypothetical protein (3557 nt)	-15.7651	0.031164	1
PITG_11057	Pi conserved hypothetical protein (2809 nt)	-16.4667	-0.67533	1
PITG_11121	Pi ATP-binding Cassette (ABC) Superfamily (3240 nt)	-16.6567	-0.75865	1
PITG_11129	Pi conserved hypothetical protein (973 nt)	-15.6374	-0.14367	1
PITG_11366	Pi F-actin-capping protein subunit beta, putative (867 nt)	-15.7085	0.339781	1
PITG_12220	Pi methionine aminopeptidase, putative (1137 nt)	-15.8647	-0.00351	1
PITG_12229	Pi DNA repair endonuclease XPF, putative (2919 nt)	-16.5347	-0.47105	1
PITG_12683	Pi conserved hypothetical protein (994 nt)	-16.1767	-0.09527	1
PITG_13029	Pi conserved hypothetical protein (10246 nt)	-15.427	0.094102	1



PITG_13040	Pi conserved hypothetical protein (2508 nt)	-16.4337	-0.11115	1
PITG_13240	Pi conserved hypothetical protein (612 nt)	-16.315	0.126147	1
PITG_13353	Pi hypothetical protein (375 nt)	-15.6057	0.16025	1
PITG_14089	Pi conserved hypothetical protein (1683 nt)	-15.5238	-0.09086	1
PITG_14223	Pi conserved hypothetical protein (723 nt)	-15.9216	-0.30342	1
PITG_14397	Pi proliferating cell nuclear antigen (1096 nt)	-13.8647	-0.19176	1
PITG_14593	Pi conserved hypothetical protein (1536 nt)	-15.8304	0.414975	1
PITG_14625	Pi methylosome protein 50, putative (998 nt)	-16.3644	-0.12275	1
PITG_14744	Pi conserved hypothetical protein (1670 nt)	-16.4041	-0.04079	1
PITG_14918	Pi riboflavin biosynthesis protein ribBA, putative (1193 nt)	-16.3817	-0.21502	1
PITG_15322	Pi conserved hypothetical protein (1048 nt)	-16.4384	-0.6637	1
PITG_15564	Pi conserved hypothetical protein (2655 nt)	-15.5674	-0.06875	1
PITG_15648	Pi conserved hypothetical protein (1335 nt)	-16.3811	-0.00256	1
PITG_16014	Pi conserved hypothetical protein (2154 nt)	-16.4041	-0.04079	1
PITG_16129	Pi conserved hypothetical protein (560 nt)	-15.8929	-0.59438	1
PITG_16683	Pi transmembrane protein, putative (2070 nt)	-15.7131	0.495193	1
PITG_16734	Pi protein kinase (1372 nt)	-16.4337	-0.11115	1
PITG_16807	Pi 3-hydroxy-3-methylglutaryl-coenzyme A reductase, putative (1127 nt)	-16.2542	-0.10892	1
PITG_16890	Pi conserved hypothetical protein (1127 nt)	-15.7275	-0.03249	1
PITG_16920	Pi conserved hypothetical protein (1662 nt)	-16.2545	-0.46982	1
PITG_17127	Pi copper-transporting ATPase, putative (3363 nt)	-16.0823	0.383725	1
PITG_17128	Pi conserved hypothetical protein (1338 nt)	-16.1461	0.313954	1
PITG_17481	Pi conserved hypothetical protein (1544 nt)	-16.4671	-0.17181	1
PITG_17485	Pi conserved hypothetical protein (1744 nt)	-15.7586	-0.5188	1
PITG_17583	Pi protein kinase (1911 nt)	-16.4106	-0.29088	1
PITG_17745	Pi inositol hexakisphosphate and diphosphoinositol-pentakisphosphate 3-kinase, putative (1127 nt)	-15.4703	-0.30508	1
PITG_18047	Pi hypothetical protein (543 nt)	-14.5207	0.33142	1
PITG_18091	Pi structural maintenance of chromosomes protein, putative (1127 nt)	-15.7789	-0.31891	1
PITG_18314	Pi mitochondrial 2-oxoglutarate/malate carrier protein, putative (1127 nt)	-15.9754	0.168447	1
PITG_18538	Pi 3-isopropylmalate dehydratase large subunit, putative (2124 nt)	-16.0299	-0.32589	1
PITG_18641	Pi conserved hypothetical protein (3909 nt)	-15.4801	-0.01213	1
PITG_18935	Pi dihydrolipoyl dehydrogenase 1, mitochondrial precursor (1127 nt)	-16.4337	-0.11115	1
PITG_19257	Pi calcineurin-like phosphoesterase, putative (4209 nt)	-15.9508	0.311462	1
PITG_19383	Pi conserved hypothetical protein (927 nt)	-16.5847	-0.22301	1
PITG_19769	Pi conserved hypothetical protein (384 nt)	-15.4703	0.027815	1
PITG_19771	Pi mitochondrial inner membrane protease subunit 1, putative (1127 nt)	-16.0464	-0.05355	1
PITG_20032	Pi conserved hypothetical protein (2200 nt)	-15.6484	0.050961	1
PITG_20463	Pi vacuolar protein sorting-associated protein 33A, putative (1127 nt)	-15.4021	-0.16864	1
PITG_20683	Pi conserved hypothetical protein (855 nt)	-16.15	-0.26083	1
PITG_20893	Pi conserved hypothetical protein (1325 nt)	-15.4316	0.029429	1
PITG_20895	Pi beta-glucan synthesis-associated protein, putative (2253 nt)	-16.3999	0.181627	1
PITG_21600	Pi conserved hypothetical protein (1281 nt)	-15.7789	-0.31891	1
PITG_21848	Pi conserved hypothetical protein (413 nt)	-14.9272	-0.18765	1
PITG_22585	Pi conserved hypothetical protein (980 nt)	-15.9474	0.016136	1
PITG_00035	Pi 60S ribosomal export protein NMD3, putative (1739 nt)	-16.1257	0.105519	1
PITG_00043	Pi conserved hypothetical protein (2137 nt)	-16.4185	-0.07833	1
PITG_00077	Pi ubiquitin-specific protease, putative (4536 nt)	-15.766	-0.34616	1

PITG_00090	Pi vacuolar sorting protein SNF8 (980 nt)	-15.2305	-0.18825	1
PITG_00235	Pi hypothetical protein (307 nt)	-13.8509	0.01483	1
PITG_00348	Pi myosin-like protein (4175 nt)	-15.0337	-0.34634	1
PITG_00410	Pi bystin (1269 nt)	-16.2634	0.023008	1
PITG_00413	Pi Proton-dependent Oligopeptide Transporter (POT) Family	-15.0321	-0.28014	1
PITG_00421	Pi conserved hypothetical protein (5341 nt)	-16.1848	-0.19133	1
PITG_00454	Pi RCC1 and BTB domain-containing protein, putative (2669 nt)	-15.2083	-0.21533	1
PITG_00771	Pi conserved hypothetical protein (664 nt)	-16.8103	-0.44668	1
PITG_00857	Pi conserved hypothetical protein (559 nt)	-13.0051	-0.05881	1
PITG_00961	Pi conserved hypothetical protein (551 nt)	-15.3144	0.031867	1
PITG_01180	Pi cell division protein ftsZ (1445 nt)	-16.0647	0.088087	1
PITG_01247	Pi conserved hypothetical protein (1880 nt)	-16.7521	-0.56272	1
PITG_01317	Pi conserved hypothetical protein (3915 nt)	-15.2273	0.218795	1
PITG_01412	Pi Mitochondrial Tricarboxylate Carrier (MTC) Family (1008 nt)	-16.0055	-0.1352	1
PITG_01577	Pi conserved hypothetical protein (1007 nt)	-13.5752	0.081549	1
PITG_01862	Pi glucose-6-phosphate isomerase (1997 nt)	-12.5908	-0.08861	1
PITG_01930	Pi conserved hypothetical protein (2747 nt)	-16.0364	-0.07185	1
PITG_01997	Pi dynein 1 light intermediate chain, putative (1884 nt)	-14.6199	-0.28273	1
PITG_02002	Pi enhancer of mRNA-decapping protein, putative (3427 nt)	-15.7941	-0.144	1
PITG_02035	Pi conserved hypothetical protein (1584 nt)	-15.4441	-0.04499	1
PITG_02114	Pi aspartyl aminopeptidase, putative (1389 nt)	-14.6626	-0.01696	1
PITG_02427	Pi conserved hypothetical protein (1639 nt)	-15.7613	-0.20964	1
PITG_02432	Pi dolichyl-P-Man:Man(5)GlcNAc(2)-PP-dolichyl mannosyltra	-14.9949	-0.12075	1
PITG_02442	Pi cysteine protease family C02, putative (4133 nt)	-15.9704	0.060147	1
PITG_02495	Pi phosphatidylinositol kinase (PIK-L4) (9150 nt)	-16.1848	-0.19133	1
PITG_02561	Pi ubiquitin-specific protease, putative (8027 nt)	-15.3926	-0.14777	1
PITG_02586	Pi conserved hypothetical protein (5388 nt)	-14.4343	-0.12303	1
PITG_02661	Pi conserved hypothetical protein (2055 nt)	-15.539	-0.12555	1
PITG_02711	Pi oligopeptidase A, putative (2519 nt)	-15.9792	0.080807	1
PITG_02738	Pi hypothetical protein (729 nt)	-15.9928	0.557051	1
PITG_02739	Pi conserved hypothetical protein (1730 nt)	-15.0371	0.033306	1
PITG_02776	Pi multiple inositol polyphosphate phosphatase, putative (15	-16.1964	0.024067	1
PITG_02968	Pi choline dehydrogenase, putative (1861 nt)	-15.6905	-0.03114	1
PITG_03005	Pi conserved hypothetical protein (585 nt)	-13.9602	-0.05664	1
PITG_03236	Pi conserved hypothetical protein (2373 nt)	-15.8912	-0.46942	1
PITG_03285	Pi hypothetical protein (501 nt)	-16.6686	-0.81342	1
PITG_03317	Pi conserved hypothetical protein (904 nt)	-16.3338	-0.31074	1
PITG_03330	Pi conserved hypothetical protein (567 nt)	-15.2696	0.227421	1
PITG_03390	Pi WD domain-containing protein, putative (1154 nt)	-16.2891	-0.40001	1
PITG_03405	Pi conserved hypothetical protein (2472 nt)	-15.7854	0.282399	1
PITG_03464	Pi aldehyde dehydrogenase, putative (4060 nt)	-14.2754	-0.14425	1
PITG_03651	Pi phospholipase D, Pi-PXPH-PLD (3513 nt)	-15.002	0.262204	1
PITG_03672	Pi RIO kinase (1579 nt)	-14.9736	-0.00424	1
PITG_03769	Pi hypothetical protein (713 nt)	-15.5427	-0.16038	1
PITG_03909	Pi thioredoxin-like protein (2815 nt)	-15.2235	-0.0807	1
PITG_04679	Pi conserved hypothetical protein (796 nt)	-14.7518	0.22737	1
PITG_04709	Pi DNA ligase, putative (12166 nt)	-15.6977	-0.19481	1

PITG_05174	Pi conserved hypothetical protein (627 nt)	-13.7518	0.197415	1
PITG_05188	Pi conserved hypothetical protein (693 nt)	-15.9597	0.090082	1
PITG_05192	Pi conserved hypothetical protein (3165 nt)	-15.9263	0.023221	1
PITG_05353	Pi HSF-type DNA-binding protein, putative (1950 nt)	-15.8912	-0.46942	1
PITG_05405	Pi arginyl-tRNA synthetase, putative (2477 nt)	-15.5846	0.275156	1
PITG_05635	Pi conserved hypothetical protein (1845 nt)	-15.7419	0.238114	1
PITG_06048	Pi eukaryotic initiation factor 4A-III, putative (1420 nt)	-15.2183	0.014971	1
PITG_06282	Pi ubiquitin-specific protease, putative (1536 nt)	-15.6363	-0.41961	1
PITG_06283	Pi beta-catenin-like protein (1851 nt)	-15.9263	0.023221	1
PITG_06437	Pi enoyl-CoA hydratase/isomerase family, putative (871 nt)	-15.8675	-0.29648	1
PITG_06821	Pi eukaryotic initiation factor 4E, putative (1997 nt)	-15.4902	-0.03237	1
PITG_06924	Pi conserved hypothetical protein (3833 nt)	-15.7556	0.498467	1
PITG_06945	Pi conserved hypothetical protein (3461 nt)	-16.1848	-0.19133	1
PITG_07035	Pi CDK5 regulatory subunit-associated protein 1 (1875 nt)	-15.8553	0.16528	1
PITG_07063	Pi conserved hypothetical protein (1003 nt)	-16.0544	-0.19597	1
PITG_07135	Pi conserved hypothetical protein (771 nt)	-16.2924	-0.03383	1
PITG_07858	Pi conserved hypothetical protein (1124 nt)	-16.2817	0.25807	1
PITG_08043	Pi conserved hypothetical protein (2615 nt)	-13.4675	-0.05607	1
PITG_08087	Pi RNA polymerase II-associated protein 1, putative (3535 nt)	-16.2891	-0.40001	1
PITG_08293	Pi conserved hypothetical protein (404 nt)	-15.7246	0.037216	1
PITG_08324	Pi conserved hypothetical protein (1028 nt)	-14.9691	-0.13308	1
PITG_08386	Pi hypothetical protein (516 nt)	-15.8831	-0.06313	1
PITG_08570	Pi serine protease family S28, putative (1710 nt)	-14.9715	-0.22969	1
PITG_08589	Pi hypothetical protein (1624 nt)	-15.3339	-0.07834	1
PITG_08762	Pi conserved hypothetical protein (397 nt)	-13.9083	0.082503	1
PITG_08927	Pi conserved hypothetical protein (657 nt)	-16.4652	0.247016	1
PITG_09243	Pi rRNA methyltransferase, putative (1370 nt)	-14.7895	0.285222	1
PITG_09250	Pi transmembrane protein, putative (3761 nt)	-15.7854	0.282399	1
PITG_09564	Pi vacuolar protein sorting-associated protein 41 (3598 nt)	-15.2235	-0.0807	1
PITG_09581	Pi conserved hypothetical protein (3463 nt)	-15.9213	-0.41106	1
PITG_09587	Pi mannose-P-dolichol utilization defect 1 protein (879 nt)	-15.5846	0.275156	1
PITG_10122	Pi Drug/Metabolite Transporter (DMT) Superfamily (1015 nt)	-16.281	-0.54166	1
PITG_10591	Pi conserved hypothetical protein (2555 nt)	-16.0016	0.173791	1
PITG_10629	Pi conserved hypothetical protein (2612 nt)	-15.8381	0.346437	1
PITG_10816	Pi conserved hypothetical protein (867 nt)	-16.3341	-0.00714	1
PITG_10977	Pi flavin-binding monooxygenase-like protein (1563 nt)	-16.4564	-0.69703	1
PITG_10986	Pi nuclear transcription factor Y subunit, putative (998 nt)	-15.3494	0.310656	1
PITG_11035	Pi transmembrane protein, putative (1622 nt)	-16.2079	-0.56244	1
PITG_11221	Pi conserved hypothetical protein (1878 nt)	-16.3182	-0.28084	1
PITG_11234	Pi conserved hypothetical protein (2060 nt)	-16.1072	0.124512	1
PITG_11555	Pi conserved hypothetical protein (960 nt)	-15.9843	-0.07021	1
PITG_11586	Pi conserved hypothetical protein (456 nt)	-14.8476	0.037437	1
PITG_11765	Pi conserved hypothetical protein (5055 nt)	-15.6977	-0.19481	1
PITG_11782	Pi calcium-binding protein, putative (3317 nt)	-14.4908	0.201404	1
PITG_11980	Pi conserved hypothetical protein (1370 nt)	-14.7169	-0.06215	1
PITG_12346	Pi DNA replication licensing factor MCM3 (2717 nt)	-15.9533	0.451574	1
PITG_12519	Pi conserved hypothetical protein (890 nt)	-16.4652	0.247016	1

PITG_12530	Pi conserved hypothetical protein (2579 nt)	-15.3567	-0.33792	1
PITG_12901	Pi conserved hypothetical protein (926 nt)	-16.2279	0.52811	1
PITG_13044	Pi secreted RxLR effector peptide, putative (756 nt)	-14.7475	0.016767	1
PITG_13257	Pi peroxisomal hydratase-dehydrogenase-epimerase, putative (2227 nt)	-14.6599	-0.07343	1
PITG_13460	Pi conserved hypothetical protein (2227 nt)	-15.6338	-0.18867	1
PITG_13721	Pi alpha,alpha-trehalose-phosphate synthase [UDP-forming], putative (2227 nt)	-15.412	-0.18856	1
PITG_13745	Pi vacuolar protein sorting-associated protein, putative (360 nt)	-14.9706	-0.36934	1
PITG_14008	Pi conserved hypothetical protein (1706 nt)	-13.5755	-0.10995	1
PITG_14126	Pi potential polyprotein (1978 nt)	-12.3854	0.047474	1
PITG_14393	Pi calcium/calmodulin-dependent protein kinase, putative (2227 nt)	-16.6686	-0.81342	1
PITG_14640	Pi conserved hypothetical protein (3660 nt)	-15.3053	-0.14969	1
PITG_14703	Pi calcium-dependent protein kinase, putative (1977 nt)	-16.1406	-0.28016	1
PITG_14712	Pi cell division protease ftsH (1401 nt)	-15.2014	0.058169	1
PITG_15091	Pi conserved hypothetical protein (1136 nt)	-15.8823	-0.27138	1
PITG_15101	Pi conserved hypothetical protein (665 nt)	-15.4415	-0.03414	1
PITG_15446	Pi conserved hypothetical protein (559 nt)	-16.1389	0.079169	1
PITG_15509	Pi SNF2 family helicase/ATPase and F-box protein, putative (1136 nt)	-16.3305	-0.44345	1
PITG_15666	Pi conserved hypothetical protein (895 nt)	-14.8321	-0.08424	1
PITG_15739	Pi protein MYG1 (1098 nt)	-15.9552	0.128796	1
PITG_15762	Pi conserved hypothetical protein (2506 nt)	-15.8775	-0.17275	1
PITG_15889	Pi serine protease family S54, putative (1226 nt)	-15.9627	-0.05536	1
PITG_16010	Pi conserved hypothetical protein (1197 nt)	-15.7805	-0.07445	1
PITG_16132	Pi phosphatidylinositol phosphatase SAC1 (2322 nt)	-16.1288	-0.24553	1
PITG_17022	Pi UDP-N-acetylglucosamine-dolichyl-phosphate N-acetylglucosyltransferase (1197 nt)	-15.2717	0.01563	1
PITG_17074	Pi 3-demethylubiquinone-9 3-methyltransferase, putative (1197 nt)	-14.7642	-0.15721	1
PITG_17106	Pi conserved hypothetical protein (825 nt)	-15.445	0.327666	1
PITG_17165	Pi peptidyl-prolyl cis-trans isomerase E (675 nt)	-15.5235	-0.37162	1
PITG_17407	Pi Poly(A) polymerase beta (2210 nt)	-15.8912	-0.46942	1
PITG_17457	Pi conserved hypothetical protein (5056 nt)	-14.0666	0.180046	1
PITG_17550	Pi serine protease family S09A, putative (2451 nt)	-16.3978	-0.2458	1
PITG_18034	Pi conserved hypothetical protein (2719 nt)	-16.2853	-0.40658	1
PITG_18227	Pi conserved hypothetical protein (1032 nt)	-15.956	-0.12414	1
PITG_18322	Pi hypothetical protein (4169 nt)	-15.3144	-0.16801	1
PITG_18360	Pi cAMP-dependent protein kinase regulatory subunit, putative (1032 nt)	-13.6246	-0.02823	1
PITG_18747	Pi GlcNac transferase (1678 nt)	-15.2873	0.16277	1
PITG_18975	Pi conserved hypothetical protein (599 nt)	-15.7419	0.238114	1
PITG_19148	Pi conserved hypothetical protein (798 nt)	-16.1848	-0.19133	1
PITG_19995	Pi conserved hypothetical protein (983 nt)	-16.2864	-0.04892	1
PITG_21466	Pi conserved hypothetical protein (485 nt)	-16.3978	-0.2458	1
PITG_21495	Pi hypothetical protein (743 nt)	-15.956	-0.12414	1
PITG_21571	Pi conserved hypothetical protein (1127 nt)	-16.16	-0.42484	1
PITG_21873	Pi conserved hypothetical protein (945 nt)	-14.6094	-0.15078	1
PITG_22419	Pi hypothetical protein (461 nt)	-15.911	0.088084	1
PITG_00037	Pi conserved hypothetical protein (1307 nt)	-15.7826	-0.16941	1
PITG_00039	Pi telomere length regulation protein TEL2 (2330 nt)	-16.2241	-0.59373	1
PITG_00042	Pi conserved hypothetical protein (362 nt)	-15.0638	-0.00635	1
PITG_00080	Pi protein kinase (1285 nt)	-16.352	-0.3987	1

PITG_00175	Pi conserved hypothetical protein (1993 nt)	-14.5923	0.033542	1
PITG_00183	Pi dynamin-2 (2133 nt)	-13.7979	0.036652	1
PITG_00192	Pi conserved hypothetical protein (2269 nt)	-16.1489	0.099908	1
PITG_00220	Pi general transcription factor IIH subunit, putative (960 nt)	-15.5037	-0.32142	1
PITG_00227	Pi DEAD/DEAH box RNA helicase, putative (2079 nt)	-16.1007	0.054902	1
PITG_00282	Pi conserved hypothetical protein (678 nt)	-15.8339	-0.37334	1
PITG_00293	Pi conserved hypothetical protein (378 nt)	-13.1024	0.110873	1
PITG_00294	Pi carbohydrate esterase, putative (1017 nt)	-15.8362	-0.25386	1
PITG_00295	Pi conserved hypothetical protein (1460 nt)	-14.581	0.214862	1
PITG_00300	Pi 3-oxoacyl-[acyl-carrier-protein] synthase, mitochondrial pi	-15.1616	-0.05437	1
PITG_00309	Pi conserved hypothetical protein (1417 nt)	-15.4134	-0.1856	1
PITG_00323	Pi conserved hypothetical protein (3543 nt)	-15.6607	-0.00945	1
PITG_00349	Pi conserved hypothetical protein (1615 nt)	-14.8128	0.232564	1
PITG_00369	Pi conserved hypothetical protein (2439 nt)	-16.1315	-0.35389	1
PITG_00401	Pi ribosome maturation protein SBDS, putative (1127 nt)	-14.0711	-0.21942	1
PITG_00444	Pi conserved hypothetical protein (3254 nt)	-15.2484	-0.1362	1
PITG_00456	Pi conserved hypothetical protein (736 nt)	-14.3719	0.043378	1
PITG_00458	Pi dihydrolipoyllysine-residue acetyltransferase component c	-14.4538	0.284047	1
PITG_00509	Pi conserved hypothetical protein (1200 nt)	-15.8318	0.118633	1
PITG_00524	Pi conserved hypothetical protein (2049 nt)	-15.7551	-0.17524	1
PITG_00525	Pi protein kinase, putative (2482 nt)	-13.6723	0.215235	1
PITG_00550	Pi conserved hypothetical protein (846 nt)	-13.0223	0.11113	1
PITG_00555	Pi conserved hypothetical protein (1105 nt)	-16.6012	-0.26601	1
PITG_00561	Pi ubiquinone biosynthesis protein COQ9 (1245 nt)	-14.2762	-0.16882	1
PITG_00566	Pi uroporphyrinogen decarboxylase, putative (1407 nt)	-14.6989	-0.15128	1
PITG_00570	Pi phosphatidylserine synthase, putative (1368 nt)	-16.4408	-0.22109	1
PITG_00572	Pi conserved hypothetical protein (700 nt)	-15.9635	-0.05256	1
PITG_00573	Pi tyrosine-protein phosphatase, putative (577 nt)	-14.8182	0.086307	1
PITG_00574	Pi endonuclease III-like, HhH-GPD superfamily base excision	-14.9467	0.122724	1
PITG_00593	Pi monooxygenase, putative (665 nt)	-12.3496	0.015521	1
PITG_00665	Pi conserved hypothetical protein (1144 nt)	-14.6836	-0.18138	1
PITG_00676	Pi transcription factor (2527 nt)	-13.7691	0.123292	1
PITG_00681	Pi Rab1 family GTPase, putative (1353 nt)	-13.1343	-0.03034	1
PITG_00713	Pi synaptic vesicle glycoprotein 2A, putative (1791 nt)	-15.6986	0.384982	1
PITG_00748	Pi conserved hypothetical protein (6289 nt)	-15.6501	0.40777	1
PITG_00765	Pi flagellar adenylate kinase (844 nt)	-13.269	-0.12922	1
PITG_00778	Pi conserved hypothetical protein (819 nt)	-15.7761	0.265201	1
PITG_00818	Pi conserved hypothetical protein (4546 nt)	-16.1239	-0.37	1
PITG_00874	Pi carbohydrate-binding protein, putative (1714 nt)	-16.4086	-0.65015	1
PITG_00914	Pi nuclear transcription factor Y subunit, putative (737 nt)	-12.6502	0.008777	1
PITG_00991	Pi Amino Acid-Polyamine-Organocation (APC) Family (1419 r	-16.1164	-0.01791	1
PITG_00998	Pi dynein heavy chain (12571 nt)	-16.3735	0.185886	1
PITG_01019	Pi U3 small nucleolar RNA-associated protein, putative (2838	-16.2396	-0.08153	1
PITG_01030	Pi SWI4 1, Peter Pan-like protein suppressor (1480 nt)	-15.9673	-0.21161	1
PITG_01033	Pi Cation Diffusion Facilitator (CDF) Family (1967 nt)	-15.8345	-0.20826	1
PITG_01045	Pi tRNA pseudouridine synthase D (TruD), putative (2468 nt)	-15.7487	-0.23706	1
PITG_01048	Pi conserved hypothetical protein (990 nt)	-14.5899	0.073231	1

PITG_01058	Pi conserved hypothetical protein (1365 nt)	-15.5458	0.040599	1
PITG_01085	Pi conserved hypothetical protein (411 nt)	-15.7895	-0.40109	1
PITG_01090	Pi 2Fe-2S ferredoxin, putative (1203 nt)	-13.5757	0.170558	1
PITG_01102	Pi conserved hypothetical protein (1174 nt)	-15.5627	0.113204	1
PITG_01108	Pi conserved hypothetical protein (1694 nt)	-15.2963	-0.1312	1
PITG_01111	Pi 12-oxophytodienoate reductase, putative (1437 nt)	-15.5586	-0.30258	1
PITG_01144	Pi conserved hypothetical protein (1097 nt)	-13.5974	0.13612	1
PITG_01174	Pi conserved hypothetical protein (2147 nt)	-15.9724	0.066134	1
PITG_01193	Pi aspartate aminotransferase, putative (3124 nt)	-15.1556	-0.21548	1
PITG_01235	Pi conserved hypothetical protein (1011 nt)	-15.9883	0.099683	1
PITG_01237	Pi conserved hypothetical protein (1026 nt)	-13.5594	-0.14533	1
PITG_01259	Pi nuclear pore complex protein, putative (7703 nt)	-16.1201	0.095413	1
PITG_01280	Pi conserved hypothetical protein (1041 nt)	-13.9791	-0.15173	1
PITG_01298	Pi conserved hypothetical protein (744 nt)	-15.7209	-0.00963	1
PITG_01324	Pi conserved hypothetical protein (2328 nt)	-16.6302	-0.28028	1
PITG_01336	Pi conserved hypothetical protein (1635 nt)	-13.9239	0.075019	1
PITG_01365	Pi protein kinase, putative (3470 nt)	-13.0169	-0.14609	1
PITG_01409	Pi conserved hypothetical protein (1197 nt)	-15.2469	0.047082	1
PITG_01417	Pi serine/threonine-protein phosphatase PP2A (960 nt)	-11.7099	-0.08876	1
PITG_01425	Pi coronin-like protein (3119 nt)	-16.6012	-0.26601	1
PITG_01427	Pi DEAD/DEAH box RNA helicase, putative (1695 nt)	-16.1813	-0.19813	1
PITG_01439	Pi conserved hypothetical protein (645 nt)	-15.2343	-0.0937	1
PITG_01451	Pi GPI ethanolamine phosphate transferase, putative (2934 nt)	-16.3777	-5.82E-05	1
PITG_01456	Pi histone acetyltransferase ESA1 (1913 nt)	-16.0669	-0.11914	1
PITG_01471	Pi beta-mannosidase, putative (2914 nt)	-16.7714	-0.60815	1
PITG_01499	Pi charged multivesicular body protein 5, putative (1054 nt)	-13.0541	0.117013	1
PITG_01502	Pi Cullin-associated NEDD8-dissociated protein, putative (43 nt)	-15.3611	0.23023	1
PITG_01527	Pi conserved hypothetical protein (1987 nt)	-15.9068	-0.06338	1
PITG_01583	Pi hypothetical protein (1278 nt)	-14.6919	-0.00925	1
PITG_01589	Pi conserved hypothetical protein (1385 nt)	-15.1873	-0.1876	1
PITG_01599	Pi coronin-like protein, putative (1952 nt)	-13.1134	-0.20636	1
PITG_01651	Pi conserved hypothetical protein (1088 nt)	-15.6822	-0.41518	1
PITG_01652	Pi conserved hypothetical protein (1419 nt)	-14.3751	0.20146	1
PITG_01653	Pi GPI-anchored wall transfer protein 1, putative (2235 nt)	-15.5966	-0.35281	1
PITG_01682	Pi conserved hypothetical protein (2160 nt)	-15.8237	0.102321	1
PITG_01710	Pi conserved hypothetical protein (2793 nt)	-16.1104	0.438676	1
PITG_01711	Pi anthranilate synthase component I, putative (1603 nt)	-15.4246	-0.16295	1
PITG_01721	Pi Drug/Metabolite Transporter (DMT) Superfamily (2757 nt)	-15.8237	0.102321	1
PITG_01728	Pi conserved hypothetical protein (1167 nt)	-14.1062	-0.1561	1
PITG_01738	Pi conserved hypothetical protein (1434 nt)	-14.961	-0.28274	1
PITG_01750	Pi RNA polymerase II-associated protein, putative (1572 nt)	-15.998	0.166521	1
PITG_01761	Pi proline oxidase, putative (1716 nt)	-13.8501	0.029364	1
PITG_01769	Pi chorismate synthase (1434 nt)	-15.8334	0.210962	1
PITG_01772	Pi conserved hypothetical protein (705 nt)	-14.8911	0.173482	1
PITG_01783	Pi acetyl-CoA acetyltransferase (2146 nt)	-13.2147	0.100303	1
PITG_01851	Pi homogentisate 1,2-dioxygenase (1839 nt)	-14.2346	-0.02098	1
PITG_01926	Pi conserved hypothetical protein (1931 nt)	-15.0766	-0.05267	1

PITG_01927	Pi conserved hypothetical protein (1050 nt)	-14.563	0.06448	1
PITG_01995	Pi hypothetical protein (138 nt)	-15.059	-0.25985	1
PITG_01999	Pi Voltage-gated Ion Channel (VIC) Superfamily (603 nt)	-15.6237	0.333757	1
PITG_02016	Pi integrator complex subunit, putative (7581 nt)	-16.2983	0.341425	1
PITG_02031	Pi conserved hypothetical protein (2128 nt)	-16.6957	-0.83911	1
PITG_02042	Pi serine/threonine-protein phosphatase 4 regulatory subun	-15.5616	-0.0091	1
PITG_02079	Pi conserved hypothetical protein (458 nt)	-14.8242	0.230304	1
PITG_02111	Pi conserved hypothetical protein (828 nt)	-16.7236	-0.25144	1
PITG_02115	Pi propionyl-CoA carboxylase beta chain, mitochondrial prec	-13.3567	-0.10438	1
PITG_02122	Pi glucosamine-fructose-6-phosphate aminotransferase [isor	-14.9125	0.19412	1
PITG_02135	Pi conserved hypothetical protein (1876 nt)	-15.4318	-0.3823	1
PITG_02137	Pi serine/threonine-protein phosphatase 2A 65 kDa regulato	-13.3922	0.044434	1
PITG_02138	Pi conserved hypothetical protein (1800 nt)	-16.4168	0.331617	1
PITG_02144	Pi conserved hypothetical protein (814 nt)	-15.1863	-0.00113	1
PITG_02146	Pi conserved hypothetical protein (4828 nt)	-15.4179	-0.09736	1
PITG_02178	Pi conserved hypothetical protein (1469 nt)	-13.9309	-0.17486	1
PITG_02196	Pi conserved hypothetical protein (1734 nt)	-14.8298	0.057743	1
PITG_02197	Pi DNA topoisomerase, putative (2392 nt)	-14.7864	-0.19979	1
PITG_02261	Pi C2 domain-containing protein, putative (742 nt)	-14.1686	0.056104	1
PITG_02286	Pi chromatin-remodeling complex ATPase chain, putative (48	-14.2143	0.153696	1
PITG_02338	Pi conserved hypothetical protein (671 nt)	-14.1413	0.061751	1
PITG_02347	Pi conserved hypothetical protein (1595 nt)	-14.8796	-0.38246	1
PITG_02349	Pi conserved hypothetical protein (1505 nt)	-14.777	0.162348	1
PITG_02371	Pi conserved hypothetical protein (2112 nt)	-14.8844	-0.11783	1
PITG_02391	Pi conserved hypothetical protein (1560 nt)	-15.5088	0.183007	1
PITG_02424	Pi aldo/keto reductase family (935 nt)	-14.9207	-0.20077	1
PITG_02448	Pi conserved hypothetical protein (378 nt)	-15.867	-0.14404	1
PITG_02452	Pi conserved hypothetical protein (587 nt)	-15.5033	0.072334	1
PITG_02454	Pi conserved hypothetical protein (2706 nt)	-15.8632	0.181413	1
PITG_02477	Pi conserved hypothetical protein (773 nt)	-16.1147	-0.44543	1
PITG_02483	Pi 3-ketodihydrosphingosine reductase, putative (1073 nt)	-12.2221	0.024532	1
PITG_02526	Pi dynein heavy chain (14109 nt)	-14.6491	0.153479	1
PITG_02540	Pi integrator complex subunit, putative (2317 nt)	-16.0477	-0.21123	1
PITG_02546	Pi ubiquitin carboxyl-terminal hydrolase, putative (2565 nt)	-15.3972	0.197473	1
PITG_02575	Pi alpha,alpha-trehalose-phosphate synthase [UDP-forming],	-14.8673	0.048721	1
PITG_02577	Pi conserved hypothetical protein (330 nt)	-15.1894	0.17218	1
PITG_02580	Pi conserved hypothetical protein (1599 nt)	-14.1467	0.096147	1
PITG_02585	Pi conserved hypothetical protein (1448 nt)	-15.3981	-0.29489	1
PITG_02591	Pi conserved hypothetical protein (1169 nt)	-14.0942	0.107555	1
PITG_02597	Pi DnaJ subfamily B protein (1362 nt)	-15.2451	-0.03732	1
PITG_02623	Pi aspartyl protease family A01B, putative (2187 nt)	-14.9003	-0.08641	1
PITG_02634	Pi conserved hypothetical protein (761 nt)	-13.2615	-0.00529	1
PITG_02688	Pi conserved hypothetical protein (394 nt)	-15.7918	-0.04966	1
PITG_02719	Pi conserved hypothetical protein (1040 nt)	-15.477	0.23094	1
PITG_02730	Pi conserved hypothetical protein (4085 nt)	-15.4292	-0.1148	1
PITG_02741	Pi glutaredoxin (527 nt)	-13.148	0.151555	1
PITG_02745	Pi casein kinase II subunit beta (1503 nt)	-12.5581	0.065678	1

PITG_02754	Pi conserved hypothetical protein (2880 nt)	-15.8059	0.111201	1
PITG_02755	Pi structural maintenance of chromosomes protein 5, putative	-14.3351	-0.03085	1
PITG_02799	Pi conserved hypothetical protein (4349 nt)	-16.2242	-0.11277	1
PITG_02807	Pi conserved hypothetical protein (1441 nt)	-13.8668	0.024516	1
PITG_02848	Pi conserved hypothetical protein (929 nt)	-16.1874	0.393864	1
PITG_02852	Pi aminoacylase, metalloprotease family M20A, putative (15	-15.2242	3.68E-05	1
PITG_02863	Pi conserved hypothetical protein (3013 nt)	-16.6186	-0.30433	1
PITG_02866	Pi conserved hypothetical protein (453 nt)	-14.6412	-0.17061	1
PITG_02945	Pi conserved hypothetical protein (1301 nt)	-15.45	-0.42884	1
PITG_02947	Pi conserved hypothetical protein (814 nt)	-15.5601	-0.16789	1
PITG_02980	Pi conserved hypothetical protein (899 nt)	-16.1164	-0.01791	1
PITG_03019	Pi conserved hypothetical protein (530 nt)	-16.6012	-0.26601	1
PITG_03031	Pi conserved hypothetical protein (6147 nt)	-16.3053	-0.43104	1
PITG_03044	Pi autophagy-related protein, putative (2441 nt)	-14.7104	-0.04935	1
PITG_03081	Pi 26S proteasome non-ATPase regulatory subunit 2 (3018 n	-12.7905	0.131691	1
PITG_03101	Pi conserved hypothetical protein (2590 nt)	-15.3925	0.175686	1
PITG_03127	Pi M96 mating-specific protein family (1130 nt)	-16.3644	-0.37444	1
PITG_03146	Pi conserved hypothetical protein (1749 nt)	-15.2139	-0.24205	1
PITG_03165	Pi conserved hypothetical protein (1050 nt)	-15.7398	-0.49825	1
PITG_03179	Pi conserved hypothetical protein (2544 nt)	-15.6384	-0.31361	1
PITG_03219	Pi geranylgeranyl transferase type-2 subunit beta (1074 nt)	-14.6275	0.056871	1
PITG_03292	Pi GTPase (1643 nt)	-16.9596	-0.92312	1
PITG_03303	Pi conserved hypothetical protein (877 nt)	-14.9531	-0.045	1
PITG_03305	Pi peptidase, putative (2045 nt)	-15.2673	0.00731	1
PITG_03351	Pi DNA mismatch repair protein Msh6, putative (3789 nt)	-16.3055	0.109587	1
PITG_03360	Pi AP-4 complex subunit epsilon, putative (3506 nt)	-14.0929	0.030332	1
PITG_03364	Pi RNA polymerase II-associated factor 1 (1975 nt)	-14.6441	-0.10486	1
PITG_03380	Pi conserved hypothetical protein (388 nt)	-14.1413	0.061751	1
PITG_03381	Pi ferric reductase, putative (2685 nt)	-16.4301	-0.68073	1
PITG_03386	Pi conserved hypothetical protein (726 nt)	-14.5878	0.244865	1
PITG_03391	Pi conserved hypothetical protein (608 nt)	-14.3852	0.044817	1
PITG_03397	Pi conserved hypothetical protein (1337 nt)	-15.4612	-0.45007	1
PITG_03401	Pi chromodomain-helicase-DNA-binding protein, putative (61	-15.6358	-0.32132	1
PITG_03413	Pi conserved hypothetical protein (549 nt)	-15.6854	-0.05492	1
PITG_03436	Pi conserved hypothetical protein (1394 nt)	-15.5001	0.066832	1
PITG_03445	Pi Holliday junction ATP-dependent DNA helicase ruvB (1488	-14.2568	0.067903	1
PITG_03483	Pi splicing factor U2af large subunit, putative (2239 nt)	-14.4697	-0.09777	1
PITG_03496	Pi conserved hypothetical protein (1386 nt)	-15.6033	0.371756	1
PITG_03497	Pi separin, putative (3167 nt)	-16.447	0.273057	1
PITG_03575	Pi anoctamin-like protein (2582 nt)	-14.6863	0.005183	1
PITG_03582	Pi serine protease family S01B, putative (1386 nt)	-13.7467	-0.02159	1
PITG_03604	Pi conserved hypothetical protein (3116 nt)	-15.312	-0.24771	1
PITG_03623	Pi conserved hypothetical protein (2473 nt)	-14.1532	-0.06122	1
PITG_03662	Pi calcineurin-like phosphoesterase, putative (1941 nt)	-16.441	-0.16136	1
PITG_03670	Pi conserved hypothetical protein (1686 nt)	-13.081	0.090669	1
PITG_03682	Pi conserved hypothetical protein (567 nt)	-15.5906	0.128875	1
PITG_03694	Pi disulfide-isomerase, putative (1427 nt)	-13.152	-0.14048	1



PITG_03696	Pi conserved hypothetical protein (2958 nt)	-14.8438	0.029269	1
PITG_03702	Pi conserved hypothetical protein (1477 nt)	-15.3195	-0.15775	1
PITG_03707	Pi voltage-gated potassium channel subunit beta-2 (1269 nt)	-16.4071	0.130514	1
PITG_03733	Pi conserved hypothetical protein (1473 nt)	-15.6582	-0.46492	1
PITG_03734	Pi conserved hypothetical protein (2353 nt)	-16.4809	-0.5114	1
PITG_03737	Pi conserved hypothetical protein (3007 nt)	-14.8065	-0.36791	1
PITG_03744	Pi conserved hypothetical protein (993 nt)	-14.7184	-0.2486	1
PITG_03759	Pi conserved hypothetical protein (1284 nt)	-15.5523	-0.03101	1
PITG_03781	Pi conserved hypothetical protein (906 nt)	-14.3185	-0.00672	1
PITG_03782	Pi conserved hypothetical protein (1064 nt)	-14.9085	-0.09919	1
PITG_03792	Pi 2,3-bisphosphoglycerate-independent phosphoglycerate r	-14.3147	-0.04615	1
PITG_03825	Pi myosin-like protein (2036 nt)	-15.2232	-0.00038	1
PITG_03837	Pi metalloprotease family M01, putative (2129 nt)	-15.8059	0.111201	1
PITG_03844	Pi conserved hypothetical protein (1746 nt)	-16.2079	-0.20173	1
PITG_03852	Pi Mitochondrial Protein Translocase (MPT) Family (729 nt)	-14.4467	0.171949	1
PITG_03874	Pi actin-like protein (1385 nt)	-14.9383	-0.35914	1
PITG_03879	Pi conserved hypothetical protein (8263 nt)	-16.8295	-0.49203	1
PITG_03885	Pi conserved hypothetical protein (2598 nt)	-16.523	-0.05962	1
PITG_03902	Pi conserved hypothetical protein (3060 nt)	-15.4027	-0.246	1
PITG_03903	Pi conserved hypothetical protein (4364 nt)	-15.597	-0.35164	1
PITG_03919	Pi ribokinase, putative (1104 nt)	-15.4764	0.265641	1
PITG_03932	Pi conserved hypothetical protein (1226 nt)	-14.8403	0.051625	1
PITG_03934	Pi protein kinase, putative (2694 nt)	-14.6782	0.013795	1
PITG_03938	Pi conserved hypothetical protein (2364 nt)	-14.6607	-0.07163	1
PITG_03944	Pi conserved hypothetical protein (4045 nt)	-15.1362	-0.00326	1
PITG_03959	Pi conserved hypothetical protein (3276 nt)	-15.7031	0.028794	1
PITG_03967	Pi conserved hypothetical protein (937 nt)	-15.3932	0.18926	1
PITG_03970	Pi conserved hypothetical protein (843 nt)	-16.4576	-0.55568	1
PITG_03987	Pi DEAD/DEAH box RNA helicase, putative (7605 nt)	-15.4822	0.13024	1
PITG_03992	Pi ribulose-phosphate 3-epimerase (753 nt)	-16.3216	0.334798	1
PITG_03993	Pi eukaryotic translation initiation factor 3 subunit H, putativ	-15.3002	-0.12471	1
PITG_04012	Pi elongator complex protein, putative (1256 nt)	-16.441	-0.16136	1
PITG_04105	Pi conserved hypothetical protein (1224 nt)	-15.9364	0.141727	1
PITG_04211	Pi conserved hypothetical protein (464 nt)	-14.2889	0.210316	1
PITG_04225	Pi geranylgeranyl transferase type-2 subunit alpha, putative	-14.032	-0.14451	1
PITG_04242	Pi phosphatase PTC7 family protein (2126 nt)	-14.955	0.109153	1
PITG_04248	Pi NPP1-like protein (760 nt)	-15.2823	0.150293	1
PITG_04428	Pi conserved hypothetical protein (1092 nt)	-16.0096	0.237109	1
PITG_04482	Pi Drug/Metabolite Transporter (DMT) Superfamily (938 nt)	-15.6175	-0.13795	1
PITG_04497	Pi conserved hypothetical protein (3049 nt)	-14.7878	0.000495	1
PITG_04529	Pi formin-homology 2 domain-containing protein (5847 nt)	-16.3046	-0.07579	1
PITG_04534	Pi vacuolar protein sorting-associated protein 28 (917 nt)	-13.3912	-0.01278	1
PITG_04539	Pi conserved hypothetical protein (1156 nt)	-13.7356	-0.03052	1
PITG_04576	Pi conserved hypothetical protein (528 nt)	-15.248	0.085658	1
PITG_04638	Pi conserved hypothetical protein (1703 nt)	-15.7221	0.156911	1
PITG_04670	Pi conserved hypothetical protein (2953 nt)	-15.7988	0.310319	1
PITG_04683	Pi bifunctional fold protein (897 nt)	-15.7187	0.191577	1

PITG_04695	Pi conserved hypothetical protein (1557 nt)	-15.7979	0.005999	1
PITG_04702	Pi conserved hypothetical protein (677 nt)	-13.9799	0.064026	1
PITG_04707	Pi conserved hypothetical protein (657 nt)	-14.766	0.061412	1
PITG_04717	Pi conserved hypothetical protein (1232 nt)	-15.2286	0.112608	1
PITG_04845	Pi conserved hypothetical protein (1298 nt)	-16.3439	0.127086	1
PITG_04851	Pi arginase (1366 nt)	-14.5571	-0.20119	1
PITG_04864	Pi conserved hypothetical protein (1203 nt)	-16.3894	0.157536	1
PITG_04892	Pi conserved hypothetical protein (838 nt)	-15.7005	0.349406	1
PITG_04905	Pi conserved hypothetical protein (1634 nt)	-14.3873	0.183902	1
PITG_04918	Pi alanyl-tRNA synthetase, putative (2754 nt)	-16.8295	-0.49203	1
PITG_04956	Pi conserved hypothetical protein (2657 nt)	-15.2609	-0.04048	1
PITG_04959	Pi conserved hypothetical protein (741 nt)	-14.7437	-0.11587	1
PITG_04991	Pi conserved hypothetical protein (1547 nt)	-16.1441	-0.09506	1
PITG_05071	Pi deoxyribose-phosphate aldolase 1 (485 nt)	-16.1627	0.074907	1
PITG_05127	Pi fatty acid desaturase, putative (1421 nt)	-15.4544	-0.45439	1
PITG_05197	Pi conserved hypothetical protein (2513 nt)	-16.1164	-0.01791	1
PITG_05221	Pi Mitochondrial Carrier (MC) Family (849 nt)	-15.3852	0.010067	1
PITG_05234	Pi conserved hypothetical protein (1855 nt)	-14.4006	-0.16818	1
PITG_05278	Pi conserved hypothetical protein (2856 nt)	-16.6957	-0.83911	1
PITG_05329	Pi conserved hypothetical protein (1933 nt)	-15.6327	0.088659	1
PITG_05332	Pi Voltage-gated Ion Channel (VIC) Superfamily (3165 nt)	-16.3055	0.109587	1
PITG_05358	Pi conserved hypothetical protein (3236 nt)	-16.552	0.061151	1
PITG_05366	Pi branchpoint-bridging protein, putative (1940 nt)	-14.5281	0.18965	1
PITG_05375	Pi conserved hypothetical protein (810 nt)	-14.7349	-0.15917	1
PITG_05396	Pi hypothetical protein (768 nt)	-15.1831	0.294897	1
PITG_05404	Pi conserved hypothetical protein (3297 nt)	-15.2941	-0.13533	1
PITG_05461	Pi mitotic spindle assembly checkpoint protein MAD1, putative (1764 nt)	-15.0288	-0.11511	1
PITG_05487	Pi cyclin-dependent kinase, putative (1764 nt)	-15.3955	-0.08113	1
PITG_05501	Pi Non-selective Cation Channel-2 (NSCC2) Family (1144 nt)	-13.4084	-0.0105	1
PITG_05503	Pi cyclin-C, putative (1179 nt)	-16.1267	0.003809	1
PITG_05507	Pi conserved hypothetical protein (2671 nt)	-15.9673	-0.21161	1
PITG_05509	Pi conserved hypothetical protein (3108 nt)	-15.2646	-0.06791	1
PITG_05520	Pi glutamine-dependent NAD(+) synthetase, putative (2148 nt)	-14.7395	0.161598	1
PITG_05536	Pi RNA pseudouridylate synthase, putative (2491 nt)	-16.2079	-0.20173	1
PITG_05540	Pi conserved hypothetical protein (824 nt)	-14.2496	0.041801	1
PITG_05564	Pi conserved hypothetical protein (1122 nt)	-15.8517	-0.12598	1
PITG_05592	Pi conserved hypothetical protein (1082 nt)	-14.2977	-0.1053	1
PITG_05594	Pi O-sialoglycoprotein endopeptidase, putative (5148 nt)	-16.2011	0.150085	1
PITG_05604	Pi conserved hypothetical protein (1808 nt)	-16.2619	0.209953	1
PITG_05622	Pi conserved hypothetical protein (1762 nt)	-14.7819	0.015188	1
PITG_05649	Pi glutamyl-tRNA synthetase, putative (2220 nt)	-15.8175	-0.1945	1
PITG_05660	Pi putative GPI-anchored serine rich tenascin-like glycoprotein (1770 nt)	-11.6883	-0.06176	1
PITG_05683	Pi conserved hypothetical protein (1770 nt)	-14.5361	0.053889	1
PITG_05685	Pi transcription elongation factor SPT5, putative (3647 nt)	-14.5535	0.138022	1
PITG_05692	Pi histone-lysine N-methyltransferase, putative (3130 nt)	-15.4184	0.03992	1
PITG_05705	Pi ATP-binding Cassette (ABC) Superfamily (3956 nt)	-15.2642	-0.22945	1
PITG_05737	Pi Transient Receptor Potential Ca <sup>2+</sup> Channel (TRP-CC) Family (1770 nt)	-14.996	0.104117	1

PITG_05752	Pi conserved hypothetical protein (1549 nt)	-16.4408	-0.22109	1
PITG_05760	Pi conserved hypothetical protein (1210 nt)	-15.7979	0.005999	1
PITG_05763	Pi conserved hypothetical protein (5005 nt)	-16.3286	-0.31998	1
PITG_05782	Pi conserved hypothetical protein (1220 nt)	-16.6957	-0.83911	1
PITG_05816	Pi conserved hypothetical protein (774 nt)	-15.5274	0.053793	1
PITG_05856	Pi conserved hypothetical protein (2438 nt)	-15.8668	0.143193	1
PITG_05861	Pi conserved hypothetical protein (1533 nt)	-14.0148	0.023271	1
PITG_05867	Pi sister chromatid cohesion protein DCC1, putative (1395 nt)	-15.5295	0.426522	1
PITG_05886	Pi peptidyl-prolyl cis-trans isomerase ppi1 (858 nt)	-14.4342	-0.08137	1
PITG_05907	Pi conserved hypothetical protein (572 nt)	-14.5197	-0.08799	1
PITG_05955	Pi serine protease family S09X, putative (1101 nt)	-14.9221	-0.19671	1
PITG_05992	Pi tetrapyrrole (Corrin/Porphyrin) Methylase, putative (919 r	-15.2385	0.065646	1
PITG_06015	Pi glucokinase, putative (1401 nt)	-13.2087	-0.00794	1
PITG_06101	Pi conserved hypothetical protein (1162 nt)	-15.0664	-0.10288	1
PITG_06165	Pi conserved hypothetical protein (1561 nt)	-15.814	-0.29849	1
PITG_06170	Pi conserved hypothetical protein (2517 nt)	-15.1378	-0.40699	1
PITG_06240	Pi conserved hypothetical protein (1690 nt)	-15.5376	-0.42558	1
PITG_06285	Pi conserved hypothetical protein (998 nt)	-15.3316	-0.21376	1
PITG_06332	Pi sugar transporter, putative (1545 nt)	-15.3128	0.383734	1
PITG_06342	Pi conserved hypothetical protein (4365 nt)	-15.1607	-0.0568	1
PITG_06346	Pi conserved hypothetical protein (1456 nt)	-16.4408	-0.22109	1
PITG_06353	Pi conserved hypothetical protein (1707 nt)	-15.767	-0.29532	1
PITG_06369	Pi myosin-like protein (840 nt)	-14.5342	-0.22565	1
PITG_06380	Pi conserved hypothetical protein (6592 nt)	-15.585	-0.3296	1
PITG_06384	Pi conserved hypothetical protein (868 nt)	-16.172	0.415969	1
PITG_06393	Pi hypothetical protein (2765 nt)	-16.1356	-0.40933	1
PITG_06429	Pi HECT E3 ubiquitin ligase, putative (14892 nt)	-14.9677	0.165104	1
PITG_06440	Pi eukaryotic translation initiation factor 2A, putative (2232 r	-15.2568	0.136071	1
PITG_06453	Pi conserved hypothetical protein (363 nt)	-14.3698	-0.14941	1
PITG_06539	Pi conserved hypothetical protein (540 nt)	-15.0889	0.004838	1
PITG_06574	Pi long-chain-fatty-acid-CoA ligase, putative (1887 nt)	-15.1615	0.047681	1
PITG_06657	Pi thioredoxin-like protein (1092 nt)	-13.7657	0.165147	1
PITG_06692	Pi serine protease family S09X, putative (1285 nt)	-14.6378	0.101291	1
PITG_06705	Pi conserved hypothetical protein (1633 nt)	-15.4668	-0.4776	1
PITG_06706	Pi conserved hypothetical protein (445 nt)	-15.1606	0.186248	1
PITG_06735	Pi conserved hypothetical protein (1696 nt)	-14.5671	-0.28488	1
PITG_06753	Pi paired amphipathic helix protein Sin3, putative (4834 nt)	-14.2647	-0.17174	1
PITG_06760	Pi conserved hypothetical protein (696 nt)	-13.8211	0.017085	1
PITG_06762	Pi conserved hypothetical protein (2014 nt)	-13.2958	-0.1349	1
PITG_06782	Pi serine protease family S33, putative (6984 nt)	-16.2396	-0.08153	1
PITG_06793	Pi conserved hypothetical protein (918 nt)	-15.4973	-0.25108	1
PITG_06818	Pi conserved hypothetical protein (1546 nt)	-15.6183	-0.05359	1
PITG_06828	Pi trehalose-phosphatase, putative (3522 nt)	-14.0117	0.15242	1
PITG_06832	Pi ubiquitin-specific protease, putative (5758 nt)	-15.7519	-0.32563	1
PITG_06852	Pi ATP-binding Cassette (ABC) Superfamily (1918 nt)	-14.4287	-0.07031	1
PITG_06877	Pi conserved hypothetical protein (2757 nt)	-15.0061	0.096092	1
PITG_06895	Pi conserved hypothetical protein (1823 nt)	-13.9287	0.004293	1

PITG_06899	Pi conserved hypothetical protein (2743 nt)	-15.6752	0.021448	1
PITG_06942	Pi conserved hypothetical protein (876 nt)	-15.45	-0.42884	1
PITG_06944	Pi conserved hypothetical protein (547 nt)	-15.6437	0.274673	1
PITG_06948	Pi ubiquitin-conjugating enzyme E2, putative (689 nt)	-13.5343	-0.0789	1
PITG_07028	Pi peptidyl-prolyl cis-trans isomerase, putative (867 nt)	-12.7698	0.137775	1
PITG_07036	Pi ubiquitin activating enzyme, E1 family, putative (3451 nt)	-14.171	-0.06149	1
PITG_07043	Pi conserved hypothetical protein (333 nt)	-14.358	0.179435	1
PITG_07053	Pi conserved hypothetical protein (2053 nt)	-13.8826	0.007974	1
PITG_07060	Pi hypothetical protein (943 nt)	-16.3403	-0.42214	1
PITG_07104	Pi ADP-ribosylation factor GTPase-activating protein, putativ	-15.7903	0.079464	1
PITG_07162	Pi sideroflexin-1-like protein (978 nt)	-14.5024	-0.05297	1
PITG_07164	Pi serine protease family S10, putative (1488 nt)	-14.7286	-0.00353	1
PITG_07174	Pi ribonuclease P protein subunit p30, putative (1028 nt)	-16.0281	0.127206	1
PITG_07176	Pi conserved hypothetical protein (1854 nt)	-16.8295	-0.49203	1
PITG_07194	Pi conserved hypothetical protein (3420 nt)	-15.2076	0.037624	1
PITG_07195	Pi AP-4 complex subunit sigma, putative (919 nt)	-13.5364	0.026626	1
PITG_07234	Pi ligatin, putative (1807 nt)	-15.2267	0.008868	1
PITG_07245	Pi conserved hypothetical protein (465 nt)	-16.1677	-0.03159	1
PITG_07247	Pi conserved hypothetical protein (4390 nt)	-15.3007	0.039069	1
PITG_07274	Pi mitogen-activated protein kinase (3258 nt)	-15.5012	-0.05011	1
PITG_07282	Pi WD domain-containing protein (1083 nt)	-15.8285	-0.07562	1
PITG_07338	Pi conserved hypothetical protein (1062 nt)	-14.8639	-0.21788	1
PITG_07354	Pi acylamino-acid-releasing enzyme (2435 nt)	-15.6679	-0.49355	1
PITG_07546	Pi replication protein A 32 kDa subunit, putative (780 nt)	-14.6318	0.042808	1
PITG_07570	Pi conserved hypothetical protein (666 nt)	-14.3709	-0.00115	1
PITG_07589	Pi conserved hypothetical protein (2082 nt)	-14.3423	0.266426	1
PITG_07655	Pi conserved hypothetical protein (12588 nt)	-15.1443	-0.27389	1
PITG_07661	Pi Major Facilitator Superfamily (MFS) (1689 nt)	-15.841	0.204359	1
PITG_07730	Pi conserved hypothetical protein (1130 nt)	-15.8576	-0.11412	1
PITG_07744	Pi DEAD/DEAH box RNA helicase, putative (4125 nt)	-15.998	0.166521	1
PITG_07807	Pi conserved hypothetical protein (1300 nt)	-12.6768	-0.12899	1
PITG_07809	Pi casein kinase I, putative (1634 nt)	-14.4962	-0.2526	1
PITG_07827	Pi conserved hypothetical protein (426 nt)	-12.3131	0.061783	1
PITG_07846	Pi glycylopeptide N-tetradecanoyltransferase 2 (1609 nt)	-13.0808	-0.18052	1
PITG_07902	Pi chromodomain protein, putative (1692 nt)	-16.2446	-0.1297	1
PITG_07948	Pi choline dehydrogenase, putative (2556 nt)	-15.3835	-0.03121	1
PITG_07976	Pi conserved hypothetical protein (1462 nt)	-14.3005	-0.06363	1
PITG_08003	Pi conserved hypothetical protein (939 nt)	-15.4155	-0.18133	1
PITG_08022	Pi threonine dehydratase, putative (2138 nt)	-15.501	-0.01018	1
PITG_08032	Pi P-type ATPase (P-ATPase) Superfamily (3892 nt)	-15.7	-0.09983	1
PITG_08035	Pi DNA repair protein radA (1626 nt)	-15.9332	0.139047	1
PITG_08136	Pi conserved hypothetical protein (1126 nt)	-14.541	-0.07249	1
PITG_08176	Pi conserved hypothetical protein (747 nt)	-16.4624	0.013324	1
PITG_08189	Pi pre-mRNA-splicing factor, Crooked neck-like protein (2214	-14.5922	-0.06067	1
PITG_08197	Pi mitochondrial intermediate peptidase, putative (2390 nt)	-15.5486	0.391018	1
PITG_08229	Pi conserved hypothetical protein (3037 nt)	-16.0264	-0.14491	1
PITG_08294	Pi hypothetical protein (513 nt)	-13.6741	0.21871	1

PITG_08303	Pi conserved hypothetical protein (627 nt)	-15.2424	0.006101	1
PITG_08348	Pi conserved hypothetical protein (1583 nt)	-15.8224	-0.1847	1
PITG_08368	Pi peptidyl-prolyl cis-trans isomerase-like protein (1620 nt)	-15.897	0.063045	1
PITG_08420	Pi metalloprotease family M76, putative (912 nt)	-14.965	-0.05119	1
PITG_08436	Pi conserved hypothetical protein (965 nt)	-16.202	-0.04084	1
PITG_08452	Pi conserved hypothetical protein (1493 nt)	-14.0577	-0.19056	1
PITG_08455	Pi conserved hypothetical protein (3744 nt)	-16.1573	-0.13	1
PITG_08462	Pi actin-related protein 2/3 complex subunit 3, putative (186	-13.035	-0.13834	1
PITG_08463	Pi coatomer subunit epsilon, putative (879 nt)	-14.9871	-0.28317	1
PITG_08495	Pi hypothetical protein (1083 nt)	-13.6665	-0.15269	1
PITG_08502	Pi conserved hypothetical protein (477 nt)	-16.206	-0.56498	1
PITG_08514	Pi conserved hypothetical protein (2772 nt)	-14.8699	-0.301	1
PITG_08566	Pi conserved hypothetical protein (964 nt)	-15.8066	0.252257	1
PITG_08587	Pi histone acetyltransferase, putative (3984 nt)	-15.7291	-0.08665	1
PITG_08643	Pi conserved hypothetical protein (1491 nt)	-15.5587	0.143742	1
PITG_08675	Pi conserved hypothetical protein (1420 nt)	-14.8154	-0.05482	1
PITG_08679	Pi oxidoreductase family, putative (1247 nt)	-14.5525	-0.26277	1
PITG_08686	Pi conserved hypothetical protein (1483 nt)	-15.932	-0.01688	1
PITG_08690	Pi conserved hypothetical protein (1245 nt)	-16.1902	-0.52903	1
PITG_08734	Pi Chloride Channel (ClC) Family (2874 nt)	-14.8339	-0.16152	1
PITG_08776	Pi conserved hypothetical protein (1862 nt)	-15.5143	-0.06384	1
PITG_08800	Pi conserved hypothetical protein (1140 nt)	-14.9244	0.353013	1
PITG_08827	Pi VAC14 family protein (2543 nt)	-15.8237	0.102321	1
PITG_08834	Pi ribosomal protein L37e, putative (1032 nt)	-8.6082	0.019038	1
PITG_08901	Pi protein kinase, putative (1572 nt)	-16.1172	-0.32642	1
PITG_08919	Pi conserved hypothetical protein (1520 nt)	-15.6182	-0.17061	1
PITG_08964	Pi Mitochondrial Carrier (MC) Family (1098 nt)	-15.2718	-0.08943	1
PITG_08967	Pi protein kinase, putative (1830 nt)	-16.8505	-0.53231	1
PITG_08980	Pi conserved hypothetical protein (1116 nt)	-14.0874	0.082885	1
PITG_08993	Pi conserved hypothetical protein (1098 nt)	-16.0984	-0.48403	1
PITG_08998	Pi endoglucanase, putative (1107 nt)	-15.6707	0.229224	1
PITG_09001	Pi conserved hypothetical protein (747 nt)	-14.3941	0.108361	1
PITG_09042	Pi DEAD/DEAH box RNA helicase, putative (3199 nt)	-16.4035	0.36521	1
PITG_09138	Pi conserved hypothetical protein (2648 nt)	-16.6957	-0.83911	1
PITG_09222	Pi conserved hypothetical protein (914 nt)	-15.6729	-0.48356	1
PITG_09241	Pi conserved hypothetical protein (927 nt)	-14.1098	0.172858	1
PITG_09244	Pi conserved hypothetical protein (3048 nt)	-15.2203	0.030169	1
PITG_09273	Pi AMP deaminase 2 (1375 nt)	-15.1629	0.121096	1
PITG_09393	Pi pyruvate kinase (1566 nt)	-14.6539	0.066432	1
PITG_09414	Pi conserved hypothetical protein (796 nt)	-16.3668	-0.1814	1
PITG_09422	Pi conserved hypothetical protein (1463 nt)	-16.6654	-0.36831	1
PITG_09439	Pi conserved hypothetical protein (1563 nt)	-14.8996	-0.05897	1
PITG_09442	Pi 40S ribosomal protein S21 (659 nt)	-8.74385	0.027899	1
PITG_09446	Pi conserved hypothetical protein (790 nt)	-14.3582	-0.08476	1
PITG_09448	Pi conserved hypothetical protein (2938 nt)	-16.4892	-0.41989	1
PITG_09456	Pi nitroreductase family, putative (844 nt)	-15.6487	-0.20342	1
PITG_09462	Pi conserved hypothetical protein (1397 nt)	-16.3289	0.096999	1

PITG_09475	Pi conserved hypothetical protein (818 nt)	-14.7584	0.067558	1
PITG_09507	Pi ADP-ribosylation factor-related protein, putative (938 nt)	-14.3337	-0.13377	1
PITG_09534	Pi conserved hypothetical protein (893 nt)	-15.8646	-0.10021	1
PITG_09535	Pi conserved hypothetical protein (1213 nt)	-16.0264	-0.14491	1
PITG_09536	Pi phosphoribosylaminoimidazole-succinocarboxamide synt	-15.7187	0.025993	1
PITG_09566	Pi inositol monophosphatase, putative (2768 nt)	-15.1409	-0.24594	1
PITG_09585	Pi secreted RxLR effector peptide, putative (1020 nt)	-15.6386	-0.26765	1
PITG_09620	Pi protein kinase (354 nt)	-15.3222	-0.15733	1
PITG_09625	Pi conserved hypothetical protein (1359 nt)	-16.1147	-0.44543	1
PITG_09629	Pi Rab32/38 family GTPase, putative (663 nt)	-13.7263	0.106881	1
PITG_09653	Pi U6 snRNA-associated Sm-like protein LSm4, putative (513	-13.5799	-0.13177	1
PITG_09671	Pi receptor-type tyrosine-protein phosphatase, putative (108	-15.714	-0.20771	1
PITG_09707	Pi mitochondrial import inner membrane translocase subuni	-15.2305	-0.06675	1
PITG_09714	Pi conserved hypothetical protein (1011 nt)	-17.0056	-0.82043	1
PITG_09725	Pi conserved hypothetical protein (1057 nt)	-14.5915	-0.11489	1
PITG_09737	Pi hypothetical protein (1053 nt)	-15.7492	-0.43258	1
PITG_09752	Pi conserved hypothetical protein (1140 nt)	-16.3364	-0.36698	1
PITG_09753	Pi conserved hypothetical protein (945 nt)	-15.8208	0.14057	1
PITG_09795	Pi conserved hypothetical protein (553 nt)	-13.9613	0.093591	1
PITG_09826	Pi conserved hypothetical protein (2803 nt)	-16.0149	0.051941	1
PITG_09862	Pi conserved hypothetical protein (2193 nt)	-14.0313	-0.05357	1
PITG_09876	Pi conserved hypothetical protein (4114 nt)	-15.9497	-0.19261	1
PITG_09899	Pi cleavage induced hypothetical protein (2638 nt)	-16.0324	-0.18617	1
PITG_09906	Pi arabinogalactan endo-1,4-beta-galactosidase, putative (10	-14.8605	-0.07779	1
PITG_09921	Pi conserved hypothetical protein (1779 nt)	-16.6957	-0.83911	1
PITG_09923	Pi 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase, pu	-15.1707	0.299855	1
PITG_09937	Pi dolichol-phosphate mannosyltransferase (1075 nt)	-14.5489	-0.14429	1
PITG_09964	Pi cellulose synthase 2 (3336 nt)	-11.9803	0.037867	1
PITG_09986	Pi conserved hypothetical protein (2917 nt)	-15.0407	0.194417	1
PITG_09996	Pi conserved hypothetical protein (720 nt)	-13.755	-0.14661	1
PITG_10023	Pi chromodomain protein, putative (1050 nt)	-15.1288	0.053721	1
PITG_10061	Pi regulator of chromosome condensation (RCC1), putative (	-14.7865	-0.0029	1
PITG_10062	Pi protein kinase, putative (2188 nt)	-16.0685	-0.06071	1
PITG_10068	Pi polycomb-like protein (3343 nt)	-15.5493	0.086151	1
PITG_10080	Pi uroporphyrinogen-III synthase, putative (874 nt)	-15.5433	0.213773	1
PITG_10120	Pi conserved hypothetical protein (1718 nt)	-16.7645	-0.54389	1
PITG_10134	Pi signal peptide peptidase-like, aspartyl protease family A22	-14.7953	0.068034	1
PITG_10163	Pi conserved hypothetical protein (2631 nt)	-15.1839	-0.07626	1
PITG_10167	Pi eukaryotic translation initiation factor 4 gamma 2, putativ	-14.8081	0.093793	1
PITG_10196	Pi conserved hypothetical protein (444 nt)	-14.9897	-0.03156	1
PITG_10314	Pi conserved hypothetical protein (1568 nt)	-16.0118	-0.17658	1
PITG_10388	Pi myosin-like protein (2458 nt)	-14.9485	0.038351	1
PITG_10393	Pi conserved hypothetical protein (522 nt)	-16.7714	-0.60815	1
PITG_10399	Pi glycoside hydrolase, putative (1473 nt)	-16.6957	-0.83911	1
PITG_10400	Pi conserved hypothetical protein (501 nt)	-14.9341	0.067565	1
PITG_10408	Pi SCP-like extracellular protein (612 nt)	-16.4241	-0.12923	1
PITG_10442	Pi conserved hypothetical protein (3895 nt)	-14.0432	-0.06905	1

PITG_10457	Pi RNA-dependent RNA Polymerase1 (RDR1) (8085 nt)	-16.516	-0.50977	1
PITG_10461	Pi conserved hypothetical protein (3195 nt)	-14.9372	-0.36977	1
PITG_10492	Pi lactation elevated protein 1 (1345 nt)	-16.3289	0.096999	1
PITG_10508	Pi programmed cell death protein 2, putative (1313 nt)	-16.516	-0.50977	1
PITG_10521	Pi hypothetical protein (2059 nt)	-16.2424	-0.62919	1
PITG_10594	Pi conserved hypothetical protein (1834 nt)	-15.732	-0.03597	1
PITG_10602	Pi DNA repair protein, putative (1974 nt)	-16.2702	-0.50029	1
PITG_10663	Pi Multidrug/Oligosaccharidyl-lipid/Polysaccharide (MOP) Fli	-15.2426	-0.04183	1
PITG_10795	Pi conserved hypothetical protein (1944 nt)	-15.6112	-0.02333	1
PITG_10853	Pi conserved hypothetical protein (2451 nt)	-15.7568	-0.08145	1
PITG_10877	Pi peptidyl-prolyl cis-trans isomerase, putative (765 nt)	-16.3364	-0.36698	1
PITG_10894	Pi hypothetical protein (1440 nt)	-15.3565	0.043937	1
PITG_10898	Pi conserved hypothetical protein (1503 nt)	-15.9625	-0.22059	1
PITG_10912	Pi conserved hypothetical protein (2094 nt)	-15.802	-0.03588	1
PITG_10954	Pi conserved hypothetical protein (1466 nt)	-16.4168	0.155276	1
PITG_10968	Pi CCR4-NOT transcription complex subunit, putative (2343 r	-15.8272	0.20001	1
PITG_10994	Pi mitochondrial inner membrane protease subunit, putative	-15.1511	-0.10832	1
PITG_10998	Pi Glycogen Synthase Kinase 3 beta (1776 nt)	-13.2995	-0.02318	1
PITG_11000	Pi ATP-dependent RNA helicase, putative (4637 nt)	-16.8295	-0.49203	1
PITG_11083	Pi conserved hypothetical protein (1864 nt)	-15.4997	0.239154	1
PITG_11106	Pi gamma-tubulin complex component, putative (3933 nt)	-15.4625	0.052804	1
PITG_11127	Pi coatomer subunit delta, putative (2147 nt)	-13.3811	0.139415	1
PITG_11142	Pi protein farnesyltransferase/geranylgeranyltransferase, pu	-14.9895	-0.19378	1
PITG_11158	Pi pre-mRNA-splicing factor SYF1-like protein (3102 nt)	-15.5846	0.156821	1
PITG_11195	Pi conserved hypothetical protein (4033 nt)	-16.8295	-0.49203	1
PITG_11273	Pi ubiquitin-specific protease, putative (4337 nt)	-15.7465	-0.0525	1
PITG_11308	Pi conserved hypothetical protein (4502 nt)	-16.3286	-0.31998	1
PITG_11437	Pi axonemal dynein heavy chain (12898 nt)	-15.49	-0.30694	1
PITG_11458	Pi prostaglandin E synthase, putative (972 nt)	-16.0096	0.237109	1
PITG_11460	Pi conserved hypothetical protein (1836 nt)	-14.3824	0.186497	1
PITG_11494	Pi Multidrug/Oligosaccharidyl-lipid/Polysaccharide (MOP) Fli	-16.484	-0.35456	1
PITG_11587	Pi inositol-3,4-bisphosphate 4-phosphatase, putative (3909 r	-15.2343	-0.0937	1
PITG_11680	Pi conserved hypothetical protein (1246 nt)	-16.9472	-0.93654	1
PITG_11704	Pi lectin, putative (1295 nt)	-14.052	0.036593	1
PITG_11705	Pi conserved hypothetical protein (1608 nt)	-16.2278	0.149836	1
PITG_11710	Pi conserved hypothetical protein (996 nt)	-13.7999	0.02669	1
PITG_11723	Pi vacuolar protein sorting-associated protein, putative (169	-15.6783	0.343342	1
PITG_11729	Pi conserved hypothetical protein (1065 nt)	-13.9909	0.110973	1
PITG_11735	Pi conserved hypothetical protein (4995 nt)	-15.4862	0.212374	1
PITG_11752	Pi protein phosphatase 1L-like protein (3063 nt)	-16.1735	-0.26975	1
PITG_11802	Pi conserved hypothetical protein (1997 nt)	-15.6387	0.031686	1
PITG_11805	Pi splicing factor, arginine/serine-rich, putative (950 nt)	-14.9411	-0.29057	1
PITG_11807	Pi serine protease, putative (1325 nt)	-15.2283	-0.34574	1
PITG_11895	Pi conserved hypothetical protein (3251 nt)	-15.776	-0.48405	1
PITG_11899	Pi hypothetical protein (331 nt)	-14.7197	0.166011	1
PITG_11927	Pi conserved hypothetical protein (336 nt)	-15.5487	-0.44772	1
PITG_11960	Pi Amino Acid-Polyamine-Organocation (APC) Family (1552 r	-16.4156	-0.27523	1

PITG_11964	Pi conserved hypothetical protein (2189 nt)	-16.4776	-0.02229	1
PITG_11998	Pi chromatin modification-related protein EAF3, putative (11	-15.4188	0.114813	1
PITG_12001	Pi conserved hypothetical protein (879 nt)	-14.8666	-0.21828	1
PITG_12112	Pi conserved hypothetical protein (4899 nt)	-16.6302	-0.28028	1
PITG_12120	Pi NPL4-like protein (1332 nt)	-14.625	0.122596	1
PITG_12128	Pi F-box protein, putative (1121 nt)	-14.9342	0.010468	1
PITG_12149	Pi conserved hypothetical protein (1073 nt)	-15.4545	-0.22333	1
PITG_12166	Pi twinkle protein, putative (2264 nt)	-16.8505	-0.53231	1
PITG_12219	Pi Zinc (Zn <sup>2+</sup> )-Iron (Fe <sup>2+</sup> ) Permease (ZIP) Family (1002 nt)	-15.8056	-0.07425	1
PITG_12284	Pi hypothetical protein (1024 nt)	-16.3285	-0.09963	1
PITG_12302	Pi conserved hypothetical protein (1683 nt)	-13.8608	0.192815	1
PITG_12306	Pi conserved hypothetical protein (986 nt)	-16.6767	-0.18816	1
PITG_12307	Pi conserved hypothetical protein (922 nt)	-15.0992	-0.1792	1
PITG_12316	Pi conserved hypothetical protein (839 nt)	-16.1874	0.393864	1
PITG_12326	Pi phosphatidylinositol kinase (PIK-A) (2963 nt)	-15.0139	-0.31657	1
PITG_12330	Pi cleavage and polyadenylation specificity factor subunit, pu	-15.1982	0.157607	1
PITG_12427	Pi conserved hypothetical protein (402 nt)	-11.2371	0.042473	1
PITG_12429	Pi conserved hypothetical protein (1003 nt)	-16.1868	-0.6709	1
PITG_12462	Pi aconitate hydratase, putative (2179 nt)	-14.1319	-0.00533	1
PITG_12489	Pi protein arginine N-methyltransferase, putative (2166 nt)	-15.9464	0.015691	1
PITG_12500	Pi conserved hypothetical protein (925 nt)	-13.9621	0.022634	1
PITG_12516	Pi poly [ADP-ribose] polymerase 2, putative (2573 nt)	-14.5229	0.265777	1
PITG_12537	Pi autophagy-related protein 7 (2290 nt)	-14.6616	-0.30665	1
PITG_12576	Pi conserved hypothetical protein (1154 nt)	-14.9822	-0.01669	1
PITG_12674	Pi sedoheptulokinase-like protein (2089 nt)	-16.2702	-0.50029	1
PITG_12687	Pi conserved hypothetical protein (1954 nt)	-14.5776	0.027798	1
PITG_12697	Pi 30S ribosomal protein S9 (987 nt)	-14.3627	0.008241	1
PITG_12739	Pi hypothetical protein (1072 nt)	-14.359	0.017501	1
PITG_12753	Pi importin subunit alpha, putative (1916 nt)	-14.4123	-0.03769	1
PITG_12793	Pi short chain dehydrogenase, putative (510 nt)	-16.0216	-0.27818	1
PITG_12864	Pi asparaginyl-tRNA synthetase (1531 nt)	-13.492	0.036427	1
PITG_12914	Pi inositol polyphosphate 5-phosphatase, putative (2695 nt)	-14.7562	-0.01014	1
PITG_12933	Pi conserved hypothetical protein (366 nt)	-14.882	-0.12344	1
PITG_13041	Pi RNA polymerase-associated protein RTF1 (3271 nt)	-13.5699	-0.02673	1
PITG_13101	Pi fimbrin-like protein (2444 nt)	-12.927	0.007732	1
PITG_13120	Pi transmembrane protein, putative (1527 nt)	-16.4945	-0.05428	1
PITG_13182	Pi conserved hypothetical protein (1085 nt)	-15.5474	0.082093	1
PITG_13202	Pi zinc transporter, putative (1965 nt)	-15.2759	-0.08048	1
PITG_13290	Pi conserved hypothetical protein (306 nt)	-13.8669	-0.24012	1
PITG_13305	Pi aldose 1-epimerase, putative (903 nt)	-15.9907	0.062911	1
PITG_13319	Pi myosin-like protein (3989 nt)	-15.5764	-0.09272	1
PITG_13395	Pi P-type ATPase (P-ATPase) Superfamily (5061 nt)	-15.6057	-0.03432	1
PITG_13412	Pi conserved hypothetical protein (1758 nt)	-15.7069	-0.08703	1
PITG_13427	Pi glutathione reductase (1624 nt)	-14.6742	0.220968	1
PITG_13431	Pi WD domain-containing protein, putative (1388 nt)	-15.1066	-0.34903	1
PITG_13447	Pi conserved hypothetical protein (1231 nt)	-16.0817	-0.45947	1
PITG_13464	Pi conserved hypothetical protein (2037 nt)	-16.8295	-0.49203	1



PITG_13609	Pi conserved hypothetical protein (3362 nt)	-15.9979	-0.14877	1
PITG_13622	Pi conserved hypothetical protein (2319 nt)	-14.2267	-0.24697	1
PITG_13634	Pi conserved hypothetical protein (1968 nt)	-14.6971	-0.26363	1
PITG_13717	Pi transmembrane protein, putative (1502 nt)	-13.8468	-0.17467	1
PITG_13756	Pi conserved hypothetical protein (846 nt)	-16.0159	0.793587	1
PITG_13792	Pi ribonuclease H2 subunit A, putative (3246 nt)	-16.2241	-0.59373	1
PITG_13896	Pi conserved hypothetical protein (1500 nt)	-14.9566	0.024493	1
PITG_13899	Pi conserved hypothetical protein (886 nt)	-16.344	0.069509	1
PITG_13900	Pi conserved hypothetical protein (759 nt)	-16.1627	0.074907	1
PITG_13977	Pi serine/threonine-protein phosphatase 6 regulatory subun	-12.9678	-0.12948	1
PITG_13985	Pi conserved hypothetical protein (1075 nt)	-14.9005	0.058769	1
PITG_13988	Pi conserved hypothetical protein (3543 nt)	-16.4776	-0.02229	1
PITG_13992	Pi conserved hypothetical protein (834 nt)	-15.5779	0.143129	1
PITG_13999	Pi protein phosphatase 1 regulatory subunit, putative (1127	-15.8175	-0.1945	1
PITG_14002	Pi conserved hypothetical protein (1497 nt)	-13.3109	0.003215	1
PITG_14048	Pi conserved hypothetical protein (947 nt)	-15.9323	-0.01239	1
PITG_14111	Pi vacuolar protein sorting-associated protein, putative (584	-14.3941	-0.20371	1
PITG_14130	Pi conserved hypothetical protein (1382 nt)	-13.814	0.09653	1
PITG_14134	Pi conserved hypothetical protein (2031 nt)	-15.7026	-0.09516	1
PITG_14141	Pi 1,3-beta-glucanosyltransferase, putative (1645 nt)	-14.8469	-0.04925	1
PITG_14181	Pi long-chain fatty acid transporter, putative (2109 nt)	-14.5747	0.157575	1
PITG_14189	Pi conserved hypothetical protein (1729 nt)	-16.1227	-0.42949	1
PITG_14215	Pi carbohydrate esterase, putative (945 nt)	-15.7807	-0.37337	1
PITG_14230	Pi calcium-transporting ATPase sarcoplasmic/endoplasmic re	-14.6133	0.218442	1
PITG_14278	Pi eukaryotic translation initiation factor 4 gamma, putative	-13.7453	-0.1047	1
PITG_14389	Pi conserved hypothetical protein (767 nt)	-13.8313	0.118543	1
PITG_14398	Pi vacuolar amino acid transporter, putative (1761 nt)	-15.7034	-0.32651	1
PITG_14399	Pi pre-mRNA-processing factor, putative (1860 nt)	-15.8175	-0.1945	1
PITG_14557	Pi conserved hypothetical protein (1092 nt)	-13.0861	0.142735	1
PITG_14558	Pi conserved hypothetical protein (774 nt)	-14.4075	-0.02534	1
PITG_14574	Pi conserved hypothetical protein (1050 nt)	-16.4301	-0.68073	1
PITG_14577	Pi conserved hypothetical protein (608 nt)	-15.1808	-0.15294	1
PITG_14602	Pi conserved hypothetical protein (3807 nt)	-15.9742	-0.19809	1
PITG_14603	Pi carbohydrate-binding protein, putative (1596 nt)	-15.1025	0.102704	1
PITG_14614	Pi tubulin-specific chaperone C, putative (1365 nt)	-15.7935	-0.50741	1
PITG_14617	Pi conserved hypothetical protein (2167 nt)	-15.4763	0.041621	1
PITG_14641	Pi glutathione peroxidase, putative (973 nt)	-14.002	0.230872	1
PITG_14654	Pi conserved hypothetical protein (558 nt)	-16.0984	-0.17861	1
PITG_14697	Pi cystathionine beta-synthase (1831 nt)	-14.6665	-0.086	1
PITG_14739	Pi PexRD8 family secreted RxLR effector peptide, putative (4	-11.7218	-0.06803	1
PITG_14766	Pi conserved hypothetical protein (775 nt)	-14.1906	0.247598	1
PITG_14768	Pi conserved hypothetical protein (848 nt)	-13.8923	0.136553	1
PITG_14807	Pi tubulin gamma chain (1401 nt)	-15.6031	0.07355	1
PITG_14808	Pi ferrochelatase, mitochondrial precursor (1340 nt)	-14.9454	-0.09028	1
PITG_14874	Pi 6 snRNA-associated Sm-like protein, putative (900 nt)	-14.0459	0.165358	1
PITG_14886	Pi conserved hypothetical protein (888 nt)	-16.3573	-0.26456	1
PITG_14898	Pi conserved hypothetical protein (1830 nt)	-15.0873	-0.30422	1

PITG_14944	Pi conserved hypothetical protein (1707 nt)	-14.9239	-0.19308	1
PITG_14973	Pi conserved hypothetical protein (2286 nt)	-16.1735	-0.26975	1
PITG_14975	Pi acetoacetyl-coenzyme A synthetase (2821 nt)	-14.4426	0.06659	1
PITG_14977	Pi conserved hypothetical protein (2240 nt)	-15.9283	-0.12344	1
PITG_14988	Pi prefoldin subunit, putative (546 nt)	-14.4615	-0.02728	1
PITG_15026	Pi importin-like protein (3656 nt)	-16.2031	0.316032	1
PITG_15075	Pi Major Facilitator Superfamily (MFS) (2391 nt)	-15.9758	-0.24728	1
PITG_15085	Pi conserved hypothetical protein (1043 nt)	-16.172	0.415969	1
PITG_15119	Pi Multidrug/Oligosaccharidyl-lipid/Polysaccharide (MOP) Fli	-15.6561	0.440004	1
PITG_15167	Pi hypothetical protein (1374 nt)	-15.5966	-0.35281	1
PITG_15196	Pi conserved hypothetical protein (1493 nt)	-16.2388	-0.02766	1
PITG_15243	Pi phosphate acetyltransferase (2356 nt)	-15.2204	-0.24633	1
PITG_15257	Pi conserved hypothetical protein (1148 nt)	-16.3749	-0.22752	1
PITG_15258	Pi conserved hypothetical protein (2840 nt)	-16.441	-0.16136	1
PITG_15280	Pi conserved hypothetical protein (3074 nt)	-14.438	0.079739	1
PITG_15310	Pi actin-like protein (1413 nt)	-15.5493	0.086151	1
PITG_15329	Pi conserved hypothetical protein (1104 nt)	-14.6468	0.212752	1
PITG_15394	Pi serine protease family S33, putative (984 nt)	-14.5112	-0.01458	1
PITG_15417	Pi asparagine synthetase domain-containing protein, putativ	-15.5558	-0.3073	1
PITG_15479	Pi conserved hypothetical protein (1362 nt)	-16.0947	0.152282	1
PITG_15505	Pi DNA polymerase epsilon catalytic subunit, putative (7237	-16.216	0.286989	1
PITG_15519	Pi conserved hypothetical protein (522 nt)	-14.3102	-0.08057	1
PITG_15538	Pi conserved hypothetical protein (1715 nt)	-16.0258	0.118456	1
PITG_15566	Pi RNA polymerase I-specific transcription initiation factor rr1	-15.7642	-0.01659	1
PITG_15605	Pi conserved hypothetical protein (1216 nt)	-13.3113	-0.15146	1
PITG_15607	Pi conserved hypothetical protein (2897 nt)	-15.5771	0.278562	1
PITG_15608	Pi conserved hypothetical protein (1276 nt)	-15.4192	-0.09134	1
PITG_15677	Pi conserved hypothetical protein (1168 nt)	-16.8505	-0.53231	1
PITG_15705	Pi dihydrolipoamide succinyltransferase, putative (1737 nt)	-14.4372	0.076928	1
PITG_15755	Pi AP-3 complex subunit beta, putative (3254 nt)	-15.2393	-0.20784	1
PITG_15778	Pi diphosphomevalonate decarboxylase (1344 nt)	-16.2569	0.47394	1
PITG_15810	Pi eukaryotic translation initiation factor 3 subunit A, putativ	-15.6439	0.318668	1
PITG_15843	Pi acyltransferase family (1479 nt)	-16.7925	-0.38932	1
PITG_15874	Pi conserved hypothetical protein (2007 nt)	-15.5266	-0.12487	1
PITG_15904	Pi phosphoethanolamine N-methyltransferase, putative (162	-12.4135	-0.12015	1
PITG_15981	Pi conserved hypothetical protein (1575 nt)	-15.0228	-0.25668	1
PITG_16017	Pi deoxyribose-phosphate aldolase (1144 nt)	-16.8505	-0.53231	1
PITG_16052	Pi Animal Inward Rectifier K Channel (IRK-C) Family (1539 nt	-13.5267	0.055273	1
PITG_16055	Pi lysosomal Pro-X carboxypeptidase, putative (1710 nt)	-15.2463	-0.26771	1
PITG_16118	Pi conserved hypothetical protein (2399 nt)	-12.1363	0.031544	1
PITG_16121	Pi conserved hypothetical protein (2156 nt)	-15.1143	0.217458	1
PITG_16126	Pi Dicarboxylate/Amino Acid:Cation (Na or H ) Symporter (D	-14.6945	-0.08088	1
PITG_16163	Pi conserved hypothetical protein (669 nt)	-15.6899	0.115739	1
PITG_16312	Pi vacuolar protein sorting-associated protein 53 (2653 nt)	-16.1257	-0.51978	1
PITG_16317	Pi regulator of microtubule dynamics protein, putative (1848	-15.3681	0.257356	1
PITG_16319	Pi conserved hypothetical protein (791 nt)	-16.5357	0.093805	1
PITG_16328	Pi tyrosyl-tRNA synthetase, putative (2457 nt)	-14.5742	-0.02381	1

PITG_16360	Pi lysosomal Pro-X carboxypeptidase, putative (1824 nt)	-14.6625	-0.01768	1
PITG_16456	Pi conserved hypothetical protein (2606 nt)	-15.2812	-0.29088	1
PITG_16467	Pi hypothetical protein (456 nt)	-15.5355	-0.42964	1
PITG_16506	Pi conserved hypothetical protein (1704 nt)	-16.1343	0.068663	1
PITG_16511	Pi conserved hypothetical protein (4689 nt)	-16.2612	-0.15673	1
PITG_16526	Pi DNA-directed RNA polymerases III 12.5 kDa polypeptide (4	-14.6343	0.046435	1
PITG_16563	Pi conserved hypothetical protein (902 nt)	-14.6029	-0.01636	1
PITG_16668	Pi cyclin-like protein (1014 nt)	-16.3945	-0.129	1
PITG_16709	Pi conserved hypothetical protein (414 nt)	-16.2983	0.341425	1
PITG_16720	Pi conserved hypothetical protein (2485 nt)	-14.7504	-0.13006	1
PITG_16741	Pi isoleucyl-tRNA synthetase (3159 nt)	-16.2547	-0.3306	1
PITG_16775	Pi conserved hypothetical protein (1307 nt)	-15.5487	-0.44772	1
PITG_16801	Pi conserved hypothetical protein (4173 nt)	-15.3111	-0.17527	1
PITG_16937	Pi folylpolyglutamate synthase, putative (1720 nt)	-15.2623	0.35181	1
PITG_17032	Pi anthranilate phosphoribosyltransferase, putative (1166 nt)	-15.637	-0.01297	1
PITG_17041	Pi cardiolipin synthetase, putative (1210 nt)	-16.6723	-0.34504	1
PITG_17047	Pi ATP-binding Cassette (ABC) Superfamily (1380 nt)	-14.8987	0.081268	1
PITG_17058	Pi ATP-binding Cassette (ABC) Superfamily (3267 nt)	-15.8636	0.275215	1
PITG_17077	Pi conserved hypothetical protein (1026 nt)	-15.4394	-0.40814	1
PITG_17105	Pi conserved hypothetical protein (1635 nt)	-16.2705	-0.02029	1
PITG_17111	Pi conserved hypothetical protein (1298 nt)	-16.6186	-0.30433	1
PITG_17133	Pi 6,7-dimethyl-8-ribityllumazine synthase (734 nt)	-12.5148	-0.05329	1
PITG_17262	Pi ethanolamine-phosphate cytidyltransferase, putative (16	-14.6929	0.116429	1
PITG_17280	Pi conserved hypothetical protein (5608 nt)	-16.6767	-0.18816	1
PITG_17287	Pi AP-1 complex subunit beta, putative (2580 nt)	-14.6688	0.165889	1
PITG_17313	Pi conserved hypothetical protein (2714 nt)	-16.6957	-0.83911	1
PITG_17345	Pi conserved hypothetical protein (2499 nt)	-14.6831	0.072599	1
PITG_17361	Pi mitogen-activated protein kinase, putative (2679 nt)	-15.3064	-0.0195	1
PITG_17381	Pi conserved hypothetical protein (1000 nt)	-14.2862	-0.15108	1
PITG_17384	Pi conserved hypothetical protein (1190 nt)	-13.2986	0.007469	1
PITG_17391	Pi conserved hypothetical protein (912 nt)	-15.99	-0.27316	1
PITG_17395	Pi 5'-AMP-activated protein kinase subunit gamma, putative	-14.9577	0.286372	1
PITG_17439	Pi Ca2 :Cation Antiporter (CaCA) Family (1653 nt)	-15.5364	0.021354	1
PITG_17488	Pi conserved hypothetical protein (866 nt)	-16.1874	0.393864	1
PITG_17493	Pi conserved hypothetical protein (1904 nt)	-16.3742	0.072261	1
PITG_17494	Pi protein kinase (491 nt)	-16.5357	0.093805	1
PITG_17495	Pi protein kinase, putative (1590 nt)	-15.3017	-0.15663	1
PITG_17501	Pi glucosylceramidase, putative (1620 nt)	-15.0837	-0.07063	1
PITG_17601	Pi conserved hypothetical protein (2071 nt)	-14.8386	-0.03668	1
PITG_17701	Pi conserved hypothetical protein (790 nt)	-14.6597	0.259672	1
PITG_17723	Pi conserved hypothetical protein (507 nt)	-15.685	-0.13115	1
PITG_17750	Pi conserved hypothetical protein (847 nt)	-16.2096	-0.08194	1
PITG_17792	Pi F-box protein, putative (2409 nt)	-15.6593	-0.37569	1
PITG_17805	Pi Amino Acid/Auxin Permease (AAP) Family (1542 nt)	-14.6569	0.12605	1
PITG_17824	Pi conserved hypothetical protein (1995 nt)	-15.9098	-0.48317	1
PITG_17928	Pi UDP-N-acetylglucosamine-peptide N-acetylglucosaminyltr	-14.1302	-0.17677	1
PITG_17935	Pi conserved hypothetical protein (1290 nt)	-15.7182	-0.06471	1

PITG_17953	Pi COP9 signalosome complex subunit 2 (1741 nt)	-15.3568	-0.44643	1
PITG_18002	Pi conserved hypothetical protein (1812 nt)	-12.78	-0.0719	1
PITG_18004	Pi conserved hypothetical protein (2689 nt)	-15.8962	-0.13282	1
PITG_18010	Pi conserved hypothetical protein (1491 nt)	-15.6537	-0.32864	1
PITG_18014	Pi conserved hypothetical protein (3807 nt)	-16.3055	0.109587	1
PITG_18033	Pi conserved hypothetical protein (366 nt)	-14.6909	-0.19317	1
PITG_18089	Pi protein transporter Sec61 subunit alpha, putative (1425 nt)	-11.8482	-0.02683	1
PITG_18103	Pi Poly(A) RNA polymerase, putative (1470 nt)	-16.0921	-0.06503	1
PITG_18114	Pi conserved hypothetical protein (1212 nt)	-15.6679	-0.49355	1
PITG_18151	Pi conserved hypothetical protein (2977 nt)	-15.2651	0.051439	1
PITG_18155	Pi conserved hypothetical protein (2637 nt)	-16.6767	-0.18816	1
PITG_18172	Pi conserved hypothetical protein (5101 nt)	-15.3244	-0.36849	1
PITG_18189	Pi conserved hypothetical protein (1595 nt)	-14.5477	-0.19862	1
PITG_18248	Pi acetate kinase (1405 nt)	-15.2987	-0.1266	1
PITG_18358	Pi conserved hypothetical protein (1390 nt)	-14.2653	-0.21309	1
PITG_18387	Pi conserved hypothetical protein (2492 nt)	-16.2844	-0.19482	1
PITG_18410	Pi conserved hypothetical protein (711 nt)	-12.3512	0.138263	1
PITG_18413	Pi conserved hypothetical protein (712 nt)	-15.6729	-0.48356	1
PITG_18421	Pi large subunit GTPase 1 (2385 nt)	-13.9891	0.025555	1
PITG_18474	Pi CCR4-NOT transcription complex subunit, putative (7396 nt)	-15.4703	0.008594	1
PITG_18482	Pi polysaccharide lyase, putative (1685 nt)	-16.4602	0.070905	1
PITG_18519	Pi conserved hypothetical protein (3053 nt)	-14.8259	-0.14908	1
PITG_18540	Pi conserved hypothetical protein (568 nt)	-14.0175	0.237746	1
PITG_18650	Pi proteasomal ubiquitin receptor ADRM1-like protein (2124 nt)	-13.1836	0.004987	1
PITG_18862	Pi conserved hypothetical protein (4505 nt)	-16.1707	-0.16189	1
PITG_18868	Pi tRNA-dihydrouridine synthase, putative (1470 nt)	-15.6868	0.086329	1
PITG_18894	Pi vacuolar protein sorting-associated protein, putative (267 nt)	-15.1503	-0.19261	1
PITG_18899	Pi vacuolar protein sorting-associated protein 53 (1598 nt)	-14.7547	-0.06571	1
PITG_18906	Pi ATP-binding Cassette (ABC) Superfamily (2690 nt)	-15.3828	0.424681	1
PITG_18961	Pi conserved hypothetical protein (1677 nt)	-15.7	-0.09983	1
PITG_18976	Pi RNA binding protein, putative (803 nt)	-15.4627	0.293059	1
PITG_18999	Pi serine protease family S08A, putative (3690 nt)	-15.7513	-0.04255	1
PITG_19113	Pi conserved hypothetical protein (1761 nt)	-14.7883	0.080806	1
PITG_19124	Pi endoplasmic reticulum-Golgi intermediate compartment protein (1000 nt)	-14.432	-0.13089	1
PITG_19145	Pi conserved hypothetical protein (491 nt)	-15.6542	-0.28108	1
PITG_19168	Pi conserved hypothetical protein (2066 nt)	-15.7352	-0.03003	1
PITG_19179	Pi mitochondrial import receptor subunit TOM70, putative (1000 nt)	-13.8643	0.178104	1
PITG_19180	Pi conserved hypothetical protein (1550 nt)	-14.0831	-0.00706	1
PITG_19220	Pi conserved hypothetical protein (3632 nt)	-14.904	-0.02151	1
PITG_19235	Pi serine/threonine protein kinase (1738 nt)	-14.333	-0.22257	1
PITG_19237	Pi conserved hypothetical protein (1180 nt)	-13.6387	-0.2087	1
PITG_19245	Pi conserved hypothetical protein (698 nt)	-14.9302	0.031043	1
PITG_19410	Pi conserved hypothetical protein (684 nt)	-14.3425	-0.09999	1
PITG_19462	Pi metallophosphoesterase, putative (1778 nt)	-16.552	0.061151	1
PITG_19514	Pi conserved hypothetical protein (1607 nt)	-15.2254	-0.27147	1
PITG_19527	Pi conserved hypothetical protein (1086 nt)	-15.2862	-0.30044	1
PITG_19557	Pi putative dolichyl-diphosphooligosaccharide-protein glycosyltransferase (1000 nt)	-13.8017	-0.14721	1

PITG_19592	Pi Mitochondrial Protein Translocase (MPT) Family (393 nt)	-13.3476	0.004702	1
PITG_19606	Pi conserved hypothetical protein (1062 nt)	-14.5901	0.007188	1
PITG_19640	Pi transmembrane protein, putative (8592 nt)	-16.6754	-0.80111	1
PITG_19676	Pi conserved hypothetical protein (856 nt)	-16.1299	0.284308	1
PITG_19730	Pi 2-acylglycerol O-acyltransferase, putative (1272 nt)	-16.8505	-0.53231	1
PITG_19781	Pi conserved hypothetical protein (4434 nt)	-16.4086	-0.65015	1
PITG_19877	Pi guanylate-binding protein, putative (2474 nt)	-15.4687	-0.07501	1
PITG_19901	Pi conserved hypothetical protein (708 nt)	-15.6191	-0.26263	1
PITG_20035	Pi conserved hypothetical protein (1113 nt)	-14.4004	-0.06114	1
PITG_20044	Pi hypothetical protein (1462 nt)	-15.799	-0.08613	1
PITG_20055	Pi ATP-binding Cassette (ABC) Superfamily (2164 nt)	-14.6452	0.021206	1
PITG_20102	Pi conserved hypothetical protein (1556 nt)	-15.7432	0.121156	1
PITG_20103	Pi mitogen-activated protein kinase, putative (4065 nt)	-16.172	0.415969	1
PITG_20146	Pi Drug/Metabolite Transporter (DMT) Superfamily (1575 nt)	-14.8872	0.252543	1
PITG_20201	Pi Divalent Anion:Na Symporter (DASS) Family (2907 nt)	-15.0963	-0.33442	1
PITG_20206	Pi ADP-ribosylation factor family (1099 nt)	-14.3867	-0.03382	1
PITG_20239	Pi ATP-binding Cassette (ABC) Superfamily (5838 nt)	-16.3914	-0.26064	1
PITG_20249	Pi conserved hypothetical protein (1358 nt)	-15.7707	-0.09623	1
PITG_20296	Pi ATP-dependent Clp protease ATP-binding subunit clpX, pu	-13.623	0.04747	1
PITG_20330	Pi trafficking protein particle complex subunit 10, putative (3	-16.0729	-0.10487	1
PITG_20384	Pi conserved hypothetical protein (1483 nt)	-12.8435	-0.03543	1
PITG_20406	Pi hypothetical protein (2190 nt)	-13.4895	0.24434	1
PITG_20496	Pi conserved hypothetical protein (3585 nt)	-15.6014	-0.13297	1
PITG_20502	Pi histone-lysine N-methyltransferase, putative (9032 nt)	-15.1077	-0.34689	1
PITG_20528	Pi conserved hypothetical protein (2340 nt)	-15.4182	-0.17593	1
PITG_20556	Pi hypothetical protein (1091 nt)	-14.2508	-0.18377	1
PITG_20568	Pi hypothetical protein (1211 nt)	-15.0632	-0.24591	1
PITG_20610	Pi conserved hypothetical protein (1065 nt)	-16.0727	0.216689	1
PITG_20657	Pi conserved hypothetical protein (760 nt)	-15.8066	0.252257	1
PITG_20743	Pi nuclear transport factor, putative (702 nt)	-11.9565	0.082261	1
PITG_20762	Pi conserved hypothetical protein (813 nt)	-14.2722	-0.15179	1
PITG_20799	Pi conserved hypothetical protein (863 nt)	-13.5023	-0.15594	1
PITG_20801	Pi conserved hypothetical protein (1059 nt)	-16.6654	-0.36831	1
PITG_20808	Pi serine/threonine protein kinase (1349 nt)	-14.8363	0.043015	1
PITG_20901	Pi voltage-dependent anion-selective channel protein, putati	-11.3068	0.00275	1
PITG_20927	Pi trehalose-phosphatase, putative (2751 nt)	-16.441	-0.16136	1
PITG_20928	Pi condensin complex subunit, putative (4274 nt)	-14.886	0.086277	1
PITG_21027	Pi conserved hypothetical protein (1341 nt)	-12.3867	-0.08093	1
PITG_21028	Pi mannosyl-oligosaccharide glucosidase, putative (923 nt)	-15.5808	-0.08421	1
PITG_21048	Pi conserved hypothetical protein (659 nt)	-14.7582	-0.00619	1
PITG_21055	Pi LAG1 longevity assurance (1284 nt)	-14.0748	0.018271	1
PITG_21077	Pi DNA-directed RNA polymerase II largest subunit (6203 nt)	-14.353	0.254913	1
PITG_21156	Pi Drug/Metabolite Transporter (DMT) Superfamily (970 nt)	-15.9922	0.057531	1
PITG_21184	Pi conserved hypothetical protein (1355 nt)	-15.3179	-0.03311	1
PITG_21222	Pi conserved hypothetical protein (2926 nt)	-16.3439	0.127086	1
PITG_21277	Pi conserved hypothetical protein (1053 nt)	-14.7664	0.114503	1
PITG_21279	Pi conserved hypothetical protein (526 nt)	-14.8604	0.062698	1

PITG_21295	Pi 12-oxophytodienoate reductase, putative (923 nt)	-16.2369	0.089587	1
PITG_21310	Pi conserved hypothetical protein (440 nt)	-16.0984	-0.17861	1
PITG_21317	Pi transmembrane protein, putative (840 nt)	-15.8698	-0.1377	1
PITG_21416	Pi conserved hypothetical protein (4115 nt)	-15.8084	0.19779	1
PITG_21508	Pi conserved hypothetical protein (466 nt)	-12.9964	-0.06953	1
PITG_21582	Pi tetrahydrofolate dehydrogenase (998 nt)	-15.8793	-0.54365	1
PITG_21593	Pi conserved hypothetical protein (1785 nt)	-15.6607	-0.00945	1
PITG_21661	Pi eukaryotic initiation factor 4E, putative (903 nt)	-14.1294	-0.2057	1
PITG_21829	Pi conserved hypothetical protein (786 nt)	-13.2019	0.065179	1
PITG_21880	Pi conserved hypothetical protein (1177 nt)	-13.5753	-0.1677	1
PITG_21889	Pi conserved hypothetical protein (2801 nt)	-16.344	0.069509	1
PITG_21960	Pi conserved hypothetical protein (777 nt)	-14.207	0.120725	1
PITG_22038	Pi conserved hypothetical protein (937 nt)	-15.6612	-0.45957	1
PITG_22094	Pi conserved hypothetical protein (1454 nt)	-16.5964	0.006091	1
PITG_22103	Pi triosephosphate isomerase/glyceraldehyde-3-phosphate c	-13.0791	-0.16342	1
PITG_22159	Pi conserved hypothetical protein (1564 nt)	-16.1581	-0.05071	1
PITG_22191	Pi conserved hypothetical protein (1022 nt)	-16.1735	-0.26975	1
PITG_22267	Pi conserved hypothetical protein (597 nt)	-16.7343	-0.50437	1
PITG_22369	Pi conserved hypothetical protein (2056 nt)	-15.7211	0.069613	1
PITG_22414	Pi conserved hypothetical protein (372 nt)	-16.143	-0.27506	1
PITG_22415	Pi conserved hypothetical protein (482 nt)	-15.2241	-0.03197	1
PITG_22477	Pi conserved hypothetical protein (558 nt)	-14.8088	-0.29941	1
PITG_22491	Pi conserved hypothetical protein (687 nt)	-15.2689	-0.35595	1
PITG_22508	Pi conserved hypothetical protein (1300 nt)	-16.3053	-0.43104	1
PITG_22523	Pi eukaryotic translation initiation factor 3 subunit A, putativ	-17.0056	-0.82043	1
PITG_22569	Pi geranylgeranyl transferase type-2 subunit beta (946 nt)	-15.8337	-0.4283	1
PITG_22587	Pi oxidoreductase, putative (487 nt)	-15.2831	-0.10268	1
PITG_22616	Pi conserved hypothetical protein (1030 nt)	-15.9418	-0.41913	1
PITG_22634	Pi conserved hypothetical protein (543 nt)	-14.5764	-0.1133	1
PITG_22662	Pi cyclin-dependent kinase, putative (1188 nt)	-15.5627	0.113204	1
PITG_22715	Pi serine/threonine protein kinase (4687 nt)	-16.6957	-0.83911	1
PITG_22763	Pi conserved oligomeric Golgi complex subunit, putative (27:	-15.9343	0.039235	1
PITG_22851	Pi conserved hypothetical protein (771 nt)	-16.2678	0.228445	1
PITG_22857	Pi DNA repair protein RAD5, SWI/SNF-related matrix-associa	-16.32	0.0789	1
PITG_22924	Pi conserved hypothetical protein (1410 nt)	-15.9386	-0.00044	1
PITG_22989	Pi mitogen-activated protein kinase kinase, putative (4032 n	-16.186	0.44581	1
PITG_23113	Pi GPN-loop GTPase 1 (1108 nt)	-16.2219	-0.53529	1
PITG_23142	Pi peptidylprolyl isomerase (2241 nt)	-16.1489	0.099908	1
PITG_23160	Pi histone deacetylase, putative (4814 nt)	-15.2841	-0.03002	1
PITG_23191	Pi conserved hypothetical protein (1333 nt)	-15.5584	-0.24851	1
PITG_23304	Pi hypothetical protein (2835 nt)	-15.3691	0.031938	1
PITG_02021	Pi dysferlin-like protein (5806 nt)	-16.703	-0.74659	1

list of PITG genes with logFC (fold-change), p-value, false discovery rate (FDR), and normalized counts of re

table.FDR	adjust.method	P18 - Rep1	P18 - Rep2	T6 - Rep1	6 - Rep2	P18 - mear
1.08E-07	BH	0	0	664	2064	0
6.19E-06	BH	3	1	789	867	2
6.19E-06	BH	1	0	286	688	0.5
7.96E-06	BH	1	0	468	230	0.5
1.06E-05	BH	307	323	0	0	315
3.05E-05	BH	0	0	211	105	0
3.05E-05	BH	9	6	1179	813	7.5
3.05E-05	BH	0	0	100	204	0
3.05E-05	BH	2	6	466	310	4
3.05E-05	BH	1269	755	4	0	1012
3.05E-05	BH	4	0	532	579	2
3.05E-05	BH	3	3	362	344	3
3.05E-05	BH	0	0	112	142	0
3.05E-05	BH	7	1	911	1051	4
3.05E-05	BH	583	135	0	0	359
4.53E-05	BH	2	2	295	186	2
5.11E-05	BH	656	101	0	0	378.5
5.11E-05	BH	370	111	0	0	240.5
5.11E-05	BH	1	2	217	138	1.5
5.11E-05	BH	0	4	237	178	2
5.11E-05	BH	2	6	371	251	4
5.19E-05	BH	7	16	774	521	11.5
5.19E-05	BH	0	0	102	89	0
5.19E-05	BH	0	1	158	61	0.5
5.19E-05	BH	1	0	197	102	0.5
5.19E-05	BH	0	0	113	76	0
5.19E-05	BH	1	1	254	120	1
5.19E-05	BH	112	169	0	0	140.5
5.56E-05	BH	3	10	469	300	6.5
7.14E-05	BH	216	103	0	0	159.5
7.17E-05	BH	318	87	0	0	202.5
7.29E-05	BH	30	132	4609	2595	81
7.66E-05	BH	0	0	45	237	0
8.01E-05	BH	0	2	158	87	1
8.01E-05	BH	0	1	109	58	0.5
8.48E-05	BH	2	1	213	154	1.5
8.48E-05	BH	4	3	387	202	3.5
8.48E-05	BH	2	2	144	214	2
0.000108801	BH	0	0	76	68	0
0.000114748	BH	0	1	80	61	0.5
0.000114748	BH	1053	115	0	1	584
0.000114748	BH	102	441	0	1	271.5
0.000114748	BH	7	8	596	296	7.5
0.000115274	BH	0	1	72	66	0.5
0.000125213	BH	0	1	78	58	0.5

0.000130779 BH	40	297	0	0	168.5
0.000151638 BH	2	0	124	247	1
0.000151638 BH	0	0	102	42	0
0.000151638 BH	1	0	152	61	0.5
0.000151638 BH	1	10	203	420	5.5
0.000163571 BH	5	1	474	222	3
0.000169398 BH	0	1	65	57	0.5
0.000169912 BH	0	0	45	91	0
0.000171798 BH	0	4	147	103	2
0.000171798 BH	0	0	33	149	0
0.000173774 BH	1	0	108	73	0.5
0.000173774 BH	18	813	0	0	415.5
0.000174367 BH	1	3	163	100	2
0.000177045 BH	0	1	58	58	0.5
0.000177045 BH	0	1	99	37	0.5
0.000201318 BH	1	4	168	91	2.5
0.000208026 BH	1	2	104	95	1.5
0.000215043 BH	0	1	57	53	0.5
0.000227975 BH	1	3	143	98	2
0.000227975 BH	0	1	50	59	0.5
0.000233964 BH	57	109	0	0	83
0.000255264 BH	4	1	409	112	2.5
0.000264383 BH	5	9	301	218	7
0.000275783 BH	0	0	48	57	0
0.000279994 BH	0	0	52	49	0
0.000286347 BH	0	0	44	59	0
0.000288976 BH	3	6	200	162	4.5
0.000306735 BH	0	0	83	31	0
0.000340086 BH	0	1	56	41	0.5
0.000340086 BH	60	396	2	0	228
0.000352148 BH	0	0	43	54	0
0.000370275 BH	0	1	38	60	0.5
0.000372512 BH	8	23	355	497	15.5
0.00039135 BH	1	4	86	119	2.5
0.000394673 BH	1	0	93	50	0.5
0.000405857 BH	2	29	608	415	15.5
0.000406283 BH	0	3	85	93	1.5
0.000445786 BH	3	4	215	100	3.5
0.000445786 BH	0	2	87	48	1
0.000448363 BH	31	140	0	0	85.5
0.000473246 BH	0	1	108	19	0.5
0.000477261 BH	0	1	84	23	0.5
0.00049889 BH	2	6	128	148	4
0.00049889 BH	6	22	419	275	14
0.00052506 BH	0	0	43	41	0
0.000554036 BH	0	0	58	29	0
0.000554036 BH	0	0	50	34	0



0.000554036 BH	1	1	80	70	1
0.000572887 BH	14	301	0	0	157.5
0.000593032 BH	1	2	131	43	1.5
0.000595244 BH	128	33	0	0	80.5
0.000595244 BH	0	0	75	22	0
0.000614444 BH	6	23	651	198	14.5
0.000623445 BH	0	0	42	36	0
0.00062742 BH	263	17	0	0	140
0.000634853 BH	0	0	67	23	0
0.000634853 BH	0	0	31	49	0
0.000650549 BH	0	2	62	51	1
0.000680596 BH	0	1	40	35	0.5
0.000683144 BH	0	0	154	11	0
0.000695272 BH	0	1	36	38	0.5
0.000695272 BH	0	4	96	59	2
0.000695272 BH	13	54	1612	364	33.5
0.000695272 BH	4	10	211	142	7
0.000706084 BH	10	355	0	0	182.5
0.000710804 BH	2748	286	12	12	1517
0.000714229 BH	130	27	0	0	78.5
0.000728011 BH	77	85	1	0	81
0.000728011 BH	0	1	47	28	0.5
0.000728011 BH	0	1	47	28	0.5
0.000741601 BH	0	1	60	22	0.5
0.000751228 BH	10	3	370	286	6.5
0.000752743 BH	482	108	4	1	295
0.000792508 BH	0	0	40	31	0
0.000865296 BH	0	0	32	38	0
0.000870269 BH	0	1	60	20	0.5
0.000873103 BH	0	0	34	35	0
0.000926048 BH	238	12	0	0	125
0.000956207 BH	0	1	67	17	0.5
0.000962651 BH	27	2	1759	910	14.5
0.000964695 BH	0	0	35	31	0
0.001014913 BH	1	0	69	34	0.5
0.001029519 BH	0	0	51	21	0
0.001036425 BH	0	0	37	28	0
0.001036425 BH	12	204	0	0	108
0.001036425 BH	53	327	3	0	190
0.001040729 BH	0	0	32	33	0
0.00104354 BH	6	13	468	98	9.5
0.00104354 BH	35	286	2	0	160.5
0.001114782 BH	0	1	59	17	0.5
0.001114782 BH	142	17	0	0	79.5
0.001114782 BH	0	0	39	26	0
0.001174615 BH	0	0	21	48	0
0.001205401 BH	37	467	2	1	252

0.001210985 BH	0	2	53	38	1
0.001210985 BH	2413	486	24	18	1449.5
0.001210985 BH	3	5	107	95	4
0.001210985 BH	130	85	1	1	107.5
0.001210985 BH	39	217	2	0	128
0.001210985 BH	1	0	51	40	0.5
0.001210985 BH	0	1	30	30	0.5
0.001210985 BH	0	2	25	90	1
0.001254651 BH	0	0	62	15	0
0.00125563 BH	0	1	30	29	0.5
0.00125563 BH	0	1	34	26	0.5
0.001263427 BH	0	0	56	16	0
0.001266243 BH	1785	535	18	21	1160
0.001266243 BH	8	17	279	200	12.5
0.001307206 BH	0	0	39	22	0
0.001332758 BH	0	3	43	45	1.5
0.001336703 BH	0	0	31	27	0
0.001336703 BH	0	1	36	23	0.5
0.001336703 BH	137	368	4	5	252.5
0.001336703 BH	0	0	50	17	0
0.001336703 BH	17	108	0	0	62.5
0.001385968 BH	0	1	34	24	0.5
0.001385968 BH	0	1	35	23	0.5
0.001386093 BH	0	0	28	30	0
0.001394599 BH	1	0	108	18	0.5
0.001413626 BH	1075	195	12	6	635
0.001455149 BH	1	1	68	41	1
0.001467273 BH	0	0	44	18	0
0.001496432 BH	0	1	55	14	0.5
0.001499493 BH	0	1	28	27	0.5
0.001584336 BH	0	0	27	28	0
0.001584336 BH	0	0	38	20	0
0.001584336 BH	0	0	24	32	0
0.001660627 BH	0	0	37	20	0
0.001660627 BH	20	79	0	0	49.5
0.001679765 BH	10	0	994	115	5
0.001686884 BH	0	0	48	15	0
0.001692993 BH	2	6	104	77	4
0.00170736 BH	0	1	35	20	0.5
0.00170736 BH	0	0	35	20	0
0.001721015 BH	1	6	78	66	3.5
0.001721015 BH	3	19	221	153	11
0.001743892 BH	0	0	50	14	0
0.001743892 BH	45	35	0	0	40
0.001743892 BH	0	0	5	118	0
0.001749817 BH	31	48	0	0	39.5
0.001749817 BH	0	0	27	26	0

0.001768343 BH	0	0	55	12	0
0.001824343 BH	195	465	10	1	330
0.001824343 BH	0	1	25	27	0.5
0.001824343 BH	0	0	27	25	0
0.001824343 BH	0	0	44	15	0
0.001824343 BH	0	0	6	97	0
0.001893985 BH	3	1	100	58	2
0.0019111113 BH	41	35	0	0	38
0.001920261 BH	34	300	3	0	167
0.002001923 BH	192	16	1	0	104
0.002007503 BH	0	0	72	8	0
0.002015367 BH	1	0	33	42	0.5
0.002016197 BH	2	409	0	0	205.5
0.002067457 BH	990	210	14	8	600
0.002072205 BH	25	104	1054	706	64.5
0.002072205 BH	0	2	58	23	1
0.002075919 BH	1	5	78	55	3
0.002075919 BH	13	97	0	0	55
0.002092077 BH	10	122	0	0	66
0.002092077 BH	1	1	95	23	1
0.00218336 BH	0	0	29	21	0
0.00218336 BH	3	4	82	83	3.5
0.002183721 BH	0	1	30	19	0.5
0.002185935 BH	1	4	73	40	2.5
0.00220073 BH	6	0	201	95	3
0.00220073 BH	0	0	47	12	0
0.00220073 BH	0	1	40	14	0.5
0.00220073 BH	0	0	67	8	0
0.00220073 BH	0	0	36	16	0
0.00220073 BH	1105	572	31	7	838.5
0.00220073 BH	26	826	4	2	426
0.00220073 BH	2	5	51	103	3.5
0.00220073 BH	0	0	28	21	0
0.00220073 BH	0	0	29	20	0
0.002205616 BH	1	3	49	59	2
0.002205616 BH	0	1	29	19	0.5
0.002229727 BH	0	0	46	12	0
0.002229727 BH	0	0	49	11	0
0.002229727 BH	0	0	18	31	0
0.002233277 BH	0	0	37	15	0
0.00226734 BH	49	25	0	0	37
0.002302626 BH	10	111	0	0	60.5
0.002312148 BH	5	11	123	136	8
0.002337257 BH	106	49	2	0	77.5
0.00235978 BH	1	0	29	42	0.5
0.00241305 BH	0	2	39	30	1
0.002483985 BH	0	0	11	45	0

0.002510348 BH	2	2	91	30	2
0.002510348 BH	1	2	50	35	1.5
0.002570743 BH	176	89	4	1	132.5
0.002596122 BH	1	2	44	39	1.5
0.002605075 BH	0	3	55	21	1.5
0.002614138 BH	0	1	34	14	0.5
0.002649514 BH	220	39	2	1	129.5
0.002649514 BH	13	178	1	0	95.5
0.002740706 BH	4	9	179	67	6.5
0.002740706 BH	659	488	17	17	573.5
0.002740706 BH	0	2	29	37	1
0.00277631 BH	0	1	4	81	0.5
0.002792927 BH	0	2	37	28	1
0.002844128 BH	1845	52	12	1	948.5
0.002844128 BH	11	87	0	0	49
0.002848216 BH	0	0	34	14	0
0.002848555 BH	1	0	47	22	0.5
0.00295808 BH	0	0	48	9	0
0.00295808 BH	0	0	22	21	0
0.00295808 BH	20	50	0	0	35
0.002998058 BH	0	0	17	27	0
0.002998058 BH	0	0	40	11	0
0.003001341 BH	0	3	50	20	1.5
0.003047491 BH	81	111	2	2	96
0.003069412 BH	0	0	15	29	0
0.003069412 BH	1	0	14	69	0.5
0.003108383 BH	19	51	0	0	35
0.003173296 BH	16	126	1	0	71
0.003182368 BH	13	69	0	0	41
0.003182368 BH	2	10	87	95	6
0.003194951 BH	166	43	2	1	104.5
0.003196592 BH	4	162	0	0	83
0.003282128 BH	0	0	23	19	0
0.003282128 BH	1	9	99	59	5
0.00328724 BH	73	10	0	0	41.5
0.003336227 BH	2	1	61	40	1.5
0.003374035 BH	193	35	2	1	114
0.003493188 BH	1	3	54	39	2
0.003493188 BH	0	0	31	13	0
0.003527096 BH	0	0	35	11	0
0.003530501 BH	1	0	44	20	0.5
0.003628427 BH	0	0	18	22	0
0.003641585 BH	41	394	3	3	217.5
0.003701981 BH	14	59	0	0	36.5
0.003799681 BH	4	144	0	0	74
0.003815738 BH	23	69	904	297	46
0.003815738 BH	0	2	36	24	1

0.003834963 BH	0	0	70	4	0
0.003864604 BH	27	123	2	0	75
0.003864604 BH	1	4	82	24	2.5
0.003902156 BH	0	1	30	12	0.5
0.003909899 BH	0	0	23	17	0
0.003939624 BH	29	61	1	0	45
0.003939624 BH	0	3	100	15	1.5
0.003954808 BH	0	0	28	13	0
0.00398371 BH	0	1	23	16	0.5
0.004042891 BH	0	0	35	10	0
0.004042891 BH	8	86	0	0	47
0.004092115 BH	0	0	66	4	0
0.004097396 BH	0	3	101	14	1.5
0.004097396 BH	16	47	0	0	31.5
0.004097396 BH	0	0	23	16	0
0.004097396 BH	0	0	41	8	0
0.004097396 BH	7	4	151	90	5.5
0.004134365 BH	9	77	0	0	43
0.004172846 BH	2	0	41	55	1
0.004208284 BH	0	0	34	10	0
0.004242017 BH	6	101	0	0	53.5
0.00426179 BH	4	11	98	100	7.5
0.004319716 BH	4	3	83	55	3.5
0.004328842 BH	0	0	20	18	0
0.004328842 BH	0	0	21	17	0
0.004356036 BH	0	0	27	13	0
0.004356036 BH	0	0	27	13	0
0.004356036 BH	227	22	2	1	124.5
0.004356036 BH	0	2	45	17	1
0.004356036 BH	3212	695	68	41	1953.5
0.004399401 BH	49	851	3	8	450
0.004442841 BH	0	0	70	3	0
0.004449711 BH	0	1	32	10	0.5
0.004449711 BH	0	0	32	10	0
0.004469283 BH	104	207	6	3	155.5
0.004544729 BH	0	1	13	25	0.5
0.004544729 BH	0	0	20	17	0
0.004555326 BH	3	26	155	187	14.5
0.004555326 BH	0	0	27	12	0
0.004555326 BH	0	0	27	12	0
0.004555326 BH	150	33	3	0	91.5
0.004657781 BH	2	5	89	34	3.5
0.004704 BH	59	746	8	6	402.5
0.004748044 BH	55	27	1	0	41
0.004748044 BH	14	183	0	1	98.5
0.004748044 BH	0	0	44	6	0
0.004748044 BH	1	9	97	47	5

0.004774806 BH	0	0	18	18	0
0.004774806 BH	17	40	0	0	28.5
0.004774806 BH	0	0	5	46	0
0.004774806 BH	2	0	111	18	1
0.004778883 BH	34	19	0	0	26.5
0.004778883 BH	128	168	3120	1016	148
0.004797137 BH	1	0	49	14	0.5
0.004853729 BH	1	1	49	23	1
0.004893919 BH	2	1	69	26	1.5
0.004920778 BH	3	7	93	48	5
0.004920778 BH	0	0	6	40	0
0.004926508 BH	0	0	14	22	0
0.004928431 BH	41	488	7	1	264.5
0.004955187 BH	3	2	149	22	2.5
0.004992988 BH	1	0	34	20	0.5
0.005012708 BH	56	25	1	0	40.5
0.005012708 BH	0	0	18	17	0
0.00501695 BH	0	0	53	4	0
0.00501695 BH	0	0	25	12	0
0.00503188 BH	80	367	2	7	223.5
0.005037975 BH	0	0	28	10	0
0.00508955 BH	0	1	30	9	0.5
0.005135275 BH	1	0	52	12	0.5
0.005142812 BH	0	1	24	12	0.5
0.005142812 BH	0	1	40	6	0.5
0.00515598 BH	6	84	0	0	45
0.0051826 BH	1	0	72	8	0.5
0.005210366 BH	24	57	1	0	40.5
0.005223108 BH	53	87	2	1	70
0.005223108 BH	1	2	48	21	1.5
0.005229439 BH	7	73	0	0	40
0.005229439 BH	0	0	46	5	0
0.005229439 BH	0	0	18	16	0
0.005229439 BH	0	0	18	16	0
0.005229439 BH	2	5	66	41	3.5
0.005276488 BH	160	224	10	2	192
0.005286013 BH	1	3	24	62	2
0.005354317 BH	51	49	2	0	50
0.005392423 BH	5	5	96	68	5
0.005406019 BH	0	1	18	15	0.5
0.0054085 BH	0	1	26	10	0.5
0.005485812 BH	0	0	30	9	0
0.005557961 BH	53	24	1	0	38.5
0.005557961 BH	74	78	2	2	76
0.005557961 BH	76	146	1	4	111
0.005557961 BH	0	0	27	10	0
0.005557961 BH	242	357	17	4	299.5

0.005557961 BH	1208	170	27	7	689
0.005557961 BH	8	0	50	366	4
0.005557961 BH	0	0	29	9	0
0.005557961 BH	0	0	29	9	0
0.005568432 BH	0	2	43	14	1
0.00559419 BH	0	5	52	35	2.5
0.005608309 BH	0	0	147	0	0
0.005703259 BH	0	1	23	11	0.5
0.005704618 BH	0	1	19	14	0.5
0.005704618 BH	0	0	42	5	0
0.005704618 BH	0	0	42	5	0
0.005857401 BH	7	2	158	58	4.5
0.005872874 BH	0	0	37	6	0
0.005872874 BH	6	76	0	0	41
0.005887586 BH	0	1	21	12	0.5
0.005954975 BH	15	140	0	1	77.5
0.005954975 BH	0	0	36	6	0
0.005954975 BH	61	207	6	1	134
0.00601701 BH	1	0	85	5	0.5
0.006020208 BH	1	4	37	36	2.5
0.006020208 BH	5	84	0	0	44.5
0.006133742 BH	1	7	59	45	4
0.006133742 BH	1	4	32	42	2.5
0.006133742 BH	0	2	9	55	1
0.006133742 BH	3	107	0	0	55
0.006195657 BH	0	4	29	36	2
0.006258097 BH	0	0	23	11	0
0.006262073 BH	0	0	16	16	0
0.006262073 BH	0	0	31	7	0
0.006262073 BH	0	0	9	25	0
0.006310602 BH	0	0	39	5	0
0.006408169 BH	0	0	132	0	0
0.006463111 BH	1	0	43	12	0.5
0.006463111 BH	0	0	22	11	0
0.006463111 BH	0	0	22	11	0
0.006463111 BH	4	20	186	78	12
0.006464507 BH	15	223	3	0	119
0.006660763 BH	10	48	0	0	29
0.006660763 BH	27	18	0	0	22.5
0.006678018 BH	11	694	1	4	352.5
0.006701851 BH	0	0	18	13	0
0.006701851 BH	0	0	16	15	0
0.006701851 BH	0	0	37	5	0
0.006701851 BH	3	3	59	41	3
0.006701851 BH	1	0	285	0	0.5
0.006752421 BH	1231	479	47	20	855
0.006805271 BH	10	545	4	1	277.5

0.00685143 BH	0	0	23	10	0
0.006853287 BH	29	16	0	0	22.5
0.007094672 BH	1	0	85	4	0.5
0.007110426 BH	0	0	24	9	0
0.007207666 BH	0	2	46	10	1
0.007227089 BH	0	1	18	12	0.5
0.007227089 BH	13	37	0	0	25
0.007227089 BH	0	0	19	12	0
0.007277296 BH	0	0	28	7	0
0.007334347 BH	1	3	43	27	2
0.007369024 BH	0	0	23	9	0
0.007369024 BH	1	0	39	12	0.5
0.007376099 BH	25	251	4	1	138
0.007376099 BH	0	2	19	26	1
0.007376099 BH	0	1	21	10	0.5
0.007376099 BH	0	1	21	10	0.5
0.007376099 BH	0	1	21	10	0.5
0.007376099 BH	0	0	20	11	0
0.007403295 BH	0	0	70	1	0
0.007450238 BH	3	0	98	22	1.5
0.007450238 BH	137	19	0	2	78
0.007478938 BH	6	64	0	0	35
0.00751581 BH	0	5	34	42	2.5
0.007556954 BH	20	52	1	0	36
0.007556954 BH	1	0	25	19	0.5
0.007556954 BH	1	0	24	20	0.5
0.007640598 BH	6	61	0	0	33.5
0.007640598 BH	0	0	0	93	0
0.007640598 BH	0	0	18	12	0
0.007640598 BH	16	29	0	0	22.5
0.0077061 BH	70	1757	24	6	913.5
0.007707216 BH	2	2	68	16	2
0.007707216 BH	5	67	0	0	36
0.00775632 BH	0	0	22	9	0
0.007757015 BH	0	0	43	3	0
0.007757015 BH	0	7	64	33	3.5
0.007763371 BH	28	14	0	0	21
0.007763371 BH	31	33	1	0	32
0.007763371 BH	7	54	0	0	30.5
0.007763371 BH	7	320	3	0	163.5
0.007766676 BH	0	0	19	11	0
0.007766676 BH	0	0	27	7	0
0.007804795 BH	34	102	1	2	68
0.007881986 BH	288	84	8	5	186
0.008131894 BH	0	1	25	7	0.5
0.008221872 BH	0	0	17	12	0
0.008321806 BH	0	0	29	6	0



0.008324871 BH	0	0	21	9	0
0.008324871 BH	19	23	0	0	21
0.008393304 BH	23	17	0	0	20
0.008481747 BH	0	0	19	10	0
0.008510991 BH	22	3	348	252	12.5
0.008612357 BH	0	0	28	6	0
0.008612357 BH	3	1	54	32	2
0.008612357 BH	26	36	1	0	31
0.008612357 BH	0	0	35	4	0
0.008612357 BH	0	1	16	12	0.5
0.008650068 BH	4	1	73	34	2.5
0.008662929 BH	1	1	20	35	1
0.008668645 BH	43	282	7	1	162.5
0.008668645 BH	0	0	25	7	0
0.008679048 BH	3	1	91	18	2
0.008680346 BH	1	0	17	25	0.5
0.008695137 BH	7	3	20	278	5
0.008695137 BH	19	48	1	0	33.5
0.008735762 BH	95	43	3	1	69
0.008735762 BH	93	0	0	0	46.5
0.008754471 BH	0	1	13	14	0.5
0.008754471 BH	0	1	13	14	0.5
0.008755467 BH	0	0	27	6	0
0.008780162 BH	0	0	0	81	0
0.008780162 BH	1	120	0	0	60.5
0.008821387 BH	85	48	3	1	66.5
0.008906509 BH	15	335	4	0	175
0.008935582 BH	0	1	24	7	0.5
0.008937407 BH	0	0	7	23	0
0.009017801 BH	2	5	36	50	3.5
0.00907833 BH	0	0	22	8	0
0.00907833 BH	0	1	26	6	0.5
0.009095942 BH	3	76	0	0	39.5
0.009144942 BH	57	342	9	3	199.5
0.009159218 BH	0	5	23	51	2.5
0.009159218 BH	0	1	15	12	0.5
0.009270054 BH	7	36	162	185	21.5
0.009283178 BH	14	1631	6	10	822.5
0.009328023 BH	0	0	26	6	0
0.009397489 BH	0	2	27	15	1
0.009397489 BH	24	36	1	0	30
0.00950197 BH	9	39	0	0	24
0.00950349 BH	133	49	5	1	91
0.00950349 BH	8	5	148	51	6.5
0.009513203 BH	0	0	44	2	0
0.009598503 BH	2	88	0	0	45
0.009598503 BH	2	88	0	0	45

0.009697633 BH	0	1	31	4	0.5
0.009713409 BH	0	168	0	0	84
0.009949663 BH	4	4	34	81	4
0.010009805 BH	1	0	33	11	0.5
0.010009805 BH	10	35	0	0	22.5
0.010029065 BH	2	0	17	62	1
0.010042092 BH	0	0	0	71	0
0.010192423 BH	0	0	27	5	0
0.010192423 BH	0	0	27	5	0
0.010285965 BH	0	1	15	11	0.5
0.010294589 BH	0	1	20	8	0.5
0.010306292 BH	5	5	290	10	5
0.010344985 BH	0	0	22	7	0
0.010386229 BH	5	55	0	0	30
0.010405501 BH	0	0	0	68	0
0.010405501 BH	2	12	69	59	7
0.010413745 BH	0	0	24	6	0
0.010457259 BH	0	3	20	19	1.5
0.010457259 BH	10	33	0	0	21.5
0.010457259 BH	0	0	17	10	0
0.010457259 BH	0	0	17	10	0
0.010457259 BH	0	0	17	10	0
0.01071245 BH	0	0	7	20	0
0.010753281 BH	1	8	51	34	4.5
0.010753281 BH	0	3	17	21	1.5
0.010753281 BH	0	0	21	7	0
0.010753281 BH	0	1	21	7	0.5
0.010753281 BH	0	1	21	7	0.5
0.010753281 BH	0	0	21	7	0
0.010753281 BH	5	8	75	56	6.5
0.010753281 BH	422	156	15	11	289
0.010801976 BH	0	0	23	6	0
0.010875453 BH	4	7	86	42	5.5
0.010962089 BH	0	1	28	4	0.5
0.010988072 BH	0	10	38	63	5
0.011026985 BH	0	1	15	10	0.5
0.011026985 BH	19	17	0	0	18
0.011026985 BH	6	422	3	2	214
0.011031034 BH	5	51	0	0	28
0.01103417 BH	0	1	32	3	0.5
0.011184234 BH	0	7	37	43	3.5
0.011277592 BH	1	5	58	20	3
0.011280447 BH	1	0	21	17	0.5
0.011280447 BH	8	38	0	0	23
0.011396619 BH	0	2	41	7	1
0.011451081 BH	118	24	3	1	71
0.011541421 BH	0	0	37	2	0

0.011614043 BH	89	21	3	0	55
0.011615534 BH	0	0	20	7	0
0.011733422 BH	0	2	28	12	1
0.012126168 BH	0	0	28	4	0
0.012126168 BH	0	1	16	9	0.5
0.012126168 BH	28	114	0	3	71
0.012145493 BH	4	189	2	0	96.5
0.01215103 BH	12	56	1	0	34
0.012232357 BH	1	0	31	10	0.5
0.012232357 BH	0	1	26	4	0.5
0.012245292 BH	57	57	3	1	57
0.012288953 BH	168	195	12	6	181.5
0.012288953 BH	0	0	21	6	0
0.012294382 BH	186	43	7	1	114.5
0.012294382 BH	0	1	23	5	0.5
0.012302021 BH	7	302	3	1	154.5
0.012302021 BH	1	0	62	3	0.5
0.012302021 BH	4	53	0	0	28.5
0.012336723 BH	0	7	41	36	3.5
0.012354747 BH	36	89	3	1	62.5
0.012471427 BH	1	88	0	0	44.5
0.012471427 BH	67	126	5	3	96.5
0.012471427 BH	1	0	92	1	0.5
0.012528317 BH	99	36	3	2	67.5
0.01260804 BH	0	0	10	14	0
0.01260804 BH	0	0	17	8	0
0.012678145 BH	32	38	0	1	35
0.012815625 BH	50	529	10	7	289.5
0.012815625 BH	0	0	30	3	0
0.012815625 BH	0	0	30	3	0
0.012815625 BH	21	58	2	0	39.5
0.012842224 BH	18	16	0	0	17
0.01292696 BH	16	18	0	0	17
0.012937501 BH	43	243	7	0	143
0.013074589 BH	0	1	11	12	0.5
0.013074589 BH	56	34	3	0	45
0.013192578 BH	0	0	23	5	0
0.013274971 BH	0	0	18	7	0
0.013274971 BH	0	0	18	7	0
0.013316606 BH	0	0	5	21	0
0.013408214 BH	0	0	15	9	0
0.013408214 BH	0	0	15	9	0
0.013437538 BH	6	13	107	57	9.5
0.013437538 BH	0	3	27	11	1.5
0.013440358 BH	15	42	1	0	28.5
0.013441981 BH	0	3	13	23	1.5
0.013481163 BH	0	0	7	17	0

0.013541563 BH	0	1	19	6	0.5
0.013541563 BH	7	37	0	0	22
0.013646982 BH	2	67	0	0	34.5
0.013646982 BH	2	66	0	0	34
0.0136522 BH	122	28	4	0	75
0.0136522 BH	15	19	0	0	17
0.013672834 BH	9	140	1	1	74.5
0.013790031 BH	0	3	21	14	1.5
0.013881353 BH	0	0	20	6	0
0.014140404 BH	591	240	28	16	415.5
0.014140404 BH	0	2	43	5	1
0.014140404 BH	19	912	11	6	465.5
0.014140404 BH	0	4	39	13	2
0.014140404 BH	1	0	29	9	0.5
0.014140404 BH	160	36	6	2	98
0.014140404 BH	0	0	12	11	0
0.014140404 BH	0	1	14	9	0.5
0.014140404 BH	0	1	14	9	0.5
0.014140404 BH	0	0	14	9	0
0.014140404 BH	0	0	14	9	0
0.014413182 BH	29	6	0	0	17.5
0.014448187 BH	0	0	24	4	0
0.014448187 BH	0	0	24	4	0
0.014448187 BH	0	0	24	4	0
0.014533107 BH	0	1	15	8	0.5
0.014605015 BH	10	8	17	335	9
0.014605015 BH	0	0	27	3	0
0.014669191 BH	0	0	8	15	0
0.014687259 BH	0	0	2	29	0
0.014696015 BH	53	100	5	0	76.5
0.014780715 BH	1	78	0	0	39.5
0.014798737 BH	5	43	0	0	24
0.014818666 BH	1	7	50	27	4
0.014818666 BH	0	1	16	7	0.5
0.014818666 BH	0	1	16	7	0.5
0.014971404 BH	3	3	27	47	3
0.014971404 BH	0	0	19	6	0
0.014971404 BH	0	2	25	11	1
0.015081449 BH	0	2	21	13	1
0.015148814 BH	9	292	4	1	150.5
0.015148814 BH	1	5	43	22	3
0.015148814 BH	0	1	26	3	0.5
0.015148814 BH	0	0	17	7	0
0.015148814 BH	3	3	49	26	3
0.015305284 BH	17	14	0	0	15.5
0.015305284 BH	6	36	0	0	21
0.015336099 BH	6	74	1	0	40

0.01546261 BH	1	1	33	13	1
0.01546261 BH	0	0	23	4	0
0.01546261 BH	653	223	25	22	438
0.015481557 BH	0	107	0	0	53.5
0.015481557 BH	34	43	1	1	38.5
0.015481557 BH	0	0	54	0	0
0.015481557 BH	0	0	54	0	0
0.015586461 BH	0	4	20	24	2
0.015586461 BH	18	13	0	0	15.5
0.015586461 BH	0	0	20	5	0
0.015706525 BH	1	0	33	7	0.5
0.015706525 BH	1	0	25	10	0.5
0.015706525 BH	0	0	10	12	0
0.015706525 BH	0	1	9	12	0.5
0.015719702 BH	4	44	0	0	24
0.015719702 BH	0	0	18	6	0
0.015719702 BH	0	2	24	11	1
0.015719702 BH	0	1	22	4	0.5
0.015719702 BH	0	1	22	4	0.5
0.015719702 BH	0	4	27	18	2
0.015885251 BH	8	102	2	0	55
0.016059803 BH	0	1	15	7	0.5
0.016077093 BH	0	2	39	5	1
0.01611811 BH	0	0	7	15	0
0.016119549 BH	2	0	61	11	1
0.016170518 BH	11	47	1	0	29
0.016226557 BH	2	9	44	43	5.5
0.016310416 BH	24	23	285	148	23.5
0.016310416 BH	20	80	3	0	50
0.016390672 BH	0	0	16	7	0
0.016390672 BH	0	0	16	7	0
0.016390672 BH	0	0	29	2	0
0.016390672 BH	0	0	29	2	0
0.016435974 BH	0	1	19	5	0.5
0.01646054 BH	4	42	0	0	23
0.016569296 BH	163	318	17	10	240.5
0.016756308 BH	0	3	15	17	1.5
0.016756781 BH	0	0	11	10	0
0.016756781 BH	0	1	11	10	0.5
0.016756781 BH	0	0	12	9	0
0.016756781 BH	567	178	31	4	372.5
0.016756781 BH	2	55	0	0	28.5
0.016756781 BH	72	108	6	3	90
0.016846784 BH	0	2	19	13	1
0.016846784 BH	0	0	1	31	0
0.016846784 BH	25	99	3	1	62
0.016846784 BH	17	55	2	0	36

0.016846784 BH	0	4	27	17	2
0.016846784 BH	0	1	21	4	0.5
0.016846784 BH	0	0	21	4	0
0.016846784 BH	0	0	21	4	0
0.016997468 BH	184	3098	62	41	1641
0.017021018 BH	12	20	0	0	16
0.01706328 BH	2	56	0	0	29
0.01706328 BH	2	4	72	14	3
0.017066133 BH	1	0	68	1	0.5
0.017446107 BH	0	0	15	7	0
0.017446107 BH	0	0	15	7	0
0.017446107 BH	0	0	15	7	0
0.017508437 BH	1	67	0	0	34
0.017587961 BH	0	0	27	2	0
0.017587961 BH	0	0	27	2	0
0.017587961 BH	2	2	19	31	2
0.017750011 BH	11	134	2	1	72.5
0.017750011 BH	10	9	195	37	9.5
0.017750011 BH	0	1	18	5	0.5
0.017750011 BH	0	0	18	5	0
0.017750011 BH	0	1	16	6	0.5
0.017750011 BH	7	29	0	0	18
0.017750011 BH	4	5	40	43	4.5
0.017750011 BH	25	259	5	4	142
0.017750011 BH	0	1	20	4	0.5
0.017750011 BH	0	0	20	4	0
0.017750011 BH	0	1	20	4	0.5
0.017750011 BH	0	1	20	4	0.5
0.017755238 BH	1	7	36	32	4
0.017760515 BH	0	0	23	3	0
0.017760515 BH	0	0	23	3	0
0.01778694 BH	10	142	2	1	76
0.018000987 BH	1	0	23	10	0.5
0.018000987 BH	28	4	0	0	16
0.018049182 BH	0	0	8	13	0
0.018108044 BH	1	2	40	8	1.5
0.018187072 BH	0	1	11	9	0.5
0.018452949 BH	47	29	3	0	38
0.018452949 BH	0	5	42	16	2.5
0.018579182 BH	2	0	27	25	1
0.018631666 BH	1	1	35	10	1
0.018631666 BH	8	26	0	0	17
0.018631666 BH	0	0	13	8	0
0.018668877 BH	17	70	1	1	43.5
0.018754499 BH	1	0	22	10	0.5
0.018754869 BH	2	32	113	124	17
0.018754869 BH	0	0	22	3	0

0.018754869 BH	0	0	4	18	0
0.018874923 BH	0	1	17	5	0.5
0.018874923 BH	0	0	17	5	0
0.018874923 BH	88	10	3	0	49
0.018874923 BH	37	84	4	1	60.5
0.018898884 BH	1	7	39	28	4
0.018951908 BH	0	0	14	7	0
0.018951908 BH	20	277	6	2	148.5
0.018951908 BH	2	50	0	0	26
0.019019171 BH	2	4	40	18	3
0.019150336 BH	1	62	0	0	31.5
0.019174189 BH	6	102	2	0	54
0.019174189 BH	1	1	30	12	1
0.019174189 BH	26	4	0	0	15
0.019174189 BH	1	10	51	37	5.5
0.019192814 BH	59	46	3	2	52.5
0.019192814 BH	305	236	18	17	270.5
0.019192814 BH	0	1	15	6	0.5
0.019192814 BH	0	0	15	6	0
0.019192814 BH	0	0	15	6	0
0.019192814 BH	0	1	15	6	0.5
0.019192814 BH	0	1	15	6	0.5
0.019291307 BH	99	168	11	4	133.5
0.019365012 BH	0	86	0	0	43
0.019365012 BH	0	85	0	0	42.5
0.019365012 BH	0	85	0	0	42.5
0.019365012 BH	0	5	35	18	2.5
0.019545344 BH	1	59	0	0	30
0.019545344 BH	1	60	0	0	30.5
0.019604623 BH	20	38	319	110	29
0.019811692 BH	0	5	39	16	2.5
0.019935134 BH	0	1	10	9	0.5
0.020107355 BH	0	3	27	7	1.5
0.020107355 BH	0	1	16	5	0.5
0.020107355 BH	0	1	16	5	0.5
0.020159361 BH	2	2	53	8	2
0.020214067 BH	22	6	0	0	14
0.020245173 BH	2	1	40	13	1.5
0.020254385 BH	55	486	14	8	270.5
0.020254385 BH	67	71	4	3	69
0.020254385 BH	1	0	22	9	0.5
0.020254385 BH	0	0	13	7	0
0.020254385 BH	0	0	13	7	0
0.020254385 BH	0	1	9	10	0.5
0.020254385 BH	0	0	18	4	0
0.020254385 BH	0	0	18	4	0
0.020254385 BH	0	0	18	4	0

0.020254385 BH	18	9	0	0	13.5
0.020280506 BH	3	5	54	22	4
0.020361254 BH	0	3	24	8	1.5
0.020361254 BH	3	41	0	0	22
0.020393668 BH	1	13	108	19	7
0.020520477 BH	0	3	16	13	1.5
0.020607022 BH	0	0	8	11	0
0.020607022 BH	7	26	0	0	16.5
0.020812863 BH	2	2	52	8	2
0.020812863 BH	5	31	0	0	18
0.020812863 BH	6	58	1	0	32
0.021141969 BH	5	0	13	108	2.5
0.021182907 BH	3	3	49	19	3
0.021208078 BH	4	36	0	0	20
0.021329455 BH	10	94	1	1	52
0.021329455 BH	4	22	183	33	13
0.021567242 BH	29	178	5	3	103.5
0.021644877 BH	0	0	7	12	0
0.021755682 BH	382	405	20	31	393.5
0.022179166 BH	9	20	0	0	14.5
0.022179166 BH	0	1	12	7	0.5
0.022179166 BH	0	1	15	5	0.5
0.022179166 BH	0	1	15	5	0.5
0.022218871 BH	2	45	0	0	23.5
0.022218871 BH	0	3	14	14	1.5
0.022490032 BH	0	1	22	2	0.5
0.022490032 BH	3	0	72	10	1.5
0.022585444 BH	6	16	67	77	11
0.022585444 BH	11	17	0	0	14
0.022585444 BH	0	1	8	10	0.5
0.022585444 BH	8	22	0	0	15
0.022666709 BH	3	75	1	0	39
0.022666709 BH	3	74	1	0	38.5
0.022689973 BH	26	3	0	0	14.5
0.022689973 BH	0	0	20	3	0
0.023052157 BH	0	0	38	0	0
0.02307822 BH	0	0	13	6	0
0.02307822 BH	23	32	0	1	27.5
0.023243862 BH	6190	85	83	0	3137.5
0.023283851 BH	0	5	53	9	2.5
0.023379825 BH	0	2	15	13	1
0.02342007 BH	86	190	11	6	138
0.023618988 BH	0	1	16	4	0.5
0.023618988 BH	0	1	16	4	0.5
0.023618988 BH	0	1	16	4	0.5
0.023618988 BH	0	1	16	4	0.5
0.023620226 BH	25	3	0	0	14



0.023620226 BH	25	3	0	0	14
0.023692035 BH	0	0	0	32	0
0.023693214 BH	2	4	26	24	3
0.023862991 BH	6	52	1	0	29
0.02394765 BH	2	43	0	0	22.5
0.024297777 BH	23	15	1	0	19
0.024379953 BH	0	0	22	2	0
0.024509413 BH	19	37	2	0	28
0.024633666 BH	17	23	1	0	20
0.024780771 BH	1	50	0	0	25.5
0.024780771 BH	0	1	25	1	0.5
0.024780771 BH	0	0	10	8	0
0.024780771 BH	0	0	10	8	0
0.02483859 BH	2	0	22	24	1
0.02493629 BH	24	132	1	4	78
0.02493629 BH	3	35	0	0	19
0.025004948 BH	3	11	68	33	7
0.025005201 BH	307	87	7	15	197
0.025097834 BH	2	17	52	69	9.5
0.025097834 BH	1	0	23	7	0.5
0.025097834 BH	15	26	1	0	20.5
0.025097834 BH	0	2	15	12	1
0.025097834 BH	0	0	9	9	0
0.025097834 BH	0	0	11	7	0
0.025097834 BH	8	21	0	0	14.5
0.025097834 BH	0	0	11	7	0
0.025097834 BH	0	0	11	7	0
0.025403745 BH	1	13	45	44	7
0.025431809 BH	449	236	9	30	342.5
0.025541844 BH	14	11	0	0	12.5
0.025693942 BH	0	0	8	10	0
0.025693942 BH	0	6	23	23	3
0.025693942 BH	1	0	40	2	0.5
0.025704689 BH	0	3	16	11	1.5
0.025704689 BH	0	0	21	2	0
0.025704689 BH	0	0	21	2	0
0.025704689 BH	19	6	0	0	12.5
0.025763535 BH	8	122	2	1	65
0.025828922 BH	123	41	7	2	82
0.025828922 BH	49	366	12	7	207.5
0.025964085 BH	0	0	16	4	0
0.025964085 BH	16	58	1	1	37
0.025974297 BH	338	297	35	9	317.5
0.025974297 BH	0	5	30	17	2.5
0.025983951 BH	0	0	34	0	0
0.025983951 BH	6	24	0	0	15
0.025983951 BH	0	1	13	5	0.5

0.026170257 BH	129	101	10	6	115
0.026170257 BH	0	4	15	21	2
0.026203598 BH	4	60	1	0	32
0.026314217 BH	33	18	2	0	25.5
0.026403029 BH	4	98	2	0	51
0.026493616 BH	54	120	7	3	87
0.026526355 BH	12	13	0	0	12.5
0.026651727 BH	83	83	7	4	83
0.027127368 BH	14	25	1	0	19.5
0.027167963 BH	5	26	0	0	15.5
0.027167963 BH	12	12	0	0	12
0.027172425 BH	25	12	1	0	18.5
0.027172425 BH	10	103	2	1	56.5
0.027207751 BH	74	123	5	7	98.5
0.027212578 BH	38	13	2	0	25.5
0.027238069 BH	1	5	29	21	3
0.027255717 BH	0	63	0	0	31.5
0.027316825 BH	118	91	11	3	104.5
0.027316825 BH	5	1	79	20	3
0.027316825 BH	8	19	0	0	13.5
0.027316825 BH	8	19	0	0	13.5
0.027316825 BH	0	1	10	7	0.5
0.027316825 BH	0	1	10	7	0.5
0.027316825 BH	8	19	0	0	13.5
0.027336154 BH	1	17	85	32	9
0.027375655 BH	6	168	0	3	87
0.027469231 BH	15	23	1	0	19
0.027469231 BH	1	0	13	13	0.5
0.027539625 BH	1	1	19	15	1
0.027602632 BH	4	2	66	15	3
0.027604316 BH	0	64	0	0	32
0.027604316 BH	36	14	0	1	25
0.027604316 BH	0	783	0	4	391.5
0.027604316 BH	0	0	20	2	0
0.027604316 BH	0	8	30	25	4
0.027604316 BH	0	0	8	9	0
0.027604316 BH	10	15	0	0	12.5
0.027604316 BH	10	15	0	0	12.5
0.027604316 BH	7	20	0	0	13.5
0.027604316 BH	0	0	33	0	0
0.027649397 BH	0	1	17	3	0.5
0.027722979 BH	0	2	21	7	1
0.027755863 BH	0	0	15	4	0
0.027800845 BH	12	119	1	3	65.5
0.027800845 BH	0	2	11	15	1
0.027800845 BH	9	35	1	0	22
0.027800845 BH	0	2	18	9	1

0.027800845 BH	5	7	79	25	6
0.027844118 BH	8	87	1	1	47.5
0.027844118 BH	6	3	14	107	4.5
0.027844118 BH	11	52	2	0	31.5
0.027844118 BH	7	93	1	1	50
0.028021726 BH	0	0	17	3	0
0.028021726 BH	0	0	17	3	0
0.028021726 BH	0	0	17	3	0
0.028620178 BH	3	2	27	30	2.5
0.028786851 BH	0	5	31	15	2.5
0.028807549 BH	1	0	13	12	0.5
0.028807549 BH	11	29	1	0	20
0.02882181 BH	4	29	0	0	16.5
0.02919207 BH	0	3	19	8	1.5
0.02919207 BH	0	3	19	8	1.5
0.02919207 BH	8	37	1	0	22.5
0.02919207 BH	0	0	13	5	0
0.02919207 BH	5	24	0	0	14.5
0.02921426 BH	0	0	23	1	0
0.02926443 BH	1	2	33	6	1.5
0.029282257 BH	11	70	1	1	40.5
0.029436043 BH	7	7	98	26	7
0.029436043 BH	24	66	3	1	45
0.029511871 BH	21	1034	21	8	527.5
0.02960191 BH	0	3	41	5	1.5
0.029687186 BH	5	25	0	0	15
0.029687186 BH	12	11	0	0	11.5
0.029687186 BH	5	25	0	0	15
0.029694148 BH	1	3	18	22	2
0.029743105 BH	1	0	20	7	0.5
0.029885045 BH	8	62	2	0	35
0.030052464 BH	0	0	1	20	0
0.030185942 BH	92	595	20	17	343.5
0.030185942 BH	14	100	3	1	57
0.030273413 BH	2	16	70	37	9
0.030559595 BH	0	0	16	3	0
0.030559595 BH	308	0	1	4	154
0.03067469 BH	25	63	3	1	44
0.030733065 BH	107	237	15	9	172
0.030733065 BH	0	0	30	0	0
0.030733065 BH	4	26	0	0	15
0.030733065 BH	0	0	14	4	0
0.030733065 BH	0	0	22	1	0
0.030733065 BH	0	0	22	1	0
0.030733065 BH	0	1	10	6	0.5
0.030733065 BH	0	1	10	6	0.5
0.030733065 BH	0	0	8	8	0

0.030733065 BH	0	1	10	6	0.5
0.030733065 BH	0	0	8	8	0
0.030733065 BH	0	0	9	7	0
0.030733065 BH	7	19	0	0	13
0.030750499 BH	0	1	18	2	0.5
0.030750499 BH	0	1	18	2	0.5
0.031344916 BH	4	27	0	0	15.5
0.031351903 BH	0	2	19	7	1
0.031627954 BH	919	171	32	40	545
0.031824096 BH	3	6	32	33	4.5
0.031831901 BH	0	2	22	6	1
0.031978114 BH	15	26	158	83	20.5
0.032041911 BH	0	0	12	5	0
0.032041911 BH	0	0	12	5	0
0.032041911 BH	0	0	12	5	0
0.032327167 BH	1	2	18	13	1.5
0.03234719 BH	7	84	1	1	45.5
0.03234719 BH	28	18	2	0	23
0.03234719 BH	4	51	1	0	27.5
0.032391463 BH	29	62	3	2	45.5
0.032391463 BH	60	92	7	3	76
0.032536007 BH	15	20	1	0	17.5
0.032536007 BH	0	0	4	12	0
0.032566754 BH	0	0	6	10	0
0.032566754 BH	0	0	6	10	0
0.033145379 BH	1	3	38	8	2
0.033145379 BH	2	1	50	5	1.5
0.033145379 BH	0	55	0	0	27.5
0.033145379 BH	0	0	15	3	0
0.033145379 BH	0	0	15	3	0
0.033145379 BH	0	0	15	3	0
0.033150146 BH	12	80	2	1	46
0.033250973 BH	2	64	1	0	33
0.033438215 BH	0	1	17	2	0.5
0.033543671 BH	0	2	21	6	1
0.033543671 BH	3	0	11	45	1.5
0.033543671 BH	3	0	32	19	1.5
0.033672598 BH	36	27	2	1	31.5
0.033672598 BH	3	29	0	0	16
0.033672598 BH	3	28	0	0	15.5
0.033672598 BH	138	161	17	6	149.5
0.033672598 BH	0	0	13	4	0
0.033672598 BH	0	0	13	4	0
0.033672598 BH	0	0	13	4	0
0.033686798 BH	10	28	1	0	19
0.033857293 BH	0	8	30	21	4
0.033908153 BH	0	0	17	2	0

0.034087548 BH	89	27	6	1	58
0.034087548 BH	0	1	9	6	0.5
0.034087548 BH	0	1	8	7	0.5
0.034287277 BH	0	0	5	11	0
0.034287277 BH	4	25	0	0	14.5
0.03454169 BH	2	2	36	8	2
0.03454169 BH	22	195	6	4	108.5
0.03454169 BH	0	9	41	21	4.5
0.034553982 BH	0	3	18	7	1.5
0.034578603 BH	30	27	3	0	28.5
0.03462825 BH	7	17	0	0	12
0.03462825 BH	0	0	10	6	0
0.03462825 BH	7	17	0	0	12
0.034659792 BH	77	38	6	0	57.5
0.034659792 BH	0	0	27	0	0
0.034665858 BH	0	7	42	13	3.5
0.034777991 BH	0	1	4	11	0.5
0.034855651 BH	22	22	2	0	22
0.035070493 BH	1	0	16	8	0.5
0.035070493 BH	2	33	0	0	17.5
0.035210042 BH	0	0	11	5	0
0.035210042 BH	0	0	11	5	0
0.035242881 BH	1	38	0	0	19.5
0.035340307 BH	0	52	0	0	26
0.035340307 BH	0	11	52	22	5.5
0.035340307 BH	0	0	3	13	0
0.03536636 BH	0	0	0	23	0
0.035377516 BH	100	67	6	6	83.5
0.035477285 BH	5	0	80	12	2.5
0.035699356 BH	0	4	9	24	2
0.035699356 BH	0	2	9	14	1
0.035699356 BH	5	21	0	0	13
0.035699356 BH	0	0	6	9	0
0.035699356 BH	0	0	6	9	0
0.035728632 BH	3	306	2	4	154.5
0.035728632 BH	1	39	0	0	20
0.035728632 BH	1	39	0	0	20
0.035815336 BH	0	1	16	2	0.5
0.035815336 BH	0	1	16	2	0.5
0.035815336 BH	0	0	14	3	0
0.035831341 BH	0	5	25	15	2.5
0.035831341 BH	0	0	26	0	0
0.036112553 BH	100	20	6	1	60
0.036162393 BH	1069	288	78	29	678.5
0.036162393 BH	0	1	12	4	0.5
0.036162393 BH	10	11	0	0	10.5
0.036162393 BH	0	1	12	4	0.5

0.036222341 BH	516	40	23	10	278
0.036222341 BH	0	3	17	7	1.5
0.036222341 BH	0	2	18	7	1
0.036248996 BH	11	25	1	0	18
0.036319215 BH	0	0	16	2	0
0.036421819 BH	0	0	0	22	0
0.036632626 BH	2	11	45	27	6.5
0.036632626 BH	0	0	19	1	0
0.036632626 BH	1	8	33	19	4.5
0.036632626 BH	0	0	12	4	0
0.036632626 BH	0	0	12	4	0
0.036632626 BH	0	0	12	4	0
0.036632626 BH	0	0	12	4	0
0.036668633 BH	128	120	13	7	124
0.036668633 BH	17	10	115	91	13.5
0.036668633 BH	2	5	20	29	3.5
0.036668633 BH	19	82	3	2	50.5
0.036820379 BH	2	30	0	0	16
0.036909135 BH	14	2	36	181	8
0.037122826 BH	118	15	6	0	66.5
0.037394268 BH	82	1447	50	16	764.5
0.03739651 BH	1	3	18	18	2
0.03744083 BH	150	81	12	6	115.5
0.03744083 BH	59	23	4	0	41
0.03744083 BH	40	29	2	2	34.5
0.03744083 BH	0	5	22	17	2.5
0.03744083 BH	81	62	7	4	71.5
0.037635519 BH	14	19	1	0	16.5
0.037645124 BH	34	185	7	5	109.5
0.037899928 BH	11	9	0	0	10
0.037903077 BH	0	47	0	0	23.5
0.037903077 BH	0	0	25	0	0
0.038651491 BH	619	85	39	6	352
0.038738717 BH	0	1	18	1	0.5
0.038739633 BH	17	86	3	2	51.5
0.038739633 BH	6	17	0	0	11.5
0.038739633 BH	8	14	0	0	11
0.038739633 BH	6	18	0	0	12
0.038739633 BH	0	0	8	7	0
0.038739633 BH	0	0	9	6	0
0.038739633 BH	0	0	9	6	0
0.038793664 BH	0	3	3	36	1.5
0.038802793 BH	0	1	15	2	0.5
0.038882334 BH	78	160	13	5	119
0.0389613 BH	5	26	96	55	15.5
0.038987322 BH	2	0	2	58	1
0.039041356 BH	490	248	28	34	369

0.039064348 BH	28	26	3	0	27
0.039064348 BH	30	24	3	0	27
0.039064348 BH	81	38	6	2	59.5
0.039064348 BH	12	8	0	0	10
0.03924668 BH	0	0	6	8	0
0.03924668 BH	0	1	6	8	0.5
0.03924668 BH	0	2	13	9	1
0.03924668 BH	0	2	13	9	1
0.03924668 BH	0	2	13	9	1
0.03924668 BH	3	3	41	13	3
0.039255862 BH	0	0	2	14	0
0.039255862 BH	0	0	2	14	0
0.039255862 BH	4	0	10	57	2
0.039382899 BH	0	0	24	0	0
0.039382899 BH	0	0	24	0	0
0.039382899 BH	0	45	0	0	22.5
0.039382899 BH	104	241	17	0	172.5
0.039384514 BH	9	46	2	0	27.5
0.039384514 BH	79	184	12	8	131.5
0.039484287 BH	382	114	29	12	248
0.039484287 BH	60	27	4	2	43.5
0.039484287 BH	1	0	20	5	0.5
0.039484287 BH	0	2	20	5	1
0.039484287 BH	1	0	20	5	0.5
0.039484287 BH	0	2	20	5	1
0.039641466 BH	0	0	0	21	0
0.039641466 BH	49	117	5	6	83
0.039641466 BH	2	29	0	0	15.5
0.0396514 BH	1	0	13	9	0.5
0.0396514 BH	9	27	1	0	18
0.0396514 BH	1	0	11	11	0.5
0.039907081 BH	0	46	0	0	23
0.039948785 BH	1	1	9	20	1
0.039948785 BH	3	26	0	0	14.5
0.040010687 BH	12	0	15	241	6
0.040010687 BH	10	57	1	1	33.5
0.040010687 BH	0	0	11	4	0
0.040010687 BH	0	1	11	4	0.5
0.040010687 BH	0	1	5	9	0.5
0.040025157 BH	3	16	60	35	9.5
0.040167297 BH	125	676	27	25	400.5
0.040281173 BH	4	42	1	0	23
0.040281173 BH	62	224	5	12	143
0.040281173 BH	2	0	36	8	1
0.040281173 BH	2	2	27	10	2
0.040625625 BH	13	119	4	2	66
0.040655552 BH	4	21	0	0	12.5

0.040655552 BH	4	21	0	0	12.5
0.040675148 BH	5	83	1	1	44
0.040902911 BH	3	1	53	6	2
0.040973509 BH	0	0	23	0	0
0.040973509 BH	0	0	23	0	0
0.040973509 BH	24	6	1	0	15
0.041042635 BH	1	2	15	13	1.5
0.041133234 BH	0	2	16	7	1
0.041366828 BH	23	206	6	5	114.5
0.041720346 BH	3	152	0	3	77.5
0.041840346 BH	1	0	21	4	0.5
0.041840346 BH	0	2	19	5	1
0.041981666 BH	38	1	1	0	19.5
0.04208928 BH	57	83	9	1	70
0.042112489 BH	0	1	12	3	0.5
0.042525205 BH	1	8	31	18	4.5
0.042525205 BH	58	21	4	1	39.5
0.042735841 BH	1	1	26	6	1
0.042790222 BH	2	0	30	10	1
0.042856199 BH	172	67	15	5	119.5
0.042856199 BH	0	0	12	3	0
0.042856199 BH	0	0	12	3	0
0.043150633 BH	6	24	121	36	15
0.043506829 BH	2	1	28	10	1.5
0.043506829 BH	81	1889	51	36	985
0.043506829 BH	2	27	0	0	14.5
0.043506829 BH	21	89	5	0	55
0.043506829 BH	1	3	35	6	2
0.043506829 BH	0	1	9	5	0.5
0.043506829 BH	0	0	8	6	0
0.043506829 BH	6	15	0	0	10.5
0.043506829 BH	0	0	7	7	0
0.043599882 BH	131	13	7	0	72
0.043619157 BH	0	4	18	11	2
0.043619157 BH	12	16	106	54	14
0.043737049 BH	3	73	0	1	38
0.044161164 BH	2	28	0	0	15
0.044161164 BH	2	28	0	0	15
0.044236737 BH	4	5	52	14	4.5
0.044599912 BH	290	554	18	45	422
0.044599912 BH	7	4	8	120	5.5
0.044699922 BH	0	4	12	16	2
0.04472786 BH	2	8	7	69	5
0.044760402 BH	3	8	10	66	5.5
0.044775026 BH	104	8	5	0	56
0.044775026 BH	121	64	10	6	92.5
0.044855306 BH	0	0	10	4	0



0.044855306 BH	0	1	10	4	0.5
0.044855306 BH	0	0	10	4	0
0.044855306 BH	0	1	5	8	0.5
0.045046151 BH	47	63	4	4	55
0.045200699 BH	47	38	5	0	42.5
0.045493898 BH	8	45	2	0	26.5
0.045531032 BH	6	69	1	1	37.5
0.045545855 BH	13	9	137	38	11
0.045653557 BH	9	10	0	0	9.5
0.045673689 BH	0	0	3	11	0
0.045755482 BH	21	313	7	8	167
0.045764686 BH	1	3	29	8	2
0.04582368 BH	1	2	37	2	1.5
0.045942482 BH	0	2	16	6	1
0.045942482 BH	1	15	54	26	8
0.045942482 BH	569	584	83	10	576.5
0.045969257 BH	0	0	17	1	0
0.046096288 BH	20	8	1	0	14
0.046435339 BH	102	62	11	1	82
0.04652364 BH	2	51	1	0	26.5
0.04653013 BH	0	40	0	0	20
0.04653013 BH	0	40	0	0	20
0.046691783 BH	56	359	1442	471	207.5
0.04670143 BH	10	22	1	0	16
0.046729856 BH	11	35	2	0	23
0.046802529 BH	2645	465	201	21	1555
0.047300094 BH	0	9	33	20	4.5
0.047300094 BH	25	275	10	6	150
0.047438334 BH	0	41	0	0	20.5
0.047707633 BH	8	26	1	0	17
0.047707633 BH	8	25	1	0	16.5
0.047841563 BH	0	2	17	5	1
0.047845979 BH	0	0	4	9	0
0.047845979 BH	0	0	11	3	0
0.048171635 BH	427	142	25	26	284.5
0.048294761 BH	1	0	19	4	0.5
0.048722227 BH	20	18	2	0	19
0.048912804 BH	1	0	17	5	0.5
0.049181962 BH	2	1	29	8	1.5
0.049181962 BH	0	76	1	0	38
0.049181962 BH	0	76	1	0	38
0.049181962 BH	2	12	53	21	7
0.049181962 BH	13	125	5	2	69
0.049258589 BH	0	0	0	18	0
0.049277667 BH	6	14	77	31	10
0.049428972 BH	9	107	3	2	58
0.049631514 BH	0	0	21	0	0

0.049631514 BH	39	149	10	3	94
0.049668058 BH	14	43	3	0	28.5
0.049668058 BH	21	17	2	0	19
0.04974496 BH	20	92	444	105	56
0.049788649 BH	0	2	22	3	1
0.049788649 BH	18	30	209	57	24
0.049788649 BH	11	47	1	1	29
0.049788649 BH	0	0	8	5	0
0.049788649 BH	0	0	8	5	0
0.049788649 BH	0	1	8	5	0.5
0.049788649 BH	0	1	8	5	0.5
0.049788649 BH	0	0	8	5	0
0.049788649 BH	0	0	8	5	0
0.049788649 BH	6	14	0	0	10
0.049788649 BH	7	13	0	0	10
0.049788649 BH	7	13	0	0	10
0.049927394 BH	11	7	0	0	9
0.050026412 BH	35	36	4	0	35.5
0.050026412 BH	1	29	0	0	15
0.050026412 BH	0	39	0	0	19.5
0.050026412 BH	0	39	0	0	19.5
0.050590386 BH	0	1	9	4	0.5
0.050590386 BH	0	1	9	4	0.5
0.050744203 BH	0	232	2	2	116
0.050794492 BH	0	1	19	0	0.5
0.050833001 BH	1	5	20	18	3
0.050951587 BH	2	10	29	32	6
0.050974464 BH	0	0	0	17	0
0.051289042 BH	5	93	1	2	49
0.051290911 BH	0	0	9	4	0
0.051290911 BH	0	0	9	4	0
0.051290911 BH	0	0	9	4	0
0.051290911 BH	5	52	2	0	28.5
0.051290911 BH	9	21	1	0	15
0.051397348 BH	0	1	12	2	0.5
0.051397348 BH	0	1	12	2	0.5
0.051694162 BH	281	104	2606	673	192.5
0.051694162 BH	6	20	44	72	13
0.051758209 BH	1	3	23	10	2
0.051758209 BH	21	25	1	1	23
0.051998385 BH	4	18	0	0	11
0.051998385 BH	0	0	5	8	0
0.051998385 BH	0	2	16	5	1
0.051998385 BH	9	38	2	0	23.5
0.051998385 BH	0	0	13	2	0
0.051998385 BH	0	0	13	2	0
0.051998385 BH	0	0	13	2	0

0.051998385 BH	0	0	13	2	0
0.051998385 BH	11	17	1	0	14
0.051998385 BH	0	2	12	8	1
0.052016837 BH	5	52	0	1	28.5
0.052016837 BH	0	1	14	1	0.5
0.052016837 BH	0	0	20	0	0
0.052016837 BH	0	0	20	0	0
0.052016837 BH	0	0	20	0	0
0.052016837 BH	0	0	20	0	0
0.052153428 BH	0	2	24	2	1
0.052315833 BH	0	183	2	1	91.5
0.052349902 BH	0	12	18	51	6
0.052704105 BH	2	23	0	0	12.5
0.052834333 BH	0	4	20	8	2
0.052834333 BH	0	4	20	8	2
0.052834333 BH	12	16	1	0	14
0.052939009 BH	0	37	0	0	18.5
0.052979185 BH	108	16	6	3	62
0.05330401 BH	1	1	16	10	1
0.05330401 BH	23	221	4	8	122
0.053602055 BH	6	95	0	3	50.5
0.053722335 BH	1	0	36	0	0.5
0.053878467 BH	36	16	2	1	26
0.053914653 BH	0	0	0	16	0
0.053927618 BH	42	33	4	2	37.5
0.054724738 BH	11	89	3	2	50
0.054778215 BH	1	27	0	0	14
0.054778215 BH	16	21	2	0	18.5
0.055065823 BH	6	27	1	0	16.5
0.055324893 BH	0	5	16	17	2.5
0.055500636 BH	15	0	49	138	7.5
0.055500636 BH	13	254	7	5	133.5
0.055526852 BH	37	30	4	0	33.5
0.055722411 BH	1	28	0	0	14.5
0.055754663 BH	0	19	34	59	9.5
0.05603151 BH	1	5	26	12	3
0.05603151 BH	0	0	19	0	0
0.05603151 BH	0	0	19	0	0
0.05603151 BH	16	73	4	1	44.5
0.056431334 BH	3	9	43	18	6
0.056516484 BH	26	163	9	3	94.5
0.056557711 BH	36	22	2	2	29
0.056685796 BH	0	2	11	8	1
0.056685796 BH	0	2	10	9	1
0.056824426 BH	0	1	11	2	0.5
0.056861459 BH	13	26	2	0	19.5
0.056929823 BH	2	439	1	8	220.5

0.056929823 BH	12	64	174	125	38
0.056929823 BH	2	0	50	2	1
0.057085229 BH	3	37	1	0	20
0.057450718 BH	0	1	6	6	0.5
0.057450718 BH	0	0	7	5	0
0.057450718 BH	0	0	6	6	0
0.057450718 BH	0	4	22	6	2
0.057647749 BH	1	0	12	7	0.5
0.057695802 BH	28	17	0	2	22.5
0.057695802 BH	4	53	2	0	28.5
0.057943423 BH	10	32	2	0	21
0.058087008 BH	5	30	1	0	17.5
0.058087008 BH	18	27	163	65	22.5
0.058159187 BH	0	0	8	4	0
0.058159187 BH	0	0	8	4	0
0.058159187 BH	5	15	0	0	10
0.058159187 BH	0	1	5	7	0.5
0.058203609 BH	5	102	2	2	53.5
0.058203609 BH	2	0	7	27	1
0.058203609 BH	0	0	12	2	0
0.058203609 BH	0	0	12	2	0
0.058203609 BH	42	1126	32	24	584
0.058279135 BH	9	8	69	33	8.5
0.058279135 BH	51	77	8	3	64
0.058342673 BH	1	4	10	20	2.5
0.058342673 BH	1	3	25	8	2
0.05850434 BH	26	16	1	1	21
0.05850434 BH	0	3	34	2	1.5
0.058530821 BH	2	5	36	10	3.5
0.058530821 BH	0	3	27	4	1.5
0.058530821 BH	16	57	1	3	36.5
0.058530821 BH	0	4	17	9	2
0.058530821 BH	0	4	17	9	2
0.058530821 BH	17	34	92	126	25.5
0.058530821 BH	4	16	0	0	10
0.058530821 BH	1	0	16	4	0.5
0.058759749 BH	2	22	0	0	12
0.058845148 BH	63	485	1	21	274
0.058845148 BH	50	16	4	0	33
0.059139376 BH	1	25	0	0	13
0.059139376 BH	1	0	13	6	0.5
0.059389169 BH	12	41	3	0	26.5
0.059559888 BH	1	3	23	9	2
0.059655428 BH	0	4	18	8	2
0.059655428 BH	0	4	18	8	2
0.059655428 BH	0	4	18	8	2
0.059655428 BH	81	121	12	7	101

0.060064389 BH	1	2	15	9	1.5
0.060299168 BH	6	112	3	2	59
0.060642874 BH	0	1	2	10	0.5
0.060871101 BH	0	3	29	3	1.5
0.060923321 BH	21	77	3	3	49
0.061013482 BH	8	36	2	0	22
0.06128416 BH	0	0	10	3	0
0.06128416 BH	3	18	0	0	10.5
0.061354248 BH	24	27	1	2	25.5
0.061430574 BH	385	0	11	0	192.5
0.062076091 BH	74	5	4	0	39.5
0.062078326 BH	9	17	85	39	13
0.06223974 BH	3	19	0	0	11
0.06223974 BH	3	19	0	0	11
0.062265922 BH	12	49	2	1	30.5
0.062265922 BH	14	22	2	0	18
0.062490559 BH	8	20	1	0	14
0.062490559 BH	9	18	1	0	13.5
0.062490559 BH	9	18	1	0	13.5
0.062490559 BH	13	117	6	1	65
0.062759256 BH	16	0	0	0	8
0.06290718 BH	1	8	23	24	4.5
0.062955585 BH	0	0	1	12	0
0.063286349 BH	1	7	28	14	4
0.063286349 BH	79	574	26	21	326.5
0.063571483 BH	188	42	16	5	115
0.063627067 BH	8	21	1	0	14.5
0.063627067 BH	10	17	1	0	13.5
0.063694111 BH	1	1	24	4	1
0.063757676 BH	1	1	17	8	1
0.064272905 BH	12	92	4	2	52
0.064412082 BH	2	40	1	0	21
0.064573529 BH	29	45	4	2	37
0.064689556 BH	1	7	29	13	4
0.064689556 BH	1	7	16	24	4
0.064689556 BH	11	14	1	0	12.5
0.064689556 BH	0	0	17	0	0
0.064689556 BH	0	0	17	0	0
0.064689556 BH	0	0	17	0	0
0.064689556 BH	0	31	0	0	15.5
0.065169957 BH	0	5	30	6	2.5
0.065237472 BH	9	94	4	1	51.5
0.065508338 BH	60	574	29	14	317
0.065673923 BH	1	2	14	9	1.5
0.065673923 BH	1	2	12	11	1.5
0.065691092 BH	119	40	11	4	79.5
0.065691092 BH	11	37	1	1	24

0.065719693 BH	0	32	0	0	16
0.065746976 BH	6	25	1	0	15.5
0.065868108 BH	0	5	24	9	2.5
0.066091386 BH	5	60	1	1	32.5
0.066277996 BH	10	22	97	44	16
0.066463962 BH	2	21	0	0	11.5
0.066463962 BH	0	0	6	5	0
0.066463962 BH	0	0	6	5	0
0.066463962 BH	0	0	6	5	0
0.066463962 BH	0	1	7	4	0.5
0.066463962 BH	0	0	6	5	0
0.066463962 BH	0	0	6	5	0
0.066463962 BH	0	1	6	5	0.5
0.066490485 BH	0	0	0	14	0
0.066490485 BH	0	0	0	14	0
0.066607646 BH	12	13	1	0	12.5
0.066607646 BH	0	2	14	5	1
0.066607646 BH	22	46	4	0	34
0.06666653 BH	10	117	3	3	63.5
0.066946685 BH	3	8	40	17	5.5
0.067128379 BH	7	49	1	1	28
0.067128379 BH	2	0	29	6	1
0.067214471 BH	6	10	0	0	8
0.067214471 BH	0	0	5	6	0
0.068050479 BH	0	10	28	17	5
0.068210301 BH	2	2	20	9	2
0.068293561 BH	0	1	8	3	0.5
0.068293561 BH	0	1	8	3	0.5
0.068348145 BH	2	38	1	0	20
0.068348145 BH	2	38	1	0	20
0.068476203 BH	15	19	2	0	17
0.068480041 BH	1	6	13	20	3.5
0.068480041 BH	0	8	17	19	4
0.068480041 BH	2	3	8	27	2.5
0.068839511 BH	26	20	2	1	23
0.068857085 BH	1	70	0	1	35.5
0.069014633 BH	0	1	16	0	0.5
0.069014633 BH	0	1	4	7	0.5
0.069014633 BH	0	0	4	7	0
0.069014633 BH	0	0	4	7	0
0.069213291 BH	1	6	34	6	3.5
0.069214951 BH	161	84	20	6	122.5
0.06924423 BH	0	2	23	1	1
0.069318321 BH	8	19	1	0	13.5
0.069439848 BH	1	6	23	11	3.5
0.069439848 BH	0	0	1	11	0
0.069439848 BH	0	3	2	27	1.5

0.069439848 BH	3	16	0	0	9.5
0.069439848 BH	0	0	9	3	0
0.069439848 BH	3	16	0	0	9.5
0.069439848 BH	0	0	9	3	0
0.069439848 BH	2	10	39	18	6
0.069439848 BH	9	0	17	88	4.5
0.069439848 BH	1	17	76	16	9
0.069439848 BH	0	0	16	0	0
0.069439848 BH	0	30	0	0	15
0.069439848 BH	0	29	0	0	14.5
0.069439848 BH	0	30	0	0	15
0.069439848 BH	0	30	0	0	15
0.069439848 BH	0	30	0	0	15
0.069439848 BH	0	29	0	0	14.5
0.069439848 BH	4	122	4	1	63
0.069465851 BH	13	35	3	0	24
0.069981285 BH	0	2	8	9	1
0.070453092 BH	1	1	20	5	1
0.071022607 BH	121	54	12	6	87.5
0.071062607 BH	112	6	7	0	59
0.071090224 BH	0	5	21	10	2.5
0.071090224 BH	28	36	4	1	32
0.071090224 BH	0	6	31	5	3
0.071182402 BH	12	2	0	0	7
0.071209316 BH	1	0	11	6	0.5
0.071583494 BH	1	10	36	17	5.5
0.0717009 BH	32	9	3	0	20.5
0.071701914 BH	0	0	0	13	0
0.071967485 BH	25	15	3	0	20
0.072078617 BH	9	9	125	11	9
0.072078617 BH	25	13	1	1	19
0.072111306 BH	157	122	12	17	139.5
0.072118797 BH	1	13	22	34	7
0.072118797 BH	0	0	3	8	0
0.072118797 BH	0	2	7	10	1
0.072118797 BH	0	4	14	9	2
0.072118797 BH	0	4	14	9	2
0.072118797 BH	13	199	9	3	106
0.072118797 BH	9	40	1	1	24.5
0.072118797 BH	1	3	21	8	2
0.072118797 BH	0	0	12	1	0
0.072118797 BH	0	0	12	1	0
0.072118797 BH	0	0	12	1	0
0.072118797 BH	0	0	12	1	0
0.072276147 BH	358	351	53	30	354.5
0.072276147 BH	15	0	0	0	7.5
0.072276147 BH	15	0	0	0	7.5

0.072330291 BH	45	14	4	0	29.5
0.072940171 BH	1	4	29	4	2.5
0.073203744 BH	1	22	0	0	11.5
0.073222467 BH	14	29	1	1	21.5
0.07338156 BH	0	4	15	8	2
0.073831537 BH	1	41	1	0	21
0.073831537 BH	0	0	10	2	0
0.073831537 BH	0	0	10	2	0
0.073831537 BH	2	18	0	0	10
0.073831537 BH	0	0	10	2	0
0.073831537 BH	0	0	10	2	0
0.07439194 BH	7	21	101	26	14
0.074405966 BH	29	82	6	3	55.5
0.074405966 BH	0	2	6	11	1
0.074683373 BH	0	10	12	31	5
0.074698716 BH	72	221	7	17	146.5
0.074698716 BH	0	0	15	0	0
0.074698716 BH	0	0	15	0	0
0.074698716 BH	3	3	26	13	3
0.074702582 BH	2	19	0	0	10.5
0.074702582 BH	2	19	0	0	10.5
0.074963214 BH	0	2	16	3	1
0.075159552 BH	39	77	7	4	58
0.075219176 BH	268	353	55	6	310.5
0.075421309 BH	0	3	29	2	1.5
0.075747092 BH	0	28	0	0	14
0.075747092 BH	0	28	0	0	14
0.075919215 BH	1	8	22	21	4.5
0.076146716 BH	0	0	1	10	0
0.076837116 BH	5	39	0	1	22
0.076884028 BH	1	0	14	4	0.5
0.076884028 BH	0	2	14	4	1
0.07701214 BH	18	22	3	0	20
0.077516901 BH	1	7	22	15	4
0.077759916 BH	96	44	12	3	70
0.077759916 BH	1	8	19	23	4.5
0.077903843 BH	12	33	0	2	22.5
0.077903843 BH	13	189	2	8	101
0.077903843 BH	0	0	2	9	0
0.077903843 BH	0	0	2	9	0
0.078177533 BH	52	153	13	6	102.5
0.078177533 BH	0	0	7	4	0
0.078177533 BH	6	9	0	0	7.5
0.078177533 BH	4	13	0	0	8.5
0.078177533 BH	4	13	0	0	8.5
0.078177533 BH	11	2	0	0	6.5
0.078202325 BH	4	5	55	6	4.5



0.07830533 BH	8	30	0	1	19
0.07830533 BH	0	4	11	11	2
0.078362827 BH	14	113	4	4	63.5
0.078417805 BH	2	6	38	9	4
0.078506307 BH	41	44	7	1	42.5
0.078716545 BH	3	79	2	1	41
0.078716545 BH	11	33	1	1	22
0.078716545 BH	2	35	1	0	18.5
0.079100635 BH	5	9	45	22	7
0.079100635 BH	10	13	1	0	11.5
0.07929251 BH	2	31	53	72	16.5
0.079885124 BH	51	41	8	1	46
0.080001174 BH	0	0	8	3	0
0.080001174 BH	3	14	0	0	8.5
0.080001174 BH	0	0	8	3	0
0.080001174 BH	7	8	0	0	7.5
0.080001174 BH	0	0	8	3	0
0.0800247 BH	4	71	2	1	37.5
0.0800247 BH	24	172	10	4	98
0.080055625 BH	0	6	26	6	3
0.080096698 BH	48	190	15	6	119
0.080459669 BH	40	36	6	0	38
0.080459669 BH	47	20	1	4	33.5
0.080459669 BH	67	105	11	7	86
0.080459669 BH	0	1	11	1	0.5
0.080459669 BH	0	1	11	1	0.5
0.080459669 BH	0	1	11	1	0.5
0.080780774 BH	7	7	0	0	7
0.080780774 BH	3	15	0	0	9
0.080908726 BH	1	1	15	7	1
0.080908726 BH	20	18	3	0	19
0.081073211 BH	0	4	19	5	2
0.081073211 BH	40	71	7	4	55.5
0.081173429 BH	9	199	3	7	104
0.081279202 BH	0	2	6	10	1
0.081279202 BH	59	79	10	4	69
0.081394991 BH	0	0	11	1	0
0.081430774 BH	7	117	3	3	62
0.081610879 BH	0	6	8	20	3
0.081610879 BH	7	14	80	20	10.5
0.081610879 BH	4	85	2	2	44.5
0.081610879 BH	0	26	0	0	13
0.081610879 BH	0	0	14	0	0
0.081610879 BH	0	0	14	0	0
0.081610879 BH	0	0	14	0	0
0.081610879 BH	0	26	0	0	13
0.081610879 BH	1	6	24	9	3.5

0.082107714 BH	12	41	1	2	26.5
0.082239406 BH	1	21	0	0	11
0.082486861 BH	2	0	30	4	1
0.082644588 BH	13	50	3	1	31.5
0.082644588 BH	1	4	22	6	2.5
0.082644588 BH	0	27	0	0	13.5
0.082644588 BH	0	27	0	0	13.5
0.082644588 BH	0	27	0	0	13.5
0.082644588 BH	0	27	0	0	13.5
0.082644588 BH	89	94	13	8	91.5
0.082853318 BH	0	6	25	6	3
0.082875502 BH	41	6	128	238	23.5
0.082968704 BH	4	22	68	31	13
0.083226467 BH	0	0	9	2	0
0.083226467 BH	0	0	9	2	0
0.083226467 BH	0	0	9	2	0
0.083226467 BH	8	109	5	2	58.5
0.083226467 BH	35	182	14	3	108.5
0.083226467 BH	1	0	13	4	0.5
0.083241695 BH	28	21	3	1	24.5
0.083460622 BH	33	4	82	224	18.5
0.083845828 BH	81	378	712	745	229.5
0.08432781 BH	2	16	0	0	9
0.084415532 BH	24	75	5	3	49.5
0.084536605 BH	0	62	177	119	31
0.084536605 BH	399	1020	74	79	709.5
0.08456774 BH	0	3	15	7	1.5
0.084671846 BH	47	34	4	4	40.5
0.084707949 BH	262	694	8	62	478
0.084707949 BH	13	0	0	0	6.5
0.08524803 BH	1	2	9	11	1.5
0.08524803 BH	2	17	0	0	9.5
0.08524803 BH	2	17	0	0	9.5
0.085348674 BH	67	74	10	6	70.5
0.085625228 BH	0	47	1	0	23.5
0.086164699 BH	6	58	1	2	32
0.086655098 BH	0	6	24	6	3
0.086987146 BH	0	2	10	6	1
0.087433131 BH	2	5	27	10	3.5
0.087772079 BH	0	6	26	5	3
0.088587067 BH	4	85	3	1	44.5
0.088935281 BH	9	129	4	4	69
0.08976492 BH	15	14	0	1	14.5
0.089913792 BH	0	0	13	0	0
0.089913792 BH	0	0	13	0	0
0.089913792 BH	0	0	13	0	0
0.089913792 BH	0	0	13	0	0

0.089913792 BH	0	0	13	0	0
0.089913792 BH	0	2	11	5	1
0.089913792 BH	10	12	1	0	11
0.089913792 BH	1	0	11	5	0.5
0.090117739 BH	9	4	0	0	6.5
0.090277609 BH	10	93	5	2	51.5
0.09048411 BH	13	36	2	1	24.5
0.09055685 BH	2	31	1	0	16.5
0.090710146 BH	12	30	3	0	21
0.090710146 BH	9	98	5	2	53.5
0.090710146 BH	3	25	57	38	14
0.090710146 BH	0	24	0	0	12
0.090710146 BH	0	24	0	0	12
0.090710146 BH	0	24	0	0	12
0.090710146 BH	0	24	0	0	12
0.090710146 BH	0	24	0	0	12
0.090710146 BH	0	24	0	0	12
0.090710146 BH	0	24	0	0	12
0.090710146 BH	0	24	0	0	12
0.090741671 BH	1	7	25	11	4
0.091047895 BH	8	38	106	54	23
0.091067501 BH	5	10	0	0	7.5
0.091239568 BH	2	25	26	71	13.5
0.091376709 BH	13	7	1	0	10
0.091376709 BH	1	3	28	3	2
0.091376709 BH	1	3	4	23	2
0.091580977 BH	2	4	21	9	3
0.091580977 BH	39	306	15	13	172.5
0.091580977 BH	0	25	0	0	12.5
0.091580977 BH	0	25	0	0	12.5
0.091580977 BH	0	25	0	0	12.5
0.091580977 BH	0	25	0	0	12.5
0.091580977 BH	0	25	0	0	12.5
0.091597483 BH	0	0	10	1	0
0.091597483 BH	0	6	15	11	3
0.091597483 BH	66	21	6	3	43.5
0.091597483 BH	4	11	0	0	7.5
0.091597483 BH	4	11	0	0	7.5
0.091597483 BH	4	11	0	0	7.5
0.091597483 BH	1	0	12	4	0.5
0.091597483 BH	11	10	1	0	10.5
0.091597483 BH	1	22	36	44	11.5
0.091597483 BH	18	16	1	1	17
0.091597483 BH	91	63	11	7	77
0.092233422 BH	8	25	2	0	16.5
0.092302145 BH	0	0	0	11	0
0.092302145 BH	0	0	0	11	0
0.092302145 BH	0	0	0	11	0

0.092302145 BH	1	18	0	0	9.5
0.092302145 BH	1	18	0	0	9.5
0.09284473 BH	3	59	0	2	31
0.092881476 BH	9	35	3	0	22
0.092881476 BH	7	43	0	2	25
0.092881476 BH	0	71	2	0	35.5
0.093264117 BH	0	4	21	3	2
0.093264117 BH	2	11	26	21	6.5
0.09330071 BH	163	65	20	8	114
0.09330071 BH	1	8	15	24	4.5
0.09330071 BH	1	19	0	0	10
0.09330071 BH	12	0	0	0	6
0.09330071 BH	3	13	0	0	8
0.09330071 BH	3	13	0	0	8
0.093345144 BH	1	1	17	5	1
0.093676513 BH	9	33	1	1	21
0.093826461 BH	15	109	8	1	62
0.094378577 BH	5	34	2	0	19.5
0.094417084 BH	0	5	23	6	2.5
0.094969101 BH	10	164	8	3	87
0.094969101 BH	181	33	20	4	107
0.095407224 BH	86	51	12	4	68.5
0.095407224 BH	11	87	2	4	49
0.095468379 BH	10	148	7	3	79
0.096278343 BH	0	5	21	7	2.5
0.096300684 BH	82	235	15	18	158.5
0.096323401 BH	14	210	10	5	112
0.096545535 BH	10	32	0	2	21
0.097807809 BH	0	2	9	6	1
0.097807809 BH	0	2	9	6	1
0.097807809 BH	8	14	1	0	11
0.097807809 BH	8	13	1	0	10.5
0.098029817 BH	2	15	0	0	8.5
0.098029817 BH	2	15	0	0	8.5
0.098029817 BH	2	15	0	0	8.5
0.098029817 BH	2	15	0	0	8.5
0.098029817 BH	61	529	33	17	295
0.098159001 BH	5	53	36	167	29
0.098160014 BH	6	2	43	13	4
0.098374065 BH	53	727	29	28	390
0.098374065 BH	3	3	38	4	3
0.098374065 BH	0	1	12	0	0.5
0.098374065 BH	0	1	12	0	0.5
0.098442862 BH	3	83	2	2	43
0.098442862 BH	55	20	7	1	37.5
0.0989322 BH	1	0	10	5	0.5
0.099006151 BH	1	0	1	15	0.5

0.099145401 BH	0	4	5	15	2
0.099147461 BH	1	2	15	5	1.5
0.099147461 BH	0	3	12	8	1.5
0.099147461 BH	1	2	15	5	1.5
0.099147461 BH	0	0	12	0	0
0.099147461 BH	0	0	12	0	0
0.099147461 BH	0	22	0	0	11
0.099147461 BH	0	22	0	0	11
0.099147461 BH	0	22	0	0	11
0.099147461 BH	0	22	0	0	11
0.099147461 BH	0	22	0	0	11
0.099147461 BH	0	22	0	0	11
0.100067864 BH	16	19	12	182	17.5
0.100517631 BH	16	47	4	1	31.5
0.100651961 BH	0	23	0	0	11.5
0.100837978 BH	9	42	2	1	25.5
0.100863637 BH	12	43	107	69	27.5
0.101239771 BH	37	20	5	0	28.5
0.101962451 BH	2	5	18	14	3.5
0.102343128 BH	3	2	55	1	2.5
0.102376334 BH	37	100	9	5	68.5
0.10269895 BH	7	5	49	17	6
0.10269895 BH	16	26	2	1	21
0.10269895 BH	0	4	13	7	2
0.10269895 BH	15	179	8	6	97
0.102880454 BH	28	58	6	2	43
0.103153973 BH	4	21	1	0	12.5
0.10323476 BH	36	63	292	88	49.5
0.10323476 BH	41	25	6	0	33
0.103905014 BH	3	2	68	0	2.5
0.104731529 BH	1	6	14	13	3.5
0.104749084 BH	75	422	38	7	248.5
0.105026498 BH	11	106	5	3	58.5
0.105246773 BH	0	11	20	21	5.5
0.105713718 BH	4	16	53	22	10
0.105868854 BH	117	57	11	11	87
0.105959916 BH	3	38	0	1	20.5
0.106271209 BH	8	3	0	0	5.5
0.106271209 BH	6	28	2	0	17
0.106720552 BH	11	36	1	2	23.5
0.107305364 BH	57	126	11	9	91.5
0.107305364 BH	0	40	1	0	20
0.107305364 BH	2	2	18	6	2
0.107305364 BH	3	0	14	15	1.5
0.107305364 BH	9	50	2	2	29.5
0.107323286 BH	1	17	0	0	9
0.107323286 BH	1	17	0	0	9

0.107323286 BH	1	17	0	0	9
0.107830611 BH	0	2	4	10	1
0.107830611 BH	2	86	2	2	44
0.108762395 BH	2	1	26	3	1.5
0.108937729 BH	25	45	6	0	35
0.109021463 BH	4	0	28	10	2
0.109021463 BH	29	30	5	1	29.5
0.109613342 BH	27	38	3	3	32.5
0.109733337 BH	13	183	7	7	98
0.109733337 BH	0	4	15	5	2
0.110373053 BH	16	95	6	3	55.5
0.110377789 BH	23	50	6	1	36.5
0.110377789 BH	5	8	0	0	6.5
0.110377789 BH	5	8	0	0	6.5
0.110377789 BH	4	9	0	0	6.5
0.110646036 BH	0	14	13	42	7
0.110646036 BH	47	84	10	5	65.5
0.110646036 BH	30	4	3	0	17
0.110646036 BH	105	95	20	6	100
0.111078914 BH	0	4	22	2	2
0.111203732 BH	0	2	7	7	1
0.111203732 BH	6	15	1	0	10.5
0.111304133 BH	1	31	1	0	16
0.111304133 BH	3	11	0	0	7
0.111304133 BH	3	11	0	0	7
0.111304133 BH	3	11	0	0	7
0.111652716 BH	0	20	0	0	10
0.111652716 BH	0	20	0	0	10
0.112025145 BH	4	0	41	4	2
0.112205286 BH	20	18	2	1	19
0.112689321 BH	8	12	1	0	10
0.112689321 BH	35	295	17	12	165
0.112689321 BH	9	71	4	2	40
0.112689321 BH	2	8	11	30	5
0.112689321 BH	0	21	0	0	10.5
0.112689321 BH	0	21	0	0	10.5
0.112689321 BH	0	21	0	0	10.5
0.112689321 BH	0	21	0	0	10.5
0.112689321 BH	0	21	0	0	10.5
0.112689321 BH	0	21	0	0	10.5
0.112689321 BH	0	21	0	0	10.5
0.113853101 BH	4	23	41	41	13.5
0.114085634 BH	8	42	1	2	25
0.114398399 BH	0	5	17	8	2.5
0.114401214 BH	20	50	5	2	35
0.114401214 BH	4	8	11	38	6
0.114554555 BH	1	1	10	8	1
0.11458727 BH	9	2	0	0	5.5

0.114821412 BH	31	30	5	2	30.5
0.114821412 BH	84	143	13	14	113.5
0.114821412 BH	0	4	13	6	2
0.115031343 BH	2	6	42	4	4
0.115676191 BH	18	93	6	4	55.5
0.115714045 BH	3	8	4	48	5.5
0.115815255 BH	2	14	0	0	8
0.115815255 BH	2	14	0	0	8
0.115815255 BH	2	13	0	0	7.5
0.115815255 BH	2	14	0	0	8
0.115815255 BH	2	13	0	0	7.5
0.116286356 BH	90	277	19	22	183.5
0.116389007 BH	6	58	2	2	32
0.116429788 BH	0	64	150	105	32
0.116429788 BH	3	36	2	0	19.5
0.117420402 BH	10	167	7	5	88.5
0.117877244 BH	0	4	21	2	2
0.118033126 BH	15	38	49	122	26.5
0.118033126 BH	12	48	10	250	30
0.118041201 BH	0	8	17	12	4
0.118047968 BH	17	29	2	2	23
0.118047968 BH	8	41	2	1	24.5
0.118092726 BH	2	25	1	0	13.5
0.118092726 BH	2	26	1	0	14
0.118092726 BH	2	26	1	0	14
0.118092726 BH	2	26	1	0	14
0.118261889 BH	1	3	15	8	2
0.119439185 BH	26	225	15	7	125.5
0.119439185 BH	14	224	10	7	119
0.119649444 BH	9	19	0	1	14
0.119649444 BH	410	526	49	74	468
0.119705809 BH	1	4	19	5	2.5
0.119705809 BH	0	6	17	7	3
0.119803724 BH	7	373	16	6	190
0.120047258 BH	14	84	125	148	49
0.120355795 BH	29	46	4	4	37.5
0.120760476 BH	8	11	62	20	9.5
0.121216524 BH	6	29	76	34	17.5
0.121216524 BH	0	37	1	0	18.5
0.121216524 BH	9	19	2	0	14
0.121216524 BH	7	24	0	1	15.5
0.121216524 BH	9	19	2	0	14
0.121216524 BH	0	3	12	7	1.5
0.121522272 BH	9	8	10	74	8.5
0.12317321 BH	32	216	19	3	124
0.12317321 BH	41	112	13	4	76.5
0.123285908 BH	7	22	2	0	14.5

0.123285908 BH	10	17	2	0	13.5
0.123285908 BH	3	33	2	0	18
0.123285908 BH	3	33	2	0	18
0.123666891 BH	13	20	3	0	16.5
0.123879982 BH	15	39	3	2	27
0.124328492 BH	2	1	15	8	1.5
0.124569907 BH	4	66	3	1	35
0.124569907 BH	1	15	0	0	8
0.124569907 BH	1	15	0	0	8
0.124569907 BH	1	15	0	0	8
0.124569907 BH	1	15	0	0	8
0.124569907 BH	1	15	0	0	8
0.124569907 BH	2	14	23	28	8
0.124739751 BH	7	63	3	2	35
0.124741769 BH	8	3	27	31	5.5
0.124853942 BH	1	1	19	2	1
0.124853942 BH	25	54	3	5	39.5
0.124907295 BH	41	40	6	4	40.5
0.125099117 BH	71	75	16	1	73
0.125554759 BH	1	16	0	0	8.5
0.125554759 BH	1	16	0	0	8.5
0.125554759 BH	1	16	0	0	8.5
0.125554759 BH	1	16	0	0	8.5
0.125554759 BH	57	192	18	10	124.5
0.126152724 BH	1	11	24	16	6
0.126312987 BH	42	37	2	6	39.5
0.126312987 BH	22	75	6	4	48.5
0.126369882 BH	15	73	150	101	44
0.12647316 BH	6	14	1	0	10
0.126741749 BH	23	2	2	0	12.5
0.127044659 BH	1	2	11	6	1.5
0.127044659 BH	2	37	2	0	19.5
0.127279734 BH	0	19	0	0	9.5
0.127279734 BH	0	19	0	0	9.5
0.127449472 BH	5	49	2	1	27
0.127449472 BH	27	73	7	4	50
0.127483314 BH	6	84	5	1	45
0.127483314 BH	5	86	2	3	45.5
0.127513515 BH	1	0	12	2	0.5
0.127609386 BH	686	1270	91	157	978
0.127756697 BH	0	2	6	7	1
0.127756697 BH	8	11	1	0	9.5
0.127756697 BH	59	71	12	5	65
0.128066682 BH	42	211	15	11	126.5
0.128289578 BH	1	72	1	2	36.5
0.128289578 BH	0	0	11	0	0
0.128289578 BH	0	0	11	0	0



0.128352971 BH	4	104	3	3	54
0.12855025 BH	1	3	9	12	2
0.128668514 BH	5	40	0	2	22.5
0.128668514 BH	14	179	11	4	96.5
0.128936899 BH	32	61	5	5	46.5
0.128936899 BH	106	27	14	3	66.5
0.12904464 BH	0	5	12	10	2.5
0.12904464 BH	12	22	0	2	17
0.12904464 BH	1	0	9	4	0.5
0.129142125 BH	180	71	19	17	125.5
0.129142125 BH	0	7	14	13	3.5
0.129256494 BH	5	26	2	0	15.5
0.129256494 BH	0	3	6	12	1.5
0.129882288 BH	8	19	51	36	13.5
0.130252755 BH	2	24	1	0	13
0.130252755 BH	2	23	1	0	12.5
0.130252755 BH	2	23	1	0	12.5
0.130252755 BH	2	23	1	0	12.5
0.130612373 BH	17	296	15	9	156.5
0.13069038 BH	11	22	3	0	16.5
0.13069038 BH	0	5	14	9	2.5
0.13069038 BH	12	21	3	0	16.5
0.13069038 BH	108	41	17	3	74.5
0.13069038 BH	3	0	9	18	1.5
0.13069038 BH	3	26	82	18	14.5
0.13069038 BH	18	70	6	2	44
0.13069038 BH	0	7	24	6	3.5
0.13069038 BH	3	62	0	3	32.5
0.13069038 BH	1	2	16	3	1.5
0.130807984 BH	0	9	17	15	4.5
0.131027645 BH	2	8	21	16	5
0.131805726 BH	1	23	31	42	12
0.132096059 BH	66	34	9	4	50
0.132096059 BH	0	21	22	51	10.5
0.132150513 BH	19	29	3	2	24
0.132182359 BH	26	4	0	2	15
0.132182359 BH	4	8	0	0	6
0.132182359 BH	3	9	0	0	6
0.132182359 BH	3	9	0	0	6
0.132182359 BH	3	9	0	0	6
0.132182359 BH	3	9	0	0	6
0.132182359 BH	3	9	0	0	6
0.132182359 BH	29	201	11	11	115
0.132250235 BH	24	10	2	1	17
0.132419043 BH	46	693	47	14	369.5
0.132494267 BH	0	4	22	1	2
0.132595623 BH	32	45	6	3	38.5

0.132595623 BH	2	14	32	19	8
0.132648012 BH	8	19	2	0	13.5
0.132737659 BH	16	27	2	2	21.5
0.132836621 BH	64	202	13	17	133
0.132836621 BH	2207	1830	367	257	2018.5
0.133207711 BH	3	10	0	0	6.5
0.133257214 BH	0	5	19	5	2.5
0.133257214 BH	0	15	30	19	7.5
0.133423477 BH	31	39	5	3	35
0.133437924 BH	157	2669	175	61	1413
0.133672065 BH	99	89	22	2	94
0.133824135 BH	56	98	81	457	77
0.134296427 BH	7	20	2	0	13.5
0.134296427 BH	5	6	0	0	5.5
0.134296427 BH	0	2	11	3	1
0.134296427 BH	3	20	1	0	11.5
0.134907219 BH	22	26	4	1	24
0.135032999 BH	6	43	1	2	24.5
0.135651427 BH	1	13	45	7	7
0.135706946 BH	2	11	0	0	6.5
0.135768088 BH	14	16	3	0	15
0.135768088 BH	0	5	8	14	2.5
0.135997285 BH	20	43	5	2	31.5
0.136192283 BH	10	14	2	0	12
0.136260957 BH	7	38	2	1	22.5
0.136650295 BH	2	105	0	4	53.5
0.136903568 BH	10	41	1	3	25.5
0.136903568 BH	2	12	0	0	7
0.137131564 BH	16	163	10	6	89.5
0.137131564 BH	9	18	75	23	13.5
0.137131564 BH	2	0	38	0	1
0.137131564 BH	71	46	12	4	58.5
0.137131564 BH	10	18	70	28	14
0.137131564 BH	54	489	25	26	271.5
0.137131564 BH	45	56	8	5	50.5
0.137259473 BH	0	2	18	0	1
0.13763052 BH	30	2	0	2	16
0.138206915 BH	24	34	5	2	29
0.139033685 BH	0	11	11	26	5.5
0.139033685 BH	8	46	3	1	27
0.139413868 BH	14	8	2	0	11
0.139811401 BH	14	29	2	2	21.5
0.139991213 BH	0	3	6	11	1.5
0.140101192 BH	46	28	6	4	37
0.140406994 BH	4	34	35	73	19
0.140437189 BH	1	10	39	6	5.5
0.14060583 BH	3	7	20	15	5

0.141524391 BH	3	32	0	1	17.5
0.142204069 BH	2	0	19	5	1
0.142774752 BH	19	52	4	3	35.5
0.142785893 BH	8	35	2	1	21.5
0.143143521 BH	2	21	1	0	11.5
0.143143521 BH	2	21	1	0	11.5
0.143344354 BH	15	43	4	2	29
0.143583017 BH	0	6	12	9	3
0.143917358 BH	6	12	1	0	9
0.144228101 BH	21	87	9	2	54
0.144228101 BH	0	17	0	0	8.5
0.144228101 BH	0	17	0	0	8.5
0.144228101 BH	0	17	0	0	8.5
0.144228101 BH	0	17	0	0	8.5
0.144909863 BH	22	20	4	0	21
0.144909863 BH	88	284	34	13	186
0.144909863 BH	0	4	26	0	2
0.144909863 BH	1	13	0	0	7
0.144909863 BH	1	13	0	0	7
0.144909863 BH	24	50	6	2	37
0.144909863 BH	23	52	6	2	37.5
0.144909863 BH	2	7	10	21	4.5
0.144909863 BH	7	11	1	0	9
0.144909863 BH	7	10	1	0	8.5
0.144909863 BH	2	9	18	17	5.5
0.144909863 BH	0	18	0	0	9
0.144909863 BH	0	18	0	0	9
0.144909863 BH	0	18	0	0	9
0.144909863 BH	0	18	0	0	9
0.144909863 BH	0	18	0	0	9
0.144909863 BH	0	18	0	0	9
0.144909863 BH	0	18	0	0	9
0.145135637 BH	0	4	14	4	2
0.145135637 BH	0	4	14	4	2
0.145135637 BH	13	76	4	4	44.5
0.145402456 BH	20	2	2	0	11
0.145455927 BH	1	14	0	0	7.5
0.145455927 BH	1	14	0	0	7.5
0.146257761 BH	0	2	5	7	1
0.146257761 BH	0	2	5	7	1
0.146257761 BH	4	17	1	0	10.5
0.146401087 BH	7	3	3	61	5
0.146638762 BH	103	324	34	21	213.5
0.146701436 BH	0	5	16	6	2.5
0.146861945 BH	0	3	10	7	1.5
0.147368902 BH	0	12	24	17	6
0.148033417 BH	7	22	38	48	14.5

0.148116343 BH	9	21	51	38	15
0.148184003 BH	0	31	1	0	15.5
0.148457224 BH	1	5	8	16	3
0.14857958 BH	2	17	23	32	9.5
0.148843457 BH	8	17	2	0	12.5
0.148843457 BH	8	16	2	0	12
0.148843457 BH	11	13	0	1	12
0.149820687 BH	1	0	9	3	0.5
0.149820687 BH	1	0	9	3	0.5
0.150304263 BH	3	18	30	32	10.5
0.150308898 BH	2	6	22	10	4
0.150308898 BH	12	186	11	6	99
0.15044237 BH	598	1831	40	206	1214.5
0.150466233 BH	2	20	27	32	11
0.150910296 BH	10	13	2	0	11.5
0.15098206 BH	13	8	2	0	10.5
0.15098206 BH	0	6	16	6	3
0.151031907 BH	0	5	12	9	2.5
0.151033669 BH	31	59	139	120	45
0.151368598 BH	3	18	1	0	10.5
0.151368598 BH	9	20	53	36	14.5
0.151413937 BH	15	25	2	2	20
0.151413937 BH	65	175	16	15	120
0.151413937 BH	8	1	44	14	4.5
0.151413937 BH	26	69	3	7	47.5
0.151413937 BH	59	432	37	16	245.5
0.151761077 BH	35	553	10	34	294
0.151761077 BH	1	4	13	7	2.5
0.151761077 BH	6	73	5	1	39.5
0.152172233 BH	11	236	15	5	123.5
0.152422061 BH	0	4	7	9	2
0.152442833 BH	1	7	20	9	4
0.152491473 BH	0	3	16	3	1.5
0.152601551 BH	13	34	127	27	23.5
0.152671097 BH	1	38	2	0	19.5
0.152872756 BH	71	200	19	16	135.5
0.152872756 BH	1	16	13	37	8.5
0.152872756 BH	977	2159	158	264	1568
0.153485774 BH	15	157	4	10	86
0.153485774 BH	72	5	8	0	38.5
0.153592593 BH	7	20	57	24	13.5
0.153637631 BH	1	4	8	11	2.5
0.153861067 BH	14	84	7	2	49
0.154156645 BH	1	2	14	3	1.5
0.154324638 BH	3	29	2	0	16
0.154599506 BH	1	21	37	27	11
0.154599506 BH	0	25	36	41	12.5

0.154599506 BH	26	523	18	26	274.5
0.154699706 BH	3	103	6	0	53
0.154935715 BH	42	170	17	8	106
0.154995759 BH	79	77	15	8	78
0.155003136 BH	14	24	9	141	19
0.155181577 BH	120	242	29	23	181
0.155426993 BH	72	26	10	4	49
0.155438686 BH	2	1	11	9	1.5
0.155438686 BH	13	14	1	1	13.5
0.155438686 BH	26	15	3	2	20.5
0.155438686 BH	6	38	34	82	22
0.155497372 BH	2	33	2	0	17.5
0.155742881 BH	39	57	11	0	48
0.155981104 BH	43	121	333	130	82
0.156149233 BH	1	13	36	9	7
0.156162913 BH	1	63	2	1	32
0.156162913 BH	3	0	16	9	1.5
0.156162913 BH	2	11	33	9	6.5
0.156162913 BH	0	5	15	6	2.5
0.156162913 BH	0	5	15	6	2.5
0.156390253 BH	42	181	12	14	111.5
0.156756794 BH	0	2	13	1	1
0.156756794 BH	16	99	8	4	57.5
0.156756794 BH	35	60	10	2	47.5
0.156756794 BH	1	1	9	7	1
0.156776311 BH	2	2	21	2	2
0.157161032 BH	16	5	2	0	10.5
0.157296617 BH	0	4	13	4	2
0.157425714 BH	3	2	32	3	2.5
0.157425714 BH	1	106	0	4	53.5
0.157425714 BH	0	29	1	0	14.5
0.157504655 BH	7	43	73	56	25
0.157759 BH	38	18	163	80	28
0.158208571 BH	132	65	24	7	98.5
0.158208571 BH	5	485	19	12	245
0.158240116 BH	1	24	1	0	12.5
0.158562459 BH	0	2	11	2	1
0.158562459 BH	0	2	11	2	1
0.159337652 BH	0	2	16	0	1
0.159337652 BH	0	2	16	0	1
0.159444885 BH	3	69	3	2	36
0.160625166 BH	2	20	1	0	11
0.160625166 BH	4	7	0	0	5.5
0.160625166 BH	3	8	0	0	5.5
0.160625166 BH	4	7	0	0	5.5
0.160705198 BH	14	35	4	1	24.5
0.160967953 BH	2	10	17	20	6

0.161309948 BH	11	31	2	2	21
0.161474077 BH	1	14	27	17	7.5
0.161482988 BH	0	4	3	13	2
0.161951431 BH	3	2	19	9	2.5
0.162028627 BH	77	88	10	14	82.5
0.162597699 BH	4	11	33	16	7.5
0.162714199 BH	1	2	12	4	1.5
0.16373073 BH	3	60	3	1	31.5
0.164181754 BH	5	13	1	0	9
0.164340336 BH	7	42	2	2	24.5
0.164340336 BH	5	5	45	6	5
0.164340336 BH	7	17	2	0	12
0.164340336 BH	2	10	0	0	6
0.164340336 BH	2	10	0	0	6
0.164340336 BH	2	10	0	0	6
0.164340336 BH	38	79	10	6	58.5
0.164340336 BH	14	86	150	100	50
0.164340336 BH	0	15	0	0	7.5
0.164340336 BH	0	15	0	0	7.5
0.164340336 BH	0	15	0	0	7.5
0.164340336 BH	0	15	0	0	7.5
0.164340336 BH	0	15	0	0	7.5
0.164340336 BH	0	15	0	0	7.5
0.164340336 BH	0	15	0	0	7.5
0.164340336 BH	0	15	0	0	7.5
0.164340336 BH	0	15	0	0	7.5
0.164340336 BH	0	15	0	0	7.5
0.164340336 BH	0	15	0	0	7.5
0.164340336 BH	0	15	0	0	7.5
0.164340336 BH	0	15	0	0	7.5
0.164340336 BH	0	15	0	0	7.5
0.164340336 BH	4	19	54	15	11.5
0.164340336 BH	47	40	10	3	43.5
0.164340336 BH	0	3	15	3	1.5
0.164340336 BH	0	3	15	3	1.5
0.164503033 BH	25	23	5	1	24
0.164503033 BH	4	14	1	0	9
0.164503033 BH	4	14	1	0	9
0.164503033 BH	1	306	7	9	153.5
0.164503899 BH	10	20	3	0	15
0.164644586 BH	14	52	6	1	33
0.164844501 BH	16	23	3	1	19.5
0.165067499 BH	71	0	6	0	35.5
0.165116463 BH	0	16	0	0	8
0.165116463 BH	0	16	0	0	8
0.165116463 BH	0	16	0	0	8
0.165116463 BH	0	16	0	0	8
0.165116463 BH	0	16	0	0	8

0.165116463 BH	0	16	0	0	8
0.165116463 BH	19	17	3	1	18
0.165166062 BH	5	32	3	0	18.5
0.165166062 BH	5	31	3	0	18
0.165265634 BH	8	30	52	47	19
0.165956196 BH	65	41	12	4	53
0.166467426 BH	41	229	22	9	135
0.166840516 BH	843	173	22	111	508
0.166840516 BH	2	4	12	10	3
0.166840516 BH	16	57	7	1	36.5
0.167133953 BH	0	4	11	5	2
0.167133953 BH	1	6	17	6	3.5
0.167444889 BH	20	122	11	4	71
0.167526742 BH	7	8	1	0	7.5
0.167631703 BH	21	56	6	3	38.5
0.167945009 BH	10	6	86	5	8
0.168314805 BH	156	99	28	15	127.5
0.168372915 BH	41	66	201	111	53.5
0.168372915 BH	142	172	9	32	157
0.168372915 BH	0	6	13	7	3
0.169062584 BH	2	4	32	2	3
0.16927393 BH	0	2	9	3	1
0.16927393 BH	3	16	1	0	9.5
0.169351317 BH	28	24	6	1	26
0.16970031 BH	10	28	83	30	19
0.16970031 BH	1	11	0	0	6
0.16970031 BH	1	11	0	0	6
0.16970031 BH	1	11	0	0	6
0.170007976 BH	6	34	41	59	20
0.17025496 BH	0	2	15	0	1
0.170460328 BH	19	11	1	2	15
0.170460328 BH	3	24	48	25	13.5
0.170616634 BH	15	28	87	43	21.5
0.170616634 BH	0	8	26	3	4
0.170616634 BH	51	498	45	12	274.5
0.170616634 BH	8	12	58	14	10
0.170616634 BH	3	17	1	0	10
0.170616634 BH	4	24	0	1	14
0.170616634 BH	1	12	0	0	6.5
0.170616634 BH	1	12	0	0	6.5
0.170616634 BH	1	12	0	0	6.5
0.17204511 BH	0	5	2	19	2.5
0.172581838 BH	6	28	3	0	17
0.172581838 BH	2	1	17	4	1.5
0.172844371 BH	4	23	2	0	13.5
0.172844371 BH	0	4	12	4	2
0.173037838 BH	1	0	12	1	0.5

0.173037838 BH	1	22	1	0	11.5
0.173527026 BH	35	25	6	2	30
0.17471308 BH	319	351	33	68	335
0.174835397 BH	0	7	21	5	3.5
0.174835397 BH	3	45	2	1	24
0.174931175 BH	0	5	16	5	2.5
0.175091927 BH	1	23	1	0	12
0.175091927 BH	22	16	4	0	19
0.175294606 BH	40	28	7	3	34
0.175294606 BH	97	141	25	13	119
0.175469041 BH	107	115	30	4	111
0.175514826 BH	2	9	24	10	5.5
0.175848314 BH	6	8	43	12	7
0.175927694 BH	16	82	5	5	49
0.176039507 BH	1	1	10	5	1
0.176190072 BH	140	184	16	32	162
0.176398253 BH	32	46	8	3	39
0.176571317 BH	13	21	57	42	17
0.176941733 BH	8	23	0	2	15.5
0.177428722 BH	3	6	31	6	4.5
0.178580772 BH	1	4	11	7	2.5
0.178740231 BH	5	38	1	2	21.5
0.179011858 BH	1	0	1	10	0.5
0.179274023 BH	22	52	123	72	37
0.179274023 BH	35	267	4	22	151
0.179457172 BH	9	19	3	0	14
0.180140984 BH	2	19	1	0	10.5
0.180140984 BH	2	19	1	0	10.5
0.180360942 BH	21	31	3	3	26
0.180783003 BH	3	11	11	32	7
0.180783003 BH	11	16	1	1	13.5
0.180783003 BH	7	24	1	1	15.5
0.181509976 BH	42	55	12	2	48.5
0.181699326 BH	6	24	32	42	15
0.181977294 BH	24	67	5	6	45.5
0.18209154 BH	432	97	52	39	264.5
0.182211733 BH	14	53	4	3	33.5
0.182633543 BH	0	4	9	6	2
0.182633543 BH	0	4	9	6	2
0.183056088 BH	19	20	3	2	19.5
0.183056127 BH	4	61	4	1	32.5
0.183172464 BH	1	5	7	14	3
0.183668757 BH	1	1	15	2	1
0.183731695 BH	1	10	22	12	5.5
0.183762278 BH	11	22	2	1	16.5
0.184173466 BH	43	28	8	3	35.5
0.184937216 BH	3	8	20	15	5.5





0.192071367 BH	0	14	0	0	7
0.192071367 BH	0	14	0	0	7
0.192071367 BH	0	14	0	0	7
0.192071367 BH	0	14	0	0	7
0.192071367 BH	0	14	0	0	7
0.192071367 BH	0	14	0	0	7
0.192583819 BH	22	164	8	12	93
0.193358882 BH	22	113	12	4	67.5
0.193403397 BH	0	2	8	3	1
0.193403397 BH	52	10	7	2	31
0.193403397 BH	565	1144	209	69	854.5
0.193526905 BH	0	5	10	8	2.5
0.193526905 BH	5	1	25	7	3
0.193570982 BH	7	15	34	29	11
0.193570982 BH	2	5	26	3	3.5
0.193851247 BH	19	48	6	2	33.5
0.19416173 BH	1	21	1	0	11
0.194216585 BH	0	40	0	1	20
0.194290091 BH	304	872	66	102	588
0.194565141 BH	2	11	22	13	6.5
0.194591135 BH	8	86	8	0	47
0.194703763 BH	81	14	11	4	47.5
0.195037774 BH	30	39	7	3	34.5
0.195037774 BH	15	69	6	4	42
0.19503855 BH	7	8	47	11	7.5
0.1950611 BH	1	9	35	2	5
0.1950611 BH	13	5	2	0	9
0.195262727 BH	4	6	29	8	5
0.195262727 BH	12	42	1	4	27
0.195970872 BH	1	2	13	2	1.5
0.195970872 BH	0	3	13	3	1.5
0.195970872 BH	1	1	3	11	1
0.196091532 BH	5	51	3	2	28
0.196444709 BH	100	153	28	14	126.5
0.197106678 BH	16	95	11	0	55.5
0.197993801 BH	0	6	11	7	3
0.198768011 BH	23	18	5	0	20.5
0.199312878 BH	4	30	3	0	17
0.199419949 BH	41	177	18	11	109
0.199729871 BH	8	27	35	52	17.5
0.199729871 BH	70	84	12	13	77
0.199823396 BH	22	45	5	4	33.5
0.199837166 BH	26	262	21	11	144
0.20056845 BH	2	9	0	0	5.5
0.20056845 BH	2	9	0	0	5.5
0.20056845 BH	2	9	0	0	5.5
0.20056845 BH	2	9	0	0	5.5

0.201823706 BH	13	22	81	25	17.5
0.201823706 BH	5	13	17	32	9
0.201875809 BH	8	0	58	5	4
0.201906663 BH	0	3	8	6	1.5
0.201906663 BH	0	3	8	6	1.5
0.201952039 BH	1	1	16	1	1
0.202171708 BH	73	18	13	1	45.5
0.202171708 BH	12	63	5	3	37.5
0.202171708 BH	1	147	186	233	74
0.202171708 BH	444	1072	87	140	758
0.202171708 BH	16	89	7	5	52.5
0.202171708 BH	2	17	1	0	9.5
0.202171708 BH	2	16	1	0	9
0.202171708 BH	2	17	1	0	9.5
0.202736739 BH	16	176	313	140	96
0.203254653 BH	6	1	28	11	3.5
0.203619541 BH	3	2	26	3	2.5
0.203619541 BH	1	11	18	13	6
0.203619541 BH	6	16	2	0	11
0.203619541 BH	7	14	2	0	10.5
0.20395368 BH	4	10	51	3	7
0.204001944 BH	99	354	739	330	226.5
0.204838941 BH	0	6	13	5	3
0.205166383 BH	0	24	1	0	12
0.205166383 BH	0	24	1	0	12
0.205166383 BH	15	58	8	1	36.5
0.205287289 BH	1	7	14	10	4
0.205740102 BH	5	18	2	0	11.5
0.205740102 BH	5	18	2	0	11.5
0.205740102 BH	2	35	1	1	18.5
0.205740102 BH	0	5	17	3	2.5
0.206959584 BH	0	74	102	110	37
0.206959584 BH	18	61	9	0	39.5
0.206959584 BH	31	44	9	2	37.5
0.206959584 BH	20	33	88	53	26.5
0.206959584 BH	1	10	0	0	5.5
0.206959584 BH	1	10	0	0	5.5
0.206959584 BH	1	10	0	0	5.5
0.206959584 BH	1	10	0	0	5.5
0.206959584 BH	1	10	0	0	5.5
0.206959584 BH	1	10	0	0	5.5
0.207374712 BH	32	38	167	52	35
0.207615151 BH	26	25	4	3	25.5
0.207811626 BH	28	25	7	1	26.5
0.207943788 BH	2	12	40	5	7
0.208119529 BH	14	14	2	1	14
0.208265134 BH	4	0	24	5	2

0.208292339 BH	42	47	10	4	44.5
0.208639559 BH	2	26	0	1	14
0.208654201 BH	0	2	0	11	1
0.208654201 BH	9	25	0	3	17
0.208654201 BH	5	19	38	21	12
0.208826382 BH	86	415	540	530	250.5
0.20934162 BH	13	36	5	1	24.5
0.209383353 BH	0	4	5	8	2
0.209383353 BH	0	4	10	4	2
0.209383353 BH	4	21	0	1	12.5
0.209383353 BH	0	4	10	4	2
0.210546798 BH	4	0	35	1	2
0.210591688 BH	20	22	81	44	21
0.210591688 BH	1	0	0	11	0.5
0.210591688 BH	2	27	0	1	14.5
0.210864644 BH	7	52	5	1	29.5
0.210864644 BH	2	43	1	2	22.5
0.210864644 BH	4	35	1	2	19.5
0.210864644 BH	7	41	3	2	24
0.210864644 BH	23	37	6	2	30
0.211288074 BH	1	9	3	26	5
0.211415441 BH	4	27	1	1	15.5
0.211955674 BH	1	29	2	0	15
0.2125352 BH	30	34	9	1	32
0.212820196 BH	1	6	16	5	3.5
0.213201474 BH	0	16	19	22	8
0.213201474 BH	8	212	14	6	110
0.213201474 BH	7	36	49	47	21.5
0.213201474 BH	5	16	51	11	10.5
0.213649315 BH	7	41	2	3	24
0.213649315 BH	15	44	4	3	29.5
0.214412649 BH	56	44	8	9	50
0.214486883 BH	1	1	0	16	1
0.214578791 BH	2	12	21	15	7
0.214759792 BH	2	0	0	16	1
0.214857763 BH	0	2	10	1	1
0.214857763 BH	0	2	10	1	1
0.215842231 BH	22	41	8	0	31.5
0.215877125 BH	1	3	17	2	2
0.215877125 BH	0	4	11	3	2
0.215877125 BH	0	4	11	3	2
0.215877125 BH	0	8	14	7	4
0.215877125 BH	43	68	408	20	55.5
0.215877125 BH	9	16	3	0	12.5
0.215877125 BH	2	1	14	4	1.5
0.215877125 BH	6	24	0	2	15
0.215877125 BH	18	72	5	6	45

0.216263803 BH	6	53	4	2	29.5
0.216536432 BH	1	18	1	0	9.5
0.217121599 BH	135	555	48	51	345
0.217121599 BH	6	28	49	32	17
0.217147138 BH	6	38	3	1	22
0.217147138 BH	14	20	3	1	17
0.217233895 BH	1	2	8	5	1.5
0.217233895 BH	5	0	14	14	2.5
0.217407478 BH	2	3	22	2	2.5
0.217407478 BH	5	85	3	5	45
0.217407478 BH	148	60	27	13	104
0.217407478 BH	10	7	2	0	8.5
0.217431258 BH	6	38	68	33	22
0.217431258 BH	5	10	1	0	7.5
0.217431258 BH	3	1	18	4	2
0.217431258 BH	7	20	1	1	13.5
0.217431258 BH	1	3	11	6	2
0.217431258 BH	7	20	1	1	13.5
0.217431258 BH	2	2	8	8	2
0.217431258 BH	0	6	8	9	3
0.217455652 BH	1	19	1	0	10
0.217455652 BH	1	19	1	0	10
0.217455652 BH	1	19	1	0	10
0.217638762 BH	0	37	0	1	18.5
0.217638762 BH	6	44	3	2	25
0.217654643 BH	8	22	46	30	15
0.218410795 BH	20	36	0	6	28
0.218410795 BH	26	369	32	12	197.5
0.218410795 BH	5	39	2	2	22
0.218410795 BH	3	6	26	6	4.5
0.218410795 BH	9	45	5	1	27
0.218410795 BH	7	33	2	2	20
0.218410795 BH	23	7	1	3	15
0.218410795 BH	1	2	18	0	1.5
0.218410795 BH	0	10	19	7	5
0.218410795 BH	3	22	2	0	12.5
0.218537475 BH	6	44	40	71	25
0.218537475 BH	48	11	9	1	29.5
0.218537475 BH	1	64	80	80	32.5
0.218537475 BH	15	29	4	2	22
0.218537475 BH	1	6	13	7	3.5
0.218537475 BH	1	6	13	7	3.5
0.218699801 BH	1	4	11	5	2.5
0.218828576 BH	38	31	8	4	34.5
0.218995043 BH	0	64	0	3	32
0.219019898 BH	62	87	20	5	74.5
0.219840009 BH	2	6	21	7	4

0.219840009 BH	16	22	4	1	19
0.219840009 BH	55	603	26	46	329
0.219840009 BH	6	7	1	0	6.5
0.220108499 BH	1	47	1	2	24
0.220432836 BH	1	5	18	4	3
0.221132692 BH	3	30	1	1	16.5
0.221132692 BH	3	30	1	1	16.5
0.221319114 BH	18	90	4	8	54
0.221319114 BH	36	3	146	62	19.5
0.221649481 BH	20	150	9	11	85
0.221696084 BH	3	13	1	0	8
0.221696084 BH	3	13	1	0	8
0.221890407 BH	9	129	129	164	69
0.222075867 BH	1	82	5	1	41.5
0.222075867 BH	54	225	330	261	139.5
0.222075867 BH	0	2	12	0	1
0.222075867 BH	0	2	12	0	1
0.222075867 BH	0	22	1	0	11
0.222075867 BH	0	2	12	0	1
0.222311265 BH	1	22	29	23	11.5
0.222311265 BH	22	184	19	6	103
0.222311265 BH	4	34	1	2	19
0.222311265 BH	0	7	13	8	3.5
0.222311265 BH	2	12	17	18	7
0.222833408 BH	64	56	4	14	60
0.222843373 BH	113	534	358	1025	323.5
0.22291775 BH	4	24	25	38	14
0.223073711 BH	2	6	17	9	4
0.223297296 BH	18	23	4	2	20.5
0.223318291 BH	1	2	4	8	1.5
0.223695942 BH	32	93	14	5	62.5
0.223870432 BH	35	5	1	4	20
0.223870432 BH	88	250	649	182	169
0.223878614 BH	7	0	21	19	3.5
0.223878614 BH	1	10	13	16	5.5
0.224501418 BH	8	38	4	1	23
0.224672548 BH	39	165	18	11	102
0.224672548 BH	0	34	26	60	17
0.224672548 BH	10	29	4	0	19.5
0.224672548 BH	1	3	13	4	2
0.224672548 BH	49	105	12	12	77
0.224672548 BH	2	0	0	21	1
0.225122096 BH	0	4	7	6	2
0.225122096 BH	7	12	2	0	9.5
0.225122096 BH	0	12	0	0	6
0.225122096 BH	0	12	0	0	6
0.225122096 BH	0	12	0	0	6

0.225122096 BH	0	12	0	0	6
0.225295361 BH	0	10	17	8	5
0.225380314 BH	3	7	21	8	5
0.225494932 BH	20	77	8	5	48.5
0.225952 BH	1	101	6	2	51
0.225952 BH	10	212	10	12	111
0.225952 BH	7	64	4	3	35.5
0.225952 BH	18	22	5	0	20
0.225952 BH	0	13	0	0	6.5
0.225952 BH	0	13	0	0	6.5
0.225952 BH	0	13	0	0	6.5
0.225952 BH	0	13	0	0	6.5
0.225952 BH	0	13	0	0	6.5
0.225952 BH	0	13	0	0	6.5
0.225952 BH	0	13	0	0	6.5
0.225952 BH	0	13	0	0	6.5
0.226046175 BH	2	2	13	4	2
0.226121658 BH	0	6	14	4	3
0.226121658 BH	2	0	8	5	1
0.226121658 BH	2	0	8	5	1
0.226121658 BH	5	16	2	0	10.5
0.226123274 BH	4	0	22	5	2
0.226368623 BH	21	37	6	2	29
0.226368623 BH	17	46	6	2	31.5
0.227051694 BH	263	654	70	80	458.5
0.228932834 BH	4	8	33	6	6
0.228971607 BH	23	0	3	0	11.5
0.229384473 BH	35	86	167	109	60.5
0.229437445 BH	7	1	40	6	4
0.229437445 BH	69	336	218	638	202.5
0.229765684 BH	25	8	4	1	16.5
0.230105621 BH	31	59	10	4	45
0.23045867 BH	14	29	4	2	21.5
0.230500092 BH	20	19	4	2	19.5
0.230647945 BH	30	43	9	3	36.5
0.231274359 BH	8	23	2	1	15.5
0.23150092 BH	6	0	56	0	3
0.232712399 BH	13	118	11	4	65.5
0.2327911 BH	2	11	18	13	6.5
0.232846507 BH	11	33	64	40	22
0.232871696 BH	144	215	46	20	179.5
0.232871696 BH	0	9	20	6	4.5
0.233466905 BH	62	194	29	12	128
0.233466905 BH	2	33	0	2	17.5
0.233466905 BH	14	71	8	3	42.5
0.233466905 BH	6	20	3	0	13
0.233466905 BH	24	195	16	11	109.5

0.233586416 BH	10	19	1	2	14.5
0.233586416 BH	8	22	1	2	15
0.233586416 BH	1	5	9	10	3
0.234305362 BH	17	31	6	1	24
0.234445616 BH	5	33	9	83	19
0.235003855 BH	8	464	24	17	236
0.235243429 BH	5	2	33	3	3.5
0.235243429 BH	2	11	19	12	6.5
0.235243429 BH	19	25	5	2	22
0.235243429 BH	0	4	10	3	2
0.235305378 BH	16	38	3	4	27
0.235639098 BH	2	33	3	0	17.5
0.235726337 BH	18	103	8	7	60.5
0.235794821 BH	15	5	1	1	10
0.235794821 BH	37	15	8	0	26
0.235887493 BH	4	1	30	1	2.5
0.236655214 BH	15	10	1	2	12.5
0.236778355 BH	3	51	3	2	27
0.236778355 BH	6	14	46	11	10
0.237100584 BH	42	60	10	7	51
0.237197336 BH	0	17	22	17	8.5
0.237197336 BH	3	20	2	0	11.5
0.237197336 BH	3	19	2	0	11
0.237555554 BH	6	20	1	1	13
0.237705114 BH	17	58	3	6	37.5
0.237863043 BH	3	28	1	1	15.5
0.237948811 BH	53	46	14	4	49.5
0.238482743 BH	9	123	10	4	66
0.238482743 BH	32	32	8	3	32
0.23876046 BH	3	101	7	2	52
0.23948712 BH	1	11	9	19	6
0.240572095 BH	20	187	16	10	103.5
0.240572095 BH	2	0	13	4	1
0.240572095 BH	12	60	4	5	36
0.241106863 BH	0	30	42	32	15
0.241136439 BH	9	55	4	3	32
0.24199345 BH	1	45	2	1	23
0.242281363 BH	87	173	29	17	130
0.242288299 BH	52	116	18	10	84
0.242414893 BH	51	12	9	2	31.5
0.243133933 BH	0	5	13	4	2.5
0.243133933 BH	1	17	1	0	9
0.243133933 BH	1	17	1	0	9
0.243506917 BH	4	0	27	2	2
0.243991892 BH	7	38	4	1	22.5
0.24452737 BH	0	3	3	10	1.5
0.245040125 BH	0	20	1	0	10



0.245099783 BH	1	2	5	7	1.5
0.245340274 BH	3	44	3	1	23.5
0.245340274 BH	8	32	4	0	20
0.24551054 BH	13	30	4	2	21.5
0.2462684 BH	10	24	3	1	17
0.246455116 BH	5	8	25	12	6.5
0.246873549 BH	0	3	12	2	1.5
0.246873549 BH	0	3	12	2	1.5
0.247040315 BH	0	21	1	0	10.5
0.247040315 BH	0	21	1	0	10.5
0.247082696 BH	3	127	9	3	65
0.247083013 BH	8	24	46	28	16
0.247146493 BH	3	4	38	0	3.5
0.247611669 BH	0	4	14	1	2
0.247611669 BH	1	26	2	0	13.5
0.247611669 BH	10	18	53	21	14
0.247631278 BH	4	14	33	14	9
0.247993132 BH	4	25	3	0	14.5
0.248126682 BH	1	22	13	36	11.5
0.248670678 BH	28	0	0	3	14
0.248740584 BH	2	21	2	0	11.5
0.248740584 BH	2	21	2	0	11.5
0.248740584 BH	254	1796	103	166	1025
0.248879037 BH	1	40	53	36	20.5
0.248879037 BH	9	151	10	7	80
0.249046632 BH	1	1	5	7	1
0.249094749 BH	0	53	2	1	26.5
0.249094749 BH	24	95	178	80	59.5
0.24913396 BH	0	53	30	100	26.5
0.249530949 BH	28	28	7	2	28
0.250096863 BH	1	10	14	14	5.5
0.25081785 BH	10	22	56	23	16
0.25081785 BH	22	51	128	47	36.5
0.250948988 BH	27	27	6	3	27
0.250948988 BH	0	57	4	0	28.5
0.252038503 BH	20	50	97	60	35
0.252745408 BH	0	62	3	1	31
0.252962822 BH	9	60	4	4	34.5
0.252980424 BH	13	8	0	2	10.5
0.253347864 BH	3	42	2	2	22.5
0.253378341 BH	3	10	27	8	6.5
0.253396687 BH	53	75	10	12	64
0.253748693 BH	6	13	2	0	9.5
0.253982305 BH	2	8	19	9	5
0.254284589 BH	1	5	5	13	3
0.254284589 BH	4	31	2	1	17.5
0.254351523 BH	8	35	4	1	21.5

0.254846084 BH	2	7	14	10	4.5
0.255152646 BH	66	266	6	35	166
0.255441437 BH	0	6	14	3	3
0.255674139 BH	28	20	4	4	24
0.255674139 BH	0	4	6	6	2
0.255674139 BH	1	1	10	3	1
0.255674139 BH	7	10	2	0	8.5
0.255674139 BH	1	1	10	3	1
0.255674139 BH	3	11	1	0	7
0.255674139 BH	3	11	1	0	7
0.255674139 BH	5	7	1	0	6
0.255942403 BH	53	101	235	120	77
0.256129807 BH	5	0	16	10	2.5
0.256250867 BH	8	60	61	74	34
0.256736834 BH	6	64	2	5	35
0.256832464 BH	7	43	54	47	25
0.256832464 BH	2	2	13	3	2
0.256832464 BH	26	29	7	2	27.5
0.257602007 BH	136	271	34	39	203.5
0.257602007 BH	0	4	8	4	2
0.257602007 BH	4	16	2	0	10
0.257602007 BH	0	4	8	4	2
0.257602007 BH	4	56	5	1	30
0.258137165 BH	3	42	3	1	22.5
0.258522171 BH	1	7	1	23	4
0.259120378 BH	0	7	12	7	3.5
0.259423439 BH	0	6	7	8	3
0.259965501 BH	30	69	133	86	49.5
0.260126521 BH	2	7	17	7	4.5
0.260126521 BH	18	27	6	1	22.5
0.260630093 BH	49	13	6	5	31
0.260648445 BH	27	37	5	5	32
0.260684433 BH	6	39	22	72	22.5
0.261657921 BH	1	11	10	17	6
0.261657921 BH	28	21	6	2	24.5
0.261657921 BH	1	4	8	6	2.5
0.261964653 BH	5	21	3	0	13
0.26201986 BH	6	13	31	16	9.5
0.26201986 BH	0	39	1	1	19.5
0.26201986 BH	2	568	21	22	285
0.262033157 BH	19	17	4	2	18
0.262033157 BH	57	44	16	3	50.5
0.262049147 BH	0	3	10	3	1.5
0.262818419 BH	20	202	8	18	111
0.262818419 BH	29	81	13	5	55
0.263184078 BH	2	13	1	0	7.5
0.263184078 BH	2	13	1	0	7.5

0.263184078 BH	2	14	1	0	8
0.263670496 BH	3	7	17	9	5
0.264272629 BH	14	77	7	5	45.5
0.264491088 BH	3	18	2	0	10.5
0.264736257 BH	14	53	7	2	33.5
0.264736257 BH	21	27	7	1	24
0.264736257 BH	1	14	16	17	7.5
0.265180284 BH	16	4	0	2	10
0.265180284 BH	13	11	2	1	12
0.265180284 BH	5	28	2	1	16.5
0.265180284 BH	10	22	3	1	16
0.265180284 BH	10	23	3	1	16.5
0.265259049 BH	1	8	11	13	4.5
0.265380087 BH	161	162	38	28	161.5
0.265447125 BH	7	50	3	3	28.5
0.265447125 BH	10	7	46	13	8.5
0.265918323 BH	127	1185	24	119	656
0.266261799 BH	0	3	13	1	1.5
0.266273121 BH	25	4	4	0	14.5
0.266273121 BH	3	33	1	2	18
0.266273121 BH	3	32	1	2	17.5
0.266371675 BH	3	11	30	8	7
0.266390292 BH	23	17	6	1	20
0.266412962 BH	0	17	11	25	8.5
0.266845587 BH	2	37	1	2	19.5
0.267406885 BH	5	27	1	2	16
0.268470581 BH	5	20	1	1	12.5
0.268476869 BH	1	25	0	1	13
0.268476869 BH	0	4	13	1	2
0.268476869 BH	72	64	14	13	68
0.268597627 BH	1	4	14	2	2.5
0.269121248 BH	5	27	30	35	16
0.269217934 BH	0	6	15	2	3
0.269217934 BH	2	17	29	14	9.5
0.269217934 BH	32	139	128	200	85.5
0.269629793 BH	0	9	16	7	4.5
0.269765606 BH	24	28	96	41	26
0.269854887 BH	53	198	13	25	125.5
0.269882477 BH	1	6	14	4	3.5
0.269974993 BH	15	16	64	24	15.5
0.269992635 BH	8	40	5	1	24
0.269992635 BH	26	35	7	4	30.5
0.269992635 BH	1	7	11	9	4
0.270058661 BH	41	7	8	1	24
0.270058661 BH	2	1	8	7	1.5
0.270058661 BH	1	4	11	4	2.5
0.270058661 BH	6	37	3	2	21.5

0.270153644 BH	17	18	5	0	17.5
0.270210579 BH	62	6	10	3	34
0.270383117 BH	5	28	0	3	16.5
0.270383117 BH	8	74	6	4	41
0.270383117 BH	20	59	7	5	39.5
0.270383117 BH	4	36	2	2	20
0.270383117 BH	12	17	68	15	14.5
0.270383117 BH	17	133	9	10	75
0.270383117 BH	10	5	38	16	7.5
0.270383117 BH	19	52	90	61	35.5
0.270383117 BH	4	30	2	1	17
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270383117 BH	0	11	0	0	5.5
0.270565285 BH	0	3	11	2	1.5
0.270596628 BH	4	43	3	2	23.5
0.270616949 BH	4	22	1	1	13
0.271122546 BH	21	47	8	3	34
0.271137625 BH	0	11	11	14	5.5
0.272346366 BH	0	18	0	1	9
0.272680895 BH	18	4	2	1	11
0.272689192 BH	12	5	70	5	8.5
0.272849978 BH	0	9	17	6	4.5
0.272849978 BH	23	53	5	7	38
0.27314155 BH	3	0	27	0	1.5
0.273403366 BH	9	18	2	1	13.5
0.273403366 BH	8	19	2	1	13.5
0.273403366 BH	4	22	39	18	13
0.27430852 BH	1	15	1	0	8
0.27432318 BH	66	44	16	7	55
0.27432318 BH	3	16	31	11	9.5
0.274359883 BH	3	1	17	3	2
0.274757921 BH	6	82	7	3	44

0.275046453 BH	2	20	2	0	11
0.275046453 BH	2	20	2	0	11
0.275046453 BH	14	67	8	4	40.5
0.275046453 BH	11	140	126	158	75.5
0.275126153 BH	7	39	4	2	23
0.27515171 BH	2	3	16	3	2.5
0.27515171 BH	2	49	4	0	25.5
0.27515171 BH	11	25	4	1	18
0.275728975 BH	10	15	2	1	12.5
0.275837456 BH	6	31	3	1	18.5
0.275837456 BH	136	725	110	21	430.5
0.276041313 BH	120	241	52	17	180.5
0.276072492 BH	10	47	50	60	28.5
0.276388971 BH	4	67	3	4	35.5
0.276923684 BH	7	46	5	2	26.5
0.276951084 BH	1	1	8	4	1
0.277207253 BH	20	30	4	4	25
0.277262152 BH	0	38	1	1	19
0.277366304 BH	4	35	1	3	19.5
0.27747324 BH	110	267	34	34	188.5
0.27747324 BH	1	5	16	3	3
0.27747324 BH	0	5	9	6	2.5
0.277629888 BH	27	78	9	8	52.5
0.277635809 BH	0	11	27	3	5.5
0.277821115 BH	6	13	53	4	9.5
0.277821115 BH	1	6	11	6	3.5
0.278809153 BH	8	72	6	4	40
0.279500957 BH	3	79	3	5	41
0.280411031 BH	3	31	2	1	17
0.280411031 BH	0	8	10	8	4
0.280908989 BH	17	20	5	1	18.5
0.280908989 BH	3	10	23	9	6.5
0.281437668 BH	6	30	1	3	18
0.281595284 BH	0	3	7	5	1.5
0.281654911 BH	0	4	2	9	2
0.281654911 BH	1	1	12	1	1
0.281889328 BH	26	23	5	4	24.5
0.281889328 BH	5	7	30	7	6
0.281889328 BH	3	6	25	4	4.5
0.282143188 BH	2	35	47	28	18.5
0.282219707 BH	3	21	24	24	12
0.282219707 BH	28	94	84	152	61
0.282905618 BH	3	30	1	2	16.5
0.283253376 BH	0	9	6	15	4.5
0.283253376 BH	2	8	18	8	5
0.283253376 BH	15	41	6	2	28
0.28354461 BH	1	1	9	3	1

0.283670239 BH	0	28	2	0	14
0.283793347 BH	131	693	48	76	412
0.283945217 BH	15	27	5	2	21
0.285935397 BH	55	28	15	1	41.5
0.286051031 BH	55	144	208	184	99.5
0.286994863 BH	1	9	10	12	5
0.287095295 BH	15	95	2	11	55
0.287122127 BH	73	207	31	20	140
0.287426011 BH	6	26	40	27	16
0.288762921 BH	0	4	5	6	2
0.288762921 BH	8	8	0	1	8
0.288762921 BH	4	15	2	0	9.5
0.288762921 BH	0	6	14	2	3
0.288975513 BH	16	13	4	0	14.5
0.289290085 BH	18	57	4	7	37.5
0.289472786 BH	115	120	27	22	117.5
0.289710959 BH	11	30	5	1	20.5
0.289710959 BH	1	7	12	8	4
0.289710959 BH	1	7	12	8	4
0.289710959 BH	12	16	3	1	14
0.289710959 BH	10	25	2	3	17.5
0.28973254 BH	7	41	5	1	24
0.290161056 BH	3	51	4	2	27
0.290368757 BH	3	16	28	12	9.5
0.290776756 BH	7	8	2	0	7.5
0.291007935 BH	17	5	0	3	11
0.292175225 BH	27	31	10	1	29
0.292485436 BH	178	176	242	623	177
0.292697812 BH	18	22	6	1	20
0.292702823 BH	2	5	15	5	3.5
0.292702823 BH	1	8	18	6	4.5
0.293212505 BH	3	16	2	0	9.5
0.293212505 BH	3	16	2	0	9.5
0.293212505 BH	5	19	1	1	12
0.293405743 BH	12	26	4	2	19
0.293405743 BH	1	24	0	1	12.5
0.293405743 BH	1	24	0	1	12.5
0.293405743 BH	0	4	12	1	2
0.293480086 BH	5	104	9	4	54.5
0.293869807 BH	10	32	44	41	21
0.293908594 BH	51	358	285	440	204.5
0.29404873 BH	35	227	19	20	131
0.294508317 BH	136	344	46	44	240
0.295271278 BH	12	16	1	3	14
0.295271278 BH	14	148	11	10	81
0.295467291 BH	13	47	5	4	30
0.295467291 BH	1	4	10	4	2.5

0.295534041 BH	37	97	8	14	67
0.295879855 BH	84	41	16	11	62.5
0.29593166 BH	3	10	1	0	6.5
0.29593166 BH	3	10	1	0	6.5
0.29593166 BH	3	10	1	0	6.5
0.29593166 BH	3	10	1	0	6.5
0.29593166 BH	3	9	1	0	6
0.29593166 BH	3	9	1	0	6
0.297259905 BH	40	155	243	129	97.5
0.29736546 BH	0	3	3	8	1.5
0.29736546 BH	17	34	6	2	25.5
0.29736546 BH	11	47	5	3	29
0.29736546 BH	17	103	176	61	60
0.29736546 BH	1	8	29	1	4.5
0.29736546 BH	3	3	15	5	3
0.29736546 BH	4	33	1	3	18.5
0.29736546 BH	29	100	12	9	64.5
0.29736546 BH	46	143	249	125	94.5
0.29736546 BH	14	17	2	3	15.5
0.29736546 BH	15	15	3	2	15
0.29736546 BH	7	31	2	3	19
0.29736546 BH	0	23	45	10	11.5
0.297370177 BH	16	25	3	3	20.5
0.297370177 BH	4	152	15	0	78
0.29775501 BH	4	19	15	30	11.5
0.29775501 BH	5	114	87	133	59.5
0.298104391 BH	21	39	8	2	30
0.298439076 BH	251	39	54	10	145
0.298439076 BH	16	29	4	3	22.5
0.298439076 BH	7	19	2	1	13
0.298439076 BH	9	16	2	1	12.5
0.298439076 BH	28	29	5	5	28.5
0.298493931 BH	13	63	9	2	38
0.298978589 BH	11	7	3	0	9
0.298978589 BH	2	1	14	2	1.5
0.299990307 BH	1	8	14	9	4.5
0.300379248 BH	13	29	5	2	21
0.300993957 BH	0	3	10	2	1.5
0.300993957 BH	0	7	10	7	3.5
0.300993957 BH	1	6	15	3	3.5
0.300993957 BH	1	5	15	3	3
0.30110476 BH	4	10	28	7	7
0.30110476 BH	1	5	11	6	3
0.301227734 BH	3	30	12	52	16.5
0.301227734 BH	4	4	26	3	4
0.301227734 BH	67	9	11	5	38
0.301522191 BH	0	10	4	16	5

0.301656576 BH	25	39	9	3	32
0.30186196 BH	41	38	12	4	39.5
0.302056996 BH	6	23	31	27	14.5
0.302056996 BH	5	28	54	17	16.5
0.302299401 BH	2	11	0	1	6.5
0.302299401 BH	2	12	1	0	7
0.302299401 BH	2	12	1	0	7
0.302299401 BH	2	12	1	0	7
0.302299401 BH	2	12	1	0	7
0.302306748 BH	8	27	62	17	17.5
0.302306748 BH	0	15	17	13	7.5
0.302306748 BH	32	249	28	14	140.5
0.302306748 BH	0	16	0	1	8
0.302322033 BH	37	16	8	3	26.5
0.302322033 BH	70	951	29	91	510.5
0.302932074 BH	8	35	4	2	21.5
0.30317836 BH	26	112	106	144	69
0.304380454 BH	0	17	1	0	8.5
0.304380454 BH	0	17	1	0	8.5
0.304380454 BH	0	17	1	0	8.5
0.304380454 BH	0	17	1	0	8.5
0.304380454 BH	0	17	1	0	8.5
0.304584045 BH	4	2	34	0	3
0.304584045 BH	47	97	22	6	72
0.304633623 BH	2	7	18	5	4.5
0.304921996 BH	9	50	4	4	29.5
0.305315982 BH	0	8	11	6	4
0.305389392 BH	6	22	1	2	14
0.305389392 BH	5	23	2	1	14
0.305397274 BH	5	13	20	19	9
0.305397274 BH	6	17	0	2	11.5
0.305397274 BH	3	22	1	1	12.5
0.305669312 BH	14	80	7	7	47
0.305669312 BH	9	25	3	2	17
0.305669312 BH	9	25	3	2	17
0.305669312 BH	0	18	1	0	9
0.305669312 BH	0	18	1	0	9
0.305669312 BH	0	17	0	1	8.5
0.305669312 BH	0	17	0	1	8.5
0.305980864 BH	1	19	42	6	10
0.305980864 BH	10	42	4	3	26
0.306232846 BH	39	30	10	4	34.5
0.306416662 BH	7	28	36	32	17.5
0.307150928 BH	1	3	18	0	2
0.307468204 BH	5	23	1	2	14
0.307468204 BH	0	6	8	6	3
0.307468204 BH	0	5	9	5	2.5



0.30793727 BH	11	17	3	1	14
0.30793727 BH	1	9	22	3	5
0.30850139 BH	8	27	3	2	17.5
0.308592344 BH	263	370	91	47	316.5
0.310050626 BH	21	29	6	3	25
0.310050626 BH	22	27	5	4	24.5
0.310240352 BH	5	24	0	3	14.5
0.310298791 BH	96	154	41	10	125
0.310298791 BH	4	10	4	29	7
0.310298791 BH	7	40	1	4	23.5
0.310945695 BH	1	7	12	7	4
0.311059045 BH	2	21	14	30	11.5
0.311059045 BH	22	147	11	14	84.5
0.311059045 BH	56	65	16	10	60.5
0.311112288 BH	1	1	6	5	1
0.311155674 BH	2	444	22	18	223
0.311368336 BH	28	48	10	4	38
0.311368336 BH	26	86	15	5	56
0.311368336 BH	63	353	21	42	208
0.311640615 BH	4	0	16	5	2
0.312025123 BH	3	27	28	29	15
0.312314738 BH	2	1	12	3	1.5
0.312314738 BH	1	4	12	2	2.5
0.312356114 BH	1	5	16	2	3
0.312467192 BH	4	25	2	1	14.5
0.312481735 BH	29	120	20	5	74.5
0.312481735 BH	1	13	1	0	7
0.312481735 BH	1	13	1	0	7
0.312481735 BH	14	21	4	2	17.5
0.312481735 BH	11	64	8	3	37.5
0.312481735 BH	34	27	6	6	30.5
0.312633006 BH	1	1	7	4	1
0.312980373 BH	4	9	28	7	6.5
0.313239199 BH	6	65	6	3	35.5
0.313403535 BH	38	18	9	3	28
0.313403535 BH	30	64	13	5	47
0.313666837 BH	2	4	18	3	3
0.313666837 BH	2	4	4	15	3
0.313734011 BH	389	551	75	119	470
0.313734011 BH	11	40	7	1	25.5
0.313734011 BH	1	14	1	0	7.5
0.313734011 BH	1	13	0	1	7
0.313734011 BH	1	14	1	0	7.5
0.313734011 BH	1	13	0	1	7
0.313734011 BH	1	14	1	0	7.5
0.314272946 BH	140	255	54	29	197.5
0.31441196 BH	87	48	21	10	67.5

0.314635349 BH	22	93	15	4	57.5
0.314653288 BH	16	32	4	4	24
0.314653288 BH	3	7	17	7	5
0.314653288 BH	6	63	8	0	34.5
0.314653288 BH	3	196	10	10	99.5
0.315036567 BH	117	4	7	734	60.5
0.315568932 BH	11	21	4	1	16
0.315568932 BH	11	21	4	1	16
0.315568932 BH	3	5	16	6	4
0.315644113 BH	1	22	38	9	11.5
0.315644113 BH	3	34	2	2	18.5
0.315714618 BH	2	39	2	2	20.5
0.316181618 BH	0	3	6	5	1.5
0.316181618 BH	0	3	6	5	1.5
0.316184209 BH	56	5	10	3	30.5
0.316184209 BH	57	14	7	8	35.5
0.316455752 BH	5	20	25	24	12.5
0.316455752 BH	6	343	30	8	174.5
0.316455752 BH	39	266	23	24	152.5
0.316565545 BH	93	226	327	272	159.5
0.316787386 BH	301	978	53	157	639.5
0.316787386 BH	1	4	7	6	2.5
0.317483428 BH	19	80	12	4	49.5
0.317709886 BH	69	61	16	13	65
0.317709886 BH	2	25	1	1	13.5
0.317709886 BH	46	89	19	8	67.5
0.317709886 BH	0	3	7	4	1.5
0.317709886 BH	0	3	7	4	1.5
0.317709886 BH	5	10	2	0	7.5
0.317709886 BH	5	10	2	0	7.5
0.317709886 BH	0	3	5	6	1.5
0.31864712 BH	70	164	31	15	117
0.319332007 BH	92	154	40	12	123
0.319796074 BH	36	11	7	3	23.5
0.319796074 BH	25	34	9	2	29.5
0.32034365 BH	0	4	11	1	2
0.32034365 BH	6	9	2	0	7.5
0.320438838 BH	10	8	3	0	9
0.320739008 BH	14	90	10	6	52
0.320832663 BH	19	22	4	3	20.5
0.321296469 BH	10	162	6	14	86
0.321760989 BH	1	4	5	7	2.5
0.321760989 BH	5	17	1	1	11
0.322102565 BH	165	509	43	77	337
0.322359561 BH	35	22	10	2	28.5
0.322359561 BH	21	27	5	4	24
0.322402279 BH	18	61	8	5	39.5

0.322402279 BH	16	273	23	15	144.5
0.322885178 BH	2	16	44	2	9
0.323234395 BH	13	4	3	0	8.5
0.323344351 BH	6	18	31	18	12
0.323664997 BH	33	30	11	2	31.5
0.325081059 BH	17	14	5	0	15.5
0.325081059 BH	67	886	16	93	476.5
0.325081059 BH	24	78	16	2	51
0.325587047 BH	4	31	2	2	17.5
0.325744368 BH	34	48	9	7	41
0.325744368 BH	2	34	48	20	18
0.326015563 BH	58	408	24	45	233
0.326437027 BH	4	37	36	35	20.5
0.326437027 BH	9	18	2	2	13.5
0.326437027 BH	6	90	6	6	48
0.326437027 BH	0	7	7	9	3.5
0.326437027 BH	0	7	11	6	3.5
0.326437027 BH	173	246	60	34	209.5
0.326437027 BH	85	339	21	48	212
0.326437027 BH	74	3	14	1	38.5
0.326437027 BH	6	20	2	1	13
0.326437027 BH	7	18	1	2	12.5
0.326437027 BH	1	6	8	7	3.5
0.326480507 BH	1	4	17	0	2.5
0.326591615 BH	953	360	176	148	656.5
0.327835885 BH	32	97	133	104	64.5
0.327835885 BH	5	5	30	4	5
0.327835885 BH	63	8	10	6	35.5
0.327848227 BH	4	53	49	49	28.5
0.32813777 BH	31	30	10	3	30.5
0.328415743 BH	0	26	0	1	13
0.328539107 BH	187	96	43	26	141.5
0.328851699 BH	0	8	10	6	4
0.329057097 BH	19	22	7	0	20.5
0.329087877 BH	0	32	1	1	16
0.329187783 BH	20	25	6	2	22.5
0.329977682 BH	23	38	4	7	30.5
0.330041049 BH	25	150	81	220	87.5
0.330257981 BH	7	27	41	23	17
0.330665088 BH	26	11	4	3	18.5
0.330665088 BH	79	56	17	14	67.5
0.330665088 BH	0	25	2	0	12.5
0.330665088 BH	0	25	2	0	12.5
0.331138552 BH	2	2	10	3	2
0.331196387 BH	6	21	37	18	13.5
0.331196387 BH	57	3	5	7	30
0.331654223 BH	13	21	4	2	17

0.331654223 BH	10	27	4	2	18.5
0.332130986 BH	7	27	3	2	17
0.332176337 BH	459	829	1295	1188	644
0.332348061 BH	15	24	6	1	19.5
0.332427125 BH	126	276	39	43	201
0.332600258 BH	15	36	68	34	25.5
0.332819483 BH	65	59	17	11	62
0.332819483 BH	8	23	4	0	15.5
0.332819483 BH	72	603	62	45	337.5
0.333019897 BH	0	3	9	2	1.5
0.333019897 BH	5	34	38	32	19.5
0.333019897 BH	46	403	25	41	224.5
0.333019897 BH	2	0	9	5	1
0.333019897 BH	2	16	32	6	9
0.33408674 BH	29	14	6	3	21.5
0.334617309 BH	29	23	8	3	26
0.334617309 BH	2	23	3	0	12.5
0.334617309 BH	0	5	13	2	2.5
0.334719848 BH	347	245	36	92	296
0.335084112 BH	12	0	2	0	6
0.335084112 BH	2	16	2	0	9
0.335084112 BH	2	16	2	0	9
0.335084112 BH	2	18	0	1	10
0.335267797 BH	3	33	2	2	18
0.335430838 BH	0	5	8	5	2.5
0.335611639 BH	17	91	74	108	54
0.335888135	15	102	78	118	58.5
0.33634048 BH	124	124	39	19	124
0.33634048 BH	1	7	12	6	4
0.33641609 BH	11	96	7	8	53.5
0.337234895 BH	9	52	4	5	30.5
0.337234895 BH	68	116	304	95	92
0.337736058 BH	38	132	16	15	85
0.337801539 BH	64	220	241	250	142
0.338055285 BH	144	189	6	51	166.5
0.338503097 BH	39	92	11	14	65.5
0.339204197 BH	4	24	2	1	14
0.339204197 BH	55	49	17	7	52
0.339884833 BH	97	95	27	18	96
0.339884833 BH	10	41	1	6	25.5
0.339884833 BH	0	15	1	0	7.5
0.339884833 BH	0	15	1	0	7.5
0.339884833 BH	0	15	1	0	7.5
0.339884833 BH	0	15	1	0	7.5
0.339884833 BH	0	15	1	0	7.5
0.339884833 BH	7	32	4	2	19.5
0.339934611 BH	1	2	12	0	1.5

0.339934611 BH	13	25	6	0	19
0.339934611 BH	44	92	151	108	68
0.339934611 BH	1	4	11	2	2.5
0.339934611 BH	0	6	8	5	3
0.340222302 BH	3	10	21	8	6.5
0.341638135 BH	2	27	34	18	14.5
0.341638135 BH	0	15	0	1	7.5
0.341638135 BH	0	15	0	1	7.5
0.341638135 BH	0	15	0	1	7.5
0.341638135 BH	0	15	0	1	7.5
0.342811441 BH	0	6	5	7	3
0.342882191 BH	16	36	7	2	26
0.342956097 BH	16	34	5	4	25
0.342956097 BH	7	5	31	6	6
0.342956097 BH	10	31	6	0	20.5
0.3437088 BH	0	16	1	0	8
0.3437088 BH	0	16	1	0	8
0.3437088 BH	0	16	1	0	8
0.3437088 BH	60	130	300	90	95
0.3437088 BH	17	281	27	15	149
0.3437088 BH	3	1	11	5	2
0.344168064 BH	30	16	6	4	23
0.344795573 BH	16	182	6	19	99
0.345166352 BH	151	567	481	716	359
0.345379233 BH	3	8	1	0	5.5
0.345379233 BH	3	8	1	0	5.5
0.345379233 BH	18	52	10	3	35
0.345409781 BH	1	9	9	11	5
0.345670325 BH	65	28	15	8	46.5
0.345672222 BH	1	11	22	4	6
0.345722654 BH	3	33	1	3	18
0.345722654 BH	47	93	18	11	70
0.346105686 BH	0	7	14	3	3.5
0.34613227 BH	23	160	74	232	91.5
0.346173805 BH	2	10	23	5	6
0.346335811 BH	50	16	13	3	33
0.346701171 BH	4	29	2	2	16.5
0.346885764 BH	8	74	9	3	41
0.347119952 BH	2	23	1	1	12.5
0.347162934 BH	28	76	9	10	52
0.347872332 BH	2	22	30	16	12
0.347944552 BH	95	103	261	170	99
0.34801718 BH	6	31	4	1	18.5
0.348087214 BH	8	32	5	1	20
0.348529193 BH	16	39	7	3	27.5
0.349421315 BH	7	44	4	3	25.5
0.349485171 BH	14	9	2	2	11.5

0.349485171 BH	1	3	16	0	2
0.349485171 BH	1	3	16	0	2
0.349485171 BH	0	5	11	3	2.5
0.349485171 BH	0	6	4	8	3
0.349594117 BH	1	15	16	15	8
0.349594117 BH	22	69	12	5	45.5
0.349594117 BH	76	175	19	30	125.5
0.349964838 BH	72	164	40	9	118
0.349995458 BH	10	20	3	2	15
0.350241458 BH	2	10	0	1	6
0.350241458 BH	2	10	1	0	6
0.350241458 BH	2	10	1	0	6
0.350241458 BH	2	10	1	0	6
0.350274093 BH	2	54	34	60	28
0.350409085 BH	1	10	16	8	5.5
0.350409085 BH	0	31	3	0	15.5
0.350745289 BH	0	7	10	6	3.5
0.351069752 BH	3	21	23	19	12
0.35139818 BH	0	30	1	1	15
0.35139818 BH	0	30	1	1	15
0.35178776 BH	1	18	2	0	9.5
0.35178776 BH	0	4	10	1	2
0.35178776 BH	1	20	0	1	10.5
0.35178776 BH	1	20	0	1	10.5
0.351961962 BH	2	17	19	16	9.5
0.352092888 BH	4	72	5	5	38
0.352290502 BH	2	6	13	7	4
0.352601529 BH	19	14	3	3	16.5
0.352909155 BH	4	33	3	2	18.5
0.354320599 BH	8	15	2	1	11.5
0.354320599 BH	1	19	2	0	10
0.354320599 BH	2	5	16	3	3.5
0.354320599 BH	14	61	4	8	37.5
0.354472669 BH	46	99	23	7	72.5
0.354978917 BH	10	15	2	2	12.5
0.354978917 BH	2	4	12	6	3
0.354978917 BH	10	15	2	2	12.5
0.35498428 BH	0	24	0	1	12
0.35498428 BH	0	22	2	0	11
0.35498428 BH	0	24	0	1	12
0.35498428 BH	0	24	0	1	12
0.355276384 BH	5	44	6	0	24.5
0.355507721 BH	1	9	16	5	5
0.355507721 BH	4	34	3	2	19
0.355658346 BH	5	6	32	2	5.5
0.356150706 BH	28	49	6	9	38.5
0.356161345 BH	12	39	14	82	25.5

0.356161345 BH	8	14	1	2	11
0.356161345 BH	6	18	2	1	12
0.356161345 BH	9	13	2	1	11
0.356241456 BH	1	3	9	4	2
0.356241456 BH	1	4	8	4	2.5
0.356241773 BH	24	33	9	3	28.5
0.356241773 BH	28	65	12	6	46.5
0.356561842 BH	25	17	5	4	21
0.356561842 BH	16	128	7	14	72
0.356561842 BH	0	3	13	0	1.5
0.356561842 BH	0	3	13	0	1.5
0.356561842 BH	0	23	2	0	11.5
0.356778173 BH	20	21	5	3	20.5
0.356850284 BH	5	7	5	25	6
0.356850284 BH	27	110	12	12	68.5
0.356850284 BH	4	13	0	1	8.5
0.356850284 BH	4	12	0	1	8
0.356850284 BH	18	24	80	19	21
0.356850284 BH	38	63	12	9	50.5
0.356850284 BH	122	453	416	526	287.5
0.356926909 BH	10	16	41	17	13
0.356926909 BH	24	97	16	6	60.5
0.356926909 BH	11	6	36	12	8.5
0.356926909 BH	159	51	46	6	105
0.357494383 BH	1	5	10	5	3
0.357494383 BH	8	9	1	1	8.5
0.357494383 BH	1	11	1	0	6
0.357494383 BH	1	11	1	0	6
0.357494383 BH	1	11	1	0	6
0.357494383 BH	1	11	1	0	6
0.358460525 BH	3	19	20	19	11
0.358601363 BH	2	4	13	5	3
0.359039281 BH	17	200	12	19	108.5
0.359039281 BH	15	49	8	4	32
0.359039281 BH	2	14	16	13	8
0.359040629 BH	17	17	3	3	17
0.359040629 BH	0	5	12	2	2.5
0.359040629 BH	1	12	1	0	6.5
0.359040629 BH	1	11	0	1	6
0.359040629 BH	1	11	0	1	6
0.359040629 BH	1	12	1	0	6.5
0.359040629 BH	1	12	1	0	6.5
0.359209102 BH	4	416	11	31	210
0.359283431 BH	2	1	7	5	1.5
0.359728151 BH	0	44	2	2	22
0.360276367 BH	5	9	2	0	7
0.360276367 BH	53	37	16	5	45

0.360276367 BH	4	9	35	2	6.5
0.360276367 BH	36	53	13	6	44.5
0.360276367 BH	8	24	42	20	16
0.360276367 BH	9	16	1	3	12.5
0.360276367 BH	8	60	8	2	34
0.360276367 BH	6	63	33	78	34.5
0.360276367 BH	24	46	8	6	35
0.360276367 BH	31	56	10	8	43.5
0.360276367 BH	1	12	0	1	6.5
0.360276367 BH	1	12	0	1	6.5
0.360619325 BH	25	26	8	3	25.5
0.360809875 BH	5	0	16	6	2.5
0.360809875 BH	3	13	11	20	8
0.360871826 BH	3	12	10	18	7.5
0.360961471 BH	2	2	9	3	2
0.361072318 BH	2	6	19	3	4
0.361209213 BH	1	5	11	4	3
0.361405047 BH	2	18	13	21	10
0.361405047 BH	9	56	3	6	32.5
0.361419938 BH	3	14	0	1	8.5
0.361946907 BH	1	39	1	3	20
0.361946907 BH	15	45	4	6	30
0.362252169 BH	709	0	109	9	354.5
0.363284074 BH	56	29	17	4	42.5
0.363284074 BH	1	9	12	8	5
0.363284074 BH	5	30	3	2	17.5
0.363284074 BH	27	44	85	55	35.5
0.363657291 BH	9	31	49	24	20
0.363657291 BH	3	13	2	0	8
0.363657291 BH	4	22	2	1	13
0.364106969 BH	10	43	48	42	26.5
0.364309138 BH	5	38	21	50	21.5
0.364426145 BH	55	213	41	10	134
0.364426145 BH	29	47	81	66	38
0.364426145 BH	1404	1067	294	329	1235.5
0.364426145 BH	2	61	2	5	31.5
0.365083733 BH	2	5	14	4	3.5
0.365083733 BH	1	25	1	1	13
0.365099733 BH	2	12	29	3	7
0.365099733 BH	19	125	11	12	72
0.365099733 BH	22	80	10	9	51
0.365261009 BH	3	20	1	1	11.5
0.366442884 BH	23	49	10	4	36
0.366442884 BH	11	20	5	0	15.5
0.366641099 BH	3	7	23	2	5
0.367654136 BH	14	22	3	3	18
0.367816538 BH	38	265	25	26	151.5



0.368013135 BH	4	27	2	2	15.5
0.368235625 BH	32	26	11	2	29
0.368505506 BH	3	17	19	17	10
0.369234146 BH	16	7	4	0	11.5
0.370008711 BH	3	26	25	24	14.5
0.37077075 BH	4	45	3	3	24.5
0.371129757 BH	12	65	11	1	38.5
0.37128837 BH	13	10	3	1	11.5
0.37213869 BH	173	1296	130	123	734.5
0.372757516 BH	22	35	5	6	28.5
0.372944157 BH	76	61	25	9	68.5
0.37317512 BH	5	36	4	2	20.5
0.37317512 BH	1	3	15	0	2
0.37317512 BH	7	43	7	1	25
0.37317512 BH	2	15	2	0	8.5
0.37317512 BH	7	5	2	0	6
0.373467134 BH	0	5	5	7	2.5
0.373467134 BH	2	2	10	2	2
0.373467134 BH	0	6	7	5	3
0.373567532 BH	7	10	34	8	8.5
0.373567532 BH	10	18	3	2	14
0.373567532 BH	10	19	3	2	14.5
0.373567532 BH	9	21	3	2	15
0.373605249 BH	4	28	3	1	16
0.375068705 BH	1	8	16	5	4.5
0.375068705 BH	5	31	4	1	18
0.375782043 BH	29	55	13	5	42
0.375782043 BH	102	102	31	20	102
0.375782043 BH	8	9	3	0	8.5
0.375782043 BH	4	16	3	0	10
0.375782043 BH	4	16	3	0	10
0.37610691 BH	5	41	3	3	23
0.376279205 BH	22	2	4	1	12
0.376279205 BH	7	70	8	4	38.5
0.376279205 BH	9	69	52	70	39
0.376279205 BH	15	31	8	1	23
0.376279205 BH	67	126	27	16	96.5
0.376671881 BH	18	32	7	3	25
0.377871321 BH	8	47	8	1	27.5
0.37831289 BH	2	22	1	1	12
0.37831289 BH	2	22	1	1	12
0.37833579 BH	0	11	14	7	5.5
0.378892476 BH	21	36	4	7	28.5
0.37911424 BH	8	11	36	10	9.5
0.37911424 BH	17	16	6	1	16.5
0.379127468 BH	7	22	25	28	14.5
0.379363395 BH	7	29	4	2	18

0.379648249 BH	12	47	8	2	29.5
0.380204679 BH	8	17	2	2	12.5
0.380465552 BH	14	0	1	1	7
0.380522389 BH	26	63	10	8	44.5
0.380522389 BH	5	14	21	16	9.5
0.380522389 BH	0	5	10	3	2.5
0.380522389 BH	0	5	10	3	2.5
0.380966184 BH	37	99	8	18	68
0.381814805 BH	1	30	2	1	15.5
0.381814805 BH	109	32	21	16	70.5
0.381835844 BH	8	4	2	0	6
0.381935293 BH	14	7	2	2	10.5
0.382173674 BH	15	8	32	26	11.5
0.382173674 BH	8	13	0	3	10.5
0.382489875 BH	6	24	35	20	15
0.382722871 BH	34	699	7	75	366.5
0.382823179 BH	1	23	3	0	12
0.382823179 BH	1	24	0	2	12.5
0.382840312 BH	0	6	9	3	3
0.38406881 BH	38	635	85	16	336.5
0.384490095 BH	17	12	5	1	14.5
0.384653455 BH	221	156	46	51	188.5
0.384653455 BH	26	34	81	42	30
0.384653455 BH	2	3	14	2	2.5
0.384653455 BH	20	93	17	4	56.5
0.384653455 BH	27	19	7	4	23
0.384653455 BH	30	136	24	8	83
0.384653455 BH	6	31	4	2	18.5
0.384653455 BH	10	23	5	1	16.5
0.384653455 BH	6	32	4	2	19
0.384653455 BH	3	71	9	0	37
0.384653455 BH	9	15	3	1	12
0.384653455 BH	8	18	3	1	13
0.384653455 BH	9	15	3	1	12
0.384653455 BH	0	13	1	0	6.5
0.384653455 BH	0	13	1	0	6.5
0.384906651 BH	15	174	23	7	94.5
0.384983429 BH	1	17	17	15	9
0.384983429 BH	2	23	9	32	12.5
0.385109016 BH	16	8	2	3	12
0.385109016 BH	4	33	4	1	18.5
0.385306114 BH	34	80	18	7	57
0.385509202 BH	9	2	39	4	5.5
0.385509202 BH	1	31	0	3	16
0.385509202 BH	1	31	4	0	16
0.385509202 BH	3	0	5	9	1.5
0.385509202 BH	16	58	101	33	37

0.385509202 BH	6	0	20	5	3
0.385509202 BH	0	14	1	0	7
0.385509202 BH	0	13	0	1	6.5
0.385509202 BH	0	14	1	0	7
0.385509202 BH	0	13	0	1	6.5
0.385509202 BH	0	13	0	1	6.5
0.385509202 BH	0	14	1	0	7
0.385509202 BH	0	14	1	0	7
0.385859073 BH	257	690	59	130	473.5
0.385859073 BH	0	21	2	0	10.5
0.385859073 BH	0	22	0	1	11
0.386007013 BH	5	23	2	2	14
0.386007013 BH	5	23	2	2	14
0.386250914 BH	1	18	0	1	9.5
0.386250914 BH	1	18	0	1	9.5
0.386568033 BH	6	38	3	3	22
0.386568033 BH	239	787	735	882	513
0.386568033 BH	6	45	34	45	25.5
0.386568033 BH	10	30	57	19	20
0.386585872 BH	4	3	26	0	3.5
0.386585872 BH	0	14	0	1	7
0.386585872 BH	0	14	0	1	7
0.386585872 BH	0	14	0	1	7
0.386585872 BH	0	14	0	1	7
0.386585872 BH	0	14	0	1	7
0.387342287 BH	2	27	2	1	14.5
0.387383562 BH	60	47	166	80	53.5
0.387383562 BH	33	28	10	4	30.5
0.387383562 BH	34	107	126	106	70.5
0.387383562 BH	11	86	6	9	48.5
0.387591286 BH	5	29	3	2	17
0.387591286 BH	107	89	32	19	98
0.387591286 BH	0	3	10	1	1.5
0.387591286 BH	29	95	57	146	62
0.387690254 BH	1	84	6	4	42.5
0.388143463 BH	26	86	19	3	56
0.388864797 BH	8	12	1	2	10
0.388864797 BH	1	5	9	5	3
0.389961189 BH	129	174	331	245	151.5
0.390221863 BH	196	135	68	22	165.5
0.39060062 BH	72	91	24	16	81.5
0.390844097 BH	5	23	3	1	14
0.390844097 BH	5	14	1	1	9.5
0.390844097 BH	6	11	1	1	8.5
0.390844097 BH	5	14	1	1	9.5
0.390844097 BH	1	11	10	11	6
0.391073757 BH	12	58	6	6	35

0.391481662 BH	4	49	4	3	26.5
0.391481662 BH	5	19	1	2	12
0.392392292 BH	19	4	3	2	11.5
0.392411897 BH	31	79	18	5	55
0.392411897 BH	3	11	21	8	7
0.39310993 BH	7	68	9	3	37.5
0.39310993 BH	21	27	8	2	24
0.3931665 BH	7	10	1	1	8.5
0.3931665 BH	2	2	7	4	2
0.3931665 BH	20	88	92	78	54
0.39350758 BH	10	29	27	39	19.5
0.393964852 BH	4	21	2	1	12.5
0.393964852 BH	9	10	1	2	9.5
0.393964852 BH	70	255	255	251	162.5
0.393964852 BH	6	2	23	4	4
0.393964852 BH	46	66	14	12	56
0.395340457 BH	19	453	56	14	236
0.395472804 BH	16	29	4	5	22.5
0.396257329 BH	4	26	2	2	15
0.396257329 BH	4	3	6	12	3.5
0.396542327 BH	11	71	8	6	41
0.396697038 BH	11	20	4	2	15.5
0.397179748 BH	84	107	11	31	95.5
0.397179748 BH	7	3	43	0	5
0.397179748 BH	4	14	10	24	9
0.397179748 BH	3	17	28	9	10
0.397211039 BH	3	5	19	2	4
0.397211039 BH	9	152	18	7	80.5
0.398111325 BH	2	31	3	1	16.5
0.398387381 BH	27	44	112	32	35.5
0.398726087 BH	12	38	6	3	25
0.39918846 BH	21	4	5	0	12.5
0.39946852 BH	2	3	11	3	2.5
0.39946852 BH	35	43	125	40	39
0.400011011 BH	26	40	13	1	33
0.400136487 BH	33	60	11	9	46.5
0.40042802 BH	1	36	3	1	18.5
0.400648297 BH	3	17	1	1	10
0.400648297 BH	3	17	1	1	10
0.40094028 BH	15	5	3	1	10
0.401068582 BH	14	41	7	4	27.5
0.401068582 BH	93	795	52	95	444
0.401203122 BH	2	16	31	4	9
0.401777791 BH	3	7	21	2	5
0.401777791 BH	44	5	9	4	24.5
0.402687614 BH	3	7	15	6	5
0.402782489 BH	4	36	4	2	20

0.403280546 BH	3	2	19	1	2.5
0.403578976 BH	2	11	16	7	6.5
0.404292355 BH	6	31	39	21	18.5
0.404558638 BH	7	30	39	23	18.5
0.404558638 BH	4	11	0	1	7.5
0.404558638 BH	4	25	1	3	14.5
0.404558638 BH	55	235	44	15	145
0.404558638 BH	6	36	30	35	21
0.404558638 BH	3	22	2	1	12.5
0.404558638 BH	13	46	79	24	29.5
0.404988821 BH	13	35	7	2	24
0.404988821 BH	26	45	7	8	35.5
0.405853624 BH	23	158	101	167	90.5
0.405989302 BH	5	1	16	4	3
0.405989302 BH	136	1631	75	192	883.5
0.406119648 BH	23	136	160	86	79.5
0.406119648 BH	13	359	367	221	186
0.406119648 BH	547	0	96	8	273.5
0.406119648 BH	6	36	3	3	21
0.406746358 BH	2	10	21	4	6
0.407007021 BH	13	7	2	2	10
0.407511115 BH	17	158	13	16	87.5
0.407511115 BH	0	5	7	5	2.5
0.407511115 BH	9	6	1	1	7.5
0.407511115 BH	0	5	7	5	2.5
0.407511115 BH	0	5	7	5	2.5
0.407511115 BH	7	87	8	7	47
0.407695058 BH	12	6	0	3	9
0.407842625 BH	18	16	6	2	17
0.407842625 BH	10	63	56	55	36.5
0.40812533 BH	4	10	2	0	7
0.40812533 BH	5	8	2	0	6.5
0.408419507 BH	67	147	269	110	107
0.408419507 BH	2	9	1	0	5.5
0.408987312 BH	14	23	3	4	18.5
0.408987312 BH	22	31	9	3	26.5
0.408987312 BH	20	67	10	7	43.5
0.408987312 BH	3	0	7	7	1.5
0.408987312 BH	1	7	14	3	4
0.408987312 BH	109	0	21	0	54.5
0.408987312 BH	1	3	10	2	2
0.408987312 BH	1	3	10	2	2
0.408987312 BH	5	13	3	0	9
0.408987312 BH	1	4	10	2	2.5
0.408987312 BH	1	4	10	2	2.5
0.408987312 BH	9	27	35	27	18
0.409354069 BH	24	196	23	16	110

0.409354069 BH	3	11	2	0	7
0.409354069 BH	3	12	2	0	7.5
0.409354069 BH	3	11	2	0	7
0.409693446 BH	35	297	26	31	166
0.409754839 BH	1	10	12	9	5.5
0.410066986 BH	28	44	86	48	36
0.410066986 BH	6	24	2	3	15
0.410254557 BH	2	5	17	1	3.5
0.410539719 BH	73	250	41	29	161.5
0.410722023 BH	14	79	13	4	46.5
0.410759751 BH	30	86	14	11	58
0.410759751 BH	4	15	3	0	9.5
0.410759751 BH	0	6	7	4	3
0.410759751 BH	0	6	7	4	3
0.410759751 BH	0	6	6	5	3
0.410894234 BH	5	95	36	115	50
0.410963822 BH	33	5	9	0	19
0.411005399 BH	26	39	13	2	32.5
0.411167796 BH	6	69	9	3	37.5
0.411259947 BH	0	11	23	1	5.5
0.411500072 BH	27	45	11	6	36
0.411653991 BH	6	19	2	2	12.5
0.411653991 BH	6	20	2	2	13
0.412129462 BH	10	58	49	53	34
0.412130317 BH	6	40	6	2	23
0.412130317 BH	5	26	3	2	15.5
0.412889096 BH	2	20	1	1	11
0.412889096 BH	0	6	5	6	3
0.413099478 BH	15	88	5	12	51.5
0.413099478 BH	13	33	6	3	23
0.413099478 BH	85	190	38	27	137.5
0.413651045 BH	8	23	5	0	15.5
0.413651045 BH	9	21	5	0	15
0.413708777 BH	7	8	3	32	7.5
0.41413271 BH	12	21	5	2	16.5
0.414211375 BH	9	14	3	1	11.5
0.41450708 BH	22	56	12	5	39
0.41450708 BH	10	38	8	1	24
0.41450708 BH	39	136	123	145	87.5
0.41450708 BH	16	91	11	9	53.5
0.41450708 BH	1	6	12	2	3.5
0.41450708 BH	0	8	9	5	4
0.41450708 BH	2	15	12	17	8.5
0.41450708 BH	21	192	33	3	106.5
0.41450708 BH	4	1	13	4	2.5
0.41450708 BH	52	78	184	66	65
0.41450708 BH	111	357	33	62	234

0.41450708 BH	330	1119	88	201	724.5
0.41450708 BH	1	10	1	0	5.5
0.41450708 BH	1	10	1	0	5.5
0.41450708 BH	1	10	1	0	5.5
0.41450708 BH	1	10	1	0	5.5
0.41450708 BH	1	10	1	0	5.5
0.41450708 BH	1	10	1	0	5.5
0.41450708 BH	1	10	1	0	5.5
0.414517089 BH	5	18	24	16	11.5
0.414517089 BH	90	189	278	191	139.5
0.414821463 BH	15	19	6	2	17
0.414932188 BH	1	8	17	3	4.5
0.415160683 BH	7	43	5	3	25
0.415160683 BH	4	10	16	10	7
0.415160683 BH	5	21	2	2	13
0.415160683 BH	5	22	2	2	13.5
0.415160683 BH	2	15	0	1	8.5
0.415160683 BH	2	14	2	0	8
0.415160683 BH	2	13	2	0	7.5
0.415160683 BH	2	15	0	1	8.5
0.415360756 BH	6	30	5	1	18
0.415360756 BH	1	10	0	1	5.5
0.415360756 BH	1	10	0	1	5.5
0.415360756 BH	1	10	0	1	5.5
0.415360756 BH	1	10	0	1	5.5
0.415364842 BH	74	763	10	103	418.5
0.415996701 BH	3	45	6	1	24
0.416888635 BH	31	49	10	9	40
0.416888635 BH	55	117	25	16	86
0.417023109 BH	76	702	25	95	389
0.417092402 BH	2	12	10	14	7
0.41732249 BH	2	224	12	15	113
0.41732249 BH	8	15	1	3	11.5
0.417638923 BH	10	18	30	22	14
0.418256841 BH	8	88	10	6	48
0.418256841 BH	4	5	17	4	4.5
0.41854405 BH	11	74	60	64	42.5
0.418653682 BH	33	77	127	62	55
0.418653682 BH	121	405	67	50	263
0.418673678 BH	11	17	48	12	14
0.418673678 BH	3	49	4	3	26
0.419201605 BH	21	96	14	9	58.5
0.420014266 BH	1	12	5	17	6.5
0.420014266 BH	5	22	3	1	13.5
0.420014266 BH	16	17	6	2	16.5
0.420182758 BH	9	21	4	2	15
0.420429431 BH	30	90	17	9	60

0.420447485 BH	13	115	85	100	64
0.420567586 BH	7	33	3	3	20
0.420865528 BH	1	9	13	5	5
0.420866915 BH	27	6	4	4	16.5
0.420926455 BH	6	274	17	21	140
0.420940494 BH	3	19	13	22	11
0.421303996 BH	6	55	6	4	30.5
0.421330426 BH	5	17	2	1	11
0.421330426 BH	5	17	2	1	11
0.421330426 BH	1	5	7	6	3
0.421513358 BH	9	79	10	5	44
0.421710591 BH	18	36	6	5	27
0.42204806 BH	2	35	3	2	18.5
0.422175824 BH	3	3	12	4	3
0.422284276 BH	22	71	15	5	46.5
0.422284276 BH	163	99	50	25	131
0.422296184 BH	3	20	23	15	11.5
0.422502429 BH	490	455	185	81	472.5
0.422886429 BH	1	27	9	34	14
0.422886429 BH	14	55	9	4	34.5
0.423357177 BH	3	38	5	1	20.5
0.423522461 BH	21	66	4	12	43.5
0.42365404 BH	5	16	1	2	10.5
0.423941741 BH	13	47	9	3	30
0.424638432 BH	0	33	0	3	16.5
0.424980504 BH	15	41	8	4	28
0.425356593 BH	162	833	93	106	497.5
0.425610479 BH	17	15	6	2	16
0.425776345 BH	6	53	9	1	29.5
0.42589365 BH	25	47	77	48	36
0.42589365 BH	34	20	12	2	27
0.42589365 BH	16	114	79	108	65
0.42589365 BH	15	15	6	0	15
0.42589365 BH	8	38	5	3	23
0.42589365 BH	16	22	3	5	19
0.42589365 BH	1	6	9	4	3.5
0.42589365 BH	40	42	154	30	41
0.426824693 BH	73	141	31	21	107
0.427022567 BH	8	18	3	2	13
0.427022567 BH	33	41	11	7	37
0.427022567 BH	33	170	131	160	101.5
0.427022567 BH	18	63	60	64	40.5
0.427276381 BH	28	42	12	5	35
0.42792718 BH	13	53	62	40	33
0.428223082 BH	119	70	20	31	94.5
0.428223082 BH	4	40	32	33	22
0.428223082 BH	44	319	405	147	181.5



0.428223082 BH	5	59	3	6	32
0.428223082 BH	10	25	6	1	17.5
0.428223082 BH	8	90	48	92	49
0.428223082 BH	0	25	1	1	12.5
0.428223082 BH	2	19	3	0	10.5
0.428223082 BH	2	19	3	0	10.5
0.428310751 BH	11	33	8	1	22
0.42851875 BH	258	111	47	58	184.5
0.429082166 BH	8	11	37	7	9.5
0.429082166 BH	7	21	3	2	14
0.429082166 BH	7	21	3	2	14
0.429086662 BH	3	25	2	2	14
0.429205421 BH	4	50	3	5	27
0.430214805 BH	61	50	20	10	55.5
0.430285447 BH	18	48	12	2	33
0.430301545 BH	10	28	6	2	19
0.43034219 BH	9	9	1	2	9
0.43034219 BH	13	8	4	0	10.5
0.43034219 BH	1	17	0	1	9
0.43034219 BH	1	16	2	0	8.5
0.43034219 BH	1	17	0	1	9
0.43034219 BH	1	17	0	1	9
0.430658779 BH	7	46	5	4	26.5
0.431124371 BH	14	32	9	0	23
0.431124371 BH	14	88	10	9	51
0.431469097 BH	6	22	3	2	14
0.431469097 BH	5	18	31	10	11.5
0.431492315 BH	2	47	6	1	24.5
0.432112515 BH	1	117	6	8	59
0.432601001 BH	8	25	5	1	16.5
0.432601001 BH	5	12	1	1	8.5
0.432601001 BH	1	3	6	5	2
0.432601001 BH	15	4	3	1	9.5
0.432601001 BH	3	28	4	0	15.5
0.432601001 BH	9	309	39	8	159
0.432601001 BH	3	30	2	3	16.5
0.43267909 BH	5	41	3	4	23
0.43267909 BH	112	304	53	44	208
0.432686036 BH	6	194	6	20	100
0.433779461 BH	1	26	2	1	13.5
0.433779461 BH	1	7	13	3	4
0.433865309 BH	6	22	2	3	14
0.433998641 BH	28	53	10	9	40.5
0.434176933 BH	23	22	8	3	22.5
0.434732334 BH	6	266	25	14	136
0.434732334 BH	52	36	15	9	44
0.435171042 BH	7	26	5	1	16.5

0.435781259 BH	3	66	7	3	34.5
0.435905267 BH	211	83	39	46	147
0.436325285 BH	28	9	2	6	18.5
0.436368177 BH	1	27	2	1	14
0.436592442 BH	6	47	5	4	26.5
0.436782586 BH	5	17	17	18	11
0.436782586 BH	52	80	140	91	66
0.436782586 BH	1	3	8	3	2
0.436782586 BH	1	3	8	3	2
0.436782586 BH	0	11	0	1	5.5
0.436782586 BH	0	11	0	1	5.5
0.436782586 BH	0	11	0	1	5.5
0.436782586 BH	0	11	0	1	5.5
0.436782586 BH	0	11	0	1	5.5
0.43689174 BH	17	29	8	2	23
0.43809228 BH	23	233	37	10	128
0.438331491 BH	12	36	5	5	24
0.438331491 BH	25	67	13	8	46
0.438395096 BH	388	304	52	127	346
0.438395096 BH	0	12	0	1	6
0.438395096 BH	0	12	1	0	6
0.438395096 BH	0	12	1	0	6
0.438395096 BH	0	12	0	1	6
0.438395096 BH	9	26	5	2	17.5
0.438395096 BH	2	10	12	9	6
0.438585873 BH	39	139	31	8	89
0.438585873 BH	3	15	1	1	9
0.439200844 BH	3	31	27	24	17
0.4398216 BH	616	2048	145	398	1332
0.441116819 BH	2	4	9	6	3
0.441116819 BH	6	17	2	2	11.5
0.441116819 BH	59	150	29	21	104.5
0.441116819 BH	3	26	1	3	14.5
0.441116819 BH	3	16	1	1	9.5
0.441116819 BH	2	1	7	4	1.5
0.441116819 BH	0	58	2	4	29
0.44133529 BH	35	47	10	10	41
0.441787556 BH	2	6	20	1	4
0.443720699 BH	56	254	47	20	155
0.444154708 BH	9	35	5	3	22
0.444154708 BH	3	3	14	2	3
0.444154708 BH	18	6	4	2	12
0.444154708 BH	3	36	5	1	19.5
0.444154708 BH	6	4	16	8	5
0.444325278 BH	8	57	9	3	32.5
0.445540761 BH	24	88	73	91	56
0.446056009 BH	6	31	28	26	18.5

0.446056009 BH	5	18	24	14	11.5
0.446056009 BH	14	19	7	0	16.5
0.446056009 BH	29	71	87	69	50
0.446056009 BH	6	11	17	14	8.5
0.446056009 BH	15	9	4	2	12
0.446056009 BH	1	22	0	2	11.5
0.446056009 BH	1	21	3	0	11
0.446056009 BH	10	3	3	0	6.5
0.44631469 BH	10	48	9	2	29
0.446383196 BH	36	78	14	13	57
0.446383196 BH	174	674	31	129	424
0.446711597 BH	7	12	4	0	9.5
0.446823498 BH	113	39	39	5	76
0.447286758 BH	3	13	9	18	8
0.447632739 BH	18	46	8	6	32
0.447632739 BH	1	21	19	15	11
0.447989007 BH	1	31	1	3	16
0.44801482 BH	392	1139	160	194	765.5
0.44801482 BH	0	5	6	5	2.5
0.44801482 BH	1	4	9	2	2.5
0.448137519 BH	30	111	26	5	70.5
0.448660429 BH	55	43	14	13	49
0.448660429 BH	21	32	10	3	26.5
0.448660429 BH	2	23	2	1	12.5
0.448660429 BH	0	7	9	4	3.5
0.448660429 BH	2	22	1	2	12
0.448660429 BH	0	8	6	6	4
0.448660429 BH	0	8	6	6	4
0.448907734 BH	0	12	8	12	6
0.449019082 BH	26	82	13	11	54
0.449319822 BH	5	36	6	1	20.5
0.449319822 BH	1	54	0	6	27.5
0.449692125 BH	23	42	11	4	32.5
0.449692125 BH	2	17	1	1	9.5
0.449692125 BH	2	17	1	1	9.5
0.449692125 BH	0	5	7	4	2.5
0.449784489 BH	42	87	136	76	64.5
0.450218551 BH	3	54	8	1	28.5
0.450395672 BH	25	51	73	50	38
0.450395672 BH	28	46	114	26	37
0.450395672 BH	6	17	1	3	11.5
0.450395672 BH	2	5	5	9	3.5
0.450395672 BH	15	17	7	0	16
0.450605264 BH	8	9	4	0	8.5
0.451051344 BH	3	176	4	18	89.5
0.451051344 BH	18	27	7	4	22.5
0.451706195 BH	2	18	1	1	10

0.451706195 BH	6	9	3	0	7.5
0.451706195 BH	2	18	1	1	10
0.452039801 BH	23	76	67	78	49.5
0.452039801 BH	3	7	7	11	5
0.452411767 BH	18	0	100	0	9
0.452521076 BH	47	29	14	8	38
0.452521076 BH	108	55	6	34	81.5
0.452640845 BH	10	10	3	1	10
0.452640845 BH	1	7	6	8	4
0.452640845 BH	10	26	6	2	18
0.452640845 BH	12	22	6	2	17
0.452640845 BH	11	25	6	2	18
0.452640845 BH	76	49	27	10	62.5
0.452752394 BH	12	91	13	6	51.5
0.453492103 BH	3	15	0	2	9
0.453492103 BH	0	5	8	3	2.5
0.453492103 BH	0	5	8	3	2.5
0.454022142 BH	5	32	36	20	18.5
0.454033538 BH	15	18	7	1	16.5
0.454296695 BH	16	72	9	9	44
0.454333875 BH	6	26	4	2	16
0.454766259 BH	54	60	21	10	57
0.455059411 BH	8	46	6	4	27
0.455385891 BH	3	3	2	12	3
0.455712274 BH	2	50	3	4	26
0.455712274 BH	6	17	41	5	11.5
0.456405551 BH	33	109	17	15	71
0.457452566 BH	6	40	4	4	23
0.457452566 BH	3	58	2	6	30.5
0.457452566 BH	11	28	4	4	19.5
0.457452566 BH	26	44	55	62	35
0.457452566 BH	79	94	124	179	86.5
0.457699968 BH	0	8	4	8	4
0.457699968 BH	1	7	5	9	4
0.457699968 BH	1	7	11	4	4
0.457771483 BH	0	30	19	27	15
0.457771483 BH	3	11	0	1	7
0.457771483 BH	3	11	0	1	7
0.457962936 BH	31	113	25	8	72
0.457962936 BH	6	49	9	0	27.5
0.459203452 BH	6	0	19	3	3
0.459384597 BH	30	133	23	12	81.5
0.459384597 BH	128	96	42	24	112
0.459384597 BH	4	6	11	9	5
0.459384597 BH	11	21	3	3	16
0.459384597 BH	4	8	2	0	6
0.459384597 BH	3	9	2	0	6

0.459384597 BH	3	20	0	3	11.5
0.459384597 BH	3	20	4	0	11.5
0.459384597 BH	3	20	4	0	11.5
0.459384597 BH	7	30	6	1	18.5
0.459384597 BH	14	15	6	1	14.5
0.45974407 BH	14	49	8	5	31.5
0.45974407 BH	18	31	8	4	24.5
0.459986202 BH	100	84	42	12	92
0.459986202 BH	9	15	3	2	12
0.459986202 BH	46	67	150	55	56.5
0.459986202 BH	192	141	422	251	166.5
0.460263825 BH	5	10	21	7	7.5
0.460481207 BH	30	34	15	2	32
0.460481207 BH	5	16	2	1	10.5
0.460481207 BH	6	13	1	2	9.5
0.460855823 BH	1	26	4	0	13.5
0.460855823 BH	3	10	2	0	6.5
0.460855823 BH	8	42	9	0	25
0.460855823 BH	2	36	5	0	19
0.461158319 BH	196	121	42	51	158.5
0.461158319 BH	11	20	5	2	15.5
0.461158319 BH	51	97	14	22	74
0.461158319 BH	0	18	2	0	9
0.461158319 BH	15	27	34	36	21
0.461158319 BH	3	7	15	4	5
0.461685221 BH	9	32	4	4	20.5
0.461685221 BH	11	13	49	5	12
0.461685221 BH	3	23	30	10	13
0.461816697 BH	10	40	6	4	25
0.462646382 BH	2	12	0	1	7
0.462796696 BH	8	32	2	5	20
0.462796696 BH	13	47	4	8	30
0.463016172 BH	4	29	38	13	16.5
0.463523992 BH	0	5	9	2	2.5
0.463523992 BH	2	17	0	2	9.5
0.463794536 BH	2	10	10	10	6
0.46384803 BH	7	5	34	1	6
0.46384803 BH	6	63	33	60	34.5
0.46384803 BH	46	41	18	7	43.5
0.464172173 BH	2	11	2	0	6.5
0.464172173 BH	2	13	0	1	7.5
0.464172173 BH	2	11	2	0	6.5
0.464172173 BH	2	13	0	1	7.5
0.464172173 BH	12	67	10	6	39.5
0.464172173 BH	12	15	26	25	13.5
0.46421824 BH	4	17	2	1	10.5
0.46421824 BH	4	18	2	1	11

0.464390302 BH	44	98	23	12	71
0.464449669 BH	16	35	9	3	25.5
0.464561539 BH	2	16	15	12	9
0.464561539 BH	2	16	17	10	9
0.464561539 BH	31	112	93	110	71.5
0.464561539 BH	72	147	31	25	109.5
0.464561539 BH	0	6	9	2	3
0.464561539 BH	1	19	1	1	10
0.464561539 BH	5	12	14	16	8.5
0.464561539 BH	0	8	3	9	4
0.464561539 BH	1	25	2	1	13
0.465338955 BH	2	12	2	0	7
0.465338955 BH	2	12	2	0	7
0.465338955 BH	2	8	16	4	5
0.465338955 BH	28	381	19	48	204.5
0.466347115 BH	10	31	6	2	20.5
0.466347115 BH	42	27	16	4	34.5
0.467068348 BH	1	20	1	1	10.5
0.467330607 BH	1	16	25	4	8.5
0.467330607 BH	47	35	14	9	41
0.467330607 BH	24	46	13	4	35
0.467792556 BH	39	107	22	13	73
0.468613392 BH	0	14	12	10	7
0.468936428 BH	1	13	7	13	7
0.468936428 BH	21	90	62	91	55.5
0.469176664 BH	49	52	15	13	50.5
0.469913614 BH	212	435	100	70	323.5
0.470092117 BH	2	21	4	0	11.5
0.471723809 BH	13	20	4	3	16.5
0.471840932 BH	3	19	2	1	11
0.47221543 BH	19	52	12	4	35.5
0.47221543 BH	105	629	121	37	367
0.472240569 BH	2	6	13	4	4
0.472565222 BH	0	28	1	2	14
0.472976925 BH	16	19	8	1	17.5
0.473363576 BH	11	1	3	0	6
0.473363576 BH	11	1	3	0	6
0.473952388 BH	2	25	2	2	13.5
0.47411604 BH	33	55	5	15	44
0.474376207 BH	3	19	1	2	11
0.474690174 BH	4	7	15	8	5.5
0.474690174 BH	15	35	8	4	25
0.474690174 BH	12	50	77	20	31
0.474690174 BH	18	95	18	6	56.5
0.474789661 BH	4	25	3	2	14.5
0.474789661 BH	1	8	12	5	4.5
0.475608921 BH	242	882	117	142	562

0.475608921 BH	9	0	2	29	4.5
0.475608921 BH	81	58	26	16	69.5
0.475996898 BH	11	87	24	111	49
0.476031796 BH	19	44	3	10	31.5
0.476158295 BH	9	18	4	2	13.5
0.476779119 BH	8	9	25	11	8.5
0.476779119 BH	16	39	10	3	27.5
0.476779119 BH	4	21	31	8	12.5
0.477360224 BH	11	23	6	2	17
0.477360224 BH	23	29	11	3	26
0.477360224 BH	11	20	6	1	15.5
0.477547495 BH	86	265	240	253	175.5
0.477824048 BH	2	4	7	7	3
0.477824048 BH	35	767	513	551	401
0.477824048 BH	0	13	14	6	6.5
0.477824048 BH	1	9	16	2	5
0.477824048 BH	1	14	0	1	7.5
0.477824048 BH	1	14	0	1	7.5
0.477824048 BH	1	14	0	1	7.5
0.477824048 BH	1	14	0	1	7.5
0.477824048 BH	1	14	0	1	7.5
0.478259596 BH	11	15	4	2	13
0.478259596 BH	11	15	4	2	13
0.478947394 BH	6	34	56	9	20
0.478947394 BH	15	40	7	5	27.5
0.479081221 BH	7	16	25	13	11.5
0.480141667 BH	7	56	9	3	31.5
0.480141667 BH	1	14	2	0	7.5
0.480421405 BH	0	17	9	14	8.5
0.4813685 BH	6	24	4	2	15
0.4813685 BH	6	24	4	2	15
0.4813685 BH	10	117	14	9	63.5
0.4813685 BH	3	37	0	5	20
0.4813685 BH	1	21	22	11	11
0.4813685 BH	21	663	277	632	342
0.481725877 BH	29	9	8	3	19
0.481755644 BH	9	11	30	10	10
0.482120699 BH	5	10	1	1	7.5
0.482120699 BH	0	24	0	2	12
0.482325913 BH	10	52	9	4	31
0.482325913 BH	6	17	3	1	11.5
0.482325913 BH	11	28	56	12	19.5
0.482982098 BH	1	18	3	0	9.5
0.482982098 BH	43	115	28	11	79
0.482982098 BH	0	7	6	6	3.5
0.482982098 BH	1	5	11	2	3
0.483046445 BH	2	25	1	3	13.5

0.483220465 BH	6	126	15	8	66
0.483403713 BH	0	39	3	2	19.5
0.483403713 BH	17	64	14	4	40.5
0.483796155 BH	19	158	25	11	88.5
0.483847204 BH	4	12	1	1	8
0.483847204 BH	4	13	1	1	8.5
0.48456481 BH	3	27	3	2	15
0.484613943 BH	153	137	361	184	145
0.484804654 BH	1	13	12	8	7
0.484804654 BH	46	31	16	7	38.5
0.484804654 BH	1	19	3	0	10
0.484804654 BH	1	19	3	0	10
0.484804654 BH	95	398	58	55	246.5
0.484804654 BH	2	21	1	2	11.5
0.484804654 BH	5	14	4	0	9.5
0.484808337 BH	9	40	6	4	24.5
0.485178279 BH	13	95	123	35	54
0.48560491 BH	17	40	8	5	28.5
0.486975895 BH	51	67	13	18	59
0.486975895 BH	3	27	2	3	15
0.486975895 BH	9	11	3	1	10
0.486995489 BH	4	24	10	29	14
0.487408452 BH	239	100	96	12	169.5
0.487839034 BH	1	17	18	10	9
0.488026498 BH	18	503	48	39	260.5
0.488287446 BH	3	14	1	1	8.5
0.489527742 BH	3	47	4	4	25
0.489850224 BH	21	80	7	14	50.5
0.489850224 BH	9	21	5	2	15
0.489850224 BH	9	21	5	2	15
0.489922968 BH	8	22	17	29	15
0.490155318 BH	6	4	20	4	5
0.490642455 BH	20	58	11	7	39
0.491011418 BH	18	84	11	11	51
0.491513245 BH	110	101	22	37	105.5
0.491726259 BH	4	3	20	0	3.5
0.492474347 BH	18	28	41	34	23
0.492474347 BH	11	75	14	3	43
0.492915309 BH	6	0	26	0	3
0.492915309 BH	8	8	4	0	8
0.493036129 BH	11	18	6	0	14.5
0.4930704 BH	113	90	43	20	101.5
0.4930704 BH	7	6	1	1	6.5
0.493112938 BH	28	58	12	9	43
0.493112938 BH	15	23	5	4	19
0.493112938 BH	14	25	6	3	19.5
0.493545094 BH	3	27	29	15	15



0.493615547 BH	7	32	2	5	19.5
0.493790773 BH	17	155	15	18	86
0.494084386 BH	238	189	280	494	213.5
0.494084386 BH	18	163	87	142	90.5
0.494084386 BH	8	32	3	5	20
0.494084386 BH	25	164	12	25	94.5
0.494084386 BH	6	30	20	30	18
0.495420685 BH	2	6	10	6	4
0.495614441 BH	27	46	11	8	36.5
0.496909205 BH	2	38	33	23	20
0.497614919 BH	10	75	9	7	42.5
0.497614919 BH	2	16	1	1	9
0.497614919 BH	2	16	1	1	9
0.497614919 BH	5	10	0	2	7.5
0.497614919 BH	2	16	1	1	9
0.498037531 BH	18	24	8	3	21
0.498094875 BH	10	59	8	6	34.5
0.498134459 BH	13	36	39	34	24.5
0.498134459 BH	7	17	2	3	12
0.498810802 BH	4	35	23	28	19.5
0.498988207 BH	21	12	5	4	16.5
0.499454021 BH	3	13	17	9	8
0.49970545 BH	1	14	13	9	7.5
0.499731449 BH	25	109	81	97	67
0.499826087 BH	5	9	3	0	7
0.500126728 BH	3	22	3	1	12.5
0.50017545 BH	41	51	110	51	46
0.500450911 BH	6	61	68	25	33.5
0.500958452 BH	5	21	3	2	13
0.501456335 BH	33	71	10	15	52
0.501456335 BH	24	90	13	13	57
0.501633604 BH	30	132	21	16	81
0.502043239 BH	932	0	202	20	466
0.502601271 BH	490	313	166	95	401.5
0.502742238 BH	15	50	8	7	32.5
0.503107862 BH	3	6	16	3	4.5
0.503639255 BH	0	10	11	6	5
0.503657689 BH	28	84	81	77	56
0.503657689 BH	48	84	11	22	66
0.503657689 BH	5	21	2	3	13
0.503831701 BH	180	300	93	45	240
0.504021319 BH	41	114	120	99	77.5
0.504021319 BH	0	49	6	0	24.5
0.504361041 BH	3	13	3	0	8
0.504469237 BH	16	83	66	63	49.5
0.504883656 BH	6	43	7	2	24.5
0.504883656 BH	15	26	37	28	20.5

0.505529808 BH	32	37	15	5	34.5
0.506220994 BH	11	12	5	0	11.5
0.506584034 BH	0	9	3	11	4.5
0.506904465 BH	0	13	7	11	6.5
0.506904465 BH	0	28	2	1	14
0.506904465 BH	0	28	2	1	14
0.507260638 BH	361	1380	121	267	870.5
0.507375463 BH	6	38	8	1	22
0.507375463 BH	0	7	11	2	3.5
0.507375463 BH	0	7	11	2	3.5
0.507375463 BH	7	50	3	7	28.5
0.507375463 BH	33	85	14	15	59
0.507375463 BH	9	197	8	24	103
0.507554277 BH	81	169	29	36	125
0.507764917 BH	5	14	2	1	9.5
0.508202102 BH	7	24	29	18	15.5
0.508559681 BH	18	20	6	4	19
0.508559681 BH	7	6	0	2	6.5
0.508559681 BH	4	24	3	2	14
0.509013083 BH	260	307	119	55	283.5
0.509013083 BH	3	3	17	0	3
0.509013083 BH	0	11	1	0	5.5
0.509013083 BH	0	11	1	0	5.5
0.509013083 BH	0	11	1	0	5.5
0.509013083 BH	0	11	1	0	5.5
0.509203273 BH	0	8	10	2	4
0.509948142 BH	4	15	2	1	9.5
0.51002292 BH	9	17	4	2	13
0.51002292 BH	2	20	23	10	11
0.51002292 BH	18	53	13	4	35.5
0.51002292 BH	3	10	16	6	6.5
0.51002292 BH	7	6	3	0	6.5
0.51002292 BH	0	15	2	0	7.5
0.51002292 BH	0	15	2	0	7.5
0.51002292 BH	0	15	2	0	7.5
0.51002292 BH	7	15	23	14	11
0.51002292 BH	2	15	17	9	8.5
0.51002292 BH	0	37	2	3	18.5
0.51002292 BH	6	16	24	11	11
0.510605655 BH	22	90	64	85	56
0.510938758 BH	15	6	15	30	10.5
0.51111033 BH	14	43	46	36	28.5
0.511191146 BH	12	16	6	1	14
0.511191146 BH	23	65	9	12	44
0.51159949 BH	7	0	26	2	3.5
0.513047484 BH	5	16	25	9	10.5
0.513177222 BH	9	137	13	14	73

0.513990091 BH	21	195	14	27	108
0.514264879 BH	53	176	165	144	114.5
0.51465862 BH	22	108	19	10	65
0.51465862 BH	2	15	3	0	8.5
0.51465862 BH	2	15	3	0	8.5
0.51465862 BH	1	18	1	1	9.5
0.514782649 BH	35	59	17	9	47
0.515091837 BH	2	8	12	6	5
0.515143622 BH	130	2117	104	281	1123.5
0.515476995 BH	1	98	51	82	49.5
0.515476995 BH	14	8	5	1	11
0.515730133 BH	4	23	4	1	13.5
0.515786852 BH	8	15	23	15	11.5
0.515792595 BH	36	67	125	42	51.5
0.51658663 BH	3	18	2	1	10.5
0.516625251 BH	8	41	7	3	24.5
0.516625251 BH	9	3	23	7	6
0.516625251 BH	68	7	37	162	37.5
0.516625251 BH	1	7	13	2	4
0.517343682 BH	29	148	20	20	88.5
0.517523944 BH	12	18	7	0	15
0.517523944 BH	5	24	4	2	14.5
0.518635319 BH	10	4	4	0	7
0.518869205 BH	20	55	11	7	37.5
0.518869205 BH	3	17	1	2	10
0.518869205 BH	3	17	1	2	10
0.518902427 BH	3	8	12	7	5.5
0.518902427 BH	8	23	3	3	15.5
0.518939787 BH	4	4	19	1	4
0.51912774 BH	2	24	1	3	13
0.520542672 BH	9	17	5	1	13
0.520823005 BH	28	22	8	7	25
0.520853072 BH	2	8	17	2	5
0.520853072 BH	47	57	23	8	52
0.520853072 BH	6	15	2	2	10.5
0.520853072 BH	6	15	2	2	10.5
0.520853072 BH	6	15	2	2	10.5
0.520853072 BH	0	22	0	2	11
0.520853072 BH	0	22	0	2	11
0.520853072 BH	0	22	0	2	11
0.520853072 BH	43	70	17	14	56.5
0.520853072 BH	8	39	1	7	23.5
0.521438122 BH	2	162	7	16	82
0.52143932 BH	3	13	22	5	8
0.522682026 BH	68	58	27	13	63
0.523110711 BH	13	28	6	4	20.5
0.523432939 BH	10	17	6	0	13.5

0.524253069 BH	14	51	51	37	32.5
0.524707073 BH	23	71	20	4	47
0.524882543 BH	308	687	121	147	497.5
0.526385813 BH	26	66	8	14	46
0.526458236 BH	0	14	8	12	7
0.526633029 BH	33	143	123	104	88
0.526687593 BH	16	22	6	4	19
0.526769862 BH	22	54	8	10	38
0.527404441 BH	4	38	7	1	21
0.527404441 BH	1	14	19	4	7.5
0.527925961 BH	13	14	3	3	13.5
0.52798756 BH	56	60	18	16	58
0.52798756 BH	35	1	4	6	18
0.528662443 BH	2	53	6	3	27.5
0.528810501 BH	8	51	9	4	29.5
0.528949987 BH	1	10	12	6	5.5
0.529777104 BH	16	41	8	6	28.5
0.530010431 BH	9	0	31	2	4.5
0.530012613 BH	67	87	30	16	77
0.530012613 BH	19	25	9	3	22
0.530012613 BH	20	23	4	7	21.5
0.530273511 BH	1	14	10	11	7.5
0.530473821 BH	9	18	20	22	13.5
0.530473821 BH	524	1296	253	240	910
0.530473821 BH	1	17	0	2	9
0.530672037 BH	30	184	131	136	107
0.530920117 BH	2	19	1	2	10.5
0.530920117 BH	2	19	1	2	10.5
0.530920117 BH	20	21	73	10	20.5
0.531331879 BH	1	11	11	6	6
0.531379526 BH	30	168	86	160	99
0.531482777 BH	91	80	23	29	85.5
0.531760098 BH	4	23	23	15	13.5
0.531990292 BH	19	29	58	22	24
0.531990292 BH	24	84	13	13	54
0.531990292 BH	15	55	11	6	35
0.531990292 BH	9	24	3	4	16.5
0.531990292 BH	5	37	4	4	21
0.532054075 BH	1	18	0	2	9.5
0.532054075 BH	1	18	0	2	9.5
0.532202914 BH	4	37	3	4	20.5
0.532202914 BH	2	10	2	0	6
0.532202914 BH	2	10	2	0	6
0.532202914 BH	19	36	39	43	27.5
0.532202914 BH	0	26	0	3	13
0.532347727 BH	0	7	8	4	3.5
0.532400957 BH	43	133	128	108	88

0.532444871 BH	5	12	19	10	8.5
0.532444871 BH	38	7	10	4	22.5
0.532444871 BH	92	1863	48	263	977.5
0.532444871 BH	25	41	14	4	33
0.532444871 BH	5	16	1	3	10.5
0.532444871 BH	1	10	13	5	5.5
0.532444871 BH	5	26	5	1	15.5
0.532444871 BH	2	28	3	2	15
0.532444871 BH	2	27	3	2	14.5
0.532469492 BH	296	487	585	564	391.5
0.532472263 BH	74	528	309	418	301
0.532596744 BH	59	107	32	15	83
0.532889777 BH	11	28	39	20	19.5
0.533361731 BH	13	17	3	4	15
0.533361731 BH	71	107	20	29	89
0.533361731 BH	2	25	14	20	13.5
0.533753931 BH	0	8	6	5	4
0.534076109 BH	21	52	17	2	36.5
0.534295411 BH	7	15	3	2	11
0.534295411 BH	6	17	3	2	11.5
0.534420585 BH	31	8	38	50	19.5
0.535077739 BH	3	101	16	0	52
0.535559592 BH	12	29	28	32	20.5
0.536007084 BH	3	0	9	3	1.5
0.536007084 BH	0	8	5	6	4
0.536007084 BH	7	8	4	0	7.5
0.536007084 BH	3	0	4	7	1.5
0.536007084 BH	2	11	13	8	6.5
0.536392191 BH	3	51	5	5	27
0.53644258 BH	8	22	36	11	15
0.536542388 BH	10	18	6	1	14
0.536636205 BH	2	6	7	8	4
0.536636205 BH	9	12	3	2	10.5
0.536649676 BH	3	20	2	2	11.5
0.537302013 BH	5	18	25	10	11.5
0.537346158 BH	16	25	8	3	20.5
0.537346158 BH	40	36	18	5	38
0.537424595 BH	0	13	13	5	6.5
0.537424595 BH	3	7	18	1	5
0.537500592 BH	22	44	13	5	33
0.538231038 BH	13	0	4	0	6.5
0.538731733 BH	3	31	28	17	17
0.538731733 BH	75	332	147	359	203.5
0.538852129 BH	8	30	4	4	19
0.538941657 BH	1	7	10	3	4
0.538941657 BH	1	7	10	3	4
0.539320203 BH	45	102	143	70	73.5

0.539363977 BH	5	22	5	0	13.5
0.539363977 BH	0	11	9	6	5.5
0.539752196 BH	3	20	13	18	11.5
0.539752196 BH	3	17	0	3	10
0.539752196 BH	3	16	0	3	9.5
0.539752196 BH	3	17	4	0	10
0.539752196 BH	3	16	0	3	9.5
0.539752196 BH	3	16	4	0	9.5
0.539752196 BH	1	11	2	0	6
0.539752196 BH	1	11	2	0	6
0.540128766 BH	1	46	6	2	23.5
0.540405066 BH	2	12	14	7	7
0.540405066 BH	4	11	1	1	7.5
0.540405066 BH	4	11	1	1	7.5
0.540405066 BH	4	11	1	1	7.5
0.540405066 BH	5	20	2	3	12.5
0.540405066 BH	7	17	4	1	12
0.540405066 BH	7	16	4	1	11.5
0.540405066 BH	3	39	4	3	21
0.540405066 BH	227	530	600	440	378.5
0.540577375 BH	274	467	162	62	370.5
0.540753691 BH	2	111	15	4	56.5
0.540942874 BH	13	2	2	2	7.5
0.541235205 BH	10	53	8	6	31.5
0.541626118 BH	0	25	1	2	12.5
0.542300777 BH	12	25	4	5	18.5
0.542300777 BH	4	17	20	10	10.5
0.542300777 BH	9	2	3	0	5.5
0.542300777 BH	5	8	1	1	6.5
0.542300777 BH	0	21	16	13	10.5
0.54236506 BH	76	81	25	23	78.5
0.543532269 BH	0	11	11	5	5.5
0.54356428 BH	2	17	15	11	9.5
0.543719685 BH	1	21	2	1	11
0.543719685 BH	1	21	2	1	11
0.544101686 BH	4	27	33	11	15.5
0.544325645 BH	152	171	50	50	161.5
0.544325645 BH	221	1032	243	72	626.5
0.544325645 BH	3	12	1	1	7.5
0.544325645 BH	6	7	1	1	6.5
0.544500737 BH	79	128	226	96	103.5
0.544500737 BH	19	20	8	3	19.5
0.544947398 BH	3	61	8	4	32
0.545178455 BH	4	22	2	3	13
0.545713712 BH	3	38	6	2	20.5
0.545818756 BH	1	22	2	1	11.5
0.545818756 BH	1	21	1	2	11

0.54587493 BH	12	53	10	5	32.5
0.546294405 BH	6	6	1	1	6
0.546294405 BH	0	20	1	1	10
0.546294405 BH	0	20	1	1	10
0.546294405 BH	0	20	1	1	10
0.546351122 BH	6	21	4	2	13.5
0.54694802 BH	29	30	78	28	29.5
0.54694802 BH	7	14	4	0	10.5
0.54694802 BH	2	22	2	2	12
0.547585216 BH	67	285	40	46	176
0.547585216 BH	2	28	17	21	15
0.547709681 BH	4	8	17	4	6
0.547745831 BH	0	24	12	18	12
0.547745831 BH	0	11	12	4	5.5
0.547745831 BH	4	40	42	16	22
0.547745831 BH	6	8	16	10	7
0.547745831 BH	6	9	12	13	7.5
0.547829544 BH	33	69	16	12	51
0.547829544 BH	2	8	16	2	5
0.547851617 BH	0	21	1	1	10.5
0.548124582 BH	8	36	33	26	22
0.54822974 BH	5	33	21	26	19
0.548630587 BH	42	31	99	39	36.5
0.548630587 BH	33	206	117	167	119.5
0.548630587 BH	2	23	2	2	12.5
0.548630587 BH	17	44	44	40	30.5
0.54871052 BH	11	139	9	19	75
0.549149403 BH	3	5	12	3	4
0.549322003 BH	11	36	9	2	23.5
0.549404204 BH	23	19	48	27	21
0.549614215 BH	3	8	11	7	5.5
0.54966733 BH	79	105	86	191	92
0.549999538 BH	5	12	18	10	8.5
0.549999538 BH	80	148	50	18	114
0.549999538 BH	15	23	7	3	19
0.550476985 BH	33	22	13	5	27.5
0.550476985 BH	2	8	6	10	5
0.550476985 BH	4	13	23	5	8.5
0.550511972 BH	20	77	59	64	48.5
0.550832904 BH	7	65	8	7	36
0.550832904 BH	25	44	13	6	34.5
0.550832904 BH	4	17	27	5	10.5
0.550832904 BH	3	24	3	2	13.5
0.550832904 BH	4	22	4	1	13
0.550832904 BH	7	5	1	1	6
0.550832904 BH	2	14	1	1	8
0.55083359 BH	177	241	212	407	209

0.551010939 BH	4	1	14	1	2.5
0.551421976 BH	7	35	6	3	21
0.551541725 BH	3	34	3	3	18.5
0.551541725 BH	13	93	14	9	53
0.552359925 BH	4	34	37	14	19
0.552359925 BH	8	17	5	1	12.5
0.552359925 BH	8	17	5	1	12.5
0.552359925 BH	3	33	16	28	18
0.552359925 BH	11	5	3	1	8
0.552546887 BH	2	17	20	7	9.5
0.553202946 BH	3	24	2	3	13.5
0.553280913 BH	3	6	21	0	4.5
0.553280913 BH	19	85	11	13	52
0.55368452 BH	1	30	2	3	15.5
0.553775188 BH	69	203	291	92	136
0.553927037 BH	4	6	7	10	5
0.553955164 BH	5	14	15	14	9.5
0.554062763 BH	0	16	6	15	8
0.554403463 BH	10	6	36	2	8
0.554403463 BH	1	35	5	1	18
0.554403463 BH	4	20	4	0	12
0.554403463 BH	0	9	8	5	4.5
0.554403463 BH	16	71	8	12	43.5
0.554403463 BH	9	15	5	1	12
0.555215487 BH	4	3	4	10	3.5
0.555215487 BH	4	2	11	4	3
0.555664745 BH	88	43	29	16	65.5
0.556148754 BH	9	23	4	3	16
0.556427313 BH	6	26	3	3	16
0.556666359 BH	6	23	6	0	14.5
0.556666359 BH	19	19	9	2	19
0.557363725 BH	6	21	5	1	13.5
0.557363725 BH	35	100	27	10	67.5
0.557730677 BH	29	66	18	8	47.5
0.557854149 BH	4	22	21	14	13
0.557854149 BH	100	112	39	29	106
0.557971452 BH	4	13	24	4	8.5
0.558096656 BH	0	44	6	0	22
0.558619341 BH	4	14	2	1	9
0.558619341 BH	3	11	3	0	7
0.558619341 BH	3	12	3	0	7.5
0.558793662 BH	11	52	8	7	31.5
0.558793662 BH	2	10	12	6	6
0.559277521 BH	2	15	10	13	8.5
0.559451195 BH	36	109	121	71	72.5
0.559454632 BH	22	83	13	13	52.5
0.559454632 BH	10	91	14	8	50.5



0.559454632 BH	11	89	16	6	50
0.559768154 BH	17	129	88	85	73
0.559923581 BH	24	81	98	43	52.5
0.560031953 BH	57	136	155	108	96.5
0.560498356 BH	23	25	10	4	24
0.561634207 BH	12	12	5	2	12
0.561759926 BH	53	158	47	11	105.5
0.562064115 BH	595	444	764	985	519.5
0.562342324 BH	9	152	114	78	80.5
0.562578434 BH	13	34	9	3	23.5
0.562578434 BH	25	42	11	8	33.5
0.562589766 BH	2	25	3	2	13.5
0.562589766 BH	18	34	8	6	26
0.562589766 BH	6	6	3	0	6
0.562589766 BH	2	21	19	11	11.5
0.562589766 BH	3	15	2	1	9
0.562589766 BH	3	16	2	1	9.5
0.562610033 BH	29	21	11	5	25
0.563092751 BH	4	47	6	4	25.5
0.563701462 BH	2	4	13	1	3
0.563731953 BH	8	24	6	2	16
0.563731953 BH	5	27	5	2	16
0.564323807 BH	14	16	8	0	15
0.564323807 BH	1	11	11	5	6
0.564323807 BH	1	16	1	1	8.5
0.564323807 BH	2	5	7	5	3.5
0.564323807 BH	29	28	13	5	28.5
0.564323807 BH	13	18	4	4	15.5
0.564323807 BH	3	15	1	2	9
0.564323807 BH	3	15	1	2	9
0.564323807 BH	0	13	2	0	6.5
0.564323807 BH	0	13	2	0	6.5
0.564323807 BH	0	13	2	0	6.5
0.564323807 BH	0	13	2	0	6.5
0.564732076 BH	2	25	13	19	13.5
0.564732076 BH	6	41	6	4	23.5
0.565044521 BH	58	24	17	11	41
0.565384692 BH	44	29	18	7	36.5
0.565384692 BH	4	6	15	4	5
0.565384692 BH	9	23	2	5	16
0.565384692 BH	2	12	9	10	7
0.565384692 BH	2	14	3	0	8
0.565384692 BH	2	13	3	0	7.5
0.565384692 BH	1	17	1	1	9
0.565867164 BH	26	77	22	6	51.5
0.565867164 BH	3	16	1	2	9.5
0.565867164 BH	109	227	44	52	168

0.565867164 BH	7	17	5	0	12
0.56635227 BH	11	44	6	7	27.5
0.56635227 BH	6	25	34	10	15.5
0.566580917 BH	8	54	19	56	31
0.566580917 BH	12	178	32	7	95
0.566580917 BH	3	33	24	20	18
0.566580917 BH	1	21	4	0	11
0.566580917 BH	42	52	125	34	47
0.567037484 BH	19	35	10	5	27
0.567269278 BH	0	14	2	0	7
0.567269278 BH	0	14	2	0	7
0.567269278 BH	4	16	2	2	10
0.567269278 BH	3	3	6	6	3
0.567269278 BH	5	15	3	1	10
0.567269278 BH	5	15	3	1	10
0.567765411 BH	5	11	16	9	8
0.568318196 BH	8	32	37	16	20
0.569403609 BH	11	33	41	21	22
0.569403609 BH	6	62	9	5	34
0.569771066 BH	8	18	24	15	13
0.569896987 BH	0	13	14	4	6.5
0.570019285 BH	4	17	2	2	10.5
0.570161796 BH	13	14	6	2	13.5
0.570278291 BH	14	0	2	2	7
0.570336322 BH	1	11	13	4	6
0.570520118 BH	7	220	11	28	113.5
0.570575931 BH	18	129	73	96	73.5
0.570649853 BH	10	31	6	4	20.5
0.570931863 BH	2	29	29	12	15.5
0.571330592 BH	1	24	1	3	12.5
0.571330592 BH	1	21	15	13	11
0.571330592 BH	8	32	6	3	20
0.57169099 BH	2	17	2	1	9.5
0.57169099 BH	2	18	2	1	10
0.57169099 BH	2	18	2	1	10
0.57169099 BH	1	25	17	15	13
0.571736412 BH	321	876	168	168	598.5
0.572304907 BH	2	6	8	6	4
0.572347474 BH	0	11	7	7	5.5
0.572347474 BH	14	31	6	5	22.5
0.572347474 BH	22	32	7	8	27
0.572616828 BH	6	68	14	1	37
0.573623757 BH	11	118	20	8	64.5
0.573623757 BH	9	96	51	69	52.5
0.573714632 BH	2	17	1	2	9.5
0.573714632 BH	2	18	1	2	10
0.573714632 BH	2	17	1	2	9.5

0.574034336 BH	3	18	2	2	10.5
0.574590591 BH	7	14	2	3	10.5
0.574590591 BH	1	13	12	6	7
0.574590591 BH	8	88	14	6	48
0.574685212 BH	6	29	2	5	17.5
0.574685212 BH	0	11	19	0	5.5
0.574685212 BH	8	17	32	8	12.5
0.574685212 BH	5	20	25	10	12.5
0.574731336 BH	17	7	7	0	12
0.574731336 BH	76	297	63	37	186.5
0.57563524 BH	8	34	5	5	21
0.576068482 BH	3	19	2	2	11
0.576068482 BH	9	7	2	2	8
0.576068482 BH	3	22	33	4	12.5
0.576068482 BH	7	33	4	5	20
0.576068482 BH	20	78	69	54	49
0.576068482 BH	98	409	69	63	253.5
0.576265524 BH	30	95	24	10	62.5
0.576265524 BH	8	11	2	3	9.5
0.576265524 BH	1562	295	281	389	928.5
0.576417134 BH	1	12	14	5	6.5
0.576943291 BH	7	9	23	5	8
0.576955711 BH	29	108	24	12	68.5
0.577458665 BH	5	10	4	0	7.5
0.577458665 BH	5	11	4	0	8
0.57816358 BH	1	15	3	0	8
0.57816358 BH	1	15	3	0	8
0.57816358 BH	1	15	3	0	8
0.57816358 BH	3	12	17	5	7.5
0.57816358 BH	16	127	13	18	71.5
0.578465361 BH	4	20	3	2	12
0.578465361 BH	7	15	4	1	11
0.578465361 BH	6	67	6	8	36.5
0.578465361 BH	28	254	47	18	141
0.578465361 BH	0	24	1	2	12
0.578502223 BH	7	17	4	2	12
0.578702216 BH	12	14	24	18	13
0.579452958 BH	4	64	8	5	34
0.579997143 BH	1	16	3	0	8.5
0.579997143 BH	8	8	1	3	8
0.580428187 BH	16	18	7	3	17
0.580428187 BH	7	36	6	4	21.5
0.580645861 BH	3	57	4	7	30
0.580645861 BH	9	9	2	3	9
0.580645861 BH	8	13	4	1	10.5
0.580645861 BH	2	6	15	1	4
0.580645861 BH	6	20	4	2	13

0.580645861 BH	6	20	4	2	13
0.580645861 BH	3	6	6	9	4.5
0.580645861 BH	3	7	6	9	5
0.580645861 BH	2	30	4	2	16
0.580645861 BH	2	30	4	2	16
0.580975762 BH	2	25	23	10	13.5
0.581006437 BH	87	132	46	24	109.5
0.582743781 BH	8	75	9	9	41.5
0.582980349 BH	9	56	8	7	32.5
0.583139352 BH	2	9	10	5	5.5
0.583139352 BH	4	11	19	5	7.5
0.583139352 BH	12	52	27	49	32
0.583139352 BH	3	14	4	0	8.5
0.583139352 BH	3	14	4	0	8.5
0.583139352 BH	62	68	29	14	65
0.583142886 BH	3	31	2	4	17
0.58315766 BH	0	9	2	10	4.5
0.58315766 BH	28	35	8	10	31.5
0.58315766 BH	24	80	11	15	52
0.583524789 BH	9	21	4	3	15
0.583524789 BH	6	78	7	10	42
0.583524789 BH	2	20	21	9	11
0.584511927 BH	43	88	23	16	65.5
0.584635749 BH	62	98	181	60	80
0.584767089 BH	1	9	9	5	5
0.584883615 BH	146	311	253	339	228.5
0.585457187 BH	4	26	23	14	15
0.585854993 BH	106	241	186	257	173.5
0.585854993 BH	2	21	2	2	11.5
0.585854993 BH	2	21	2	2	11.5
0.585854993 BH	2	20	2	2	11
0.585854993 BH	2	20	2	2	11
0.585854993 BH	3	10	18	3	6.5
0.585915597 BH	3	10	9	9	6.5
0.586155374 BH	7	20	5	2	13.5
0.586293153 BH	3	1	12	0	2
0.586293153 BH	3	22	3	2	12.5
0.586293153 BH	2	6	12	3	4
0.586293153 BH	1	19	2	1	10
0.586293153 BH	1	19	2	1	10
0.586293153 BH	1	19	2	1	10
0.586293153 BH	1	19	2	1	10
0.586293153 BH	1	20	2	1	10.5
0.586293153 BH	1	19	2	1	10
0.586355832 BH	21	39	8	9	30
0.58639126 BH	20	49	11	8	34.5
0.586448161 BH	5	15	22	7	10

0.586448161 BH	16	28	34	29	22
0.586688754 BH	577	885	1120	919	731
0.587286748 BH	38	103	23	17	70.5
0.587485562 BH	15	49	9	7	32
0.587502672 BH	4	32	2	5	18
0.587502672 BH	7	25	4	3	16
0.587502672 BH	7	26	4	3	16.5
0.587517465 BH	6	22	5	2	14
0.587517465 BH	6	22	5	2	14
0.588068022 BH	1	19	1	2	10
0.588106416 BH	3	21	2	3	12
0.588241542 BH	1	24	19	13	12.5
0.588373159 BH	1	28	4	1	14.5
0.588815613 BH	6	19	5	1	12.5
0.588815613 BH	7	426	90	415	216.5
0.589165519 BH	2	21	3	1	11.5
0.589449043 BH	9	44	5	7	26.5
0.589449043 BH	0	22	21	7	11
0.589834088 BH	9	66	13	4	37.5
0.589970737 BH	0	7	9	2	3.5
0.589970737 BH	0	7	9	2	3.5
0.589970737 BH	8	71	10	7	39.5
0.590431679 BH	20	99	22	9	59.5
0.590984193 BH	6	39	35	20	22.5
0.59153675 BH	3	12	10	10	7.5
0.59153675 BH	2	41	3	5	21.5
0.59157644 BH	2	34	3	3	18
0.59157644 BH	2	34	3	3	18
0.591601567 BH	7	33	33	18	20
0.591601567 BH	0	18	1	1	9
0.591601567 BH	0	18	1	1	9
0.591601567 BH	26	31	14	4	28.5
0.591601567 BH	11	24	6	3	17.5
0.591601567 BH	2	17	4	0	9.5
0.591601567 BH	2	17	4	0	9.5
0.591601567 BH	2	16	4	0	9
0.59337722 BH	277	371	621	334	324
0.59337722 BH	2	21	1	3	11.5
0.59337722 BH	2	4	2	10	3
0.59337722 BH	6	14	31	3	10
0.593393844 BH	10	102	34	91	56
0.593393844 BH	167	332	278	369	249.5
0.593393844 BH	4	9	15	6	6.5
0.593393844 BH	7	28	5	3	17.5
0.593393844 BH	11	172	30	176	91.5
0.593991595 BH	45	122	17	28	83.5
0.594451791 BH	4	18	23	8	11

0.594451791 BH	3	23	4	1	13
0.594451791 BH	3	23	4	1	13
0.594788974 BH	2	5	14	0	3.5
0.594788974 BH	5	0	3	11	2.5
0.595310247 BH	1	7	2	9	4
0.595461272 BH	2	8	13	3	5
0.595479482 BH	8	51	29	39	29.5
0.595479482 BH	7	28	25	19	17.5
0.595479482 BH	7	24	17	23	15.5
0.595479482 BH	127	46	58	6	86.5
0.59551276 BH	47	206	60	3	126.5
0.595664533 BH	87	103	155	125	95
0.595860467 BH	25	63	16	9	44
0.59619577 BH	0	9	15	0	4.5
0.596295755 BH	26	100	69	80	63
0.596295755 BH	9	17	6	1	13
0.596295755 BH	12	14	6	2	13
0.596295755 BH	2	12	13	6	7
0.596295755 BH	14	33	37	26	23.5
0.596617593 BH	28	33	12	7	30.5
0.59685222 BH	0	9	8	4	4.5
0.596930975 BH	14	34	30	33	24
0.597145574 BH	2	9	13	3	5.5
0.597331764 BH	4	33	34	12	18.5
0.597599482 BH	4	58	36	34	31
0.597599482 BH	11	16	7	0	13.5
0.597599482 BH	112	110	25	47	111
0.597599482 BH	2	13	10	10	7.5
0.597599482 BH	2	13	13	8	7.5
0.598648625 BH	48	117	70	135	82.5
0.598648625 BH	10	26	7	2	18
0.598648625 BH	12	13	6	2	12.5
0.599544893 BH	13	79	11	11	46
0.599556032 BH	4	23	5	1	13.5
0.599678987 BH	6	0	13	4	3
0.599728912 BH	2	31	25	15	16.5
0.599801719 BH	2	9	2	0	5.5
0.600112735 BH	308	982	220	152	645
0.600127419 BH	14	30	9	4	22
0.600127419 BH	12	35	9	4	23.5
0.600169738 BH	5	8	16	5	6.5
0.601019912 BH	10	37	5	6	23.5
0.601019912 BH	4	17	16	11	10.5
0.601019912 BH	1	22	2	2	11.5
0.601158385 BH	4	11	7	14	7.5
0.601335386 BH	16	46	9	7	31
0.601376563 BH	19	33	13	3	26

0.601376563 BH	36	224	129	160	130
0.601376563 BH	1	11	12	4	6
0.601376563 BH	23	14	6	6	18.5
0.601937214 BH	6	36	20	28	21
0.602061296 BH	9	46	23	40	27.5
0.602061296 BH	12	13	7	0	12.5
0.602061296 BH	81	124	53	15	102.5
0.602061296 BH	2	13	20	3	7.5
0.602061296 BH	7	15	5	0	11
0.602061296 BH	312	153	113	64	232.5
0.602061296 BH	5	7	1	1	6
0.602061296 BH	3	10	1	1	6.5
0.603064185 BH	13	66	12	8	39.5
0.603832671 BH	60	86	31	17	73
0.603981869 BH	11	31	40	16	21
0.604190039 BH	1	29	18	16	15
0.604190039 BH	16	32	12	2	24
0.604190039 BH	3	11	1	1	7
0.604190039 BH	3	11	1	1	7
0.604242527 BH	197	129	240	295	163
0.604896554 BH	5	33	5	3	19
0.604912866 BH	1	23	3	1	12
0.605338602 BH	120	213	368	113	166.5
0.605392375 BH	5	18	30	4	11.5
0.605533208 BH	9	21	7	1	15
0.605533208 BH	3	42	5	4	22.5
0.605617485 BH	9	28	27	20	18.5
0.605617485 BH	12	8	5	1	10
0.605617485 BH	0	18	0	2	9
0.605617485 BH	0	17	3	0	8.5
0.605617485 BH	0	17	3	0	8.5
0.606536111 BH	0	14	14	5	7
0.606620437 BH	43	1270	172	98	656.5
0.606621011 BH	11	47	8	7	29
0.606621011 BH	5	21	21	13	13
0.606632078 BH	1	24	3	1	12.5
0.606632078 BH	1	19	0	3	10
0.607379738 BH	1	10	2	0	5.5
0.607602943 BH	0	19	0	2	9.5
0.607602943 BH	13	40	37	30	26.5
0.607602943 BH	398	1029	142	260	713.5
0.607735846 BH	3	26	5	1	14.5
0.608369153 BH	10	30	18	33	20
0.608417056 BH	184	126	74	41	155
0.608663058 BH	5	10	2	1	7.5
0.608663058 BH	4	12	2	1	8
0.608663058 BH	5	10	2	1	7.5

0.608663058 BH	6	9	2	1	7.5
0.608663058 BH	25	27	9	7	26
0.608831913 BH	6	5	1	1	5.5
0.608831913 BH	2	13	1	1	7.5
0.608831913 BH	2	13	1	1	7.5
0.608831913 BH	2	13	1	1	7.5
0.608831913 BH	2	13	1	1	7.5
0.609009895 BH	149	1758	323	125	953.5
0.609037544 BH	7	28	22	21	17.5
0.609313039 BH	13	55	8	9	34
0.609352867 BH	30	64	63	59	47
0.609352867 BH	1	11	13	3	6
0.609688551 BH	2	4	7	5	3
0.609819088 BH	17	40	12	4	28.5
0.610103715 BH	4	11	1	2	7.5
0.610103715 BH	5	10	1	2	7.5
0.610158209 BH	6	37	7	3	21.5
0.610566439 BH	66	228	134	207	147
0.610923196 BH	18	88	18	10	53
0.610948937 BH	10	8	18	12	9
0.610948937 BH	9	11	29	6	10
0.610948937 BH	4	34	5	3	19
0.611167323 BH	4	36	18	27	20
0.611167323 BH	3	34	1	6	18.5
0.61149369 BH	2	5	7	4	3.5
0.61149369 BH	2	5	7	4	3.5
0.611651424 BH	20	10	8	2	15
0.611651424 BH	18	73	15	9	45.5
0.611651424 BH	3	14	2	1	8.5
0.611651424 BH	5	76	14	3	40.5
0.611651424 BH	5	9	19	4	7
0.611676822 BH	33	133	80	110	83
0.612285476 BH	7	39	8	3	23
0.612285476 BH	6	40	7	4	23
0.613012711 BH	7	13	3	2	10
0.613012711 BH	6	14	3	2	10
0.61341381 BH	6	12	3	1	9
0.61341381 BH	4	15	2	2	9.5
0.613560572 BH	3	13	1	2	8
0.613560572 BH	3	14	1	2	8.5
0.614346714 BH	35	78	20	14	56.5
0.614346714 BH	258	238	76	96	248
0.61468007 BH	10	110	76	56	60
0.615218767 BH	27	57	19	7	42
0.615300146 BH	3	58	7	5	30.5
0.615300146 BH	3	10	3	0	6.5
0.615300146 BH	3	10	3	0	6.5



0.615300146 BH	3	9	3	0	6
0.615300146 BH	4	7	3	0	5.5
0.615300146 BH	4	8	3	0	6
0.615300146 BH	4	7	3	0	5.5
0.615395242 BH	8	13	4	2	10.5
0.615395242 BH	8	13	4	2	10.5
0.6155285 BH	1	14	14	5	7.5
0.6155285 BH	1	14	14	5	7.5
0.615815061 BH	336	516	155	130	426
0.615815061 BH	1	25	2	3	13
0.61589994 BH	120	199	205	215	159.5
0.616062702 BH	26	58	12	12	42
0.616062702 BH	184	310	110	55	247
0.616062702 BH	10	23	5	4	16.5
0.616062702 BH	16	30	8	5	23
0.616062702 BH	8	21	4	3	14.5
0.616062702 BH	5	39	7	3	22
0.616062702 BH	2	7	5	7	4.5
0.616062702 BH	3	5	5	7	4
0.616062702 BH	4	15	3	1	9.5
0.616062702 BH	1	7	7	4	4
0.616062702 BH	2	4	4	7	3
0.616062702 BH	1	6	8	4	3.5
0.616062702 BH	7	29	17	27	18
0.616062702 BH	11	25	6	4	18
0.616181145 BH	79	140	44	27	109.5
0.616181145 BH	1	16	19	3	8.5
0.616207649 BH	9	15	18	16	12
0.617379158 BH	12	75	18	4	43.5
0.617379158 BH	48	56	23	12	52
0.617379158 BH	75	151	156	133	113
0.617379158 BH	11	15	4	3	13
0.617379158 BH	4	19	3	2	11.5
0.617379158 BH	6	14	4	1	10
0.617379158 BH	6	14	4	1	10
0.617379158 BH	4	19	3	2	11.5
0.617379158 BH	7	13	4	1	10
0.617379158 BH	2	6	10	4	4
0.617379158 BH	3	17	2	2	10
0.617379158 BH	11	88	6	16	49.5
0.617379158 BH	36	27	26	73	31.5
0.617379158 BH	9	2	23	4	5.5
0.617379158 BH	5	42	7	4	23.5
0.617379158 BH	41	66	22	12	53.5
0.617379158 BH	2	28	5	1	15
0.617379158 BH	1	15	15	6	8
0.617379158 BH	412	1772	283	312	1092

0.617379158 BH	6	26	36	8	16
0.617379158 BH	7	26	4	4	16.5
0.617379158 BH	3	11	13	7	7
0.617379158 BH	5	7	13	7	6
0.617379158 BH	7	26	4	4	16.5
0.617379158 BH	12	16	5	3	14
0.617379158 BH	4	42	10	40	23
0.617379158 BH	1	14	1	1	7.5
0.617379158 BH	1	14	1	1	7.5
0.617379158 BH	2	12	0	2	7
0.617379158 BH	2	11	3	0	6.5
0.617379158 BH	9	44	11	3	26.5
0.617379158 BH	34	46	5	18	40
0.617567408 BH	2	16	2	1	9
0.617567408 BH	2	15	1	2	8.5
0.617567408 BH	5	16	4	1	10.5
0.617567408 BH	7	12	4	1	9.5
0.617567408 BH	4	18	2	3	11
0.617567408 BH	4	18	2	3	11
0.617567408 BH	1	6	4	7	3.5
0.617735485 BH	15	28	5	7	21.5
0.617788499 BH	24	51	16	7	37.5
0.618464799 BH	0	13	7	8	6.5
0.618464799 BH	0	10	17	0	5
0.618579893 BH	1	15	1	1	8
0.618579893 BH	47	129	39	14	88
0.618579893 BH	1	26	4	1	13.5
0.61885087 BH	31	269	127	190	150
0.61885087 BH	19	33	6	9	26
0.61885087 BH	16	40	11	5	28
0.61885087 BH	1	20	31	0	10.5
0.61885087 BH	2	16	1	2	9
0.61885087 BH	190	223	102	45	206.5
0.61885087 BH	24	157	96	100	90.5
0.61885087 BH	3	18	3	1	10.5
0.61885087 BH	41	60	94	49	50.5
0.61885087 BH	2	7	10	3	4.5
0.61885087 BH	1	9	8	5	5
0.619324524 BH	7	29	4	5	18
0.61960975 BH	10	39	7	5	24.5
0.619693053 BH	143	117	55	40	130
0.619709598 BH	11	11	6	0	11
0.619709598 BH	5	4	8	8	4.5
0.620200061 BH	194	220	235	344	207
0.620200061 BH	8	43	41	21	25.5
0.62121587 BH	3	20	3	2	11.5
0.62121587 BH	2	6	11	3	4

0.62121587 BH	17	31	13	1	24
0.621513565 BH	2	46	5	5	24
0.621555023 BH	12	30	9	3	21
0.621555023 BH	4	17	11	14	10.5
0.621701809 BH	10	25	7	2	17.5
0.621935714 BH	4	22	4	2	13
0.621935714 BH	6	18	5	1	12
0.621960886 BH	11	11	5	2	11
0.622090061 BH	14	44	41	29	29
0.623117109 BH	42	60	77	63	51
0.623117109 BH	1	9	9	4	5
0.623117109 BH	9	9	4	1	9
0.623117109 BH	3	21	3	2	12
0.623117109 BH	246	468	330	557	357
0.623117109 BH	2	30	15	20	16
0.623126727 BH	33	100	109	54	66.5
0.623652029 BH	4	20	26	6	12
0.623687389 BH	6	24	6	2	15
0.62370891 BH	25	142	70	110	83.5
0.623949851 BH	89	65	41	17	77
0.623949851 BH	8	4	1	2	6
0.623954601 BH	11	12	2	4	11.5
0.623967496 BH	26	151	68	121	88.5
0.62404691 BH	9	39	9	4	24
0.62404691 BH	13	14	28	14	13.5
0.62521289 BH	54	200	37	35	127
0.62521289 BH	2	5	13	0	3.5
0.62521289 BH	11	47	6	8	29
0.62521289 BH	0	12	2	0	6
0.62521289 BH	0	12	2	0	6
0.62521289 BH	0	12	2	0	6
0.62521289 BH	0	12	2	0	6
0.62521289 BH	0	12	2	0	6
0.625293539 BH	1	26	15	16	13.5
0.625293539 BH	11	25	27	20	18
0.625549983 BH	1	11	7	7	6
0.625549983 BH	6	1	14	4	3.5
0.625549983 BH	6	31	4	5	18.5
0.625847067 BH	40	193	93	161	116.5
0.626334981 BH	8	43	6	6	25.5
0.626648589 BH	10	0	33	0	5
0.626855422 BH	344	197	97	108	270.5
0.626855422 BH	5	30	4	4	17.5
0.627550097 BH	3	42	9	1	22.5
0.627550097 BH	20	98	53	77	59
0.627550097 BH	10	31	3	7	20.5
0.627660839 BH	3	10	15	4	6.5

0.627660839 BH	1	13	3	0	7
0.627660839 BH	1	13	3	0	7
0.627855438 BH	31	291	55	25	161
0.627855438 BH	2	20	3	1	11
0.627855438 BH	2	19	3	1	10.5
0.62824246 BH	79	204	41	44	141.5
0.62824246 BH	27	14	9	6	20.5
0.62824246 BH	1	8	11	3	4.5
0.62824246 BH	1	8	4	9	4.5
0.628448523 BH	22	128	27	13	75
0.628458907 BH	66	550	48	95	308
0.62882569 BH	48	61	25	13	54.5
0.62911254 BH	60	23	155	19	41.5
0.62911254 BH	1	15	0	2	8
0.629204704 BH	111	351	168	353	231
0.629204704 BH	3	24	4	2	13.5
0.629204704 BH	1	10	11	4	5.5
0.629204704 BH	20	37	41	35	28.5
0.629368691 BH	9	50	10	5	29.5
0.629368691 BH	1	12	9	7	6.5
0.629368691 BH	6	22	6	1	14
0.629394453 BH	85	115	43	26	100
0.629588153 BH	33	49	8	17	41
0.630006823 BH	14	16	46	6	15
0.630006823 BH	7	81	9	10	44
0.630006823 BH	1	18	2	1	9.5
0.630006823 BH	8	51	37	29	29.5
0.630564467 BH	2	17	14	9	9.5
0.631806104 BH	12	8	5	2	10
0.631806104 BH	11	12	6	1	11.5
0.631806104 BH	20	44	13	6	32
0.632299697 BH	2	23	3	2	12.5
0.632374571 BH	1	18	1	2	9.5
0.63259026 BH	4	26	14	19	15
0.632918649 BH	14	18	22	24	16
0.632918649 BH	495	966	866	931	730.5
0.63303197 BH	8	14	16	14	11
0.633280052 BH	2	18	15	8	10
0.633701884 BH	4	22	1	4	13
0.634302201 BH	18	52	14	6	35
0.634962136 BH	41	79	100	55	60
0.635477747 BH	52	75	112	64	63.5
0.635796182 BH	32	36	12	11	34
0.635822349 BH	0	22	0	3	11
0.635874535 BH	28	129	114	65	78.5
0.636177987 BH	199	271	419	231	235
0.636664963 BH	2	15	4	0	8.5

0.636664963 BH	4	7	16	3	5.5
0.636664963 BH	6	25	7	1	15.5
0.636999895 BH	6	16	18	11	11
0.637235281 BH	3	2	14	0	2.5
0.638032453 BH	12	14	8	0	13
0.638032453 BH	5	209	30	15	107
0.638441564 BH	178	303	82	79	240.5
0.639735144 BH	7	14	5	0	10.5
0.640345612 BH	0	22	11	13	11
0.640536439 BH	14	322	44	30	168
0.641067254 BH	1	21	2	2	11
0.641606438 BH	23	112	14	21	67.5
0.642383583 BH	16	65	37	52	40.5
0.642383583 BH	0	15	5	11	7.5
0.642433049 BH	12	21	5	5	16.5
0.642433049 BH	10	25	5	5	17.5
0.643006466 BH	22	28	12	5	25
0.643006466 BH	0	16	1	1	8
0.643006466 BH	0	16	1	1	8
0.643006466 BH	0	16	1	1	8
0.643101617 BH	0	9	4	7	4.5
0.643980589 BH	4	12	12	8	8
0.645145905 BH	3	30	6	2	16.5
0.645145905 BH	26	93	61	72	59.5
0.645145905 BH	12	88	17	8	50
0.645176276 BH	8	59	12	5	33.5
0.645625813 BH	1	7	11	1	4
0.64584562 BH	6	40	3	7	23
0.64584562 BH	12	82	50	50	47
0.64584562 BH	27	23	75	11	25
0.64611639 BH	13	23	32	16	18
0.64611639 BH	53	88	132	58	70.5
0.646270667 BH	11	27	8	3	19
0.646832241 BH	8	9	18	10	8.5
0.646832241 BH	25	85	49	73	55
0.646832241 BH	9	29	22	23	19
0.646832241 BH	0	31	5	0	15.5
0.646832241 BH	4	23	16	16	13.5
0.647036749 BH	8	56	5	10	32
0.647036749 BH	367	993	193	224	680
0.647571782 BH	14	25	9	3	19.5
0.647605114 BH	123	137	258	119	130
0.647864359 BH	25	262	34	35	143.5
0.647864359 BH	8	1	23	1	4.5
0.648115403 BH	20	42	12	7	31
0.648115403 BH	2	6	13	1	4
0.648115403 BH	9	9	5	0	9

0.648115403 BH	0	10	10	4	5
0.648115403 BH	16	42	57	19	29
0.648115403 BH	54	47	112	45	50.5
0.648115403 BH	8	26	6	3	17
0.648122866 BH	19	40	54	23	29.5
0.648122866 BH	52	174	23	40	113
0.648122866 BH	22	94	6	132	58
0.648122866 BH	2	21	9	16	11.5
0.64854215 BH	1	21	1	3	11
0.648815069 BH	12	39	36	24	25.5
0.648815069 BH	14	71	48	44	42.5
0.650240946 BH	19	97	21	11	58
0.650240946 BH	11	100	15	12	55.5
0.650295173 BH	12	35	11	3	23.5
0.650295173 BH	49	44	68	69	46.5
0.650329505 BH	21	135	58	103	78
0.650329505 BH	18	19	35	20	18.5
0.650329505 BH	1	16	4	0	8.5
0.650329505 BH	8	3	4	0	5.5
0.650329505 BH	1	12	14	3	6.5
0.650329505 BH	23	23	6	9	23
0.650329505 BH	3	10	17	2	6.5
0.650329505 BH	8	17	3	3	12.5
0.650329505 BH	8	17	3	3	12.5
0.651092598 BH	7	33	25	21	20
0.651092598 BH	14	29	25	29	21.5
0.651092598 BH	11	17	3	5	14
0.651092598 BH	8	23	3	5	15.5
0.651092598 BH	5	7	13	6	6
0.651092598 BH	7	39	6	5	23
0.651170113 BH	1	11	13	2	6
0.651287236 BH	1	24	2	3	12.5
0.651364626 BH	1	41	5	3	21
0.651661565 BH	1	17	0	3	9
0.651934134 BH	6	30	5	4	18
0.652390587 BH	6	21	3	3	13.5
0.652390587 BH	3	63	12	3	33
0.652390587 BH	42	25	100	21	33.5
0.653039762 BH	19	40	58	20	29.5
0.653039762 BH	8	38	37	17	23
0.653039762 BH	12	23	8	2	17.5
0.653039762 BH	61	89	39	14	75
0.653263847 BH	1	37	2	5	19
0.653484029 BH	11	55	34	38	33
0.653587 BH	58	44	28	11	51
0.653587 BH	5	41	9	2	23
0.653840292 BH	9	25	7	2	17

0.653840292 BH	2	30	2	4	16
0.653840292 BH	2	30	2	4	16
0.653840292 BH	14	36	9	6	25
0.653840292 BH	7	14	4	2	10.5
0.653840292 BH	7	13	3	3	10
0.653840292 BH	7	14	4	2	10.5
0.653840292 BH	2	34	4	3	18
0.654163276 BH	6	24	3	4	15
0.654163276 BH	3	10	12	5	6.5
0.654405318 BH	17	174	20	26	95.5
0.654405318 BH	0	40	6	2	20
0.654405318 BH	196	288	208	402	242
0.654405318 BH	1	24	4	1	12.5
0.654405318 BH	0	10	11	3	5
0.654482794 BH	3	7	17	0	5
0.654788766 BH	3	18	10	15	10.5
0.654788766 BH	0	16	0	2	8
0.654788766 BH	0	16	0	2	8
0.654788766 BH	8	23	28	11	15.5
0.654839142 BH	6	39	2	8	22.5
0.655057492 BH	174	39	81	9	106.5
0.655524502 BH	2	34	3	4	18
0.655524502 BH	3	22	19	10	12.5
0.655586676 BH	2	6	7	5	4
0.655586676 BH	5	15	3	2	10
0.655586676 BH	5	6	12	5	5.5
0.655586676 BH	47	96	100	75	71.5
0.656238201 BH	0	17	0	2	8.5
0.656238201 BH	0	17	0	2	8.5
0.656238201 BH	0	16	3	0	8
0.656317701 BH	2	14	9	9	8
0.656484365 BH	19	56	12	10	37.5
0.656484365 BH	79	222	58	37	150.5
0.656484365 BH	14	29	7	6	21.5
0.656484365 BH	7	49	9	5	28
0.656484365 BH	6	35	29	18	20.5
0.656484365 BH	2	9	9	5	5.5
0.656484365 BH	3	6	10	4	4.5
0.656484365 BH	2	9	9	5	5.5
0.656484365 BH	1	52	1	8	26.5
0.656484365 BH	5	22	5	2	13.5
0.656484365 BH	2	10	11	5	6
0.656484365 BH	5	31	4	5	18
0.657228968 BH	25	95	23	12	60
0.657427376 BH	0	12	11	4	6
0.657540167 BH	5	64	29	42	34.5
0.65754106 BH	2	4	6	5	3

0.65754106 BH	4	19	8	17	11.5
0.658829068 BH	8	34	25	23	21
0.6591085 BH	0	20	1	2	10
0.6591085 BH	18	209	17	35	113.5
0.659340077 BH	6	38	4	6	22
0.659340077 BH	4	2	13	1	3
0.659340077 BH	2	12	12	5	7
0.659340077 BH	12	82	8	15	47
0.659340077 BH	11	9	6	0	10
0.659340077 BH	134	97	282	92	115.5
0.659340077 BH	4	13	2	2	8.5
0.65954122 BH	18	80	71	38	49
0.660344878 BH	5	30	21	18	17.5
0.6604342 BH	22	50	23	61	36
0.6604342 BH	4	20	4	2	12
0.6604342 BH	0	15	8	8	7.5
0.6604342 BH	2	30	6	1	16
0.6604342 BH	6	13	4	1	9.5
0.6604342 BH	4	17	2	3	10.5
0.660532087 BH	125	1194	21	248	659.5
0.660532087 BH	118	208	220	182	163
0.66089418 BH	13	26	6	5	19.5
0.66089418 BH	5	11	3	1	8
0.66089418 BH	4	28	4	3	16
0.66089418 BH	11	9	0	5	10
0.66089418 BH	16	14	17	27	15
0.661744545 BH	68	126	171	77	97
0.662105103 BH	6	35	3	6	20.5
0.662350239 BH	7	15	5	1	11
0.662351186 BH	3	5	9	3	4
0.662744569 BH	1	59	9	4	30
0.662744569 BH	19	87	53	59	53
0.662744569 BH	1	6	6	5	3.5
0.662744569 BH	2	5	8	3	3.5
0.662948091 BH	6	52	9	5	29
0.662948091 BH	10	39	8	5	24.5
0.662948091 BH	4	28	3	4	16
0.662952658 BH	12	26	8	4	19
0.663848412 BH	4	10	2	1	7
0.663891746 BH	2	13	15	5	7.5
0.663891746 BH	5	19	5	1	12
0.663891746 BH	1	8	6	6	4.5
0.663891746 BH	5	10	20	4	7.5
0.663891746 BH	8	30	2	7	19
0.664314095 BH	3	16	2	2	9.5
0.664314095 BH	3	16	2	2	9.5
0.664314095 BH	0	9	11	1	4.5



0.664485372 BH	57	91	29	22	74
0.664846304 BH	4	34	4	5	19
0.664854357 BH	21	13	37	18	17
0.664854357 BH	11	33	5	7	22
0.664854357 BH	9	40	7	6	24.5
0.664854357 BH	3	12	2	1	7.5
0.664854357 BH	4	30	23	15	17
0.664854357 BH	7	64	7	10	35.5
0.664854357 BH	1	9	8	4	5
0.664854357 BH	3	18	2	3	10.5
0.664854357 BH	3	19	3	2	11
0.664854357 BH	4	17	4	1	10.5
0.664854357 BH	4	17	4	1	10.5
0.664854357 BH	4	17	4	1	10.5
0.664854357 BH	4	59	10	4	31.5
0.664854357 BH	403	704	635	704	553.5
0.665166479 BH	4	37	6	4	20.5
0.665290455 BH	1	12	8	7	6.5
0.665290455 BH	18	54	50	34	36
0.665499174 BH	25	28	58	21	26.5
0.665600454 BH	18	4	5	3	11
0.665961498 BH	6	7	2	1	6.5
0.665993059 BH	3	10	4	12	6.5
0.666625781 BH	7	72	13	6	39.5
0.666625781 BH	29	81	25	10	55
0.666625781 BH	3	15	23	2	9
0.666625781 BH	8	2	22	2	5
0.666625781 BH	3	15	3	1	9
0.666625781 BH	3	15	3	1	9
0.666625781 BH	40	65	13	21	52.5
0.666625781 BH	3	9	1	1	6
0.666625781 BH	3	9	1	1	6
0.666859451 BH	2	10	13	3	6
0.666859451 BH	63	91	118	82	77
0.666859451 BH	3	21	7	18	12
0.666859451 BH	10	5	20	8	7.5
0.667093332 BH	24	29	10	8	26.5
0.667093332 BH	8	24	9	0	16
0.667557371 BH	1	14	9	8	7.5
0.667564754 BH	14	94	39	70	54
0.667871459 BH	30	38	14	10	34
0.668422359 BH	3	6	3	10	4.5
0.668594753 BH	1	15	9	10	8
0.668594753 BH	3	11	17	3	7
0.668594753 BH	5	29	29	10	17
0.668594753 BH	3	26	5	2	14.5
0.668594753 BH	3	25	5	2	14

0.668594753 BH	3	27	3	3	15
0.669470283 BH	26	28	62	19	27
0.669585429 BH	8	55	49	20	31.5
0.669585429 BH	8	28	6	4	18
0.669814309 BH	22	79	14	15	50.5
0.669814309 BH	9	7	4	1	8
0.669814309 BH	24	16	13	3	20
0.669814309 BH	7	7	1	3	7
0.670626246 BH	128	214	223	197	171
0.670626246 BH	3	33	5	3	18
0.670700312 BH	13	37	18	38	25
0.670700312 BH	13	21	8	3	17
0.670700312 BH	34	0	21	56	17
0.67087063 BH	43	51	24	11	47
0.67087063 BH	2	11	1	1	6.5
0.671394028 BH	22	20	11	4	21
0.671394028 BH	4	23	23	9	13.5
0.671417312 BH	18	193	39	168	105.5
0.671417312 BH	2	17	2	2	9.5
0.671417312 BH	2	20	3	2	11
0.671852872 BH	2	15	2	1	8.5
0.672195778 BH	3	27	19	14	15
0.67248567 BH	3	18	16	9	10.5
0.672495489 BH	10	127	15	17	68.5
0.672495489 BH	11	9	6	1	10
0.672522975 BH	17	34	53	14	25.5
0.673060109 BH	6	3	2	15	4.5
0.673355616 BH	2	17	3	1	9.5
0.673355616 BH	2	17	3	1	9.5
0.673390631 BH	2	20	2	3	11
0.673408467 BH	180	137	247	215	158.5
0.67372821 BH	4	5	12	2	4.5
0.67372821 BH	2	9	12	2	5.5
0.674660191 BH	3	28	16	16	15.5
0.674678685 BH	2	14	4	13	8
0.675479145 BH	1	7	9	2	4
0.675479145 BH	23	35	11	9	29
0.675479145 BH	1	9	3	8	5
0.675479145 BH	2	21	2	3	11.5
0.675576327 BH	83	142	209	81	112.5
0.675805123 BH	2	45	20	28	23.5
0.676266302 BH	2	7	14	0	4.5
0.676557553 BH	340	422	356	611	381
0.676688436 BH	12	40	10	5	26
0.67682382 BH	5	58	11	4	31.5
0.67682382 BH	11	11	34	3	11
0.677475378 BH	3	9	0	2	6

0.677526239 BH	3	13	13	7	8
0.677526239 BH	7	34	8	3	20.5
0.67784639 BH	184	1008	53	242	596
0.67784639 BH	15	182	34	16	98.5
0.678059177 BH	24	37	14	7	30.5
0.678605494 BH	6	16	15	12	11
0.678978886 BH	38	67	55	71	52.5
0.678978886 BH	39	137	109	82	88
0.678994489 BH	3	8	3	0	5.5
0.679046637 BH	2	17	1	3	9.5
0.679569658 BH	7	23	5	3	15
0.679569658 BH	71	88	112	96	79.5
0.679569658 BH	16	48	16	4	32
0.679569658 BH	9	23	7	2	16
0.679569658 BH	6	18	12	16	12
0.679639872 BH	214	2309	46	481	1261.5
0.679639872 BH	14	6	6	2	10
0.680402711 BH	186	40	91	9	113
0.680402711 BH	4	9	4	0	6.5
0.680402711 BH	66	202	51	35	134
0.680402711 BH	9	37	29	21	23
0.680402711 BH	71	81	26	30	76
0.680402711 BH	15	45	10	8	30
0.680402711 BH	2	29	3	3	15.5
0.680402711 BH	657	776	1176	728	716.5
0.680895719 BH	52	65	15	25	58.5
0.68131322 BH	3	12	12	6	7.5
0.68164971 BH	6	17	21	9	11.5
0.68164971 BH	1	13	1	1	7
0.68164971 BH	1	13	1	1	7
0.681760349 BH	7	21	4	3	14
0.681760349 BH	3	11	4	0	7
0.681760349 BH	3	11	4	0	7
0.68214112 BH	2	5	10	1	3.5
0.682145372 BH	6	33	7	3	19.5
0.68220309 BH	14	54	13	7	34
0.682267177 BH	13	59	13	8	36
0.682502437 BH	7	12	5	0	9.5
0.68304814 BH	11	42	11	4	26.5
0.68304814 BH	6	26	5	3	16
0.68304814 BH	8	20	20	15	14
0.68304814 BH	1	16	2	1	8.5
0.68304814 BH	1	16	2	1	8.5
0.68304814 BH	1	16	2	1	8.5
0.68304814 BH	3	12	0	3	7.5
0.68304814 BH	46	169	97	129	107.5
0.683547124 BH	8	67	16	58	37.5

0.68355888 BH	74	221	113	201	147.5
0.683700758 BH	18	55	12	10	36.5
0.683765511 BH	17	68	69	26	42.5
0.685047886 BH	1	17	2	1	9
0.685047886 BH	94	51	32	28	72.5
0.685047886 BH	6	17	6	0	11.5
0.685047886 BH	8	13	6	0	10.5
0.685206197 BH	1	14	4	12	7.5
0.685206197 BH	1	20	2	2	10.5
0.685206197 BH	1	19	2	2	10
0.685206197 BH	1	19	2	2	10
0.685228558 BH	2	44	31	17	23
0.685831576 BH	13	72	38	49	42.5
0.685960577 BH	0	11	7	5	5.5
0.686517385 BH	25	38	12	9	31.5
0.686517385 BH	11	120	28	6	65.5
0.686594355 BH	8	36	33	17	22
0.686594355 BH	55	116	23	33	85.5
0.686594355 BH	7	103	15	11	55
0.686603465 BH	41	477	163	329	259
0.686603465 BH	5	27	5	3	16
0.686603465 BH	1	19	3	1	10
0.686603465 BH	1	19	3	1	10
0.686603465 BH	0	9	8	3	4.5
0.68666075 BH	4	29	14	20	16.5
0.686795941 BH	7	18	6	2	12.5
0.686795941 BH	9	14	6	2	11.5
0.686795941 BH	3	16	19	5	9.5
0.686795941 BH	12	13	31	8	12.5
0.686795941 BH	27	37	84	11	32
0.686795941 BH	1	23	3	2	12
0.686795941 BH	0	10	9	4	5
0.686795941 BH	333	478	473	522	405.5
0.687161328 BH	4	19	14	11	11.5
0.687404248 BH	65	102	38	22	83.5
0.687459319 BH	14	84	14	13	49
0.688205213 BH	2	14	8	9	8
0.688205213 BH	5	26	3	5	15.5
0.688364322 BH	465	513	500	756	489
0.688364322 BH	6	20	6	2	13
0.688364322 BH	5	25	4	3	15
0.688364322 BH	2	12	10	6	7
0.688364322 BH	1	23	2	3	12
0.688364322 BH	1	23	2	3	12
0.688364322 BH	21	7	61	1	14
0.688364322 BH	5	38	8	3	21.5
0.688863957 BH	4	16	13	11	10

0.689040259 BH	188	70	365	100	129
0.689040259 BH	4	18	17	9	11
0.689040259 BH	1	11	3	0	6
0.689326203 BH	2	8	14	1	5
0.689492438 BH	20	128	56	88	74
0.689492438 BH	8	32	29	15	20
0.689492438 BH	7	16	5	2	11.5
0.689492438 BH	6	17	5	2	11.5
0.689492438 BH	3	8	6	8	5.5
0.689778653 BH	3	19	5	0	11
0.689778653 BH	3	40	2	7	21.5
0.689778653 BH	19	45	14	7	32
0.689778653 BH	4	16	22	4	10
0.689778653 BH	99	299	256	177	199
0.689785283 BH	10	12	7	0	11
0.689785283 BH	12	29	15	33	20.5
0.689785283 BH	1	13	0	2	7
0.689785283 BH	1	13	0	2	7
0.690132025 BH	9	32	5	6	20.5
0.690132025 BH	1	19	1	3	10
0.690132025 BH	1	19	1	3	10
0.690190131 BH	48	23	86	34	35.5
0.690568142 BH	5	19	5	2	12
0.690568142 BH	5	21	3	3	13
0.690568142 BH	41	58	24	12	49.5
0.690568142 BH	4	29	4	4	16.5
0.690568142 BH	2	13	14	5	7.5
0.690568142 BH	13	42	12	5	27.5
0.690568142 BH	0	11	9	3	5.5
0.690568142 BH	7	14	22	6	10.5
0.690568142 BH	33	21	73	16	27
0.690568142 BH	6	22	2	5	14
0.690568142 BH	28	72	69	45	50
0.690568142 BH	3	65	6	9	34
0.690568142 BH	5	23	7	0	14
0.690568142 BH	18	43	16	4	30.5
0.690568142 BH	6	342	42	34	174
0.690936508 BH	6	13	3	3	9.5
0.690956349 BH	71	12	8	25	41.5
0.691191992 BH	10	9	6	0	9.5
0.691191992 BH	4	17	16	8	10.5
0.691284613 BH	9	24	16	21	16.5
0.691284613 BH	51	232	42	42	141.5
0.69203076 BH	1	23	4	1	12
0.692183862 BH	5	25	20	13	15
0.692183862 BH	2	314	36	28	158
0.692183862 BH	4	27	4	3	15.5

0.692183862 BH	4	27	4	3	15.5
0.692183862 BH	1	31	3	3	16
0.692183862 BH	5	15	3	3	10
0.692183862 BH	7	13	4	2	10
0.692183862 BH	5	16	3	3	10.5
0.692183862 BH	30	317	75	18	173.5
0.692183862 BH	16	67	14	11	41.5
0.692183862 BH	17	40	40	27	28.5
0.692183862 BH	19	5	7	2	12
0.692290799 BH	8	150	18	19	79
0.69362116 BH	22	145	67	95	83.5
0.69362116 BH	8	20	8	1	14
0.693639902 BH	49	331	46	58	190
0.693639902 BH	59	103	123	75	81
0.693639902 BH	1	141	7	20	71
0.693868274 BH	7	0	10	5	3.5
0.69398038 BH	2	9	8	5	5.5
0.69398038 BH	5	17	4	2	11
0.694209922 BH	32	26	12	10	29
0.694346188 BH	19	9	8	3	14
0.694375145 BH	6	54	10	6	30
0.694718995 BH	52	110	107	80	81
0.694718995 BH	8	27	15	24	17.5
0.695221331 BH	4	14	16	7	9
0.695221331 BH	7	8	15	8	7.5
0.695311608 BH	2	14	14	4	8
0.695542026 BH	11	105	19	12	58
0.695653647 BH	4	24	7	0	14
0.697182021 BH	101	74	36	35	87.5
0.697393071 BH	9	106	23	7	57.5
0.697697315 BH	74	71	140	64	72.5
0.697846904 BH	3	17	12	10	10
0.697846904 BH	5	2	16	0	3.5
0.697924238 BH	91	181	183	133	136
0.697924238 BH	29	33	13	10	31
0.697924238 BH	0	14	5	10	7
0.697970089 BH	4	19	4	2	11.5
0.698763148 BH	122	359	128	35	240.5
0.698763148 BH	9	25	7	3	17
0.698763148 BH	30	85	22	15	57.5
0.698763148 BH	121	373	71	86	247
0.698763148 BH	0	15	1	1	7.5
0.698763148 BH	0	15	1	1	7.5
0.698763148 BH	0	15	1	1	7.5
0.698763148 BH	0	15	1	1	7.5
0.698893278 BH	27	59	16	13	43
0.698893278 BH	225	148	215	316	186.5

0.698893278 BH	0	11	2	0	5.5
0.698893278 BH	0	11	2	0	5.5
0.698893278 BH	0	11	2	0	5.5
0.698893278 BH	0	11	2	0	5.5
0.698893278 BH	0	11	2	0	5.5
0.698893278 BH	0	11	2	0	5.5
0.698895554 BH	1	13	7	9	7
0.698895554 BH	3	29	4	3	16
0.699206537 BH	26	6	64	5	16
0.699206537 BH	3	35	4	5	19
0.699370376 BH	50	84	112	54	67
0.699713265 BH	180	215	320	191	197.5
0.699713265 BH	2	7	6	5	4.5
0.699903777 BH	3	42	4	6	22.5
0.700531454 BH	2	29	17	15	15.5
0.700591075 BH	5	39	20	24	22
0.700718776 BH	36	47	20	11	41.5
0.700718776 BH	3	19	3	3	11
0.700718776 BH	83	252	68	43	167.5
0.700718776 BH	8	17	1	6	12.5
0.700718776 BH	20	6	31	15	13
0.701035858 BH	13	71	13	11	42
0.70124617 BH	7	83	47	41	45
0.70124617 BH	4	15	3	2	9.5
0.70124617 BH	2	6	8	4	4
0.701424942 BH	5	71	10	9	38
0.701424942 BH	42	140	39	20	91
0.701438211 BH	44	43	29	5	43.5
0.701438211 BH	1	23	10	14	12
0.701443414 BH	3	23	5	2	13
0.7022807 BH	1	10	8	5	5.5
0.7022807 BH	19	8	11	0	13.5
0.7022807 BH	11	11	7	1	11
0.7022807 BH	3	72	44	30	37.5
0.7022807 BH	28	20	15	5	24
0.702660069 BH	26	17	46	21	21.5
0.702660069 BH	7	9	3	2	8
0.702660069 BH	10	64	13	8	37
0.702691843 BH	0	18	2	1	9
0.703913541 BH	22	62	14	13	42
0.703959369 BH	1	24	31	1	12.5
0.703959369 BH	10	7	4	2	8.5
0.703959369 BH	1	11	6	6	6
0.704129462 BH	18	184	26	27	101
0.704129462 BH	41	92	17	27	66.5
0.704344581 BH	0	18	1	2	9
0.704344581 BH	0	19	2	1	9.5

0.704344581 BH	0	18	1	2	9
0.704436543 BH	31	105	74	68	68
0.705678482 BH	5	16	15	10	10.5
0.705932652 BH	11	60	14	6	35.5
0.705956721 BH	4	18	5	1	11
0.706017468 BH	3	11	17	2	7
0.706017468 BH	3	17	3	2	10
0.706017468 BH	6	11	4	1	8.5
0.706017468 BH	2	7	4	7	4.5
0.706017468 BH	3	17	3	2	10
0.706017468 BH	3	17	3	2	10
0.706017468 BH	7	33	18	24	20
0.706017468 BH	0	21	2	2	10.5
0.706017468 BH	10	50	16	2	30
0.707325448 BH	15	12	5	5	13.5
0.707325448 BH	10	6	3	3	8
0.707325448 BH	1	11	9	4	6
0.707325448 BH	3	7	11	2	5
0.707325448 BH	8	10	13	11	9
0.707332394 BH	35	7	18	1	21
0.707357059 BH	29	236	113	136	132.5
0.707357059 BH	2	25	0	5	13.5
0.707357059 BH	1	8	8	4	4.5
0.707357059 BH	4	16	4	1	10
0.707357059 BH	0	22	2	2	11
0.707357059 BH	0	22	2	2	11
0.707454317 BH	3	30	18	14	16.5
0.707454317 BH	18	12	4	7	15
0.707454317 BH	5	8	10	7	6.5
0.707454317 BH	7	21	5	3	14
0.707454317 BH	7	21	5	3	14
0.707510575 BH	3	25	18	12	14
0.707531352 BH	6	16	9	16	11
0.708198046 BH	4	38	24	18	21
0.708920698 BH	0	14	0	2	7
0.709208286 BH	2	30	4	3	16
0.709208286 BH	3	31	2	6	17
0.709390336 BH	2	38	6	3	20
0.709390336 BH	12	29	11	3	20.5
0.709390336 BH	2	25	5	2	13.5
0.709390336 BH	258	91	114	47	174.5
0.709390336 BH	39	41	74	35	40
0.709390336 BH	10	47	9	7	28.5
0.709390336 BH	3	35	14	22	19
0.709390336 BH	0	15	0	2	7.5
0.709390336 BH	0	15	0	2	7.5
0.709390336 BH	0	15	0	2	7.5



0.709390336 BH	0	14	3	0	7
0.709390336 BH	0	15	0	2	7.5
0.709390336 BH	2	21	3	3	11.5
0.709390336 BH	2	22	3	3	12
0.709390336 BH	12	100	46	60	56
0.709390336 BH	4	12	2	2	8
0.709508516 BH	7	26	7	2	16.5
0.70954737 BH	96	553	60	121	324.5
0.70954737 BH	96	391	225	257	243.5
0.709581829 BH	0	25	3	2	12.5
0.709972045 BH	16	89	13	17	52.5
0.71017079 BH	1	82	8	10	41.5
0.710619739 BH	20	77	59	42	48.5
0.710619739 BH	65	73	17	33	69
0.710619739 BH	23	141	66	90	82
0.710619739 BH	87	146	58	30	116.5
0.710619739 BH	5	10	3	1	7.5
0.710619739 BH	1	10	11	3	5.5
0.710619739 BH	2	23	4	2	12.5
0.710619739 BH	3	21	5	1	12
0.710948551 BH	3	18	4	1	10.5
0.710948551 BH	5	29	6	3	17
0.710948551 BH	0	27	3	3	13.5
0.710948551 BH	23	40	55	23	31.5
0.710948551 BH	5	15	10	12	10
0.711286731 BH	68	36	40	6	52
0.711286731 BH	8	34	5	7	21
0.711296066 BH	149	277	66	85	213
0.711589586 BH	6	30	18	19	18
0.711589586 BH	84	140	113	143	112
0.711727329 BH	4	12	3	1	8
0.711727329 BH	2	56	8	5	29
0.711727329 BH	2	26	2	4	14
0.711996644 BH	3	2	12	0	2.5
0.711996644 BH	2	18	3	2	10
0.711996644 BH	2	7	10	2	4.5
0.711996644 BH	9	42	13	3	25.5
0.71227198 BH	13	13	7	2	13
0.71227198 BH	6	28	7	2	17
0.71227198 BH	13	100	69	41	56.5
0.712581096 BH	6	22	22	9	14
0.712601787 BH	2	47	4	7	24.5
0.713489923 BH	22	542	40	89	282
0.713504145 BH	2	27	2	4	14.5
0.713570214 BH	8	65	30	40	36.5
0.713570214 BH	7	93	16	10	50
0.713570214 BH	2	18	2	3	10

0.713570214 BH	212	218	344	219	215
0.713984847 BH	0	28	4	2	14
0.71414432 BH	13	19	24	16	16
0.714163366 BH	320	801	160	218	560.5
0.714543623 BH	18	24	52	8	21
0.71479379 BH	5	67	10	8	36
0.71479379 BH	68	139	28	43	103.5
0.714906721 BH	9	8	17	8	8.5
0.715086442 BH	12	82	18	9	47
0.715086442 BH	11	22	7	4	16.5
0.715326028 BH	18	4	6	3	11
0.715654787 BH	10	1	20	3	5.5
0.715654787 BH	6	20	4	3	13
0.716751606 BH	23	46	15	9	34.5
0.716761794 BH	56	253	174	132	154.5
0.717063202 BH	31	379	94	275	205
0.717307645 BH	4	19	8	15	11.5
0.717554081 BH	12	20	7	4	16
0.71785833 BH	5	36	29	13	20.5
0.71785833 BH	5	22	13	15	13.5
0.71785833 BH	3	44	6	5	23.5
0.718197066 BH	2	15	2	2	8.5
0.718197066 BH	2	15	2	2	8.5
0.719004366 BH	17	44	54	17	30.5
0.719004366 BH	4	16	8	14	10
0.719004366 BH	2	19	4	1	10.5
0.719004366 BH	2	23	5	1	12.5
0.719004366 BH	1	10	12	2	5.5
0.719231251 BH	0	17	4	0	8.5
0.719231251 BH	2	11	10	6	6.5
0.719231251 BH	2	11	9	7	6.5
0.719231251 BH	2	10	17	0	6
0.719231251 BH	13	48	15	5	30.5
0.719231251 BH	24	47	9	15	35.5
0.719231251 BH	2	16	2	2	9
0.719231251 BH	2	16	2	2	9
0.719231251 BH	18	61	44	39	39.5
0.71924594 BH	19	51	41	34	35
0.719478972 BH	27	28	70	11	27.5
0.719596887 BH	10	37	13	2	23.5
0.719924975 BH	8	22	9	0	15
0.719963149 BH	19	51	14	9	35
0.719963149 BH	2	20	4	1	11
0.720695587 BH	9	32	29	16	20.5
0.720695587 BH	22	80	56	48	51
0.720695587 BH	7	12	6	17	9.5
0.720829471 BH	5	12	16	6	8.5

0.720889678 BH	11	73	10	13	42
0.721231813 BH	1	21	11	11	11
0.721306237 BH	8	45	31	23	26.5
0.721740751 BH	18	22	13	2	20
0.721740751 BH	4	2	10	2	3
0.721883142 BH	16	23	31	18	19.5
0.721883142 BH	32	9	17	2	20.5
0.721883142 BH	338	333	368	479	335.5
0.721883142 BH	4	8	2	1	6
0.721883142 BH	2	16	3	1	9
0.721883142 BH	2	16	3	1	9
0.721883142 BH	8	5	3	1	6.5
0.721883142 BH	2	16	3	1	9
0.721928673 BH	0	29	5	1	14.5
0.722379584 BH	14	15	7	4	14.5
0.722512578 BH	61	130	117	93	95.5
0.722549565 BH	1	19	23	1	10
0.722549565 BH	2	20	21	4	11
0.722549565 BH	5	14	5	0	9.5
0.722549565 BH	2	16	15	4	9
0.722549565 BH	10	48	9	8	29
0.722549565 BH	5	7	2	1	6
0.722549565 BH	3	10	2	1	6.5
0.722549565 BH	3	11	2	1	7
0.722549565 BH	3	10	2	1	6.5
0.722549565 BH	3	11	2	1	7
0.722549565 BH	3	11	2	1	7
0.722549565 BH	4	34	22	16	19
0.723681566 BH	4	24	3	4	14
0.723681566 BH	10	14	21	11	12
0.723681566 BH	15	63	16	8	39
0.723681566 BH	4	16	5	0	10
0.723681566 BH	0	10	7	5	5
0.723681566 BH	10	4	4	1	7
0.723681566 BH	0	16	7	9	8
0.723681566 BH	3	11	1	2	7
0.723681566 BH	3	11	1	2	7
0.723681566 BH	3	10	1	2	6.5
0.723681566 BH	1	25	4	2	13
0.723681566 BH	1	25	4	2	13
0.723893841 BH	2	16	1	3	9
0.724239615 BH	4	56	3	11	30
0.724296816 BH	38	56	30	7	47
0.724296816 BH	3	29	4	4	16
0.724296816 BH	20	79	77	28	49.5
0.724296816 BH	20	52	61	21	36
0.724296816 BH	11	19	7	3	15

0.724296816 BH	6	94	4	19	50
0.724296816 BH	2	23	12	12	12.5
0.724296816 BH	1	27	21	7	14
0.724296816 BH	0	10	8	4	5
0.724296816 BH	0	10	8	4	5
0.724296816 BH	1	21	3	2	11
0.724296816 BH	17	19	7	6	18
0.724296816 BH	5	6	1	2	5.5
0.724550659 BH	6	15	5	2	10.5
0.724550659 BH	0	12	5	8	6
0.725126152 BH	321	538	300	651	429.5
0.725126152 BH	35	65	19	17	50
0.725126152 BH	2	12	12	4	7
0.725126152 BH	2	12	2	1	7
0.725126152 BH	2	12	2	1	7
0.725126152 BH	2	12	2	1	7
0.725126152 BH	17	28	7	8	22.5
0.725126152 BH	0	11	7	4	5.5
0.725126152 BH	8	8	5	0	8
0.725126152 BH	8	8	5	0	8
0.725126152 BH	2	53	7	6	27.5
0.725126152 BH	0	13	9	4	6.5
0.725126152 BH	0	13	9	4	6.5
0.725126152 BH	2	10	9	5	6
0.725126152 BH	5	17	5	2	11
0.725126152 BH	3	8	10	4	5.5
0.725126152 BH	2	10	8	6	6
0.725126152 BH	6	16	2	4	11
0.725126152 BH	2	10	9	5	6
0.725126152 BH	5	25	17	14	15
0.725683414 BH	52	125	24	36	88.5
0.725839868 BH	40	126	17	35	83
0.726029224 BH	6	14	15	9	10
0.726029224 BH	2	12	1	2	7
0.726029224 BH	2	13	2	1	7.5
0.726659447 BH	20	78	20	12	49
0.726659447 BH	1	17	2	2	9
0.726659447 BH	6	28	6	4	17
0.727030103 BH	7	80	9	13	43.5
0.727030103 BH	14	55	26	43	34.5
0.727030103 BH	7	13	20	7	10
0.727030103 BH	2	41	7	4	21.5
0.727030103 BH	6	23	23	9	14.5
0.727030103 BH	20	36	16	5	28
0.727318159 BH	2	13	1	2	7.5
0.727713796 BH	3	26	19	10	14.5
0.727713796 BH	10	28	9	4	19

0.727713796 BH	0	10	9	3	5
0.727713796 BH	821	496	996	862	658.5
0.727713796 BH	1	18	2	2	9.5
0.727713796 BH	1	18	2	2	9.5
0.727929493 BH	16	16	10	2	16
0.727929493 BH	5	10	16	5	7.5
0.727929493 BH	4	21	3	3	12.5
0.727929493 BH	5	4	9	5	4.5
0.727929493 BH	4	19	5	2	11.5
0.728035146 BH	7	24	20	14	15.5
0.728035146 BH	2	18	11	10	10
0.728303672 BH	6	16	20	6	11
0.728303672 BH	25	106	61	66	65.5
0.728303672 BH	30	81	55	60	55.5
0.728303672 BH	19	27	13	4	23
0.728765338 BH	1	22	4	1	11.5
0.728769211 BH	8	21	6	3	14.5
0.728774044 BH	123	177	250	115	150
0.728827729 BH	14	21	9	4	17.5
0.728827729 BH	3	27	3	4	15
0.729147224 BH	3	65	9	7	34
0.729223567 BH	8	25	8	2	16.5
0.729223567 BH	5	30	5	5	17.5
0.729223567 BH	20	48	13	10	34
0.729433425 BH	0	14	12	3	7
0.729610966 BH	12	46	9	9	29
0.729610966 BH	7	25	22	12	16
0.729754045 BH	10	661	91	66	335.5
0.730015136 BH	1	6	10	1	3.5
0.730150908 BH	39	159	21	39	99
0.73022374 BH	435	686	702	577	560.5
0.730720655 BH	6	28	24	12	17
0.730720655 BH	6	29	15	19	17.5
0.73075917 BH	462	749	704	660	605.5
0.730765109 BH	7	58	8	10	32.5
0.730849503 BH	4	40	8	4	22
0.730980905 BH	9	18	16	16	13.5
0.730980905 BH	18	31	9	8	24.5
0.731340039 BH	1	17	1	3	9
0.731340039 BH	1	17	1	3	9
0.731917615 BH	3	37	2	7	20
0.731917615 BH	3	14	8	9	8.5
0.731917615 BH	54	52	20	23	53
0.731917615 BH	3	7	8	4	5
0.731917615 BH	6	12	4	2	9
0.731917615 BH	5	14	3	3	9.5
0.73211344 BH	5	14	11	11	9.5

0.73211344 BH	6	16	6	1	11
0.73251821 BH	5	30	7	3	17.5
0.73251821 BH	35	127	40	15	81
0.732885532 BH	14	49	59	12	31.5
0.732936168 BH	6	47	24	25	26.5
0.73303018 BH	71	169	151	106	120
0.733080158 BH	2	32	5	3	17
0.733080158 BH	2	8	7	5	5
0.733080158 BH	5	15	4	2	10
0.733080158 BH	6	25	6	3	15.5
0.733080158 BH	9	19	7	2	14
0.733080158 BH	5	54	6	9	29.5
0.733080158 BH	15	73	14	13	44
0.733080158 BH	16	64	57	26	40
0.73330325 BH	3	65	18	43	34
0.733334844 BH	85	215	147	161	150
0.733595024 BH	6	17	14	12	11.5
0.733595024 BH	3	33	16	18	18
0.733595024 BH	1	15	2	1	8
0.733595024 BH	1	14	1	2	7.5
0.733595024 BH	1	15	2	1	8
0.733595024 BH	1	14	1	2	7.5
0.734152886 BH	6	25	19	13	15.5
0.734175527 BH	4	16	4	2	10
0.734175527 BH	4	16	4	2	10
0.734175527 BH	2	8	8	4	5
0.734175527 BH	4	16	4	2	10
0.734175527 BH	3	8	1	1	5.5
0.734175527 BH	7	23	7	2	15
0.734175527 BH	8	22	7	2	15
0.734356013 BH	9	10	6	1	9.5
0.734549505 BH	20	43	15	8	31.5
0.734688392 BH	1	15	1	2	8
0.734688392 BH	5	16	19	6	10.5
0.734688392 BH	5	21	6	21	13
0.734688392 BH	6	18	16	10	12
0.734688392 BH	4	33	6	4	18.5
0.734718638 BH	43	102	34	19	72.5
0.735850485 BH	11	37	33	18	24
0.73586917 BH	15	32	11	6	23.5
0.735871826 BH	645	669	316	241	657
0.735908731 BH	3	22	2	4	12.5
0.735908731 BH	23	94	29	10	58.5
0.735908731 BH	377	208	167	103	292.5
0.735908731 BH	7	10	16	7	8.5
0.735908731 BH	2	9	1	1	5.5
0.735908731 BH	2	9	1	1	5.5

0.735908731 BH	2	9	1	1	5.5
0.735908731 BH	2	10	1	1	6
0.735908731 BH	2	9	1	1	5.5
0.735908731 BH	2	10	1	1	6
0.735908731 BH	5	33	13	22	19
0.736224538 BH	3	197	126	63	100
0.736224538 BH	7	20	4	4	13.5
0.736224538 BH	2	16	18	2	9
0.736486467 BH	1	24	11	13	12.5
0.736486467 BH	2	11	4	0	6.5
0.736486467 BH	4	23	1	6	13.5
0.736486467 BH	2	29	3	4	15.5
0.736643791 BH	27	3	12	2	15
0.736933678 BH	39	40	74	30	39.5
0.736933678 BH	65	73	100	71	69
0.736933678 BH	2	31	11	20	16.5
0.736933678 BH	10	5	26	2	7.5
0.736933678 BH	1005	1131	1456	1141	1068
0.737125449 BH	8	38	38	11	23
0.737175339 BH	28	13	15	3	20.5
0.737235348 BH	6	37	5	7	21.5
0.7375617 BH	9	37	8	6	23
0.737695169 BH	22	65	18	12	43.5
0.739173295 BH	10	31	13	28	20.5
0.739254946 BH	21	57	60	25	39
0.739585534 BH	8	30	9	3	19
0.739585534 BH	6	13	1	4	9.5
0.739585534 BH	3	19	4	2	11
0.739585534 BH	3	19	4	2	11
0.739585534 BH	0	12	2	10	6
0.739707907 BH	9	37	9	5	23
0.739707907 BH	5	19	11	15	12
0.739934547 BH	2	23	5	2	12.5
0.739934547 BH	2	25	3	3	13.5
0.739970883 BH	14	21	13	0	17.5
0.740330138 BH	8	105	20	11	56.5
0.740396154 BH	18	2	9	0	10
0.740396154 BH	11	19	7	4	15
0.740396154 BH	12	21	26	13	16.5
0.740396154 BH	15	26	13	3	20.5
0.740396154 BH	11	13	13	16	12
0.740721384 BH	15	76	17	11	45.5
0.740798887 BH	6	35	6	5	20.5
0.740798887 BH	5	23	4	4	14
0.740798887 BH	17	14	4	8	15.5
0.740798887 BH	27	49	51	35	38
0.740896297 BH	21	55	45	35	38

0.741101595 BH	8	39	9	5	23.5
0.741267476 BH	5	39	14	27	22
0.741267476 BH	9	65	10	11	37
0.741267476 BH	26	168	148	44	97
0.741309206 BH	3	7	10	2	5
0.741309206 BH	11	41	12	5	26
0.741309206 BH	8	19	23	8	13.5
0.741309206 BH	15	43	7	11	29
0.741309206 BH	24	131	29	19	77.5
0.741309206 BH	8	8	17	6	8
0.741309206 BH	5	38	9	4	21.5
0.741309206 BH	17	21	28	19	19
0.741309206 BH	1	11	1	1	6
0.741309206 BH	1	11	1	1	6
0.741309206 BH	1	11	1	1	6
0.741309206 BH	1	11	1	1	6
0.741309206 BH	1	11	1	1	6
0.741309206 BH	1	11	1	1	6
0.741309206 BH	1	11	1	1	6
0.741309206 BH	1	11	1	1	6
0.741309206 BH	1	11	1	1	6
0.741309206 BH	1	11	1	1	6
0.741309206 BH	29	77	50	58	53
0.741309206 BH	28	40	8	16	34
0.742200045 BH	9	65	15	7	37
0.742329513 BH	87	147	133	125	117
0.742329513 BH	26	19	68	5	22.5
0.742329513 BH	30	25	21	3	27.5
0.742329513 BH	2	6	6	5	4
0.742329513 BH	4	26	9	19	15
0.742329513 BH	4	29	17	15	16.5
0.742329513 BH	1	12	1	1	6.5
0.742329513 BH	1	12	1	1	6.5
0.742335053 BH	1	19	9	10	10
0.742335053 BH	18	45	16	6	31.5
0.742335053 BH	5	24	3	5	14.5
0.742335053 BH	0	19	12	7	9.5
0.742335053 BH	20	135	82	61	77.5
0.742675279 BH	33	54	19	14	43.5
0.743294329 BH	12	28	14	28	20
0.74338688 BH	82	202	79	205	142
0.743569383 BH	49	45	30	10	47
0.743964288 BH	1	13	4	0	7
0.743964288 BH	0	23	2	3	11.5
0.743964288 BH	4	25	8	20	14.5
0.743964288 BH	4	25	4	4	14.5
0.743964288 BH	4	26	5	3	15
0.743964288 BH	10	76	52	28	43



0.744208355 BH	5	37	6	5	21
0.744589586 BH	3	39	3	7	21
0.744589586 BH	13	266	83	157	139.5
0.74486621 BH	9	3	20	2	6
0.744877132 BH	1	10	10	3	5.5
0.744877132 BH	2	21	4	2	11.5
0.745129163 BH	1	14	4	0	7.5
0.745129163 BH	6	35	27	14	20.5
0.745831407 BH	3	45	38	10	24
0.746150384 BH	4	55	4	11	29.5
0.746150384 BH	5	25	22	9	15
0.746508663 BH	9	47	3	12	28
0.746508663 BH	22	236	51	171	129
0.746662156 BH	3	19	1	4	11
0.747709642 BH	6	18	3	4	12
0.747709642 BH	4	8	10	5	6
0.747851467 BH	0	20	3	1	10
0.747851467 BH	1	30	3	4	15.5
0.74808765 BH	24	29	9	11	26.5
0.748145949 BH	3	14	2	3	8.5
0.748145949 BH	6	10	4	1	8
0.748145949 BH	3	4	8	3	3.5
0.748708042 BH	600	1199	325	354	899.5
0.748708042 BH	160	115	246	129	137.5
0.748708042 BH	6	27	22	11	16.5
0.74923447 BH	11	33	16	29	22
0.74956814 BH	360	640	402	655	500
0.749615716 BH	60	99	42	21	79.5
0.749615716 BH	0	16	2	1	8
0.749615716 BH	0	16	2	1	8
0.749749765 BH	1	11	0	2	6
0.749749765 BH	1	10	3	0	5.5
0.750245938 BH	23	56	21	8	39.5
0.750245938 BH	0	20	1	3	10
0.750245938 BH	0	20	1	3	10
0.750245938 BH	3	24	19	8	13.5
0.750245938 BH	12	32	6	8	22
0.750245938 BH	5	6	6	8	5.5
0.750245938 BH	5	20	3	4	12.5
0.750245938 BH	0	16	1	2	8
0.750245938 BH	0	16	1	2	8
0.750245938 BH	0	17	2	1	8.5
0.750245938 BH	0	16	1	2	8
0.750245938 BH	0	16	1	2	8
0.750245938 BH	2	18	12	9	10
0.750976216 BH	55	161	50	27	108
0.751207385 BH	22	161	30	25	91.5

0.751207385 BH	15	19	34	11	17
0.751207385 BH	6	27	5	5	16.5
0.751207385 BH	6	26	6	4	16
0.751207385 BH	61	59	94	57	60
0.751207385 BH	17	46	12	9	31.5
0.751207385 BH	0	17	1	2	8.5
0.751207385 BH	0	17	1	2	8.5
0.751207385 BH	11	18	29	7	14.5
0.751207385 BH	61	218	130	136	139.5
0.751207385 BH	3	10	5	9	6.5
0.751207385 BH	2	12	7	7	7
0.751207385 BH	5	45	7	7	25
0.751268125 BH	1	8	8	3	4.5
0.751268125 BH	3	15	4	1	9
0.751911029 BH	1	63	9	7	32
0.752019729 BH	14	50	43	23	32
0.752019729 BH	16	51	20	4	33.5
0.752650915 BH	62	49	45	4	55.5
0.752650915 BH	0	15	7	6	7.5
0.752650915 BH	13	72	41	38	42.5
0.752650915 BH	811	1654	295	593	1232.5
0.752650915 BH	2	7	9	2	4.5
0.752650915 BH	2	7	9	2	4.5
0.752650915 BH	1	16	9	7	8.5
0.752650915 BH	22	123	18	26	72.5
0.752650915 BH	12	146	21	23	79
0.752650915 BH	4	33	6	5	18.5
0.752650915 BH	2	19	10	10	10.5
0.752650915 BH	19	37	28	31	28
0.753230474 BH	16	29	8	8	22.5
0.753624361 BH	61	118	108	83	89.5
0.75399388 BH	2	17	2	3	9.5
0.75399388 BH	2	17	2	3	9.5
0.75399388 BH	2	16	2	3	9
0.75399388 BH	102	671	261	413	386.5
0.75399388 BH	4	22	3	4	13
0.754130666 BH	1	15	7	9	8
0.754130666 BH	1	22	3	3	11.5
0.754130666 BH	1	22	3	3	11.5
0.754130666 BH	7	12	6	0	9.5
0.754966289 BH	81	111	46	33	96
0.754966289 BH	35	0	8	8	17.5
0.755219258 BH	8	24	8	2	16
0.755219258 BH	8	23	8	2	15.5
0.755219258 BH	5	26	21	11	15.5
0.755219258 BH	5	38	14	24	21.5
0.755263298 BH	10	32	8	6	21

0.755263298 BH	49	179	90	124	114
0.755263298 BH	4	21	6	2	12.5
0.755274835 BH	161	123	94	38	142
0.755274835 BH	7	40	19	25	23.5
0.755364213 BH	5	15	6	0	10
0.755463557 BH	5	14	11	10	9.5
0.7557728 BH	862	1356	1107	1289	1109
0.7557728 BH	8	31	29	12	19.5
0.755827153 BH	33	103	85	51	68
0.755827153 BH	0	13	1	1	6.5
0.755827153 BH	0	13	1	1	6.5
0.755827153 BH	0	13	1	1	6.5
0.755827153 BH	0	13	1	1	6.5
0.756324189 BH	6	36	7	5	21
0.756324189 BH	5	16	7	15	10.5
0.75654653 BH	9	35	8	6	22
0.756588979 BH	1	23	4	2	12
0.757116229 BH	8	28	6	5	18
0.757163169 BH	4	35	4	6	19.5
0.757163169 BH	561	600	591	766	580.5
0.757163169 BH	9	18	6	3	13.5
0.757163169 BH	2	18	4	1	10
0.757163169 BH	2	18	4	1	10
0.757163169 BH	2	18	4	1	10
0.757163169 BH	2	18	4	1	10
0.757472226 BH	6	15	3	3	10.5
0.757472226 BH	8	73	18	6	40.5
0.757598565 BH	50	70	25	23	60
0.757877387 BH	7	87	13	13	47
0.757877387 BH	4	30	39	1	17
0.757933682 BH	2	29	4	4	15.5
0.757933682 BH	1	15	13	4	8
0.758593429 BH	2	19	16	5	10.5
0.758640962 BH	2	26	10	15	14
0.759013927 BH	4	23	20	8	13.5
0.759013927 BH	5	17	3	3	11
0.759190094 BH	4	10	2	2	7
0.759190094 BH	0	13	8	4	6.5
0.759190094 BH	4	30	5	5	17
0.759190094 BH	218	971	110	260	594.5
0.759704873 BH	2	30	5	3	16
0.760128336 BH	5	55	8	8	30
0.760128336 BH	10	23	9	3	16.5
0.760128336 BH	6	12	16	6	9
0.760467431 BH	18	48	17	7	33
0.760467431 BH	3	8	9	4	5.5
0.760467431 BH	0	15	4	9	7.5

0.760467431 BH	400	536	452	584	468
0.760467431 BH	114	505	111	97	309.5
0.760467431 BH	2	11	13	3	6.5
0.760467431 BH	3	23	6	2	13
0.760467431 BH	3	24	6	2	13.5
0.761224463 BH	3	52	9	6	27.5
0.761311191 BH	2	7	10	1	4.5
0.761340906 BH	8	38	9	5	23
0.76139845 BH	4	10	3	1	7
0.76139845 BH	4	10	3	1	7
0.76139845 BH	4	11	3	1	7.5
0.76139845 BH	4	11	3	1	7.5
0.76139845 BH	4	10	3	1	7
0.76139845 BH	10	614	91	64	312
0.761415563 BH	5	25	5	4	15
0.761415563 BH	112	345	229	210	228.5
0.761523386 BH	0	12	4	8	6
0.761739341 BH	11	48	7	11	29.5
0.761739341 BH	6	10	5	0	8
0.761739341 BH	1	18	2	3	9.5
0.761739341 BH	5	12	5	0	8.5
0.761739341 BH	1	18	2	3	9.5
0.761739341 BH	1	19	3	2	10
0.761739341 BH	31	538	90	68	284.5
0.761739341 BH	11	41	23	27	26
0.761739341 BH	3	12	3	1	7.5
0.761739341 BH	3	12	3	1	7.5
0.761739341 BH	3	12	3	1	7.5
0.761739341 BH	3	12	3	1	7.5
0.761739341 BH	13	30	22	22	21.5
0.761739341 BH	2	10	9	4	6
0.761739341 BH	6	32	5	6	19
0.761739341 BH	13	17	9	3	15
0.761739341 BH	13	18	9	3	15.5
0.761904502 BH	5	25	4	5	15
0.76274186 BH	4	15	5	0	9.5
0.76274186 BH	1	19	2	3	10
0.763083551 BH	29	82	24	16	55.5
0.763083551 BH	3	13	3	1	8
0.763226074 BH	18	40	45	19	29
0.763242061 BH	11	40	13	4	25.5
0.763242061 BH	19	79	41	50	49
0.763444264 BH	6	32	8	4	19
0.763444264 BH	5	15	17	5	10
0.763444264 BH	0	13	0	2	6.5
0.763669644 BH	17	24	11	5	20.5
0.763704681 BH	1	14	11	4	7.5

0.764146755 BH	9	21	6	5	15
0.764146755 BH	3	32	5	5	17.5
0.765512934 BH	36	39	64	29	37.5
0.766051154 BH	10	171	16	31	90.5
0.766113332 BH	9	41	7	8	25
0.766150105 BH	2	14	2	2	8
0.766241663 BH	9	57	30	30	33
0.766439574 BH	2	29	2	6	15.5
0.766917548 BH	25	7	39	14	16
0.767158616 BH	10	26	29	11	18
0.767158616 BH	12	72	55	25	42
0.767158616 BH	7	47	11	6	27
0.767158616 BH	1	20	4	1	10.5
0.767158616 BH	2	14	3	1	8
0.767158616 BH	2	14	3	1	8
0.767158616 BH	5	102	11	17	53.5
0.767158616 BH	6	55	10	7	30.5
0.767158616 BH	72	312	186	166	192
0.767158616 BH	1	35	4	5	18
0.768046234 BH	6	52	22	28	29
0.768363785 BH	5	16	6	1	10.5
0.768547374 BH	10	42	23	25	26
0.768798702 BH	2	15	3	1	8.5
0.768798702 BH	1	14	4	10	7.5
0.768798702 BH	1	14	12	3	7.5
0.768798702 BH	3	14	5	11	8.5
0.769088515 BH	6	48	16	31	27
0.769540541 BH	36	161	116	68	98.5
0.769560935 BH	1	19	10	9	10
0.769567506 BH	6	28	6	5	17
0.769813598 BH	1	12	8	5	6.5
0.770086658 BH	31	96	37	10	63.5
0.770359083 BH	689	709	825	813	699
0.770542739 BH	418	3376	161	862	1897
0.770694984 BH	47	76	36	14	61.5
0.770698292 BH	91	172	32	65	131.5
0.770698292 BH	5	42	7	7	23.5
0.770766655 BH	6	20	4	4	13
0.770766655 BH	123	114	44	59	118.5
0.770766655 BH	195	282	140	64	238.5
0.770766655 BH	9	36	8	7	22.5
0.770766655 BH	7	43	10	6	25
0.770766655 BH	4	15	14	6	9.5
0.770766655 BH	3	21	2	4	12
0.770766655 BH	4	18	6	1	11
0.772026472 BH	14	41	12	7	27.5
0.772026472 BH	5	72	10	11	38.5

0.772026472 BH	3	18	17	5	10.5
0.772026472 BH	5	43	9	5	24
0.772026472 BH	3	23	9	16	13
0.772026472 BH	5	8	6	9	6.5
0.772026472 BH	746	1440	1226	1026	1093
0.773054027 BH	17	28	34	17	22.5
0.773649883 BH	9	42	30	18	25.5
0.773649883 BH	39	312	95	18	175.5
0.773649883 BH	3	29	5	4	16
0.773779989 BH	2	15	19	1	8.5
0.773779989 BH	207	124	228	209	165.5
0.773865341 BH	6	20	3	5	13
0.774714187 BH	13	14	8	3	13.5
0.775961468 BH	1	16	2	2	8.5
0.776230711 BH	25	88	24	16	56.5
0.776230711 BH	18	66	59	23	42
0.776230711 BH	7	68	5	15	37.5
0.776422908 BH	11	30	26	16	20.5
0.77668637 BH	5	31	7	4	18
0.77668637 BH	8	15	20	7	11.5
0.77668637 BH	1521	937	594	574	1229
0.77668637 BH	74	346	54	316	210
0.77668637 BH	104	65	63	19	84.5
0.77668637 BH	4	15	3	3	9.5
0.77668637 BH	2	9	6	5	5.5
0.776695665 BH	15	34	10	8	24.5
0.776889486 BH	12	84	20	10	48
0.776889486 BH	18	42	12	10	30
0.776889486 BH	0	25	3	3	12.5
0.776889486 BH	2	13	10	6	7.5
0.776889486 BH	2	14	9	6	8
0.776889486 BH	0	17	12	5	8.5
0.776889486 BH	2	22	5	2	12
0.776889486 BH	8	21	6	4	14.5
0.776889486 BH	35	75	64	49	55
0.776889486 BH	13	25	8	6	19
0.776889486 BH	9	18	25	7	13.5
0.776889486 BH	7	33	7	5	20
0.776889486 BH	4	19	11	10	11.5
0.776889486 BH	15	17	31	9	16
0.776889486 BH	2	9	7	4	5.5
0.776889486 BH	1	16	3	1	8.5
0.776889486 BH	1	16	3	1	8.5
0.776889486 BH	1	16	3	1	8.5
0.776889486 BH	39	73	31	14	56
0.778614458 BH	106	274	232	145	190
0.778633803 BH	10	31	8	6	20.5

0.778633803 BH	12	28	9	5	20
0.778682318 BH	4	10	0	4	7
0.778712886 BH	10	171	15	33	90.5
0.778753457 BH	6	10	17	4	8
0.778812925 BH	620	780	782	769	700
0.779209787 BH	19	37	19	3	28
0.779209787 BH	11	54	18	4	32.5
0.779209787 BH	7	5	15	3	6
0.779438279 BH	26	60	19	13	43
0.779523759 BH	0	82	12	58	41
0.779523759 BH	10	17	7	3	13.5
0.779523759 BH	1	16	1	3	8.5
0.779523759 BH	1	19	16	4	10
0.779523759 BH	3	16	3	3	9.5
0.779523759 BH	3	17	3	3	10
0.779523759 BH	3	23	22	5	13
0.779523759 BH	5	73	17	5	39
0.779523759 BH	4	47	13	30	25.5
0.779523759 BH	32	386	72	52	209
0.779523759 BH	98	243	156	174	170.5
0.780192645 BH	26	134	19	32	80
0.780830608 BH	48	42	72	40	45
0.781031391 BH	5	14	5	1	9.5
0.781031391 BH	3	17	4	2	10
0.781031391 BH	2	8	9	3	5
0.781439577 BH	530	1454	891	984	992
0.78165785 BH	2	19	8	11	10.5
0.78165785 BH	3	20	12	10	11.5
0.782159371 BH	2	32	5	4	17
0.782917405 BH	4	15	5	1	9.5
0.783219419 BH	46	94	33	23	70
0.783263906 BH	12	10	18	11	11
0.783812628 BH	12	23	28	11	17.5
0.784081106 BH	5	15	12	8	10
0.784087529 BH	29	74	31	9	51.5
0.784307235 BH	21	62	19	11	41.5
0.784307235 BH	1	11	6	5	6
0.784307235 BH	1	10	8	4	5.5
0.784307235 BH	1	10	8	4	5.5
0.784647388 BH	5	27	6	4	16
0.785122194 BH	29	92	27	17	60.5
0.785287954 BH	23	56	23	7	39.5
0.785287954 BH	9	49	4	13	29
0.785287954 BH	7	32	11	24	19.5
0.785422134 BH	47	127	30	34	87
0.785441452 BH	17	37	14	6	27
0.78547663 BH	17	41	14	8	29

0.785497237 BH	9	78	13	13	43.5
0.785548993 BH	11	48	22	31	29.5
0.785548993 BH	3	41	12	26	22
0.785556975 BH	20	15	11	4	17.5
0.78618731 BH	2	11	2	1	6.5
0.78618731 BH	2	11	2	1	6.5
0.786826982 BH	3	34	7	4	18.5
0.786912995 BH	21	117	24	21	69
0.787060574 BH	2	19	3	3	10.5
0.787060574 BH	2	19	3	3	10.5
0.787196144 BH	41	52	24	16	46.5
0.787196144 BH	5	61	15	5	33
0.787776778 BH	5	11	15	4	8
0.787799309 BH	0	26	1	4	13
0.787799309 BH	31	73	66	39	52
0.787799309 BH	17	27	8	9	22
0.787799309 BH	50	380	73	63	215
0.787799309 BH	9	52	16	37	30.5
0.787799309 BH	3	18	5	1	10.5
0.787799309 BH	1	10	9	3	5.5
0.787799309 BH	6	17	20	6	11.5
0.787799309 BH	2	11	1	2	6.5
0.787799309 BH	2	11	1	2	6.5
0.787799309 BH	13	16	8	4	14.5
0.787799309 BH	7	30	6	5	18.5
0.787799309 BH	7	29	5	6	18
0.787799309 BH	18	92	21	15	55
0.787799309 BH	861	805	983	964	833
0.788737432 BH	22	44	37	31	33
0.78876788 BH	0	14	8	5	7
0.78876788 BH	0	14	8	5	7
0.78876788 BH	5	17	7	0	11
0.78876788 BH	138	188	273	102	163
0.789454264 BH	38	79	30	17	58.5
0.789494214 BH	14	25	32	12	19.5
0.789580715 BH	8	8	14	7	8
0.789633947 BH	7	64	11	10	35.5
0.789746524 BH	22	48	54	20	35
0.789802313 BH	5	18	6	2	11.5
0.790890119 BH	18	72	39	43	45
0.791550034 BH	6	29	8	4	17.5
0.791550034 BH	7	29	4	7	18
0.791550034 BH	30	37	51	27	33.5
0.791550034 BH	8	39	27	16	23.5
0.791713768 BH	15	34	33	18	24.5
0.791713768 BH	5	23	10	16	14
0.791713768 BH	4	25	16	11	14.5



0.791795274 BH	14	40	28	24	27
0.791795274 BH	13	27	9	6	20
0.791850456 BH	24	0	34	13	12
0.792394892 BH	10	14	5	4	12
0.792851076 BH	347	1519	452	221	933
0.792851076 BH	66	145	51	33	105.5
0.792851076 BH	4	38	5	7	21
0.792943238 BH	8	13	21	5	10.5
0.793358042 BH	0	60	13	2	30
0.793510022 BH	0	18	2	2	9
0.793510022 BH	5	46	5	9	25.5
0.793510022 BH	7	63	40	22	35
0.793521373 BH	18	34	35	21	26
0.793521373 BH	1	13	2	1	7
0.793521373 BH	1	13	2	1	7
0.793521373 BH	1	13	2	1	7
0.793521373 BH	1	13	2	1	7
0.793521373 BH	1	13	2	1	7
0.793521373 BH	25	450	91	49	237.5
0.794125362 BH	11	82	31	47	46.5
0.794125362 BH	15	12	5	6	13.5
0.794575638 BH	50	84	78	62	67
0.794586634 BH	18	51	33	33	34.5
0.794586634 BH	1	13	1	2	7
0.794586634 BH	1	13	1	2	7
0.794586634 BH	1	13	1	2	7
0.794586634 BH	1	13	1	2	7
0.794643146 BH	40	295	116	160	167.5
0.79472169 BH	3	13	8	8	8
0.795149148 BH	271	347	258	401	309
0.79515169 BH	26	49	14	15	37.5
0.795378376 BH	0	18	3	1	9
0.795378376 BH	0	18	3	1	9
0.795445321 BH	10	41	13	5	25.5
0.795772058 BH	79	602	159	67	340.5
0.795772494 BH	65	1922	220	311	993.5
0.795772494 BH	10	47	11	8	28.5
0.79639023 BH	10	27	11	3	18.5
0.79639023 BH	19	20	37	12	19.5
0.79639023 BH	4	12	3	2	8
0.79639023 BH	0	19	3	1	9.5
0.79639023 BH	3	23	3	4	13
0.79639023 BH	11	36	8	8	23.5
0.79639023 BH	1	21	3	3	11
0.79639023 BH	1	21	3	3	11
0.79639023 BH	1	21	3	3	11
0.796768123 BH	10	31	13	2	20.5

0.796844351 BH	4	30	8	2	17
0.797002223 BH	7	26	24	9	16.5
0.797002223 BH	7	24	6	5	15.5
0.797002223 BH	7	24	6	5	15.5
0.797002223 BH	8	19	7	2	13.5
0.797002223 BH	6	8	3	2	7
0.797002223 BH	67	280	135	168	173.5
0.797002223 BH	57	123	99	79	90
0.797002223 BH	7	100	17	14	53.5
0.797002223 BH	10	60	7	14	35
0.797002223 BH	1	13	8	6	7
0.797002223 BH	1	13	8	6	7
0.797424723 BH	12	22	38	4	17
0.797424723 BH	241	316	107	132	278.5
0.797424723 BH	5	66	43	19	35.5
0.79769145 BH	14	11	11	0	12.5
0.797936343 BH	805	437	263	341	621
0.797936343 BH	3	14	3	2	8.5
0.797936343 BH	7	29	14	20	18
0.798111784 BH	3	27	18	10	15
0.79848814 BH	7	10	6	0	8.5
0.798881428 BH	28	207	72	1	117.5
0.79920801 BH	4	16	18	4	10
0.799529344 BH	4	12	4	1	8
0.799657539 BH	13	69	20	8	41
0.800056646 BH	9	26	6	6	17.5
0.800146667 BH	3	9	13	2	6
0.800146667 BH	4	14	2	16	9
0.801223739 BH	48	136	32	37	92
0.801372188 BH	18	61	34	39	39.5
0.801372188 BH	10	79	33	41	44.5
0.801652084 BH	2	15	7	9	8.5
0.801652084 BH	4	26	6	3	15
0.801652084 BH	0	12	5	6	6
0.80168 BH	137	1105	180	212	621
0.802478511 BH	3	14	4	1	8.5
0.802478511 BH	3	14	4	1	8.5
0.802827057 BH	10	38	25	19	24
0.802827057 BH	8	5	16	3	6.5
0.802844764 BH	0	40	10	0	20
0.803186975 BH	2	26	4	3	14
0.803186975 BH	0	14	12	2	7
0.803186975 BH	24	93	23	19	58.5
0.803186975 BH	330	64	171	49	197
0.803186975 BH	5	28	6	5	16.5
0.803186975 BH	8	27	9	4	17.5
0.803943921 BH	6	17	15	9	11.5

0.804693502 BH	0	26	17	7	13
0.804888399 BH	2	25	3	4	13.5
0.804888399 BH	2	25	3	4	13.5
0.80497598 BH	632	2083	584	443	1357.5
0.805531676 BH	145	254	120	53	199.5
0.805734058 BH	3	8	5	7	5.5
0.806158984 BH	30	176	111	67	103
0.806158984 BH	0	12	9	3	6
0.806258677 BH	7	47	34	15	27
0.806258677 BH	12	57	19	5	34.5
0.807017148 BH	10	33	23	17	21.5
0.80741454 BH	6	14	2	4	10
0.807504862 BH	0	12	0	11	6
0.807504862 BH	16	75	22	10	45.5
0.807504862 BH	0	23	5	0	11.5
0.807504862 BH	32	21	12	12	26.5
0.808169965 BH	8	4	3	2	6
0.808169965 BH	3	28	6	3	15.5
0.808339418 BH	12	40	21	27	26
0.808718008 BH	8	9	5	2	8.5
0.808718008 BH	2	10	5	7	6
0.809004259 BH	9	6	6	0	7.5
0.809004259 BH	9	6	6	0	7.5
0.809119696 BH	67	83	118	52	75
0.809424559 BH	2	16	4	1	9
0.810407731 BH	13	33	29	17	23
0.810432176 BH	4	47	11	30	25.5
0.810919175 BH	34	114	40	16	74
0.811260213 BH	9	13	4	4	11
0.811351773 BH	0	15	2	1	7.5
0.812245765 BH	6	109	13	18	57.5
0.812557263 BH	0	12	10	2	6
0.81275811 BH	177	86	79	56	131.5
0.81275811 BH	0	15	1	2	7.5
0.81275811 BH	0	15	1	2	7.5
0.81291645 BH	5	21	5	3	13
0.812988765 BH	8	160	25	23	84
0.812988765 BH	20	116	67	50	68
0.813939323 BH	513	401	556	525	457
0.814001223 BH	40	12	81	6	26
0.814348823 BH	18	45	14	10	31.5
0.814535093 BH	65	190	47	50	127.5
0.814719195 BH	4	7	14	1	5.5
0.814968655 BH	44	92	28	27	68
0.815311128 BH	5	15	6	1	10
0.815475143 BH	422	444	394	550	433
0.815983153 BH	35	101	26	25	68

0.816014317 BH	8	22	26	6	15
0.816487829 BH	769	1375	571	357	1072
0.816500822 BH	78	767	241	421	422.5
0.817186823 BH	6	9	5	0	7.5
0.817186823 BH	5	11	5	0	8
0.817386104 BH	11	44	32	19	27.5
0.818924816 BH	4	17	6	1	10.5
0.81894625 BH	6	8	5	0	7
0.81894625 BH	0	29	10	15	14.5
0.818960106 BH	7	41	10	6	24
0.818960106 BH	23	83	61	36	53
0.819485087 BH	7	8	17	3	7.5
0.81965676 BH	10	147	23	23	78.5
0.820502898 BH	197	362	300	253	279.5
0.820502898 BH	8	29	29	8	18.5
0.820505547 BH	5	34	11	1	19.5
0.821021168 BH	11	26	32	8	18.5
0.821326101 BH	4	32	3	7	18
0.821572546 BH	9	29	8	5	19
0.821794589 BH	45	84	69	59	64.5
0.821794589 BH	3	14	5	0	8.5
0.821944263 BH	37	44	85	14	40.5
0.821944263 BH	11	38	14	4	24.5
0.822167713 BH	12	87	25	55	49.5
0.822754594 BH	22	20	48	8	21
0.823112187 BH	2	13	5	9	7.5
0.823112187 BH	0	11	7	3	5.5
0.823112187 BH	0	11	7	3	5.5
0.823750514 BH	2	30	7	2	16
0.825309837 BH	2	21	2	4	11.5
0.825309837 BH	5	4	11	2	4.5
0.825553305 BH	9	80	21	8	44.5
0.826705352 BH	48	203	70	23	125.5
0.826705352 BH	37	95	25	26	66
0.826705352 BH	27	90	21	22	58.5
0.826705352 BH	1	10	1	1	5.5
0.826705352 BH	1	10	1	1	5.5
0.826705352 BH	1	10	1	1	5.5
0.826705352 BH	1	10	1	1	5.5
0.826705352 BH	1	10	1	1	5.5
0.826916909 BH	6	24	8	2	15
0.827980444 BH	17	38	15	7	27.5
0.828020795 BH	10	34	32	11	22
0.82929816 BH	4	9	2	2	6.5
0.82975905 BH	0	15	0	3	7.5
0.830194023 BH	5	53	18	29	29
0.830946151 BH	3	11	2	2	7

0.831862526 BH	12	45	16	34	28.5
0.831979124 BH	5	50	14	30	27.5
0.832464865 BH	6	52	14	32	29
0.832464865 BH	4	9	3	1	6.5
0.833077593 BH	2	17	13	5	9.5
0.833159669 BH	21	170	72	82	95.5
0.83356027 BH	20	241	115	93	130.5
0.83356027 BH	1	12	11	2	6.5
0.83356027 BH	5	28	17	13	16.5
0.83356027 BH	3	11	3	1	7
0.83356027 BH	5	7	3	1	6
0.83356027 BH	3	76	9	12	39.5
0.83356027 BH	1	16	10	5	8.5
0.833756856 BH	3	6	7	4	4.5
0.833785875 BH	16	21	15	1	18.5
0.833814708 BH	33	81	76	35	57
0.834156425 BH	7	190	21	34	98.5
0.834486436 BH	6	34	5	8	20
0.83489148 BH	2	8	7	4	5
0.83489148 BH	6	16	4	3	11
0.83489148 BH	1	10	0	2	5.5
0.83489148 BH	1	10	0	2	5.5
0.83489148 BH	1	10	0	2	5.5
0.83489148 BH	1	10	0	2	5.5
0.83489148 BH	7	43	8	8	25
0.835165074 BH	8	16	5	4	12
0.835298991 BH	5	26	2	7	15.5
0.836244025 BH	105	70	179	50	87.5
0.836244025 BH	1	16	5	9	8.5
0.836244025 BH	5	13	11	7	9
0.836244025 BH	3	10	8	5	6.5
0.836244025 BH	488	996	378	988	742
0.836244025 BH	23	73	26	59	48
0.836244025 BH	261	1431	195	372	846
0.836272733 BH	22	36	30	30	29
0.836272733 BH	23	13	13	5	18
0.836272733 BH	20	52	26	41	36
0.836933188 BH	7	12	7	0	9.5
0.837712121 BH	21	134	29	23	77.5
0.837858876 BH	2	13	3	1	7.5
0.837858876 BH	2	13	3	1	7.5
0.838071316 BH	11	31	10	6	21
0.838567988 BH	8	10	7	0	9
0.838660551 BH	5	16	13	8	10.5
0.838660551 BH	2	8	8	3	5
0.838697561 BH	1	18	5	0	9.5
0.839399405 BH	1219	1768	865	509	1493.5

0.839639309 BH	37	335	101	185	186
0.839639309 BH	14	198	0	50	106
0.839639309 BH	5	12	5	1	8.5
0.839639309 BH	3	4	11	0	3.5
0.839639309 BH	0	11	1	1	5.5
0.839639309 BH	0	11	1	1	5.5
0.839639309 BH	0	11	1	1	5.5
0.839639309 BH	0	11	1	1	5.5
0.839639309 BH	0	11	1	1	5.5
0.83965183 BH	20	66	51	28	43
0.83965183 BH	8	24	21	10	16
0.83965183 BH	29	56	35	48	42.5
0.83965183 BH	2	11	8	5	6.5
0.83965183 BH	2	11	6	7	6.5
0.840599271 BH	24	68	47	39	46
0.840599271 BH	1	19	8	9	10
0.840647086 BH	0	29	4	3	14.5
0.840688571 BH	2	31	15	14	16.5
0.840830573 BH	47	200	61	31	123.5
0.840830573 BH	20	72	22	12	46
0.840830573 BH	5	16	15	6	10.5
0.840832232 BH	28	67	72	24	47.5
0.840832812 BH	2	20	16	5	11
0.840832812 BH	10	61	23	36	35.5
0.840832812 BH	0	12	1	1	6
0.840832812 BH	0	12	1	1	6
0.840832812 BH	0	12	1	1	6
0.840913897 BH	14	20	10	4	17
0.840913897 BH	42	6	13	13	24
0.840913897 BH	373	370	374	430	371.5
0.840913897 BH	9	8	7	0	8.5
0.840913897 BH	1	10	7	4	5.5
0.841111913 BH	63	559	75	122	311
0.841111913 BH	4	30	22	9	17
0.841602625 BH	21	62	12	61	41.5
0.842418783 BH	3	147	16	24	75
0.842418783 BH	4	21	12	11	12.5
0.842418783 BH	19	77	35	48	48
0.842418783 BH	40	19	1	24	29.5
0.84271074 BH	25	126	71	56	75.5
0.84283384 BH	3	44	4	9	23.5
0.84283384 BH	1	51	11	3	26
0.842905693 BH	3	22	4	3	12.5
0.84382691 BH	3	16	13	6	9.5
0.84382691 BH	3	13	12	4	8
0.84480254 BH	3	21	3	4	12
0.844916108 BH	1	15	3	1	8

0.844916108 BH	1	15	3	1	8
0.845279314 BH	1284	579	625	392	931.5
0.845517174 BH	19	21	18	0	20
0.846109011 BH	29	99	77	40	64
0.846307604 BH	1	29	5	3	15
0.846929824 BH	21	528	65	93	274.5
0.847092216 BH	45	238	34	62	141.5
0.847253257 BH	1	19	3	15	10
0.847253257 BH	75	291	111	33	183
0.847293774 BH	27	60	19	16	43.5
0.847342293 BH	2	32	3	6	17
0.847342293 BH	2	37	16	15	19.5
0.847570211 BH	5	17	7	1	11
0.848320742 BH	6	85	18	51	45.5
0.848320742 BH	25	46	11	17	35.5
0.848320742 BH	0	11	0	2	5.5
0.848401797 BH	12	0	24	1	6
0.848401797 BH	3	26	5	4	14.5
0.848504459 BH	44	113	49	16	78.5
0.84868999 BH	1	14	7	6	7.5
0.84868999 BH	1	14	7	6	7.5
0.84868999 BH	1	13	6	7	7
0.84890125 BH	0	12	0	2	6
0.84890125 BH	0	12	0	2	6
0.84890125 BH	0	12	0	2	6
0.849738379 BH	3	26	4	5	14.5
0.849785955 BH	12	13	9	2	12.5
0.849785955 BH	36	91	25	25	63.5
0.850170807 BH	0	17	8	7	8.5
0.850199283 BH	40	203	63	130	121.5
0.850246163 BH	19	25	5	13	22
0.85036548 BH	2	22	7	0	12
0.85036548 BH	9	35	4	11	22
0.85036548 BH	25	11	12	6	18
0.85036548 BH	6	11	16	3	8.5
0.85036548 BH	6	11	16	3	8.5
0.85036548 BH	13	11	3	7	12
0.85036548 BH	21	17	41	8	19
0.85036548 BH	8	11	1	6	9.5
0.85036548 BH	2	23	3	4	12.5
0.85036548 BH	2	24	4	3	13
0.85036548 BH	6	69	44	18	37.5
0.85036548 BH	16	139	50	0	77.5
0.85036548 BH	6	4	15	1	5
0.85036548 BH	7	1	13	3	4
0.85036548 BH	1344	347	469	1780	845.5
0.851189718 BH	10	55	20	33	32.5

0.851189718 BH	4	35	6	6	19.5
0.851189718 BH	7	18	9	1	12.5
0.851189718 BH	1	22	16	5	11.5
0.851189718 BH	10	24	8	5	17
0.851189718 BH	7	13	10	11	10
0.851471286 BH	27	126	71	57	76.5
0.851471286 BH	11	55	14	9	33
0.851745372 BH	41	109	55	77	75
0.85277058 BH	184	153	218	164	168.5
0.85277058 BH	9	14	9	1	11.5
0.85277058 BH	2	31	10	16	16.5
0.85277058 BH	21	56	21	10	38.5
0.853625972 BH	627	370	324	208	498.5
0.853789657 BH	107	354	221	178	230.5
0.853789657 BH	13	27	19	20	20
0.854428935 BH	30	102	51	63	66
0.854716572 BH	2	43	7	6	22.5
0.85474335 BH	17	80	25	10	48.5
0.854984136 BH	33	26	27	2	29.5
0.855049147 BH	26	105	56	54	65.5
0.855189659 BH	58	201	91	126	129.5
0.855189659 BH	9	40	36	9	24.5
0.855189659 BH	6	101	15	17	53.5
0.855189659 BH	5	25	18	9	15
0.855189659 BH	7	25	5	6	16
0.855189659 BH	7	20	6	4	13.5
0.855189659 BH	2	22	15	6	12
0.855189659 BH	1	19	3	13	10
0.855189659 BH	3	32	4	6	17.5
0.855189659 BH	14	10	9	2	12
0.855189659 BH	2	18	15	4	10
0.855189659 BH	8	54	16	5	31
0.855189659 BH	20	32	12	10	26
0.855189659 BH	4	24	27	2	14
0.85523588 BH	20	174	14	45	97
0.85523588 BH	19	97	36	57	58
0.85523588 BH	43	354	87	50	198.5
0.855351728 BH	18	95	24	16	56.5
0.855351728 BH	5	29	18	11	17
0.855562086 BH	4	41	9	5	22.5
0.856186979 BH	4	4	14	0	4
0.856186979 BH	0	26	2	4	13
0.856418221 BH	0	9	11	0	4.5
0.856418221 BH	0	9	11	0	4.5
0.856418221 BH	40	224	120	95	132
0.856418221 BH	11	52	23	30	31.5
0.856418221 BH	39	35	17	17	37



0.856418221 BH	11	9	15	9	10
0.856418221 BH	4	24	15	9	14
0.856418221 BH	5	28	12	16	16.5
0.856418221 BH	5	120	36	58	62.5
0.856877478 BH	46	0	26	0	23
0.85690441 BH	8	38	20	19	23
0.85690441 BH	9	26	11	1	17.5
0.85690441 BH	0	21	9	8	10.5
0.856924119 BH	4	20	15	7	12
0.856924119 BH	0	17	2	2	8.5
0.856924119 BH	0	17	2	2	8.5
0.857008823 BH	36	27	24	7	31.5
0.857162725 BH	1	20	5	1	10.5
0.8573304 BH	31	60	25	14	45.5
0.85802004 BH	4	58	4	14	31
0.85803973 BH	7	20	3	6	13.5
0.858102976 BH	6	32	12	21	19
0.858102976 BH	5	34	14	19	19.5
0.85825088 BH	3	12	9	5	7.5
0.85825088 BH	36	38	72	16	37
0.85825088 BH	2	29	17	9	15.5
0.858702844 BH	12	46	33	18	29
0.858702844 BH	1	25	4	3	13
0.858702844 BH	38	48	29	12	43
0.858702844 BH	0	17	3	1	8.5
0.858702844 BH	0	17	3	1	8.5
0.858702844 BH	0	17	3	1	8.5
0.859785413 BH	6	46	19	24	26
0.859785413 BH	13	79	19	13	46
0.859785413 BH	7	53	12	7	30
0.859785413 BH	1	25	3	4	13
0.859785413 BH	30	136	14	42	83
0.859785413 BH	13	29	27	14	21
0.859785413 BH	21	43	12	13	32
0.859785413 BH	167	48	88	37	107.5
0.859880196 BH	130	152	160	133	141
0.859880196 BH	35	51	17	21	43
0.859880196 BH	7	20	8	2	13.5
0.859960644 BH	6	12	16	4	9
0.860087351 BH	4	21	4	4	12.5
0.860196173 BH	14	45	31	23	29.5
0.860196173 BH	16	23	14	3	19.5
0.860196173 BH	16	40	18	33	28
0.860315472 BH	21	87	24	16	54
0.861020963 BH	11	29	25	14	20
0.86151376 BH	12	54	17	7	33
0.86151376 BH	19	59	47	24	39

0.862255917 BH	10	53	24	28	31.5
0.862402978 BH	7	10	2	4	8.5
0.862657081 BH	10	2	5	1	6
0.862657081 BH	102	85	36	55	93.5
0.862961009 BH	5	5	5	9	5
0.864802372 BH	2	17	7	9	9.5
0.864849677 BH	0	30	10	13	15
0.864849677 BH	5	82	20	44	43.5
0.864951336 BH	10	4	18	4	7
0.865165184 BH	78	1039	301	79	558.5
0.865686967 BH	4	36	13	20	20
0.865686967 BH	27	59	23	14	43
0.865763818 BH	17	92	70	25	54.5
0.866006156 BH	5	32	16	16	18.5
0.866006156 BH	1	27	11	12	14
0.866006156 BH	6	44	33	10	25
0.866006156 BH	15	9	7	4	12
0.866006156 BH	2	39	5	7	20.5
0.866006156 BH	4	36	2	9	20
0.866254499 BH	4	11	4	1	7.5
0.866254499 BH	4	11	4	1	7.5
0.866296549 BH	0	11	2	8	5.5
0.866296549 BH	13	7	1	7	10
0.866646437 BH	8	55	6	14	31.5
0.867352911 BH	3	8	2	1	5.5
0.867953253 BH	98	375	118	69	236.5
0.868082209 BH	2	23	14	8	12.5
0.868575002 BH	15	78	20	14	46.5
0.868575002 BH	17	74	23	11	45.5
0.868611927 BH	12	38	16	4	25
0.868611927 BH	2	14	3	2	8
0.868611927 BH	7	10	17	3	8.5
0.868611927 BH	7	12	13	7	9.5
0.868611927 BH	10	21	5	7	15.5
0.869073118 BH	2	9	2	1	5.5
0.869073118 BH	2	9	2	1	5.5
0.869073118 BH	2	9	2	1	5.5
0.869073118 BH	606	814	609	775	710
0.869316338 BH	8	62	15	9	35
0.869316338 BH	2	13	12	3	7.5
0.869316338 BH	54	65	38	19	59.5
0.869316338 BH	1	25	7	1	13
0.869316338 BH	1	20	16	3	10.5
0.869316338 BH	4	27	12	15	15.5
0.869316338 BH	20	42	23	4	31
0.869316338 BH	22	55	19	12	38.5
0.869316338 BH	15	285	51	43	150

0.869316338 BH	22	14	16	2	18
0.869316338 BH	2	9	1	2	5.5
0.869737563 BH	4	25	11	13	14.5
0.869930909 BH	38	47	28	12	42.5
0.870898495 BH	8	21	19	10	14.5
0.870898495 BH	13	32	12	6	22.5
0.870898495 BH	11	36	10	8	23.5
0.87106036 BH	5	52	28	17	28.5
0.871997922 BH	5	67	13	10	36
0.872442735 BH	10	19	11	1	14.5
0.872442735 BH	6	29	6	6	17.5
0.872442735 BH	9	77	49	21	43
0.872511923 BH	8	22	20	9	15
0.872511923 BH	2	14	4	1	8
0.872890488 BH	12	22	18	16	17
0.872909746 BH	10	107	16	21	58.5
0.872909746 BH	14	6	7	3	10
0.872909746 BH	4	11	16	2	7.5
0.873227876 BH	1117	946	501	547	1031.5
0.873323293 BH	14	70	21	10	42
0.873323293 BH	2	19	5	13	10.5
0.873443059 BH	6	33	14	18	19.5
0.87377285 BH	13	33	13	5	23
0.87377285 BH	0	21	3	13	10.5
0.87377285 BH	3	28	8	2	15.5
0.87377285 BH	2	30	6	4	16
0.87377285 BH	2	30	5	5	16
0.87377285 BH	8	20	8	3	14
0.87377285 BH	11	192	61	87	101.5
0.87377285 BH	1	11	2	1	6
0.87377285 BH	1	11	2	1	6
0.87377285 BH	1	11	2	1	6
0.873920816 BH	15	17	28	9	16
0.873920816 BH	12	15	11	1	13.5
0.874079215 BH	8	48	20	25	28
0.874404369 BH	2	25	3	5	13.5
0.874404369 BH	24	28	34	22	26
0.874404369 BH	1	11	1	2	6
0.874404369 BH	1	11	1	2	6
0.874404369 BH	1	11	1	2	6
0.874547602 BH	59	0	3	26	29.5
0.874553783 BH	4	13	13	5	8.5
0.874833581 BH	41	19	23	10	30
0.875511136 BH	4	63	5	14	33.5
0.875639593 BH	11	5	8	0	8
0.875695974 BH	27	34	15	12	30.5
0.875775117 BH	8	3	2	2	5.5

0.876007823 BH	3	16	12	6	9.5
0.876698463 BH	5	39	17	18	22
0.876698463 BH	3	44	11	4	23.5
0.876698463 BH	4	11	10	5	7.5
0.877157422 BH	5	48	7	9	26.5
0.877157422 BH	15	29	14	4	22
0.877157422 BH	17	135	60	56	76
0.877186719 BH	30	69	20	21	49.5
0.877939295 BH	4	41	14	1	22.5
0.877996859 BH	5	9	5	0	7
0.877996859 BH	46	135	31	41	90.5
0.877996859 BH	5	37	10	4	21
0.877996859 BH	9	44	21	23	26.5
0.878283782 BH	13	9	9	1	11
0.878458258 BH	22	74	24	14	48
0.878458258 BH	5	26	8	3	15.5
0.878458258 BH	15	51	19	36	33
0.878458258 BH	7	29	17	14	18
0.878458258 BH	1	16	4	1	8.5
0.878458258 BH	1	16	4	1	8.5
0.878458258 BH	118	400	136	281	259
0.878458258 BH	3	13	10	5	8
0.878458258 BH	2	9	0	3	5.5
0.878458258 BH	9	31	6	8	20
0.878458258 BH	124	1439	765	419	781.5
0.878458258 BH	14	56	12	13	35
0.878458258 BH	3	14	2	13	8.5
0.878458258 BH	2	15	16	2	8.5
0.878458258 BH	82	86	41	41	84
0.878458258 BH	11	21	7	6	16
0.878501118 BH	89	53	58	21	71
0.878785727 BH	30	44	40	33	37
0.878824988 BH	1	17	4	1	9
0.878824988 BH	3	13	5	0	8
0.879155292 BH	7	17	7	2	12
0.879194647 BH	11	49	16	7	30
0.880072547 BH	4	33	25	6	18.5
0.880072547 BH	14	54	43	18	34
0.880072547 BH	8	95	27	50	51.5
0.880072547 BH	11	11	22	4	11
0.880072547 BH	2	28	14	11	15
0.88011253 BH	5	4	15	0	4.5
0.88011253 BH	34	91	36	17	62.5
0.880375597 BH	2	22	13	7	12
0.880375597 BH	13	15	11	2	14
0.880528212 BH	2	26	11	11	14
0.880588824 BH	10	107	10	26	58.5

0.880762597 BH	5	12	15	3	8.5
0.880762597 BH	4	36	23	11	20
0.880762597 BH	23	68	36	42	45.5
0.880762597 BH	5	15	4	3	10
0.880762597 BH	5	16	4	3	10.5
0.880762597 BH	28	167	168	10	97.5
0.880777874 BH	18	49	15	12	33.5
0.880777874 BH	72	192	46	62	132
0.88112204 BH	122	239	76	84	180.5
0.881729795 BH	61	62	40	22	61.5
0.882107973 BH	5	16	3	4	10.5
0.882384316 BH	8	38	5	10	23
0.882581818 BH	21	54	20	12	37.5
0.882631796 BH	28	97	49	54	62.5
0.882631796 BH	16	59	19	10	37.5
0.883459844 BH	7	11	6	2	9
0.883800953 BH	104	65	67	27	84.5
0.884265243 BH	11	88	25	49	49.5
0.884286371 BH	3	36	6	6	19.5
0.884417495 BH	6	53	8	11	29.5
0.884787919 BH	5	18	15	6	11.5
0.884787919 BH	2	67	6	13	34.5
0.884787919 BH	2	25	1	6	13.5
0.884835881 BH	6	27	12	16	16.5
0.884835881 BH	50	113	86	61	81.5
0.884835881 BH	0	13	2	1	6.5
0.884835881 BH	0	13	2	1	6.5
0.884835881 BH	0	13	2	1	6.5
0.884835881 BH	0	13	2	1	6.5
0.884835881 BH	0	13	2	1	6.5
0.88526274 BH	2	11	9	4	6.5
0.88526274 BH	5	15	2	5	10
0.88526274 BH	3	8	10	3	5.5
0.885486192 BH	12	19	10	3	15.5
0.885720617 BH	7	35	21	14	21
0.885720617 BH	671	779	660	771	725
0.885720617 BH	11	28	9	6	19.5
0.885720617 BH	33	15	26	0	24
0.885887403 BH	30	97	58	48	63.5
0.885887403 BH	0	14	2	1	7
0.885887403 BH	0	13	1	2	6.5
0.885887403 BH	0	13	1	2	6.5
0.885887403 BH	0	14	2	1	7
0.885887403 BH	0	14	2	1	7
0.885887403 BH	0	14	2	1	7
0.885887403 BH	0	14	2	1	7
0.885887403 BH	0	13	1	2	6.5
0.885887403 BH	0	13	1	2	6.5

0.88590182 BH	3	20	12	9	11.5
0.88590182 BH	4	16	10	8	10
0.886165665 BH	638	82	425	38	360
0.886165665 BH	47	155	43	38	101
0.886165665 BH	6	21	14	10	13.5
0.886165665 BH	38	42	55	29	40
0.886165665 BH	2	10	10	3	6
0.886165665 BH	0	16	11	4	8
0.886165665 BH	2	52	12	27	27
0.886165665 BH	141	492	145	114	316.5
0.886165665 BH	0	22	6	0	11
0.886165665 BH	19	59	12	18	39
0.886165665 BH	2	13	13	3	7.5
0.886165665 BH	2	13	13	3	7.5
0.886165665 BH	21	37	36	20	29
0.886165665 BH	19	48	17	11	33.5
0.886165665 BH	12	13	6	5	12.5
0.886320196 BH	14	29	17	1	21.5
0.886320196 BH	11	39	15	4	25
0.886320196 BH	25	102	43	59	63.5
0.886320196 BH	9	88	21	12	48.5
0.886320196 BH	0	20	11	6	10
0.88635632 BH	24	51	15	16	37.5
0.88635632 BH	17	41	11	12	29
0.886743069 BH	2	26	6	15	14
0.886860944 BH	2	24	21	2	13
0.887259174 BH	18	28	35	13	23
0.887852066 BH	1	24	11	9	12.5
0.887852066 BH	5	10	4	2	7.5
0.887977774 BH	11	28	24	12	19.5
0.888123842 BH	1	20	12	6	10.5
0.888123842 BH	19	6	40	0	12.5
0.888123842 BH	36	56	81	16	46
0.888166362 BH	4	16	14	5	10
0.888166362 BH	23	60	38	35	41.5
0.888166362 BH	17	76	41	34	46.5
0.888187217 BH	33	30	18	13	31.5
0.888187217 BH	6	14	1	5	10
0.888187217 BH	3	10	11	2	6.5
0.888187217 BH	1	13	6	6	7
0.888187217 BH	13	2	0	6	7.5
0.888187217 BH	12	26	12	4	19
0.888187217 BH	6	30	12	1	18
0.888196328 BH	4	46	9	7	25
0.888450053 BH	21	128	56	58	74.5
0.888450053 BH	42	60	18	28	51
0.888450053 BH	5	28	7	4	16.5

0.888450053 BH	3	17	13	6	10
0.888450053 BH	8	11	18	4	9.5
0.888450053 BH	2	78	6	16	40
0.888479251 BH	2	21	4	3	11.5
0.888479251 BH	1	12	9	4	6.5
0.888479251 BH	2	21	4	3	11.5
0.888899235 BH	9	33	11	4	21
0.888899235 BH	10	11	17	8	10.5
0.88950637 BH	20	89	20	21	54.5
0.88950637 BH	4	41	6	8	22.5
0.88950637 BH	2	22	4	3	12
0.88950637 BH	9	8	6	1	8.5
0.88950637 BH	4	17	7	1	10.5
0.88994228 BH	31	105	27	27	68
0.88994228 BH	6	117	30	11	61.5
0.890226312 BH	16	104	6	32	60
0.890386333 BH	13	18	14	0	15.5
0.890386333 BH	5	10	5	1	7.5
0.890386333 BH	5	10	5	1	7.5
0.890386333 BH	4	16	15	4	10
0.890386333 BH	11	80	39	32	45.5
0.890754272 BH	5	35	21	12	20
0.891816106 BH	12	87	37	39	49.5
0.89202189 BH	7	55	29	20	31
0.892579098 BH	4	5	13	0	4.5
0.893056931 BH	6	8	5	1	7
0.893076194 BH	6	39	9	6	22.5
0.893597144 BH	5	67	10	13	36
0.893664121 BH	0	13	0	3	6.5
0.893694544 BH	4	4	13	0	4
0.893694544 BH	6	9	12	4	7.5
0.893694544 BH	25	74	17	23	49.5
0.893694544 BH	3	14	5	1	8.5
0.893694544 BH	3	14	5	1	8.5
0.893694544 BH	8	5	3	2	6.5
0.893890174 BH	22	25	54	3	23.5
0.894484601 BH	126	1091	434	448	608.5
0.894484601 BH	867	370	611	141	618.5
0.894484601 BH	4	40	20	15	22
0.894484601 BH	8	17	8	2	12.5
0.894484601 BH	4	25	5	4	14.5
0.894484601 BH	761	786	655	879	773.5
0.894771062 BH	3	31	13	13	17
0.895647044 BH	94	605	268	252	349.5
0.895647044 BH	2	27	18	6	14.5
0.895647044 BH	7	6	5	1	6.5
0.895647044 BH	4	25	4	5	14.5

0.895647044 BH	2	16	9	7	9
0.897190228 BH	8	4	4	2	6
0.897755722 BH	1	29	5	4	15
0.897926747 BH	1	34	5	5	17.5
0.898097021 BH	6	16	5	3	11
0.898352245 BH	44	76	59	52	60
0.898430148 BH	2	20	14	5	11
0.898817568 BH	9	57	23	29	33
0.89888128 BH	4	16	9	10	10
0.899242574 BH	4	34	14	15	19
0.899242574 BH	7	14	3	4	10.5
0.899577559 BH	8	20	23	6	14
0.899577559 BH	7	31	4	9	19
0.899577559 BH	9	19	29	2	14
0.899577559 BH	2	17	11	5	9.5
0.899577559 BH	3	9	2	2	6
0.899577559 BH	3	9	2	2	6
0.899684338 BH	12	15	5	7	13.5
0.899684338 BH	6	28	7	5	17
0.899701515 BH	365	1143	253	364	754
0.899701515 BH	5	36	17	16	20.5
0.899701515 BH	3	12	8	5	7.5
0.899701515 BH	0	25	1	4	12.5
0.900614156 BH	4	24	8	2	14
0.901246497 BH	3	10	10	4	6.5
0.901246497 BH	13	62	23	6	37.5
0.902176129 BH	3	27	4	5	15
0.902225465 BH	13	13	8	4	13
0.902225465 BH	6	27	9	4	16.5
0.902225465 BH	294	552	282	452	423
0.902225465 BH	4	20	5	3	12
0.902225465 BH	5	17	6	2	11
0.902225465 BH	2	11	2	2	6.5
0.902257413 BH	16	21	20	17	18.5
0.902346079 BH	53	86	79	53	69.5
0.902388348 BH	0	35	3	6	17.5
0.902505525 BH	17	24	13	6	20.5
0.902505525 BH	8	70	31	27	39
0.902505525 BH	64	611	106	130	337.5
0.902505525 BH	169	104	126	32	136.5
0.902505525 BH	140	89	148	110	114.5
0.902596222 BH	2	11	3	1	6.5
0.902596222 BH	9	12	11	11	10.5
0.902613433 BH	4	19	3	5	11.5
0.903337405 BH	16	76	14	20	46
0.903339984 BH	29	136	77	53	82.5
0.903423257 BH	0	14	9	4	7



0.903540899 BH	2	29	15	9	15.5
0.903540899 BH	4	37	6	7	20.5
0.903680193 BH	2	12	5	8	7
0.903680193 BH	5	21	12	10	13
0.90371835 BH	69	428	84	101	248.5
0.903927132 BH	43	139	84	66	91
0.903968149 BH	29	24	13	13	26.5
0.903968149 BH	18	48	12	15	33
0.903968149 BH	4	12	6	0	8
0.903968149 BH	4	12	6	0	8
0.903968149 BH	37	25	17	15	31
0.904194516 BH	6	63	14	10	34.5
0.904271112 BH	3	21	4	4	12
0.904271112 BH	5	48	9	8	26.5
0.904475803 BH	7	21	6	4	14
0.904549805 BH	73	306	94	61	189.5
0.90461511 BH	9	106	21	18	57.5
0.90461511 BH	1	18	5	1	9.5
0.90461511 BH	9	2	4	2	5.5
0.905424552 BH	6	25	0	9	15.5
0.905424552 BH	11	8	23	2	9.5
0.905424552 BH	6	41	6	9	23.5
0.905424552 BH	6	22	5	5	14
0.905456494 BH	19	42	16	10	30.5
0.905550232 BH	3	14	6	0	8.5
0.905857719 BH	17	183	23	44	100
0.905874195 BH	12	39	20	23	25.5
0.906039885 BH	1	13	2	2	7
0.906039885 BH	1	13	2	2	7
0.906266119 BH	8	43	13	6	25.5
0.906472672 BH	1	18	1	4	9.5
0.906472672 BH	3	78	19	7	40.5
0.906662395 BH	16	39	18	30	27.5
0.906662395 BH	16	84	22	53	50
0.906662395 BH	12	37	11	8	24.5
0.906917922 BH	2	12	11	3	7
0.907166376 BH	24	58	45	28	41
0.907166376 BH	90	274	159	136	182
0.907166376 BH	6	33	16	15	19.5
0.907166376 BH	3	15	11	6	9
0.907193905 BH	5	42	7	9	23.5
0.907446866 BH	1	13	3	1	7
0.90821001 BH	6	41	20	17	23.5
0.90821001 BH	5	13	13	4	9
0.90821001 BH	3	17	8	8	10
0.90821001 BH	7	66	28	25	36.5
0.90821001 BH	6	14	17	3	10

0.90821001 BH	8	43	14	5	25.5
0.908452358 BH	0	18	13	3	9
0.908452358 BH	7	74	17	40	40.5
0.908452358 BH	13	203	51	24	108
0.908487914 BH	1	15	8	5	8
0.908487914 BH	10	22	9	4	16
0.908487914 BH	10	22	9	4	16
0.908487914 BH	29	68	67	23	48.5
0.908487914 BH	16	23	17	1	19.5
0.908568647 BH	50	4	7	23	27
0.908711295 BH	35	240	123	82	137.5
0.908874273 BH	12	144	30	24	78
0.908892772 BH	5	21	18	5	13
0.908892772 BH	88	83	117	63	85.5
0.908892772 BH	1	14	5	8	7.5
0.908892772 BH	4	5	7	4	4.5
0.908892772 BH	18	131	30	25	74.5
0.909014972 BH	19	36	14	10	27.5
0.909178827 BH	16	3	10	1	9.5
0.909178827 BH	14	42	26	22	28
0.909178827 BH	7	20	9	2	13.5
0.909178827 BH	9	16	9	2	12.5
0.909178827 BH	14	12	10	2	13
0.909178827 BH	3	25	11	11	14
0.909178827 BH	3	8	8	3	5.5
0.909178827 BH	2	8	5	6	5
0.909178827 BH	2	29	8	2	15.5
0.909178827 BH	2	24	3	4	13
0.909178827 BH	2	17	6	0	9.5
0.909339748 BH	13	74	43	26	43.5
0.909339748 BH	67	210	107	114	138.5
0.909339748 BH	7	14	7	12	10.5
0.909339748 BH	10	49	24	23	29.5
0.909365285 BH	22	11	16	2	16.5
0.909508214 BH	27	121	82	38	74
0.909508214 BH	14	39	16	7	26.5
0.909524505 BH	16	42	31	21	29
0.909653093 BH	1054	1507	956	1361	1280.5
0.909653093 BH	11	5	6	2	8
0.909712276 BH	20	23	19	3	21.5
0.910426826 BH	182	277	283	149	229.5
0.910537535 BH	4	26	4	6	15
0.910560601 BH	39	28	47	28	33.5
0.910560601 BH	3	16	4	2	9.5
0.91063565 BH	2	24	6	2	13
0.91063565 BH	16	44	34	18	30
0.911066634 BH	18	53	16	13	35.5

0.911333042 BH	6	29	9	4	17.5
0.911333042 BH	55	0	36	0	27.5
0.911406869 BH	2	18	11	6	10
0.911424023 BH	15	1	7	2	8
0.911424023 BH	0	31	6	3	15.5
0.911470531 BH	4	29	12	13	16.5
0.911936545 BH	17	23	24	15	20
0.912004013 BH	4	11	8	6	7.5
0.912004013 BH	7	15	6	3	11
0.912004013 BH	0	20	4	2	10
0.912004013 BH	8	6	3	3	7
0.912004013 BH	2	18	12	5	10
0.912004013 BH	11	193	44	93	102
0.912004013 BH	29	35	54	14	32
0.912111485 BH	37	136	18	49	86.5
0.912607055 BH	12	10	5	18	11
0.91307946 BH	3	8	9	2	5.5
0.913085005 BH	3	21	13	7	12
0.913417351 BH	3	80	15	12	41.5
0.913417351 BH	8	45	14	6	26.5
0.913417351 BH	9	63	15	11	36
0.913417351 BH	5	25	21	6	15
0.913417351 BH	16	51	16	37	33.5
0.913417351 BH	4	63	9	12	33.5
0.913587491 BH	1	11	7	4	6
0.913587491 BH	155	217	152	188	186
0.913587491 BH	13	80	17	18	46.5
0.913587491 BH	17	32	19	3	24.5
0.913710413 BH	3	29	7	3	16
0.913898496 BH	217	220	71	147	218.5
0.913898496 BH	11	74	22	40	42.5
0.913898496 BH	9	18	6	5	13.5
0.913898496 BH	10	17	6	5	13.5
0.913898496 BH	30	4	15	6	17
0.913898496 BH	2	10	9	2	6
0.913898496 BH	2	18	3	3	10
0.913898496 BH	2	18	3	3	10
0.914304599 BH	703	723	727	672	713
0.914304599 BH	1	25	4	4	13
0.914428961 BH	14	19	18	15	16.5
0.914428961 BH	2	36	8	4	19
0.914726964 BH	0	21	4	1	10.5
0.914802132 BH	4	21	5	4	12.5
0.914802132 BH	6	17	7	2	11.5
0.914948385 BH	54	38	76	29	46
0.914948385 BH	27	15	23	1	21
0.915065537 BH	6	67	13	12	36.5

0.915065537 BH	7	27	3	9	17
0.915945302 BH	4	22	4	4	13
0.916344094 BH	1	25	3	5	13
0.916344094 BH	9	26	8	5	17.5
0.916344094 BH	69	230	160	84	149.5
0.916344094 BH	0	15	3	1	7.5
0.916344094 BH	0	15	3	1	7.5
0.916344094 BH	0	15	3	1	7.5
0.916344094 BH	2	15	8	6	8.5
0.916344094 BH	5	20	7	2	12.5
0.916344094 BH	2	15	7	7	8.5
0.916344094 BH	4	10	12	3	7
0.916344094 BH	4	25	17	7	14.5
0.916347377 BH	15	65	14	17	40
0.916347377 BH	108	61	93	9	84.5
0.916347377 BH	42	93	37	25	67.5
0.916347377 BH	1	25	6	2	13
0.916350955 BH	118	208	59	91	163
0.916350955 BH	0	27	6	1	13.5
0.916350955 BH	4	34	9	4	19
0.916350955 BH	889	812	912	796	850.5
0.916587795 BH	361	291	405	276	326
0.916713445 BH	3	55	18	23	29
0.916715803 BH	8	20	9	3	14
0.916715803 BH	10	55	21	29	32.5
0.916901597 BH	18	5	31	3	11.5
0.916901597 BH	0	15	1	3	7.5
0.916920536 BH	1	20	11	6	10.5
0.916920536 BH	22	180	48	28	101
0.916920536 BH	16	32	12	9	24
0.917146411 BH	192	271	129	104	231.5
0.917428757 BH	3	23	5	4	13
0.917428757 BH	6	25	8	3	15.5
0.917428757 BH	1	82	2	20	41.5
0.918403036 BH	8	22	18	10	15
0.918403036 BH	28	17	23	2	22.5
0.918634875 BH	36	52	24	18	44
0.918634875 BH	3	17	12	6	10
0.918634875 BH	9	4	19	0	6.5
0.918837968 BH	9	52	14	9	30.5
0.918848137 BH	8	60	31	21	34
0.918848137 BH	78	143	100	10	110.5
0.918861729 BH	8	51	28	18	29.5
0.918861729 BH	5	19	8	12	12
0.918861729 BH	5	42	22	14	23.5
0.918861729 BH	21	128	31	26	74.5
0.918861729 BH	114	237	87	201	175.5

0.918861729 BH	14	10	19	8	12
0.919151122 BH	8	21	9	2	14.5
0.919381628 BH	19	8	12	3	13.5
0.919381628 BH	19	83	43	35	51
0.919381628 BH	5	31	7	20	18
0.919381628 BH	19	32	27	20	25.5
0.919381628 BH	5	24	12	12	14.5
0.91960438 BH	7	14	17	5	10.5
0.920259394 BH	2	18	1	5	10
0.920391462 BH	35	119	51	17	77
0.920391462 BH	1	20	13	4	10.5
0.921037474 BH	61	154	130	55	107.5
0.921105299 BH	13	38	8	12	25.5
0.921105299 BH	7	30	14	16	18.5
0.921448185 BH	46	72	39	20	59
0.921905612 BH	25	18	10	12	21.5
0.921905612 BH	1513	644	789	535	1078.5
0.921905612 BH	21	27	24	23	24
0.921905612 BH	13	24	25	10	18.5
0.921905612 BH	47	80	36	25	63.5
0.921905612 BH	42	11	28	6	26.5
0.921905612 BH	15	65	40	24	40
0.921918842 BH	2	20	9	8	11
0.922763015 BH	22	23	34	14	22.5
0.922763015 BH	2	26	4	4	14
0.922768968 BH	6	10	7	0	8
0.922768968 BH	0	13	6	5	6.5
0.922769399 BH	5	14	4	3	9.5
0.922769399 BH	3	8	7	5	5.5
0.923514198 BH	6	6	2	2	6
0.923560391 BH	20	63	29	36	41.5
0.923569841 BH	0	13	7	4	6.5
0.923569841 BH	5	10	8	7	7.5
0.923569841 BH	15	10	26	5	12.5
0.923640775 BH	4	6	7	5	5
0.923841229 BH	3	30	6	5	16.5
0.924297498 BH	24	139	68	53	81.5
0.924297498 BH	45	34	56	30	39.5
0.924297498 BH	13	97	33	45	55
0.924297498 BH	122	104	98	127	113
0.924297498 BH	5	10	10	5	7.5
0.924297498 BH	4	16	4	3	10
0.924297498 BH	18	41	8	17	29.5
0.924297498 BH	9	24	17	11	16.5
0.924408962 BH	13	39	13	9	26
0.924408962 BH	2	13	2	2	7.5
0.924545553 BH	3	32	19	8	17.5

0.924557563 BH	23	16	16	5	19.5
0.924753484 BH	3	43	7	8	23
0.924753484 BH	33	122	48	19	77.5
0.925481199 BH	218	343	273	227	280.5
0.925481199 BH	1386	1393	1519	1198	1389.5
0.925695823 BH	2	11	5	6	6.5
0.925695823 BH	2	10	8	4	6
0.925695823 BH	9	68	48	12	38.5
0.925695823 BH	2	38	9	4	20
0.925695823 BH	20	142	44	70	81
0.925695823 BH	75	140	37	62	107.5
0.925695823 BH	16	55	27	30	35.5
0.925695823 BH	10	20	20	9	15
0.925695823 BH	13	32	14	6	22.5
0.925695823 BH	30	26	55	9	28
0.925695823 BH	1	20	1	5	10.5
0.925695823 BH	53	85	41	27	69
0.925695823 BH	14	17	8	6	15.5
0.925695823 BH	3	23	8	1	13
0.925695823 BH	12	14	23	6	13
0.925695823 BH	5	53	9	11	29
0.925695823 BH	5	65	16	9	35
0.925695823 BH	2	11	8	4	6.5
0.925889259 BH	4	18	11	7	11
0.925889259 BH	19	116	25	27	67.5
0.925889259 BH	8	36	9	8	22
0.92616692 BH	10	21	21	8	15.5
0.92616692 BH	88	52	59	24	70
0.92616692 BH	2	13	1	3	7.5
0.92616692 BH	2	23	9	0	12.5
0.92616692 BH	2	23	9	0	12.5
0.926357113 BH	7	48	5	14	27.5
0.926360511 BH	2	29	7	15	15.5
0.927239113 BH	23	59	47	23	41
0.927239113 BH	2	12	4	7	7
0.927239113 BH	3	18	5	2	10.5
0.92751375 BH	4	23	4	5	13.5
0.928170963 BH	9	67	16	13	38
0.928454298 BH	1	27	5	4	14
0.928518934 BH	4	23	7	3	13.5
0.928518934 BH	2	15	8	7	8.5
0.928518934 BH	18	65	21	43	41.5
0.928518934 BH	3	20	11	7	11.5
0.928518934 BH	1	15	2	2	8
0.928518934 BH	1	15	2	2	8
0.928518934 BH	1	15	2	2	8
0.928742922 BH	2	33	6	5	17.5

0.928840077 BH	4	16	6	1	10
0.928840077 BH	1	28	4	4	14.5
0.929252077 BH	35	162	54	89	98.5
0.929323862 BH	1	31	12	11	16
0.929323862 BH	9	48	14	8	28.5
0.929323862 BH	14	17	32	3	15.5
0.929323862 BH	452	759	437	595	605.5
0.929323862 BH	7	50	13	28	28.5
0.929323862 BH	14	39	13	10	26.5
0.929323862 BH	2	17	10	5	9.5
0.929323862 BH	4	23	3	6	13.5
0.929323862 BH	10	75	46	19	42.5
0.929323862 BH	16	25	26	14	20.5
0.929323862 BH	23	35	13	14	29
0.929323862 BH	50	109	82	54	79.5
0.929323862 BH	7	27	22	7	17
0.929323862 BH	0	22	3	3	11
0.929681091 BH	10	22	15	14	16
0.929681091 BH	10	33	23	13	21.5
0.929845678 BH	9	56	12	12	32.5
0.930025274 BH	6	113	4	31	59.5
0.930797646 BH	2	20	5	2	11
0.930797646 BH	2	20	5	2	11
0.930881845 BH	4	9	0	4	6.5
0.930881845 BH	3	11	5	0	7
0.930956495 BH	44	46	22	25	45
0.931190075 BH	89	815	75	518	452
0.931286481 BH	10	29	13	18	19.5
0.931404215 BH	9	19	17	9	14
0.931404215 BH	4	31	5	6	17.5
0.931404215 BH	6	14	4	13	10
0.931978943 BH	41	119	47	78	80
0.931978943 BH	19	14	12	5	16.5
0.931978943 BH	16	69	35	31	42.5
0.932068346 BH	12	23	10	5	17.5
0.932068346 BH	10	26	7	8	18
0.932093504 BH	0	11	5	3	5.5
0.932093504 BH	27	43	22	12	35
0.932099654 BH	58	197	70	43	127.5
0.932484919 BH	0	12	11	1	6
0.933207968 BH	9	63	18	9	36
0.933207968 BH	6	16	12	7	11
0.933236498 BH	10	67	21	9	38.5
0.933236498 BH	0	19	9	5	9.5
0.933446034 BH	10	121	56	36	65.5
0.933446034 BH	30	115	75	38	72.5
0.933489118 BH	96	179	110	122	137.5

0.933541014 BH	13	18	29	4	15.5
0.933693952 BH	21	48	22	10	34.5
0.933693952 BH	9	28	11	5	18.5
0.933693952 BH	59	96	80	58	77.5
0.933693952 BH	7	25	7	6	16
0.933819264 BH	8	37	11	7	22.5
0.933819264 BH	12	57	26	26	34.5
0.933819264 BH	5	12	10	6	8.5
0.933819264 BH	1	27	14	7	14
0.933819264 BH	1	17	7	8	9
0.933819264 BH	2	27	6	4	14.5
0.933819264 BH	22	202	67	86	112
0.933819264 BH	5	67	8	16	36
0.93405443 BH	1	46	3	10	23.5
0.93405443 BH	7	26	8	5	16.5
0.93405443 BH	40	61	26	23	50.5
0.934411304 BH	61	329	85	73	195
0.934411304 BH	5	180	33	28	92.5
0.934435918 BH	3	14	14	2	8.5
0.934435918 BH	43	84	47	59	63.5
0.934825786 BH	117	311	97	98	214
0.934910442 BH	2	22	14	5	12
0.934910442 BH	40	36	24	17	38
0.934910442 BH	4	14	10	6	9
0.934910442 BH	7	19	7	3	13
0.934910442 BH	6	21	5	5	13.5
0.934910442 BH	5	12	11	5	8.5
0.934910442 BH	2	28	4	5	15
0.934910442 BH	52	33	48	3	42.5
0.934910442 BH	39	295	100	34	167
0.935025579 BH	12	61	19	34	36.5
0.935042723 BH	18	10	2	29	14
0.93504988 BH	7	4	5	0	5.5
0.935156263 BH	0	27	12	8	13.5
0.935178271 BH	5	23	16	7	14
0.93521605 BH	9	48	25	18	28.5
0.93521605 BH	5	22	7	4	13.5
0.93521605 BH	4	23	9	1	13.5
0.93521605 BH	8	52	10	12	30
0.935298182 BH	20	42	40	16	31
0.935611543 BH	12	52	15	11	32
0.935769136 BH	4	19	14	6	11.5
0.935769136 BH	8	30	5	10	19
0.935769136 BH	3	11	6	6	7
0.935769136 BH	5	15	5	3	10
0.935769136 BH	3	15	10	6	9
0.935769136 BH	3	16	9	7	9.5



0.93579151 BH	12	88	34	6	50
0.93580642 BH	9	20	17	10	14.5
0.935899393 BH	4	43	9	23	23.5
0.935899393 BH	0	29	8	11	14.5
0.935899393 BH	20	52	13	18	36
0.935899393 BH	6	82	15	15	44
0.935899393 BH	10	40	29	12	25
0.935899393 BH	4	24	16	7	14
0.935899393 BH	22	4	13	3	13
0.935899393 BH	7	5	14	2	6
0.935899393 BH	0	17	3	2	8.5
0.935899393 BH	4	14	12	4	9
0.936083999 BH	10	35	11	8	22.5
0.936083999 BH	14	27	8	10	20.5
0.936083999 BH	8	100	24	48	54
0.936083999 BH	2	58	4	14	30
0.936083999 BH	0	14	7	5	7
0.936083999 BH	11	15	12	1	13
0.936083999 BH	6	14	6	2	10
0.936083999 BH	4	17	5	3	10.5
0.936083999 BH	6	14	6	2	10
0.936083999 BH	103	271	43	241	187
0.936513979 BH	13	31	25	13	22
0.936513979 BH	19	40	18	9	29.5
0.936608371 BH	4	11	3	2	7.5
0.936608371 BH	15	84	23	16	49.5
0.936608371 BH	2	35	5	6	18.5
0.936608371 BH	3	33	3	8	18
0.936608371 BH	4	9	10	3	6.5
0.936872883 BH	12	9	5	5	10.5
0.937290806 BH	6	27	7	17	16.5
0.937290806 BH	16	114	35	54	65
0.937343292 BH	14	78	21	16	46
0.938676276 BH	5	110	41	36	57.5
0.938676276 BH	4	18	6	2	11
0.938676276 BH	3	20	5	3	11.5
0.938676276 BH	8	49	17	25	28.5
0.938819652 BH	2	15	2	12	8.5
0.938861355 BH	9	23	8	6	16
0.938861355 BH	3	26	16	7	14.5
0.938861355 BH	0	18	1	3	9
0.938861355 BH	0	18	1	3	9
0.939278562 BH	1	176	15	37	88.5
0.939445498 BH	421	306	400	338	363.5
0.940012176 BH	4	39	9	6	21.5
0.94051849 BH	9	42	12	26	25.5
0.940710236 BH	50	3	34	3	26.5

0.940710236 BH	5	9	5	1	7
0.940710236 BH	5	9	5	1	7
0.94075245 BH	15	120	26	25	67.5
0.94075245 BH	8	26	6	7	17
0.94075245 BH	8	11	10	10	9.5
0.940954659 BH	8	61	15	11	34.5
0.940954659 BH	2	12	10	3	7
0.94131428 BH	2	14	3	3	8
0.941499408 BH	4	32	4	8	18
0.941725428 BH	31	83	18	32	57
0.941725428 BH	44	172	41	50	108
0.941725428 BH	588	246	368	539	417
0.941725428 BH	12	34	17	20	23
0.941725428 BH	64	271	124	121	167.5
0.941790915 BH	1	10	5	4	5.5
0.941848728 BH	4	30	7	17	17
0.941848728 BH	24	34	25	5	29
0.942190168 BH	14	108	33	15	61
0.942279299 BH	5	37	4	10	21
0.942279299 BH	3	11	11	2	7
0.94248539 BH	29	62	11	29	45.5
0.94248539 BH	10	51	12	12	30.5
0.94248539 BH	8	19	6	5	13.5
0.94248539 BH	4	27	14	9	15.5
0.94248539 BH	15	57	21	10	36
0.94248539 BH	60	88	87	48	74
0.94248539 BH	28	46	33	4	37
0.94248539 BH	1	15	6	6	8
0.94248539 BH	3	13	1	4	8
0.94248539 BH	6	7	1	4	6.5
0.94248539 BH	6	7	1	4	6.5
0.942788296 BH	7	33	20	11	20
0.942843175 BH	13	68	15	17	40.5
0.942843175 BH	4	15	10	7	9.5
0.942843175 BH	7	26	13	14	16.5
0.942843175 BH	6	0	12	0	3
0.942843175 BH	8	23	23	5	15.5
0.942843175 BH	2	15	4	1	8.5
0.942843175 BH	1	16	6	6	8.5
0.943194474 BH	8	75	13	17	41.5
0.94340741 BH	7	0	10	2	3.5
0.94340741 BH	16	21	21	14	18.5
0.94340741 BH	6	36	12	5	21
0.94340741 BH	2	14	5	1	8
0.94340741 BH	7	5	5	1	6
0.943422411 BH	2	13	11	2	7.5
0.943532659 BH	17	0	22	5	8.5

0.943532659 BH	1	10	2	1	5.5
0.943532659 BH	1	10	2	1	5.5
0.943532659 BH	1	10	2	1	5.5
0.943532659 BH	1	10	2	1	5.5
0.943532659 BH	5	14	12	5	9.5
0.943532659 BH	11	28	11	6	19.5
0.943532659 BH	18	40	34	17	29
0.943532659 BH	12	67	18	37	39.5
0.943532659 BH	16	34	15	8	25
0.943532659 BH	7	20	9	3	13.5
0.943532659 BH	7	20	9	3	13.5
0.943532659 BH	2	29	4	6	15.5
0.943532659 BH	130	208	76	93	169
0.943532659 BH	2	22	2	5	12
0.943532659 BH	8	19	17	8	13.5
0.943532659 BH	1	10	1	2	5.5
0.943532659 BH	1	10	1	2	5.5
0.943532659 BH	1	10	1	2	5.5
0.943532659 BH	1	10	1	2	5.5
0.943532659 BH	1	10	1	2	5.5
0.943532659 BH	1	10	1	2	5.5
0.943532659 BH	11	51	15	10	31
0.943532659 BH	8	42	10	9	25
0.943532659 BH	6	39	24	11	22.5
0.943673744 BH	345	364	407	264	354.5
0.943673744 BH	1	17	3	2	9
0.943673744 BH	1	17	3	2	9
0.943673744 BH	18	27	33	10	22.5
0.943797978 BH	4	16	6	10	10
0.943797978 BH	43	34	31	14	38.5
0.944302204 BH	0	17	5	0	8.5
0.944356259 BH	39	90	32	28	64.5
0.944356259 BH	8	12	17	4	10
0.944356259 BH	16	33	32	12	24.5
0.944864482 BH	4	10	6	7	7
0.944864482 BH	4	11	8	5	7.5
0.945471493 BH	905	1115	839	955	1010
0.945607703 BH	4	26	5	6	15
0.945607703 BH	9	17	9	2	13
0.945607703 BH	9	24	14	14	16.5
0.945698548 BH	5	18	4	4	11.5
0.946018943 BH	7	37	10	7	22
0.946018943 BH	14	49	25	3	31.5
0.946018943 BH	7	57	11	13	32
0.946018943 BH	11	32	11	22	21.5
0.946544167 BH	11	37	12	8	24
0.946620111 BH	8	14	14	7	11

0.946620111 BH	5	20	12	9	12.5
0.946620111 BH	1	39	10	17	20
0.946799996 BH	12	87	17	20	49.5
0.946809554 BH	6	45	12	8	25.5
0.946924259 BH	21	56	18	17	38.5
0.946924259 BH	4	11	6	0	7.5
0.946924259 BH	0	11	5	4	5.5
0.947101363 BH	22	106	40	51	64
0.94727075 BH	5	21	13	8	13
0.94747425 BH	6	29	8	18	17.5
0.94747425 BH	862	610	700	760	736
0.94747425 BH	4	26	9	3	15
0.94747425 BH	4	26	9	3	15
0.94747425 BH	4	19	4	5	11.5
0.94747425 BH	19	61	20	15	40
0.94747425 BH	2	37	10	3	19.5
0.94747425 BH	1	25	6	12	13
0.94747425 BH	23	41	26	7	32
0.948006284 BH	0	12	6	3	6
0.949237688 BH	17	95	24	22	56
0.949237688 BH	3	28	8	4	15.5
0.949237688 BH	0	11	2	1	5.5
0.949237688 BH	0	11	2	1	5.5
0.949237688 BH	0	11	3	6	5.5
0.949237688 BH	2	48	3	13	25
0.949237688 BH	6	5	10	4	5.5
0.949237688 BH	0	12	2	1	6
0.949237688 BH	0	11	1	2	5.5
0.949237688 BH	0	12	2	1	6
0.949237688 BH	0	11	1	2	5.5
0.949237688 BH	0	12	2	1	6
0.949237688 BH	0	12	2	1	6
0.949237688 BH	0	12	2	1	6
0.949237688 BH	0	11	1	2	5.5
0.949237688 BH	2	20	12	5	11
0.949237688 BH	4	93	49	19	48.5
0.949237688 BH	6	25	13	12	15.5
0.949237688 BH	9	34	11	7	21.5
0.949237688 BH	11	30	7	10	20.5
0.949237688 BH	9	34	10	8	21.5
0.949237688 BH	0	12	1	2	6
0.949237688 BH	0	12	1	2	6
0.949237688 BH	7	34	25	8	20.5
0.949237688 BH	11	36	20	16	23.5
0.949335573 BH	55	222	60	59	138.5
0.949335573 BH	5	14	12	6	9.5

0.949335573 BH	773	832	735	729	802.5
0.949699132 BH	57	68	46	23	62.5
0.94998135 BH	13	85	36	32	49
0.950029866 BH	43	568	82	138	305.5
0.95012456 BH	13	35	12	9	24
0.95012456 BH	5	61	6	16	33
0.950166001 BH	15	5	28	0	10
0.950525832 BH	13	316	67	51	164.5
0.950680681 BH	5	34	9	5	19.5
0.950680681 BH	43	229	85	102	136
0.95078845 BH	32	67	35	14	49.5
0.95081994 BH	8	18	11	1	13
0.950822314 BH	3	8	7	3	5.5
0.951308849 BH	2	14	11	3	8
0.951308849 BH	7	14	8	1	10.5
0.951308849 BH	7	20	23	2	13.5
0.951308849 BH	3	36	11	3	19.5
0.951308849 BH	6	92	7	26	49
0.951308849 BH	4	42	10	7	23
0.951308849 BH	0	16	10	3	8
0.951308849 BH	1	16	12	1	8.5
0.951308849 BH	3	64	10	13	33.5
0.951541416 BH	1	35	12	0	18
0.951541416 BH	13	23	26	8	18
0.951541416 BH	3	24	8	12	13.5
0.951541416 BH	2	9	4	6	5.5
0.951541416 BH	3	14	3	3	8.5
0.951541416 BH	3	15	3	3	9
0.951614279 BH	2	30	8	4	16
0.951641797 BH	3	19	9	8	11
0.952076019 BH	2	24	4	4	13
0.952076019 BH	4	64	11	13	34
0.952076019 BH	2	10	7	3	6
0.952076019 BH	3	15	4	2	9
0.95230496 BH	1	22	8	8	11.5
0.952694663 BH	0	19	2	3	9.5
0.952848815 BH	5	11	5	1	8
0.952848815 BH	5	11	5	1	8
0.953231838 BH	1	23	8	8	12
0.95356486 BH	4	13	5	1	8.5
0.95356486 BH	1	16	5	8	8.5
0.95356486 BH	2	24	3	5	13
0.95356486 BH	9	68	31	24	38.5
0.954116477 BH	7	31	9	6	19
0.954116477 BH	13	28	8	10	20.5
0.954116477 BH	13	32	19	3	22.5
0.954116477 BH	1	10	5	5	5.5

0.954116477 BH	1	10	5	5	5.5
0.954116477 BH	3	13	2	10	8
0.954135457 BH	3	18	6	11	10.5
0.954135457 BH	2	17	4	2	9.5
0.954135457 BH	2	16	5	2	9
0.954135457 BH	2	17	4	2	9.5
0.954135457 BH	2	17	4	2	9.5
0.954135457 BH	2	17	3	3	9.5
0.954135457 BH	2	17	4	2	9.5
0.954135457 BH	2	17	3	3	9.5
0.954135457 BH	1	11	5	5	6
0.954135457 BH	160	411	225	214	285.5
0.954135457 BH	22	25	31	15	23.5
0.954135457 BH	0	19	5	1	9.5
0.954135457 BH	16	54	15	16	35
0.954135457 BH	10	11	4	15	10.5
0.954135457 BH	5	20	5	4	12.5
0.954135457 BH	21	73	51	23	47
0.954135457 BH	1	11	7	3	6
0.954135457 BH	14	23	16	3	18.5
0.954135457 BH	15	15	10	5	15
0.954135457 BH	6	34	9	6	20
0.954135457 BH	8	36	23	11	22
0.954135457 BH	37	53	28	19	45
0.954135457 BH	26	193	56	33	109.5
0.95428613 BH	51	136	53	35	93.5
0.95428613 BH	20	5	20	11	12.5
0.954894042 BH	15	22	16	3	18.5
0.955084411 BH	2	32	9	14	17
0.955942885 BH	9	7	14	4	8
0.956004146 BH	11	11	16	6	11
0.956496384 BH	1	33	6	5	17
0.956496384 BH	24	39	17	15	31.5
0.956496384 BH	7	6	7	7	6.5
0.956496384 BH	10	10	6	3	10
0.956500258 BH	15	119	24	28	67
0.956700213 BH	9	47	25	17	28
0.957171168 BH	18	34	18	8	26
0.957354898 BH	3	14	11	4	8.5
0.957969286 BH	2	16	6	1	9
0.957969286 BH	22	19	31	11	20.5
0.958304016 BH	4	11	12	3	7.5
0.958304016 BH	7	20	10	12	13.5
0.958488214 BH	1	18	3	3	9.5
0.958488214 BH	1	18	3	3	9.5
0.958488214 BH	10	21	14	12	15.5
0.958488214 BH	45	164	38	53	104.5

0.958488214 BH	7	40	13	6	23.5
0.958488214 BH	42	122	52	26	82
0.958488214 BH	68	146	101	72	107
0.958488214 BH	9	50	48	1	29.5
0.958488214 BH	4	38	13	15	21
0.958488214 BH	1	18	5	2	9.5
0.958488214 BH	1	19	3	3	10
0.958488214 BH	1	18	5	2	9.5
0.958488214 BH	1	19	4	2	10
0.95904128 BH	3	23	4	5	13
0.95904128 BH	3	13	12	3	8
0.959769948 BH	5	28	7	6	16.5
0.959892582 BH	20	41	16	13	30.5
0.96003316 BH	65	61	30	39	63
0.960040057 BH	33	111	103	15	72
0.960040057 BH	1	18	2	4	9.5
0.960143361 BH	8	31	11	5	19.5
0.960291999 BH	13	53	18	30	33
0.960335578 BH	19	36	35	13	27.5
0.960335578 BH	2	9	2	2	5.5
0.960335578 BH	3	8	3	1	5.5
0.960335578 BH	11	7	7	3	9
0.960509196 BH	14	60	29	25	37
0.960916591 BH	7	216	49	32	111.5
0.960916591 BH	3	46	9	9	24.5
0.960916591 BH	6	54	39	6	30
0.960916591 BH	3	23	3	6	13
0.960916591 BH	0	23	10	7	11.5
0.961208619 BH	2	9	3	1	5.5
0.961208619 BH	2	9	3	1	5.5
0.961208619 BH	30	47	24	15	38.5
0.961208619 BH	0	13	6	4	6.5
0.961208619 BH	1	19	5	1	10
0.961208619 BH	5	10	13	2	7.5
0.961208619 BH	7	85	9	23	46
0.961208619 BH	2	10	3	1	6
0.961208619 BH	2	10	1	2	6
0.961208619 BH	2	10	3	1	6
0.961208619 BH	23	21	22	3	22
0.961208619 BH	8	19	18	5	13.5
0.961208619 BH	32	2	35	12	17
0.961208619 BH	0	13	5	5	6.5
0.961208619 BH	6	82	17	15	44
0.961208619 BH	4	38	23	7	21
0.961208619 BH	0	25	8	8	12.5
0.961208619 BH	5	12	4	3	8.5
0.961208619 BH	5	12	4	3	8.5

0.961208619 BH	8	31	25	6	19.5
0.961240375 BH	43	38	38	10	40.5
0.961467694 BH	7	42	11	8	24.5
0.961467694 BH	0	14	6	4	7
0.961467694 BH	11	51	13	13	31
0.961467694 BH	18	69	34	29	43.5
0.961467694 BH	5	28	10	3	16.5
0.961467694 BH	3	39	11	5	21
0.961467694 BH	169	25	139	0	97
0.961467694 BH	5	11	9	6	8
0.961467694 BH	1	11	2	2	6
0.961467694 BH	1	11	2	2	6
0.961467694 BH	1	11	2	2	6
0.961467694 BH	12	22	14	3	17
0.961467694 BH	5	12	5	2	8.5
0.961467694 BH	5	12	5	2	8.5
0.961467694 BH	4	15	4	3	9.5
0.961467694 BH	2	26	6	3	14
0.961467694 BH	10	7	14	5	8.5
0.961515223 BH	31	55	46	28	43
0.961515223 BH	13	31	12	8	22
0.961515223 BH	4	13	9	6	8.5
0.961515223 BH	8	12	11	8	10
0.961515223 BH	9	21	7	7	15
0.961523996 BH	1	11	1	8	6
0.961572445 BH	2	10	6	5	6
0.961572445 BH	2	23	9	9	12.5
0.961572445 BH	1	11	3	1	6
0.961572445 BH	1	11	3	1	6
0.961572445 BH	8	37	9	23	22.5
0.961572445 BH	9	2	6	1	5.5
0.961572445 BH	7	25	7	7	16
0.961572445 BH	3	16	4	3	9.5
0.961572445 BH	2	11	7	4	6.5
0.961572445 BH	7	8	5	2	7.5
0.961572445 BH	3	16	4	3	9.5
0.961572445 BH	2	25	3	6	13.5
0.961572445 BH	2	26	3	6	14
0.961572445 BH	12	9	17	6	10.5
0.961572445 BH	78	92	108	49	85
0.961572445 BH	6	58	15	28	32
0.961840284 BH	5	21	6	4	13
0.961861376 BH	5	20	12	7	12.5
0.961861376 BH	9	79	24	11	44
0.961861376 BH	3	17	4	3	10
0.962320468 BH	9	18	17	7	13.5
0.962320468 BH	421	830	352	612	625.5



0.962320468 BH	8	48	17	7	28
0.962320468 BH	5	5	8	3	5
0.962320468 BH	3	16	5	2	9.5
0.962320468 BH	3	16	5	2	9.5
0.962530688 BH	9	90	36	29	49.5
0.962530688 BH	2	41	8	7	21.5
0.962530688 BH	8	33	7	9	20.5
0.962530688 BH	5	21	8	3	13
0.962530688 BH	4	14	11	4	9
0.962530688 BH	26	137	58	54	81.5
0.962530688 BH	3	17	5	2	10
0.962530688 BH	4	54	6	14	29
0.962530688 BH	53	1528	387	204	790.5
0.962708018 BH	13	2	6	14	7.5
0.962980113 BH	71	134	43	58	102.5
0.963188614 BH	6	23	17	7	14.5
0.963188614 BH	8	4	7	0	6
0.963188614 BH	83	96	49	50	89.5
0.963188614 BH	538	634	414	593	586
0.963188614 BH	182	554	307	238	368
0.963188614 BH	8	35	22	10	21.5
0.963188614 BH	1	12	6	5	6.5
0.963188614 BH	8	6	10	5	7
0.963188614 BH	10	28	14	4	19
0.963188614 BH	6	36	9	8	21
0.963188614 BH	11	29	17	15	20
0.963188614 BH	7	55	14	26	31
0.963188614 BH	20	45	20	11	32.5
0.963188614 BH	1	27	6	4	14
0.963188614 BH	6	28	10	4	17
0.963188614 BH	2	9	11	0	5.5
0.963473558 BH	4	14	7	1	9
0.963473558 BH	1208	953	631	661	1080.5
0.963473558 BH	2	17	9	6	9.5
0.963473558 BH	36	180	19	122	108
0.963473558 BH	24	75	36	37	49.5
0.963473558 BH	19	29	13	11	24
0.963473558 BH	1	28	5	4	14.5
0.963473558 BH	7	29	21	7	18
0.963473558 BH	8	41	15	6	24.5
0.963473558 BH	2	18	5	2	10
0.963473558 BH	2	18	5	2	10
0.963473558 BH	37	70	58	31	53.5
0.963473558 BH	12	34	11	10	23
0.963473558 BH	78	205	94	46	141.5
0.963473558 BH	8	50	14	10	29
0.963473558 BH	0	21	2	4	10.5

0.963473558 BH	42	90	42	25	66
0.963473558 BH	8	12	16	4	10
0.963473558 BH	25	12	12	11	18.5
0.963473558 BH	3	17	6	1	10
0.963473558 BH	9	59	17	28	34
0.963473558 BH	3	26	5	5	14.5
0.963473558 BH	3	26	5	5	14.5
0.963473558 BH	3	25	5	5	14
0.963473558 BH	8	152	33	27	80
0.963473558 BH	16	27	14	7	21.5
0.963473558 BH	11	22	19	10	16.5
0.963543001 BH	1	11	4	0	6
0.963551939 BH	3	24	12	7	13.5
0.963551939 BH	58	228	58	68	143
0.963571686 BH	63	101	57	31	82
0.963571686 BH	1	26	10	8	13.5
0.963571686 BH	7	43	8	12	25
0.963571686 BH	0	13	2	2	6.5
0.963571686 BH	0	13	2	2	6.5
0.963571686 BH	11	16	15	9	13.5
0.963571686 BH	2	26	9	1	14
0.963681396 BH	22	52	35	24	37
0.963771776 BH	18	6	15	1	12
0.964049792 BH	25	70	14	28	47.5
0.964320312 BH	9	24	9	5	16.5
0.964320312 BH	4	20	16	4	12
0.964320312 BH	0	13	3	1	6.5
0.964320312 BH	0	13	3	1	6.5
0.964320312 BH	0	13	3	1	6.5
0.964320312 BH	0	13	3	1	6.5
0.965053635 BH	11	19	6	8	15
0.965053635 BH	5	20	11	9	12.5
0.965067534 BH	18	31	19	6	24.5
0.965067534 BH	14	25	19	14	19.5
0.965067534 BH	39	110	45	26	74.5
0.965067534 BH	111	149	83	61	130
0.965067534 BH	9	5	6	1	7
0.965067534 BH	1	20	4	3	10.5
0.965067534 BH	0	14	1	2	7
0.965067534 BH	0	14	1	2	7
0.965129766 BH	8	35	12	6	21.5
0.965129766 BH	0	14	1	8	7
0.965129766 BH	1	51	12	6	26
0.965138986 BH	7	3	15	0	5
0.965138986 BH	19	107	40	45	63
0.965257571 BH	0	13	1	3	6.5
0.965257571 BH	7	18	8	4	12.5

0.965257571 BH	8	16	5	6	12
0.965257571 BH	41	45	58	23	43
0.965273049 BH	33	83	45	44	58
0.965273049 BH	10	21	11	4	15.5
0.965273049 BH	9	23	11	4	16
0.965358029 BH	2	28	5	5	15
0.965358029 BH	2	28	6	4	15
0.966225859 BH	235	245	192	232	240
0.966225859 BH	12	36	11	11	24
0.966225859 BH	11	44	21	4	27.5
0.966225859 BH	1	21	5	2	11
0.966283426 BH	378	82	261	78	230
0.966564601 BH	31	57	52	22	44
0.966564601 BH	10	30	15	4	20
0.966564601 BH	6	12	5	3	9
0.966564601 BH	41	111	46	66	76
0.966564601 BH	1	20	10	5	10.5
0.966575132 BH	5	35	15	13	20
0.966575132 BH	18	13	26	7	15.5
0.966575132 BH	14	40	28	15	27
0.966575132 BH	9	62	20	27	35.5
0.966773077 BH	8	57	31	15	32.5
0.966859357 BH	4	8	8	4	6
0.966859357 BH	10	21	12	3	15.5
0.967055294 BH	35	65	31	20	50
0.967055294 BH	25	38	22	11	31.5
0.967055294 BH	85	627	97	342	356
0.967055294 BH	0	14	6	5	7
0.967055294 BH	4	15	7	0	9.5
0.967055294 BH	2	27	3	7	14.5
0.967055294 BH	8	26	12	3	17
0.967055294 BH	5	32	7	7	18.5
0.967055294 BH	5	32	7	7	18.5
0.967230495 BH	4	16	12	4	10
0.967230495 BH	4	25	6	5	14.5
0.967230495 BH	14	23	12	7	18.5
0.967490445 BH	5	6	8	4	5.5
0.968145118 BH	10	41	9	12	25.5
0.968145118 BH	1245	771	1333	706	1008
0.968145118 BH	0	15	7	4	7.5
0.968145118 BH	7	0	6	5	3.5
0.968461078 BH	60	22	71	23	41
0.968461078 BH	81	189	136	75	135
0.968565668 BH	0	13	4	0	6.5
0.968655407 BH	5	296	28	71	150.5
0.968655407 BH	2	12	8	4	7
0.96891178 BH	48	127	105	34	87.5

0.969028278 BH	4	34	7	7	19
0.969028278 BH	9	15	10	2	12
0.969028278 BH	2	14	5	6	8
0.969028278 BH	8	8	6	2	8
0.969028278 BH	33	46	36	8	39.5
0.969028278 BH	9	44	23	1	26.5
0.969028278 BH	0	14	4	0	7
0.969028278 BH	0	14	4	0	7
0.969028278 BH	0	14	0	3	7
0.969475469 BH	3	27	6	5	15
0.969475469 BH	7	19	14	7	13
0.969543708 BH	10	32	14	5	21
0.969543708 BH	4	8	3	1	6
0.969543708 BH	5	6	2	2	5.5
0.969543708 BH	3	10	3	1	6.5
0.969543708 BH	3	10	3	1	6.5
0.969543708 BH	8	7	0	6	7.5
0.969543708 BH	3	33	15	9	18
0.969543708 BH	0	13	0	4	6.5
0.969543708 BH	7	30	9	6	18.5
0.969543708 BH	7	30	9	6	18.5
0.969687682 BH	26	68	22	22	47
0.969687682 BH	5	6	3	1	5.5
0.969687682 BH	8	14	18	3	11
0.969687682 BH	5	7	10	2	6
0.969687682 BH	5	6	3	8	5.5
0.969687682 BH	5	58	12	12	31.5
0.969687682 BH	6	21	15	6	13.5
0.969687682 BH	3	9	4	1	6
0.969687682 BH	2	12	2	2	7
0.969687682 BH	3	9	4	1	6
0.969687682 BH	6	60	0	22	33
0.969723897 BH	5	50	8	12	27.5
0.969736713 BH	2	20	4	4	11
0.969736713 BH	2	20	4	4	11
0.969736713 BH	2	20	4	4	11
0.969736713 BH	34	69	36	18	51.5
0.969736713 BH	3	10	1	3	6.5
0.969736713 BH	3	10	1	3	6.5
0.969887164 BH	1	20	3	11	10.5
0.970129756 BH	4	16	7	1	10
0.970129756 BH	1	14	7	5	7.5
0.970418592 BH	2	46	8	8	24
0.970418592 BH	840	821	776	707	830.5
0.970418592 BH	2	18	8	0	10
0.970418592 BH	0	22	4	3	11
0.970418592 BH	4	6	12	0	5

0.97043411 BH	6	57	17	23	31.5
0.97043411 BH	2	11	4	1	6.5
0.970449693 BH	3	36	6	8	19.5
0.970449693 BH	43	91	45	25	67
0.970643015 BH	11	15	4	18	13
0.971195305 BH	4	32	11	13	18
0.971295281 BH	123	839	136	254	481
0.97169585 BH	2	21	6	2	11.5
0.97169585 BH	2	21	6	2	11.5
0.971731899 BH	0	28	14	5	14
0.971731899 BH	20	32	31	14	26
0.971815974 BH	34	110	59	45	72
0.971815974 BH	220	70	144	62	145
0.971815974 BH	1	13	3	2	7
0.972095314 BH	32	1028	110	261	530
0.972271276 BH	111	118	58	72	114.5
0.972271276 BH	1	14	2	2	7.5
0.972271276 BH	1	14	2	2	7.5
0.972680079 BH	6	23	4	7	14.5
0.972763593 BH	129	154	103	62	141.5
0.973023127 BH	2	29	4	7	15.5
0.973055406 BH	28	313	87	121	170.5
0.973055406 BH	40	313	70	148	176.5
0.973055406 BH	3	19	11	6	11
0.973055406 BH	1	14	3	1	7.5
0.973055406 BH	1	14	3	1	7.5
0.973055406 BH	1	13	4	1	7
0.973319487 BH	1	22	11	5	11.5
0.973772213 BH	10	25	11	5	17.5
0.974148543 BH	6	14	4	4	10
0.974148543 BH	1	22	5	3	11.5
0.974148543 BH	1	14	1	3	7.5
0.974148543 BH	9	243	100	59	126
0.974148543 BH	101	78	81	32	89.5
0.974148543 BH	4	26	9	4	15
0.974148543 BH	12	34	24	12	23
0.974148543 BH	10	95	30	37	52.5
0.974148543 BH	0	38	5	8	19
0.974444253 BH	4	10	9	4	7
0.974781487 BH	3	19	6	10	11
0.975168869 BH	3	13	6	6	8
0.975168869 BH	0	25	18	0	12.5
0.9758168 BH	9	5	15	2	7
0.9758168 BH	3	12	9	4	7.5
0.9758168 BH	3	11	9	4	7
0.9758168 BH	0	22	4	10	11
0.97588851 BH	10	36	10	10	23

0.97588851 BH	8	27	12	14	17.5
0.976079768 BH	12	148	25	36	80
0.976336872 BH	5	15	7	2	10
0.97682141 BH	10	29	25	7	19.5
0.976847305 BH	4	34	12	13	19
0.976847305 BH	10	30	14	17	20
0.976847305 BH	10	31	21	11	20.5
0.976847305 BH	6	15	9	8	10.5
0.976847305 BH	7	13	8	9	10
0.976958382 BH	15	28	28	9	21.5
0.977257485 BH	17	146	40	61	81.5
0.977257485 BH	2	15	6	6	8.5
0.977257485 BH	16	13	11	5	14.5
0.977472824 BH	951	196	696	175	573.5
0.977472824 BH	4	17	8	0	10.5
0.977472824 BH	5	14	9	0	9.5
0.977472824 BH	4	17	8	0	10.5
0.977472824 BH	7	51	13	10	29
0.977472824 BH	6	6	10	3	6
0.977472824 BH	4	18	7	2	11
0.977516954 BH	11	9	19	3	10
0.97781597 BH	4	55	27	12	29.5
0.977960235 BH	0	15	3	2	7.5
0.978885784 BH	0	17	8	4	8.5
0.978934442 BH	39	103	36	66	71
0.979870775 BH	2	14	4	8	8
0.980046242 BH	8	22	25	1	15
0.980046242 BH	1	14	5	0	7.5
0.980306241 BH	8	8	9	0	8
0.980428411 BH	18	42	14	15	30
0.980578845 BH	0	16	3	1	8
0.980612456 BH	6	43	13	8	24.5
0.980612456 BH	2	40	7	8	21
0.980710771 BH	57	166	113	53	111.5
0.981211401 BH	13	42	15	25	27.5
0.981380953 BH	13	10	8	5	11.5
0.981380953 BH	3	21	8	9	12
0.981816128 BH	585	646	493	554	615.5
0.981816128 BH	37	40	33	13	38.5
0.981816128 BH	4	28	8	5	16
0.981816128 BH	4	29	8	5	16.5
0.981816128 BH	1	16	5	7	8.5
0.981816128 BH	1	16	5	7	8.5
0.981816128 BH	2	22	3	5	12
0.982014109 BH	24	40	23	11	32
0.982588174 BH	1	16	9	4	8.5
0.982900848 BH	9	28	14	4	18.5

0.983019946 BH	0	25	5	3	12.5
0.983237073 BH	2	22	7	2	12
0.983424407 BH	5	11	7	6	8
0.983431129 BH	6	6	3	2	6
0.983431129 BH	69	181	65	59	125
0.983577187 BH	2	30	14	8	16
0.983577187 BH	67	12	24	29	39.5
0.983577187 BH	4	10	4	1	7
0.983577187 BH	11	26	9	9	18.5
0.983577187 BH	11	27	9	8	19
0.983577187 BH	7	44	11	10	25.5
0.983577187 BH	11	35	17	5	23
0.983577187 BH	16	26	11	11	21
0.983577187 BH	2	13	3	2	7.5
0.983577187 BH	2	13	3	2	7.5
0.983577187 BH	5	17	5	5	11
0.983577187 BH	6	16	4	5	11
0.983577187 BH	5	17	5	5	11
0.983577187 BH	5	18	5	4	11.5
0.983646468 BH	9	19	16	8	14
0.983646468 BH	7	24	8	6	15.5
0.983646468 BH	2	13	2	3	7.5
0.983646468 BH	3	31	8	5	17
0.983646468 BH	2	24	8	9	13
0.983646468 BH	8	11	7	3	9.5
0.983646468 BH	3	14	8	5	8.5
0.983646468 BH	4	12	10	4	8
0.984018313 BH	1	10	5	3	5.5
0.984018313 BH	3	11	5	1	7
0.984018313 BH	5	18	8	10	11.5
0.984145863 BH	17	25	15	7	21
0.984665124 BH	8	33	8	9	20.5
0.984718776 BH	6	33	9	17	19.5
0.984718776 BH	2	22	6	11	12
0.984718776 BH	4	20	6	3	12
0.985139878 BH	1	24	3	5	12.5
0.986161737 BH	5	29	7	6	17
0.986161737 BH	3	21	6	4	12
0.986161737 BH	0	15	5	0	7.5
0.986161737 BH	4	37	14	13	20.5
0.986161737 BH	44	194	55	53	119
0.986171813 BH	14	46	22	21	30
0.986171813 BH	0	15	0	4	7.5
0.986171813 BH	0	16	5	0	8
0.986171813 BH	5	29	14	9	17
0.986171813 BH	5	27	16	8	16
0.986171813 BH	2	13	1	4	7.5

0.986171813 BH	2	16	6	7	9
0.986663686 BH	0	16	0	4	8
0.986663686 BH	1	15	3	2	8
0.986663686 BH	1	15	3	2	8
0.98714681 BH	14	33	15	8	23.5
0.98714681 BH	15	30	14	9	22.5
0.987600733 BH	10	58	9	19	34
0.987600733 BH	43	146	40	48	94.5
0.987600733 BH	790	195	730	377	492.5
0.987600733 BH	12	23	20	10	17.5
0.987600733 BH	16	29	10	12	22.5
0.987600733 BH	7	46	13	9	26.5
0.987600733 BH	3	50	8	12	26.5
0.987765738 BH	4	29	16	8	16.5
0.987765738 BH	9	52	19	8	30.5
0.988211091 BH	14	22	9	9	18
0.988482029 BH	14	10	10	4	12
0.988694102 BH	2	23	5	5	12.5
0.988694102 BH	2	23	5	5	12.5
0.988694102 BH	11	62	29	20	36.5
0.988694102 BH	3	12	5	0	7.5
0.988694102 BH	3	12	5	0	7.5
0.988694102 BH	3	12	5	0	7.5
0.989120048 BH	17	59	24	13	38
0.989120048 BH	2	24	4	5	13
0.989120048 BH	37	64	30	47	50.5
0.989271682 BH	0	26	11	6	13
0.989322875 BH	8	24	10	5	16
0.989322875 BH	46	50	43	15	48
0.989322875 BH	14	64	31	24	39
0.989437366 BH	2	23	7	3	12.5
0.989558539 BH	644	427	707	333	535.5
0.989575816 BH	14	44	15	13	29
0.989580056 BH	35	56	34	16	45.5
0.990372428 BH	20	77	25	20	48.5
0.990372428 BH	9	21	5	9	15
0.990372428 BH	8	13	5	5	10.5
0.990372428 BH	5	13	9	5	9
0.990372428 BH	5	12	9	5	8.5
0.990477974 BH	13	36	11	12	24.5
0.990477974 BH	13	36	15	9	24.5
0.990598662 BH	0	11	7	2	5.5
0.990598662 BH	29	394	58	104	211.5
0.990598662 BH	4	14	9	5	9
0.990598662 BH	17	10	17	1	13.5
0.990598662 BH	4	60	16	10	32
0.991086466 BH	8	32	23	7	20



0.991086466 BH	2	24	8	2	13
0.991086466 BH	8	13	8	3	10.5
0.991086466 BH	18	60	23	14	39
0.991265778 BH	21	54	25	30	37.5
0.99150417 BH	6	38	12	7	22
0.99150417 BH	3	16	7	7	9.5
0.99150417 BH	5	10	11	4	7.5
0.992049819 BH	11	40	10	13	25.5
0.992049819 BH	17	89	40	31	53
0.992049819 BH	4	22	5	5	13
0.992049819 BH	13	25	13	7	19
0.992128085 BH	17	23	26	10	20
0.992331571 BH	5	9	3	3	7
0.992331571 BH	3	8	5	4	5.5
0.992433491 BH	6	39	7	11	22.5
0.992505744 BH	21	57	33	24	39
0.992703016 BH	4	11	4	2	7.5
0.992703016 BH	4	11	4	2	7.5
0.992703016 BH	2	25	5	12	13.5
0.992703016 BH	12	3	7	3	7.5
0.992710165 BH	5	12	12	3	8.5
0.992755137 BH	3	24	9	10	13.5
0.992919108 BH	4	61	8	16	32.5
0.992919108 BH	0	11	8	1	5.5
0.992919108 BH	11	20	8	7	15.5
0.993174843 BH	4	11	2	4	7.5
0.993174843 BH	2	9	4	5	5.5
0.993174843 BH	35	48	29	18	41.5
0.993174843 BH	12	40	13	11	26
0.993174843 BH	74	103	60	42	88.5
0.993174843 BH	8	25	10	6	16.5
0.993174843 BH	3	24	5	5	13.5
0.993174843 BH	5	19	9	2	12
0.993259582 BH	22	98	37	19	60
0.993259582 BH	8	34	23	8	21
0.993376027 BH	11	130	48	11	70.5
0.993518596 BH	9	13	10	10	11
0.993518596 BH	2	18	9	5	10
0.993570594 BH	4	42	12	7	23
0.993570594 BH	51	73	47	24	62
0.993570594 BH	17	42	15	14	29.5
0.993570594 BH	3	24	4	6	13.5
0.993570594 BH	3	24	4	6	13.5
0.993570594 BH	2	15	3	3	8.5
0.993570594 BH	2	15	3	3	8.5
0.993570594 BH	2	15	3	3	8.5
0.993661295 BH	17	1	25	3	9

0.993661295 BH	8	45	18	17	26.5
0.993661295 BH	11	5	18	1	8
0.993661295 BH	5	31	11	13	18
0.993661295 BH	3	13	5	1	8
0.993661295 BH	2	15	4	2	8.5
0.993661295 BH	32	94	50	41	63
0.993661295 BH	6	47	15	19	26.5
0.994022374 BH	7	26	20	6	16.5
0.994022374 BH	6	29	10	6	17.5
0.994022374 BH	6	30	7	8	18
0.994022374 BH	1	19	2	10	10
0.994022374 BH	1	25	2	7	13
0.994022374 BH	65	0	52	2	32.5
0.994022374 BH	2	15	2	4	8.5
0.994022374 BH	9	0	12	1	4.5
0.994022374 BH	10	34	10	10	22
0.994022374 BH	2	25	5	5	13.5
0.994022374 BH	3	17	3	10	10
0.994102929 BH	4	24	11	9	14
0.994376223 BH	1	10	3	6	5.5
0.994717033 BH	0	55	0	17	27.5
0.99472257 BH	1	11	3	6	6
0.99472257 BH	9	47	17	8	28
0.99472257 BH	0	21	7	6	10.5
0.99472257 BH	3	44	11	8	23.5
0.99472257 BH	8	15	7	4	11.5
0.994779401 BH	2	25	4	6	13.5
0.995020296 BH	759	929	870	546	844
0.995179452 BH	7	38	21	10	22.5
0.995179452 BH	7	9	7	8	8
0.995210431 BH	1	20	7	7	10.5
0.995749284 BH	5	21	7	4	13
0.995749284 BH	5	21	5	6	13
0.995824488 BH	8	61	12	30	34.5
0.995838783 BH	12	30	16	5	21
0.995838783 BH	13	27	16	5	20
0.996307434 BH	1	17	4	2	9
0.996307434 BH	11	87	41	22	49
0.996307434 BH	7	111	21	26	59
0.996307434 BH	8	37	16	15	22.5
0.996736616 BH	2	15	1	5	8.5
0.996892744 BH	16	160	60	18	88
0.996892744 BH	4	33	11	5	18.5
0.996892744 BH	35	4	6	19	19.5
0.996892744 BH	3	18	10	5	10.5
0.996892744 BH	4	23	7	4	13.5
0.996892744 BH	2	26	9	2	14

0.997418683 BH	95	68	76	33	81.5
0.998172398 BH	52	79	36	37	65.5
0.998172398 BH	14	26	16	16	20
0.998172398 BH	8	15	10	2	11.5
0.99845371 BH	0	12	9	0	6
0.99845371 BH	1	10	9	1	5.5
0.99845371 BH	5	33	10	15	19
0.99845371 BH	4	15	13	3	9.5
0.99845371 BH	6	19	10	2	12.5
0.99845371 BH	9	195	46	72	102
0.99845371 BH	0	17	0	5	8.5
0.99845371 BH	0	13	5	4	6.5
0.99845371 BH	561	634	423	554	597.5
0.99845371 BH	2	20	9	6	11
0.99845371 BH	3	25	7	4	14
0.99845371 BH	41	56	51	8	48.5
0.99845371 BH	8	17	17	5	12.5
0.99845371 BH	0	13	6	3	6.5
0.99845371 BH	0	13	4	5	6.5
0.99845371 BH	0	21	12	2	10.5
0.99845371 BH	7	104	20	24	55.5
0.998834658 BH	6	32	6	9	19
0.998834658 BH	6	7	7	0	6.5
0.99972248 BH	4	12	4	3	8
0.99972248 BH	4	13	4	3	8.5
0.99972248 BH	5	11	5	2	8
0.99972248 BH	4	12	3	4	8
0.99972248 BH	4	12	3	4	8
0.99972248 BH	4	13	3	4	8.5
0.99972248 BH	7	19	6	6	13
0.99972248 BH	6	13	10	6	9.5
0.99972248 BH	7	19	6	6	13
0.99972248 BH	2	21	11	4	11.5
0.99972248 BH	2	10	5	5	6
0.99972248 BH	3	14	4	3	8.5
0.99972248 BH	6	9	5	2	7.5
0.99972248 BH	3	14	4	3	8.5
0.99972248 BH	5	10	6	2	7.5
0.99972248 BH	20	78	43	25	49
0.999923996 BH	9	14	7	5	11.5
0.999973119 BH	22	61	27	16	41.5
0.999973119 BH	4	12	6	2	8
0.999973119 BH	2	11	6	4	6.5
0.999973119 BH	9	23	25	2	16
1 BH	6	13	11	5	9.5
1 BH	7	7	5	2	7
1 BH	3	15	5	2	9

1 BH	8	30	18	10	19
1 BH	5	16	6	9	10.5
1 BH	5	22	7	5	13.5
1 BH	5	22	7	5	13.5
1 BH	9	39	12	10	24
1 BH	8	5	4	3	6.5
1 BH	2	16	4	3	9
1 BH	2	16	4	3	9
1 BH	34	95	64	30	64.5
1 BH	0	19	2	4	9.5
1 BH	22	98	22	56	60
1 BH	6	33	9	8	19.5
1 BH	0	50	27	7	25
1 BH	39	390	55	117	214.5
1 BH	46	38	62	18	42
1 BH	2	11	8	2	6.5
1 BH	2	17	3	4	9.5
1 BH	4	13	6	1	8.5
1 BH	20	262	56	104	141
1 BH	5	10	7	1	7.5
1 BH	136	32	103	28	84
1 BH	1	12	4	6	6.5
1 BH	1	12	4	6	6.5
1 BH	10	28	14	14	19
1 BH	10	29	17	11	19.5
1 BH	3	14	7	1	8.5
1 BH	3	14	7	1	8.5
1 BH	72	455	131	106	263.5
1 BH	3	83	22	27	43
1 BH	12	374	80	135	193
1 BH	8	24	16	0	16
1 BH	1	14	7	3	7.5
1 BH	11	24	9	9	17.5
1 BH	3	37	6	10	20
1 BH	7	6	7	1	6.5
1 BH	50	18	38	10	34
1 BH	4	17	14	3	10.5
1 BH	25	144	51	57	84.5
1 BH	11	47	17	22	29
1 BH	1	18	4	3	9.5
1 BH	1	18	4	3	9.5
1 BH	33	25	26	12	29
1 BH	19	16	28	6	17.5
1 BH	1	13	8	2	7
1 BH	6	45	16	7	25.5
1 BH	7	24	16	7	15.5
1 BH	1	14	8	2	7.5

1 BH	3	91	25	31	47
1 BH	36	38	46	20	37
1 BH	11	39	17	17	25
1 BH	5	48	12	10	26.5
1 BH	24	162	35	44	93
1 BH	1	13	2	7	7
1 BH	9	17	9	4	13
1 BH	210	367	169	255	288.5
1 BH	12	96	41	29	54
1 BH	50	157	55	47	103.5
1 BH	6	11	5	3	8.5
1 BH	16	153	25	72	84.5
1 BH	8	18	11	3	13
1 BH	3	10	7	4	6.5
1 BH	6	10	5	3	8
1 BH	3	11	7	4	7
1 BH	5	6	6	5	5.5
1 BH	15	73	19	36	44
1 BH	2	48	4	23	25
1 BH	2	33	10	11	17.5
1 BH	6	11	6	2	8.5
1 BH	6	11	6	2	8.5
1 BH	7	36	17	12	21.5
1 BH	4	15	6	2	9.5
1 BH	4	15	6	2	9.5
1 BH	3	16	5	3	9.5
1 BH	7	26	14	9	16.5
1 BH	19	115	34	25	67
1 BH	15	18	12	7	16.5
1 BH	13	22	7	11	17.5
1 BH	46	142	50	45	94
1 BH	17	107	27	26	62
1 BH	42	0	52	5	21
1 BH	7	6	8	0	6.5
1 BH	82	49	77	49	65.5
1 BH	63	121	51	50	92
1 BH	3	11	9	2	7
1 BH	13	73	15	23	43
1 BH	16	57	24	12	36.5
1 BH	199	384	236	97	291.5
1 BH	93	315	97	105	204
1 BH	214	1118	525	326	666
1 BH	0	20	4	3	10
1 BH	0	20	4	3	10
1 BH	0	20	4	3	10
1 BH	2	18	5	3	10
1 BH	5	13	7	1	9

1 BH	2	18	4	4	10
1 BH	2	18	5	3	10
1 BH	13	48	29	14	30.5
1 BH	439	191	449	188	315
1 BH	2	41	7	10	21.5
1 BH	7	75	39	15	41
1 BH	26	34	28	8	30
1 BH	2	19	5	3	10.5
1 BH	2	18	3	5	10
1 BH	53	256	90	104	154.5
1 BH	6	70	6	22	38
1 BH	9	24	15	9	16.5
1 BH	0	15	2	7	7.5
1 BH	46	30	32	19	38
1 BH	7	95	21	21	51
1 BH	49	168	66	44	108.5
1 BH	4	32	12	11	18
1 BH	3	17	7	1	10
1 BH	1	15	8	3	8
1 BH	9	23	18	7	16
1 BH	6	17	14	4	11.5
1 BH	37	124	30	48	80.5
1 BH	22	47	16	20	34.5
1 BH	1	20	5	3	10.5
1 BH	8	25	19	6	16.5
1 BH	0	94	14	20	47
1 BH	1	15	9	2	8
1 BH	1	15	9	2	8
1 BH	1383	673	710	731	1028
1 BH	1	26	7	9	13.5
1 BH	25	42	23	15	33.5
1 BH	9	57	33	11	33
1 BH	3	12	7	5	7.5
1 BH	33	126	47	30	79.5
1 BH	11	107	29	22	59
1 BH	11	33	15	16	22
1 BH	4	16	5	4	10
1 BH	4	16	5	4	10
1 BH	10	24	17	8	17
1 BH	4	16	6	3	10
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1 BH	5	40	12	8	22.5
1 BH	4	11	9	3	7.5
1 BH	6	12	7	2	9
1 BH	6	26	10	5	16
1 BH	925	817	787	694	871

1 BH	8	27	9	15	17.5
1 BH	6	31	14	11	18.5
1 BH	22	134	43	27	78
1 BH	4	16	7	2	10
1 BH	689	1041	518	774	865
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1 BH	208	84	201	94	146
1 BH	5	28	10	5	16.5
1 BH	3	24	15	3	13.5
1 BH	5	33	14	11	19
1 BH	2	20	5	4	11
1 BH	10	46	9	16	28
1 BH	4	42	8	11	23
1 BH	6	41	10	10	23.5
1 BH	40	117	52	31	78.5
1 BH	10	33	14	8	21.5
1 BH	17	78	29	15	47.5
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1 BH	8	23	10	6	15.5
1 BH	9	35	14	8	22
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1 BH	9	35	16	6	22
1 BH	3	32	10	5	17.5
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1 BH	29	22	25	7	25.5
1 BH	13	34	19	15	23.5
1 BH	47	317	40	116	182
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1 BH	8	19	14	6	13.5
1 BH	4	12	11	2	8
1 BH	127	223	87	110	175
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1 BH	3	20	8	2	11.5
1 BH	3	20	8	2	11.5
1 BH	88	12	69	15	50
1 BH	32	70	31	25	51
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1 BH	3	15	11	2	9
1 BH	3	14	11	2	8.5
1 BH	14	13	7	9	13.5

1 BH	92	52	69	34	72
1 BH	1	10	3	1	5.5
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1 BH	3	37	8	17	20
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1 BH	8	25	14	3	16.5
1 BH	68	18	63	3	43
1 BH	38	219	86	71	128.5
1 BH	163	55	134	38	109
1 BH	46	77	37	55	61.5
1 BH	13	49	24	20	31
1 BH	27	25	44	4	26
1 BH	39	57	38	20	48
1 BH	1054	567	938	578	810.5
1 BH	10	39	15	9	24.5
1 BH	25	56	33	10	40.5
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1 BH	12	122	25	33	67
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1 BH	0	12	3	1	6
1 BH	0	12	3	1	6
1 BH	14	14	14	4	14
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1 BH	5	14	8	6	9.5
1 BH	15	66	19	18	40.5
1 BH	12	44	16	20	28



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1 BH	4	64	23	7	34
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1 BH	1	24	1	8	12.5
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1 BH	4	21	5	6	12.5
1 BH	5	19	9	3	12
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1 BH	52	96	79	35	74
1 BH	64	207	88	56	135.5
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1 BH	13	56	14	17	34.5
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1 BH	2	9	3	2	5.5
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1 BH	2	27	5	7	14.5
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1 BH	3	24	8	8	13.5
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1 BH	11	61	17	25	36
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1 BH	26	32	25	20	29
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1 BH	2	12	6	0	7
1 BH	9	18	11	4	13.5
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1 BH	11	33	19	5	22
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1 BH	6	19	14	4	12.5
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1 BH	2	9	5	3	5.5
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1 BH	0	15	1	4	7.5
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1 BH	6	23	14	1	14.5
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1 BH	2	10	4	4	6
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1 BH	32	15	36	10	23.5
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1 BH	1	12	4	4	6.5
1 BH	167	365	194	169	266
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1 BH	3	70	15	23	36.5
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1 BH	5	11	6	4	8
1 BH	14	94	24	27	54
1 BH	1	19	10	3	10
1 BH	0	27	5	7	13.5
1 BH	0	11	3	1	5.5
1 BH	10	31	10	15	20.5
1 BH	4	24	5	8	14
1 BH	1	10	2	6	5.5
1 BH	0	20	0	11	10
1 BH	0	11	0	4	5.5
1 BH	9	8	11	1	8.5
1 BH	25	176	66	34	100.5
1 BH	5	28	13	3	16.5
1 BH	0	11	3	1	5.5
1 BH	31	34	32	17	32.5
1 BH	10	13	7	6	11.5
1 BH	109	30	106	26	69.5
1 BH	3	24	10	7	13.5
1 BH	7	31	15	6	19
1 BH	4	13	0	10	8.5
1 BH	1	17	0	6	9
1 BH	5	15	12	3	10
1 BH	0	11	3	3	5.5
1 BH	6	36	9	13	21



1 BH	7	31	10	11	19
1 BH	3	26	3	9	14.5
1 BH	3	22	5	5	12.5
1 BH	0	15	5	3	7.5
1 BH	1	13	6	1	7
1 BH	12	21	17	6	16.5
1 BH	13	21	17	6	17
1 BH	3	8	2	4	5.5
1 BH	0	12	6	2	6
1 BH	6	32	9	10	19
1 BH	0	16	1	5	8
1 BH	4	20	6	4	12
1 BH	3	24	8	5	13.5
1 BH	5	16	9	7	10.5
1 BH	6	11	7	4	8.5
1 BH	1	10	5	0	5.5
1 BH	9	19	6	12	14
1 BH	0	17	4	6	8.5
1 BH	6	18	7	4	12
1 BH	0	14	4	3	7
1 BH	0	12	3	2	6
1 BH	28	149	40	51	88.5
1 BH	6	30	13	9	18
1 BH	0	11	3	2	5.5
1 BH	4	34	9	13	19
1 BH	1	12	3	1	6.5
1 BH	8	27	14	8	17.5
1 BH	8	13	10	4	10.5
1 BH	2	58	18	9	30
1 BH	28	59	29	26	43.5
1 BH	1	17	6	2	9
1 BH	7	19	15	5	13
1 BH	4	16	8	4	10
1 BH	1	11	8	1	6
1 BH	2	9	6	1	5.5
1 BH	0	11	3	3	5.5
1 BH	3	24	7	6	13.5
1 BH	2	30	11	5	16
1 BH	3	34	12	7	18.5
1 BH	9	23	16	8	16
1 BH	5	13	5	5	9
1 BH	0	15	3	4	7.5
1 BH	12	2	9	1	7
1 BH	18	7	4	17	12.5
1 BH	0	22	0	7	11
1 BH	14	41	21	9	27.5
1 BH	5	12	5	5	8.5

1 BH	2	28	4	7	15
1 BH	13	147	58	22	80
1 BH	5	10	7	2	7.5
1 BH	4	17	8	2	10.5
1 BH	0	13	3	4	6.5
1 BH	12	23	13	7	17.5
1 BH	51	220	45	97	135.5
1 BH	4	9	6	2	6.5
1 BH	2	22	5	4	12
1 BH	7	15	12	3	11
1 BH	0	11	3	2	5.5
1 BH	16	0	13	0	8
1 BH	7	38	14	8	22.5
1 BH	6	18	6	7	12
1 BH	5	54	19	8	29.5
1 BH	0	15	0	6	7.5
1 BH	91	24	105	15	57.5
1 BH	4	18	5	4	11
1 BH	13	45	22	13	29
1 BH	1	23	5	7	12
1 BH	1	10	1	5	5.5
1 BH	6	30	9	9	18
1 BH	5	55	18	18	30
1 BH	17	92	34	26	54.5
1 BH	1	14	3	4	7.5
1 BH	3	15	7	4	9
1 BH	6	22	6	8	14
1 BH	10	23	13	7	16.5
1 BH	1	21	14	2	11
1 BH	1	20	5	5	10.5
1 BH	4	15	10	4	9.5
1 BH	3	15	6	4	9
1 BH	11	18	16	5	14.5
1 BH	15	25	19	6	20
1 BH	7	11	7	3	9
1 BH	2	17	5	5	9.5
1 BH	6	62	13	25	34
1 BH	20	27	18	14	23.5
1 BH	2	34	10	8	18
1 BH	9	43	20	6	26
1 BH	11	77	25	16	44
1 BH	14	9	4	13	11.5
1 BH	10	38	21	6	24
1 BH	0	11	4	2	5.5
1 BH	2	29	6	7	15.5
1 BH	4	24	10	3	14
1 BH	15	56	15	21	35.5

1 BH	19	74	22	30	46.5
1 BH	11	25	9	13	18
1 BH	1	12	2	2	6.5
1 BH	0	14	1	7	7
1 BH	0	11	3	1	5.5
1 BH	0	16	2	3	8
1 BH	4	18	7	5	11
1 BH	4	17	5	5	10.5
1 BH	6	43	13	12	24.5
1 BH	5	11	9	1	8
1 BH	10	25	13	9	17.5
1 BH	3	14	2	8	8.5
1 BH	1	11	7	2	6
1 BH	6	23	5	14	14.5
1 BH	3	31	7	7	17
1 BH	8	39	22	5	23.5
1 BH	0	14	4	2	7
1 BH	2	17	8	2	9.5
1 BH	16	59	26	19	37.5
1 BH	2	13	6	2	7.5
1 BH	22	118	43	32	70
1 BH	3	89	5	43	46
1 BH	0	24	8	3	12
1 BH	7	23	8	6	15
1 BH	5	18	7	5	11.5
1 BH	31	0	27	2	15.5
1 BH	10	17	15	1	13.5
1 BH	1	13	7	2	7
1 BH	1	16	2	8	8.5
1 BH	83	116	70	72	99.5
1 BH	11	40	11	15	25.5
1 BH	22	62	34	13	42
1 BH	0	12	5	0	6
1 BH	6	27	15	5	16.5
1 BH	124	208	88	125	166
1 BH	0	13	4	2	6.5
1 BH	4	29	11	8	16.5
1 BH	34	158	15	78	96
1 BH	3	18	6	5	10.5
1 BH	9	24	17	4	16.5
1 BH	14	39	10	21	26.5
1 BH	3	45	16	13	24
1 BH	2	13	7	2	7.5
1 BH	9	11	11	3	10
1 BH	2	9	4	3	5.5
1 BH	8	24	13	8	16
1 BH	4	30	10	9	17

1 BH	1	12	1	6	6.5
1 BH	0	17	1	6	8.5
1 BH	3	14	6	3	8.5
1 BH	5	9	10	1	7
1 BH	32	82	40	27	57
1 BH	0	23	0	7	11.5
1 BH	2	18	8	3	10
1 BH	9	52	11	17	30.5
1 BH	35	50	37	24	42.5
1 BH	23	55	24	19	39
1 BH	1	11	5	2	6
1 BH	10	39	19	12	24.5
1 BH	4	18	4	5	11
1 BH	0	11	6	0	5.5
1 BH	35	72	14	43	53.5
1 BH	3	10	8	0	6.5
1 BH	3	11	5	2	7
1 BH	0	12	0	4	6
1 BH	5	11	9	2	8
1 BH	1	15	4	3	8
1 BH	11	9	12	3	10
1 BH	16	13	13	5	14.5
1 BH	3	27	4	8	15
1 BH	1	14	4	2	7.5
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1 BH	1	12	3	1	6.5
1 BH	3	12	5	4	7.5
1 BH	0	13	0	7	6.5
1 BH	0	13	4	3	6.5
1 BH	2	14	6	3	8
1 BH	2	9	7	2	5.5
1 BH	3	12	3	3	7.5
1 BH	2	11	5	3	6.5
1 BH	2	25	9	5	13.5
1 BH	4	18	2	8	11
1 BH	5	17	12	2	11
1 BH	3	8	2	2	5.5

replicates for the samples (T6 and P18). The average of the counts for replicates were considered to be

**T6 - mean T6 > P18**

1364	TRUE
828	TRUE
487	TRUE
349	TRUE
0	FALSE
158	TRUE
996	TRUE
152	TRUE
388	TRUE
2	FALSE
555.5	TRUE
353	TRUE
127	TRUE
981	TRUE
0	FALSE
240.5	TRUE
0	FALSE
0	FALSE
177.5	TRUE
207.5	TRUE
311	TRUE
647.5	TRUE
95.5	TRUE
109.5	TRUE
149.5	TRUE
94.5	TRUE
187	TRUE
0	FALSE
384.5	TRUE
0	FALSE
0	FALSE
3602	TRUE
141	TRUE
122.5	TRUE
83.5	TRUE
183.5	TRUE
294.5	TRUE
179	TRUE
72	TRUE
70.5	TRUE
0.5	FALSE
0.5	FALSE
446	TRUE
69	TRUE
68	TRUE

0	FALSE
185.5	TRUE
72	TRUE
106.5	TRUE
311.5	TRUE
348	TRUE
61	TRUE
68	TRUE
125	TRUE
91	TRUE
90.5	TRUE
0	FALSE
131.5	TRUE
58	TRUE
68	TRUE
129.5	TRUE
99.5	TRUE
55	TRUE
120.5	TRUE
54.5	TRUE
0	FALSE
260.5	TRUE
259.5	TRUE
52.5	TRUE
50.5	TRUE
51.5	TRUE
181	TRUE
57	TRUE
48.5	TRUE
1	FALSE
48.5	TRUE
49	TRUE
426	TRUE
102.5	TRUE
71.5	TRUE
511.5	TRUE
89	TRUE
157.5	TRUE
67.5	TRUE
0	FALSE
63.5	TRUE
53.5	TRUE
138	TRUE
347	TRUE
42	TRUE
43.5	TRUE
42	TRUE

75	TRUE
0	FALSE
87	TRUE
0	FALSE
48.5	TRUE
424.5	TRUE
39	TRUE
0	FALSE
45	TRUE
40	TRUE
56.5	TRUE
37.5	TRUE
82.5	TRUE
37	TRUE
77.5	TRUE
988	TRUE
176.5	TRUE
0	FALSE
12	FALSE
0	FALSE
0.5	FALSE
37.5	TRUE
37.5	TRUE
41	TRUE
328	TRUE
2.5	FALSE
35.5	TRUE
35	TRUE
40	TRUE
34.5	TRUE
0	FALSE
42	TRUE
1334.5	TRUE
33	TRUE
51.5	TRUE
36	TRUE
32.5	TRUE
0	FALSE
1.5	FALSE
32.5	TRUE
283	TRUE
1	FALSE
38	TRUE
0	FALSE
32.5	TRUE
34.5	TRUE
1.5	FALSE

45.5	TRUE
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101	TRUE
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1	FALSE
45.5	TRUE
30	TRUE
57.5	TRUE
38.5	TRUE
29.5	TRUE
30	TRUE
36	TRUE
19.5	FALSE
239.5	TRUE
30.5	TRUE
44	TRUE
29	TRUE
29.5	TRUE
4.5	FALSE
33.5	TRUE
0	FALSE
29	TRUE
29	TRUE
29	TRUE
63	TRUE
9	FALSE
54.5	TRUE
31	TRUE
34.5	TRUE
27.5	TRUE
27.5	TRUE
29	TRUE
28	TRUE
28.5	TRUE
0	FALSE
554.5	TRUE
31.5	TRUE
90.5	TRUE
27.5	TRUE
27.5	TRUE
72	TRUE
187	TRUE
32	TRUE
0	FALSE
61.5	TRUE
0	FALSE
26.5	TRUE



33.5	TRUE
5.5	FALSE
26	TRUE
26	TRUE
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51.5	TRUE
79	TRUE
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11	FALSE
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24.5	TRUE
56.5	TRUE
148	TRUE
29.5	TRUE
27	TRUE
37.5	TRUE
26	TRUE
19	FALSE
3	FALSE
77	TRUE
24.5	TRUE
24.5	TRUE
54	TRUE
24	TRUE
29	TRUE
30	TRUE
24.5	TRUE
26	TRUE
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34.5	TRUE
28	TRUE

60.5	TRUE
42.5	TRUE
2.5	FALSE
41.5	TRUE
38	TRUE
24	TRUE
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0.5	FALSE
123	TRUE
17	FALSE
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42.5	TRUE
32.5	TRUE
6.5	FALSE
0	FALSE
24	TRUE
34.5	TRUE
28.5	TRUE
21.5	TRUE
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22	TRUE
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35	TRUE
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0.5	FALSE
0	FALSE
91	TRUE
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46.5	TRUE
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0	FALSE
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0	FALSE
35	TRUE
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0	FALSE
19.5	TRUE
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21	TRUE
4.5	FALSE
19	TRUE
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7	FALSE
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72	TRUE

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2	FALSE
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10.5	FALSE

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2.5	FALSE

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15	TRUE
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19.5	TRUE



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22	FALSE
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12.5	TRUE

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1.5	FALSE
4.5	FALSE
9.5	FALSE
10	TRUE
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0	FALSE
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