

Supplementary Table 2. Annotation and t-SNE clustering of DEGs between flight and ground control in *Arabidopsis* roots or leaves from human-tended VG suborbital spaceflight experiments. Log2FC numbers highlighted in yellow indicate a significant change ($P_{adj} < 0.05$). Red indicates upregulation ($\text{Log2FC} > 1$) and blue indicates downregulation ($\text{Log2FC} < -1$). DEGs belonging to each functional category are highlighted by purple, and those with significant changes in APEX03/APEX04 spaceflight are highlighted by ochre.

Accession	Gene	Protein	Function	Location	Structure	Annotation	Score	Cluster	ROS	ROS c1	ROS c2	ROS c3	ROS c4	ROS c5	ROS c6	ROS c7	ROS c8	ROS c9	ROS c10	ROS c11	ROS c12	ROS c13	ROS c14	ROS c15	ROS c16	ROS c17	ROS c18	ROS c19	ROS c20	ROS c21	ROS c22	ROS c23	ROS c24	ROS c25	ROS c26	ROS c27	ROS c28	ROS c29	ROS c30	ROS c31	ROS c32	ROS c33	ROS c34	ROS c35	ROS c36	ROS c37	ROS c38	ROS c39	ROS c40	ROS c41	ROS c42	ROS c43	ROS c44	ROS c45	ROS c46	ROS c47	ROS c48	ROS c49	ROS c50	ROS c51	ROS c52	ROS c53	ROS c54	ROS c55	ROS c56	ROS c57	ROS c58	ROS c59	ROS c60	ROS c61	ROS c62	ROS c63	ROS c64	ROS c65	ROS c66	ROS c67	ROS c68	ROS c69	ROS c70	ROS c71	ROS c72	ROS c73	ROS c74	ROS c75	ROS c76	ROS c77	ROS c78	ROS c79	ROS c80	ROS c81	ROS c82	ROS c83	ROS c84	ROS c85	ROS c86	ROS c87	ROS c88	ROS c89	ROS c90	ROS c91	ROS c92	ROS c93	ROS c94	ROS c95	ROS c96	ROS c97	ROS c98	ROS c99	ROS c100	ROS c101	ROS c102	ROS c103	ROS c104	ROS c105	ROS c106	ROS c107	ROS c108	ROS c109	ROS c110	ROS c111	ROS c112	ROS c113	ROS c114	ROS c115	ROS c116	ROS c117	ROS c118	ROS c119	ROS c120	ROS c121	ROS c122	ROS c123	ROS c124	ROS c125	ROS c126	ROS c127	ROS c128	ROS c129	ROS c130	ROS c131	ROS c132	ROS c133	ROS c134	ROS c135	ROS c136	ROS c137	ROS c138	ROS c139	ROS c140	ROS c141	ROS c142	ROS c143	ROS c144	ROS c145	ROS c146	ROS c147	ROS c148	ROS c149	ROS c150	ROS c151	ROS c152	ROS c153	ROS c154	ROS c155	ROS c156	ROS c157	ROS c158	ROS c159	ROS c160	ROS c161	ROS c162	ROS c163	ROS c164	ROS c165	ROS c166	ROS c167	ROS c168	ROS c169	ROS c170	ROS c171	ROS c172	ROS c173	ROS c174	ROS c175	ROS c176	ROS c177	ROS c178	ROS c179	ROS c180	ROS c181	ROS c182	ROS c183	ROS c184	ROS c185	ROS c186	ROS c187	ROS c188	ROS c189	ROS c190	ROS c191	ROS c192	ROS c193	ROS c194	ROS c195	ROS c196	ROS c197	ROS c198	ROS c199	ROS c200	ROS c201	ROS c202	ROS c203	ROS c204	ROS c205	ROS c206	ROS c207	ROS c208	ROS c209	ROS c210	ROS c211	ROS c212	ROS c213	ROS c214	ROS c215	ROS c216	ROS c217	ROS c218	ROS c219	ROS c220	ROS c221	ROS c222	ROS c223	ROS c224	ROS c225	ROS c226	ROS c227	ROS c228	ROS c229	ROS c230	ROS c231	ROS c232	ROS c233	ROS c234	ROS c235	ROS c236	ROS c237	ROS c238	ROS c239	ROS c240	ROS c241	ROS c242	ROS c243	ROS c244	ROS c245	ROS c246	ROS c247	ROS c248	ROS c249	ROS c250	ROS c251	ROS c252	ROS c253	ROS c254	ROS c255	ROS c256	ROS c257	ROS c258	ROS c259	ROS c260	ROS c261	ROS c262	ROS c263	ROS c264	ROS c265	ROS c266	ROS c267	ROS c268	ROS c269	ROS c270	ROS c271	ROS c272	ROS c273	ROS c274	ROS c275	ROS c276	ROS c277	ROS c278	ROS c279	ROS c280	ROS c281	ROS c282	ROS c283	ROS c284	ROS c285	ROS c286	ROS c287	ROS c288	ROS c289	ROS c290	ROS c291	ROS c292	ROS c293	ROS c294	ROS c295	ROS c296	ROS c297	ROS c298	ROS c299	ROS c300	ROS c301	ROS c302	ROS c303	ROS c304	ROS c305	ROS c306	ROS c307	ROS c308	ROS c309	ROS c310	ROS c311	ROS c312	ROS c313	ROS c314	ROS c315	ROS c316	ROS c317	ROS c318	ROS c319	ROS c320	ROS c321	ROS c322	ROS c323	ROS c324	ROS c325	ROS c326	ROS c327	ROS c328	ROS c329	ROS c330	ROS c331	ROS c332	ROS c333	ROS c334	ROS c335	ROS c336	ROS c337	ROS c338	ROS c339	ROS c340	ROS c341	ROS c342	ROS c343	ROS c344	ROS c345	ROS c346	ROS c347	ROS c348	ROS c349	ROS c350	ROS c351	ROS c352	ROS c353	ROS c354	ROS c355	ROS c356	ROS c357	ROS c358	ROS c359	ROS c360	ROS c361	ROS c362	ROS c363	ROS c364	ROS c365	ROS c366	ROS c367	ROS c368	ROS c369	ROS c370	ROS c371	ROS c372	ROS c373	ROS c374	ROS c375	ROS c376	ROS c377	ROS c378	ROS c379	ROS c380	ROS c381	ROS c382	ROS c383	ROS c384	ROS c385	ROS c386	ROS c387	ROS c388	ROS c389	ROS c390	ROS c391	ROS c392	ROS c393	ROS c394	ROS c395	ROS c396	ROS c397	ROS c398	ROS c399	ROS c400	ROS c401	ROS c402	ROS c403	ROS c404	ROS c405	ROS c406	ROS c407	ROS c408	ROS c409	ROS c410	ROS c411	ROS c412	ROS c413	ROS c414	ROS c415	ROS c416	ROS c417	ROS c418	ROS c419	ROS c420	ROS c421	ROS c422	ROS c423	ROS c424	ROS c425	ROS c426	ROS c427	ROS c428	ROS c429	ROS c430	ROS c431	ROS c432	ROS c433	ROS c434	ROS c435	ROS c436	ROS c437	ROS c438	ROS c439	ROS c440	ROS c441	ROS c442	ROS c443	ROS c444	ROS c445	ROS c446	ROS c447	ROS c448	ROS c449	ROS c450	ROS c451	ROS c452	ROS c453	ROS c454	ROS c455	ROS c456	ROS c457	ROS c458	ROS c459	ROS c460	ROS c461	ROS c462	ROS c463	ROS c464	ROS c465	ROS c466	ROS c467	ROS c468	ROS c469	ROS c470	ROS c471	ROS c472	ROS c473	ROS c474	ROS c475	ROS c476	ROS c477	ROS c478	ROS c479	ROS c480	ROS c481	ROS c482	ROS c483	ROS c484	ROS c485	ROS c486	ROS c487	ROS c488	ROS c489	ROS c490	ROS c491	ROS c492	ROS c493	ROS c494	ROS c495	ROS c496	ROS c497	ROS c498	ROS c499	ROS c500	ROS c501	ROS c502	ROS c503	ROS c504	ROS c505	ROS c506	ROS c507	ROS c508	ROS c509	ROS c510	ROS c511	ROS c512	ROS c513	ROS c514	ROS c515	ROS c516	ROS c517	ROS c518	ROS c519	ROS c520	ROS c521	ROS c522	ROS c523	ROS c524	ROS c525	ROS c526	ROS c527	ROS c528	ROS c529	ROS c530	ROS c531	ROS c532	ROS c533	ROS c534	ROS c535	ROS c536	ROS c537	ROS c538	ROS c539	ROS c540	ROS c541	ROS c542	ROS c543	ROS c544	ROS c545	ROS c546	ROS c547	ROS c548	ROS c549	ROS c550	ROS c551	ROS c552	ROS c553	ROS c554	ROS c555	ROS c556	ROS c557	ROS c558	ROS c559	ROS c560	ROS c561	ROS c562	ROS c563	ROS c564	ROS c565	ROS c566	ROS c567	ROS c568	ROS c569	ROS c570	ROS c571	ROS c572	ROS c573	ROS c574	ROS c575	ROS c576	ROS c577	ROS c578	ROS c579	ROS c580	ROS c581	ROS c582	ROS c583	ROS c584	ROS c585	ROS c586	ROS c587	ROS c588	ROS c589	ROS c590	ROS c591	ROS c592	ROS c593	ROS c594	ROS c595	ROS c596	ROS c597	ROS c598	ROS c599	ROS c600	ROS c601	ROS c602	ROS c603	ROS c604	ROS c605	ROS c606	ROS c607	ROS c608	ROS c609	ROS c610	ROS c611	ROS c612	ROS c613	ROS c614	ROS c615	ROS c616	ROS c617	ROS c618	ROS c619	ROS c620	ROS c621	ROS c622	ROS c623	ROS c624	ROS c625	ROS c626	ROS c627	ROS c628	ROS c629	ROS c630	ROS c631	ROS c632	ROS c633	ROS c634	ROS c635	ROS c636	ROS c637	ROS c638	ROS c639	ROS c640	ROS c641	ROS c642	ROS c643	ROS c644	ROS c645	ROS c646	ROS c647	ROS c648	ROS c649	ROS c650	ROS c651	ROS c652	ROS c653	ROS c654	ROS c655	ROS c656	ROS c657	ROS c658	ROS c659	ROS c660	ROS c661	ROS c662	ROS c663	ROS c664	ROS c665	ROS c666	ROS c667	ROS c668	ROS c669	ROS c670	ROS c671	ROS c672	ROS c673	ROS c674	ROS c675	ROS c676	ROS c677	ROS c678	ROS c679	ROS c680	ROS c681	ROS c682	ROS c683	ROS c684	ROS c685	ROS c686	ROS c687	ROS c688	ROS c689	ROS c690	ROS c691	ROS c692	ROS c693	ROS c694	ROS c695	ROS c696	ROS c697	ROS c698	ROS c699	ROS c700	ROS c701	ROS c702	ROS c703	ROS c704	ROS c705	ROS c706	ROS c707	ROS c708	ROS c709	ROS c710	ROS c711	ROS c712	ROS c713	ROS c714	ROS c715	ROS c716	ROS c717	ROS c718	ROS c719	ROS c720	ROS c721	ROS c722	ROS c723	ROS c724	ROS c725	ROS c726	ROS c727	ROS c728	ROS c729	ROS c730	ROS c731	ROS c732	ROS c733	ROS c734	ROS c735	ROS c736	ROS c737	ROS c738	ROS c739	ROS c740	ROS c741	ROS c742	ROS c743	ROS c744	ROS c745	ROS c746	ROS c747	ROS c748	ROS c749	ROS c750	ROS c751	ROS c752	ROS c753	ROS c754	ROS c755	ROS c756	ROS c757	ROS c758	ROS c759	ROS c760	ROS c761	ROS c762	ROS c763	ROS c764	ROS c765	ROS c766	ROS c767	ROS c768	ROS c769	ROS c770	ROS c771	ROS c772	ROS c773	ROS c774	ROS c775	ROS c776	ROS c777	ROS c778	ROS c779	ROS c780	ROS c781	ROS c782	ROS c783	ROS c784	ROS c785	ROS c786	ROS c787	ROS c788	ROS c789	ROS c790	ROS c791	ROS c792	ROS c793	ROS c794	ROS c795	ROS c796	ROS c797	ROS c798	ROS c799	ROS c800	ROS c801	ROS c802	ROS c803	ROS c804	ROS c805	ROS c806	ROS c807	ROS c808	ROS c809	ROS c810	ROS c811	ROS c812	ROS c813	ROS c814	ROS c815	ROS c816	ROS c817	ROS c818	ROS c819	ROS c820	ROS c821	ROS c822	ROS c823	ROS c824	ROS c825	ROS c826	ROS c827	ROS c828	ROS c829	ROS c830	ROS c831	ROS c832	ROS c833	ROS c834	ROS c835	ROS c836	ROS c837	ROS c838	ROS c839	ROS c840	ROS c841	ROS c842	ROS c843	ROS c844	ROS c845	ROS c846	ROS c847	ROS c848	ROS c849	ROS c850	ROS c851	ROS c852	ROS c853	ROS c854	ROS c855	ROS c856	ROS c857	ROS c858	ROS c859	ROS c860	ROS c861	ROS c862	ROS c863	ROS c864	ROS c865	ROS c866	ROS c867	ROS c868	ROS c869	ROS c870	ROS c871	ROS c872	ROS c873	ROS c874	ROS c875	ROS c876	ROS c877	ROS c878	ROS c879	ROS c880	ROS c881	ROS c882	ROS c883	ROS c884	ROS c885	ROS c886	ROS c887	ROS c888	ROS c889	ROS c890	ROS c891	ROS c892	ROS c893	ROS c894	ROS c895	ROS c896	ROS c897	ROS c898	ROS c899	ROS c900	ROS c901	ROS c902	ROS c903	ROS c904	ROS c905	ROS c906	ROS c907	ROS c908	ROS c909	ROS c910	ROS c911	ROS c912	ROS c913	ROS c914	ROS c915	ROS c916	ROS c917	ROS c918	ROS c919	ROS c920	ROS c921	ROS c922	ROS c923	ROS c924	ROS c925	ROS c926	ROS c927	ROS c928	ROS c929	ROS c930	ROS c931	ROS c932	ROS c933	ROS c934	ROS c935	ROS c936	ROS c937	ROS c938	ROS c939	ROS c940	ROS c941	ROS c942	ROS c943	ROS c944	ROS c945	ROS c946	ROS c947	ROS c948	ROS c949	ROS c950	ROS c951	ROS c952	ROS c953	ROS c954	ROS c955	ROS c956	ROS c957	ROS c958	ROS c959	ROS c960	ROS c961	ROS c962	ROS c963	ROS c964	ROS c965	ROS c966	ROS c967	ROS c968	ROS c969	ROS c970	ROS c971	ROS c972	ROS c973	ROS c974	ROS c975	ROS c976	ROS c977	ROS c978	ROS c979	ROS c980	ROS c981	ROS c982	ROS c983	ROS c984	ROS c985	ROS c986	ROS c987	ROS c988	ROS c989	ROS c990	ROS c991	ROS c992	ROS c993	ROS c994	ROS c995	ROS c996	ROS c997	ROS c998	ROS c999	ROS c1000	ROS c1001	ROS c1002	ROS c1003	ROS c1004	ROS c1005	ROS c1006	ROS c1007	ROS c1008	ROS c1009	ROS c1010	ROS c1011	ROS c1012	ROS c1013	ROS c1014	ROS c1015	ROS c1016	ROS c1017	ROS c1018	ROS c1019	ROS c1020	ROS c1021	ROS c1022	ROS c1023	ROS c1024	ROS c1025	ROS c1026	ROS c1027	ROS c1028	ROS c1029	ROS c1030	ROS c1031	ROS c1032	ROS c1033	ROS c1034	ROS c1035	ROS c1036	ROS c1037	ROS c1038	ROS c1039	ROS c1040	ROS c1041	ROS c1042	ROS c1043	ROS c1044	ROS c1045	ROS c1046	ROS c1047	ROS c1048	ROS c1049	ROS c1050	ROS c1051	ROS c1052	ROS c1053	ROS c1054	ROS c1055	ROS c1056	ROS c1057	ROS c1058	ROS c1059	ROS c1060	ROS c1061	ROS c1062	ROS c1063	ROS c1064	ROS c1065	ROS c1066	ROS c1067	ROS c1068	ROS c1069	ROS c1070	ROS c1071	ROS c1072	ROS c1073	ROS c1074	ROS c1075	ROS c1076	ROS c1077	ROS c1078	ROS c1079	ROS c1080	ROS c1081	ROS c1082	ROS c1083	ROS c1084	ROS c1085	ROS c1086	ROS c1087	ROS c1088	ROS c1089	ROS c1090	ROS c1091	ROS c1092	ROS c1093	ROS c1094	ROS c1095	ROS c1096	ROS c1097	ROS c1098	ROS c1099	ROS c1100	ROS c1101	ROS c1102	ROS c1103	ROS c1104	ROS c1105	ROS c1106	ROS c1107	ROS c1108	ROS c1109	ROS c1110	ROS c1111	ROS c1112	ROS c1113	ROS c1114	ROS c1115	ROS c1116	ROS c1117	ROS c1118	ROS c1119	ROS c1120	ROS c1121	ROS c1122	ROS c1123	ROS c1124	ROS c1125	ROS c1126	ROS c1127	ROS c1128	ROS c1129	ROS c1130	ROS c1131	ROS c1132	ROS c1133	ROS c1134	ROS c1135	ROS c1136	ROS c1137	ROS c1138	ROS c1139	ROS c1140	ROS c1141	ROS c1142	ROS c1143	ROS c1144	ROS c1145	ROS c1146	ROS c1147	ROS c1148	ROS c1149	ROS c1150	ROS c1151	ROS c1152	ROS c1153	ROS c1154	ROS c1155	ROS c1156	ROS c1157	ROS c1158	ROS c1159	ROS c1160	ROS c1161	ROS c1162	ROS c1163	ROS c1164	ROS c1165	ROS c1166	ROS c1167	ROS c1168	ROS c1169	ROS c1170	ROS c1171	ROS c1172	ROS c1173	ROS c1174	ROS c1175	ROS c1176	ROS c1177	ROS c1178	ROS c1179	ROS c1180	ROS c1181	ROS c1182	ROS c1183	ROS c1184	ROS c1185	ROS c1186	ROS c1187	ROS c1188	ROS c1189	ROS c1190	ROS c1191	ROS c1192	ROS c1193	ROS c1194	ROS c1195	ROS c1196	ROS c1197	ROS c1198	ROS c1199	ROS c1200	ROS c1201	ROS c1202	ROS c1203	ROS c1204	ROS c1205	ROS c1206	ROS c1207	ROS c1208	ROS c1209	ROS c1210	ROS c1211	ROS c1212	ROS c1213	ROS c1214	ROS c1215	ROS c1216	ROS c1217	ROS c1218	ROS c1219	ROS c1220	ROS c1
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AT006276	-1.8447006	-0.8779021	-1.2693907	0.2543370	0	0	AT006276	Copdanein superfamily protein (Acc:GRLV3)	4
AT006278	-1.6664324	-1.0667726	-1.2769944	0.2604614	0	0.0003041	P6011	Proteinase inhibitor 16 (Acc:GRLV7)	4
AT006279	-1.6664324	-1.0667726	-1.2769944	0.2604614	0	0	AT006279	None	4
AT006280	-1.6664324	-1.0667726	-1.2769944	0.2604614	0	0	AT006280	None	4
AT006281	-1.6664324	-1.0667726	-1.2769944	0.2604614	0	0	AT006281	None	4
AT006282	-1.6664324	-1.0667726	-1.2769944	0.2604614	0	0	AT006282	None	4
AT006283	-1.6664324	-1.0667726	-1.2769944	0.2604614	0	0	AT006283	None	4
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AT050001	1.58254174	0.28170191	1.25166237	0.15180052	0.55100930	-0.80731127	API1	protein phosphatase 3C 3 [Acc:GSLNLY]	12
AT050005	0.58252366	0.20420216	0.11000716	0.52347605	0.57919735	0.15466158	AT050006	None	13
AT050022	1.14324404	0.75022848	0.20420216	0.52347605	0.57919735	0.15466158	AT050023	Protein phosphatase 3C phosphatase 2C 78 [Acc:G09FF9]	14
AT050045	1.41242478	0.50448811	0.17705207	0.0	0	0	AT050046	USL3, uL3A [Acc:G05896]	15
AT050705	0.53208825	0.19740663	0.42370805	0.326111607	-0.20641197	-0.11322260	USL3	uL3, uL3A [AT050705]	16
AT050804	1.33120267	0.50051101	0.0	0	0	0	AT050805	Shaw RNA [AT050804]	17
AT050875	0.58175554	0.08702264	0.11680202	0	0	0	AT050876	None	18
AT050901	0.76959120	0.15010000	0.16521010	-0.00503717	-0.00301010	0.00000000	AT050902	None	19
AT050970	0.58065462	0.15010000	0.07760448	0.76883212	0.50461719	0.00000000	AT050971	AT7050275 protein [Acc:G09FK2]	20
AT050985	0.59170807	0.15010000	0.07680008	0.81764381	1.05543473	1.61397147	AT050986	other RNA [AT050985]	21
AT050992	0.58065462	0.15010000	0.10332733	0.14883324	0.51678914	0.0	AT050993	USL4, uL4A [AT050992]	22
AT050916	0.58067870	0.15010000	-0.46320315	2.14758457	-0.18705789	1.60934405	CAF4	Cytoplasmic dynein 1 [Acc:G05896]	23
AT051039	0.58067870	0.15010000	0.14370801	1.00033049	1.00033049	1.00033049	AT051040	Microtubule 3 [Acc:G09FF9]	24
AT050915	0.16888280	0.15010000	0.17191263	0.37777422	1.00033049	1.00033049	USO	uL3B, uL3A [AT050915]	25
AT050910	0.17030491	0.15010000	0.58013134	1.00033049	1.00033049	1.00033049	AT050911	Actin-1 [Acc:G05896]	26
AT050914	0.17030491	0.15010000	-0.25341544	1.00033049	1.00033049	1.00033049	AT050912	Positive T-cell-binding proteins [Acc:G05896]	27
AT051009	0.52730375	0.15010000	0.13462761	0	0	0	USO4	USO4 [Acc:G05896]	28
AT051047	0.52730375	0.15010000	0.13462761	0	0	0	AT051048	Protein phosphatase 3C [Acc:G05896]	29
AT051040	1.43232719	0.15010000	-0.07462243	2.44444444	0.28021734	0.28021734	AT051041	Protein phosphatase 3C [Acc:G05896]	30
AT051042	0.13434162	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051043	Unknown protein [AT051042]	31
AT050956	0.53057701	0.15010000	0.30471027	0.11177236	0.32399972	0.32399972	AT050957	Unknown protein [AT050956]	32
AT051040	0.06114046	0.15010000	0.32399972	0.32399972	0.32399972	0.32399972	AT051041	Protein phosphatase 3C [Acc:G05896]	33
AT051042	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051043	Unknown protein [AT051042]	34
AT051044	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051045	Unknown protein [AT051044]	35
AT051046	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051047	Unknown protein [AT051046]	36
AT051048	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051049	Unknown protein [AT051048]	37
AT051050	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051051	Unknown protein [AT051050]	38
AT051052	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051053	Unknown protein [AT051052]	39
AT051054	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051055	Unknown protein [AT051054]	40
AT051056	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051057	Unknown protein [AT051056]	41
AT051058	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051059	Unknown protein [AT051058]	42
AT051060	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051061	Unknown protein [AT051060]	43
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AT051064	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051065	Unknown protein [AT051064]	45
AT051066	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051067	Unknown protein [AT051066]	46
AT051068	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051069	Unknown protein [AT051068]	47
AT051070	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051071	Unknown protein [AT051070]	48
AT051072	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051073	Unknown protein [AT051072]	49
AT051074	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051075	Unknown protein [AT051074]	50
AT051076	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051077	Unknown protein [AT051076]	51
AT051078	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051079	Unknown protein [AT051078]	52
AT051080	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051081	Unknown protein [AT051080]	53
AT051082	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051083	Unknown protein [AT051082]	54
AT051084	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051085	Unknown protein [AT051084]	55
AT051086	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051087	Unknown protein [AT051086]	56
AT051088	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051089	Unknown protein [AT051088]	57
AT051090	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051091	Unknown protein [AT051090]	58
AT051092	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051093	Unknown protein [AT051092]	59
AT051094	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051095	Unknown protein [AT051094]	60
AT051096	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051097	Unknown protein [AT051096]	61
AT051098	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051099	Unknown protein [AT051098]	62
AT051100	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051101	Unknown protein [AT051100]	63
AT051102	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051103	Unknown protein [AT051102]	64
AT051104	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051105	Unknown protein [AT051104]	65
AT051106	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051107	Unknown protein [AT051106]	66
AT051108	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051109	Unknown protein [AT051108]	67
AT051110	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051111	Unknown protein [AT051110]	68
AT051112	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051113	Unknown protein [AT051112]	69
AT051114	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051115	Unknown protein [AT051114]	70
AT051116	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051117	Unknown protein [AT051116]	71
AT051118	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051119	Unknown protein [AT051118]	72
AT051120	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051121	Unknown protein [AT051120]	73
AT051122	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051123	Unknown protein [AT051122]	74
AT051124	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051125	Unknown protein [AT051124]	75
AT051126	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051127	Unknown protein [AT051126]	76
AT051128	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051129	Unknown protein [AT051128]	77
AT051130	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051131	Unknown protein [AT051130]	78
AT051132	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051133	Unknown protein [AT051132]	79
AT051134	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051135	Unknown protein [AT051134]	80
AT051136	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051137	Unknown protein [AT051136]	81
AT051138	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051139	Unknown protein [AT051138]	82
AT051140	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051141	Unknown protein [AT051140]	83
AT051142	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051143	Unknown protein [AT051142]	84
AT051144	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051145	Unknown protein [AT051144]	85
AT051146	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051147	Unknown protein [AT051146]	86
AT051148	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051149	Unknown protein [AT051148]	87
AT051150	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051151	Unknown protein [AT051150]	88
AT051152	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051153	Unknown protein [AT051152]	89
AT051154	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051155	Unknown protein [AT051154]	90
AT051156	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051157	Unknown protein [AT051156]	91
AT051158	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051159	Unknown protein [AT051158]	92
AT051160	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051161	Unknown protein [AT051160]	93
AT051162	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051163	Unknown protein [AT051162]	94
AT051164	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051165	Unknown protein [AT051164]	95
AT051166	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051167	Unknown protein [AT051166]	96
AT051168	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051169	Unknown protein [AT051168]	97
AT051170	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051171	Unknown protein [AT051170]	98
AT051172	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051173	Unknown protein [AT051172]	99
AT051174	0.11000716	0.15010000	-0.08044774	0.32399972	0.32399972	0.32399972	AT051175	Unknown protein [AT051174]	100

AT024000	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	AP02	chemically-regulated G-protein 2 (Acc:G04G1)	16
AT024001	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	AP02	AP2 (Acc:AAAT70K4)	16
AT024002	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP02	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024003	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP02	Partial-purified chaperone Hsp90 (Acc:G04G1)	16
AT024004	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	NEA2	NEA2 (Acc:AAAT70K4)	16
AT024005	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	AT024005	Regulator of chaperone combination (RCC) family protein	16
AT024006	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	G0L1	Golgi-related synthase (Acc:G02B93)	16
AT024007	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	AT024007	Partial uncharacterized protein AT2g1010 (Acc:G04G1)	16
AT024008	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	AT024008	Atg1170 (Acc:G02B72)	16
AT024009	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024010	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024011	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024012	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024013	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024014	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024015	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024016	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024017	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024018	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024019	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024020	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024021	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024022	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024023	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024024	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024025	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024026	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024027	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024028	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024029	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024030	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024031	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024032	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024033	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024034	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024035	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024036	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024037	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024038	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024039	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024040	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024041	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024042	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024043	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024044	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024045	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024046	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024047	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024048	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024049	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024050	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024051	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024052	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024053	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024054	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024055	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024056	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024057	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024058	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024059	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024060	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024061	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024062	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024063	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024064	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024065	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024066	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024067	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024068	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024069	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024070	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024071	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024072	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024073	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024074	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024075	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024076	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024077	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024078	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024079	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024080	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024081	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024082	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024083	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024084	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024085	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024086	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024087	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024088	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024089	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024090	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024091	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024092	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024093	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024094	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024095	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024096	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024097	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024098	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024099	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024100	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	HP01	17 kDa class II heat shock protein (Acc:G04G1)	16
AT024101	1.9997497	2.9997497	2.9997497	4.9997497	4.9997497	SD03	Small heat shock protein (Acc:G04G1)	16
AT024102	1.9997497	2.9997497	2.9997497	4.9997497	4.			

ROS core groups

- I The xenome uncoupled leu1 mutation retrograde siRNA
- II Long high light exposure
- III Short high light exposure
- IV Ozone/hydrogen peroxide/superoxide
- V Methyl viologen/antimycin A/silicomycin/dibromothymoquinone/N-oxyl-3-nitro-2,4,6-trihydroxybenzamide/lig22 peptide
- VI Sinlet oxazone/JUV-8 early
- VII The impact of RBHCF during oxidative stress
- VIII ROS acclimation