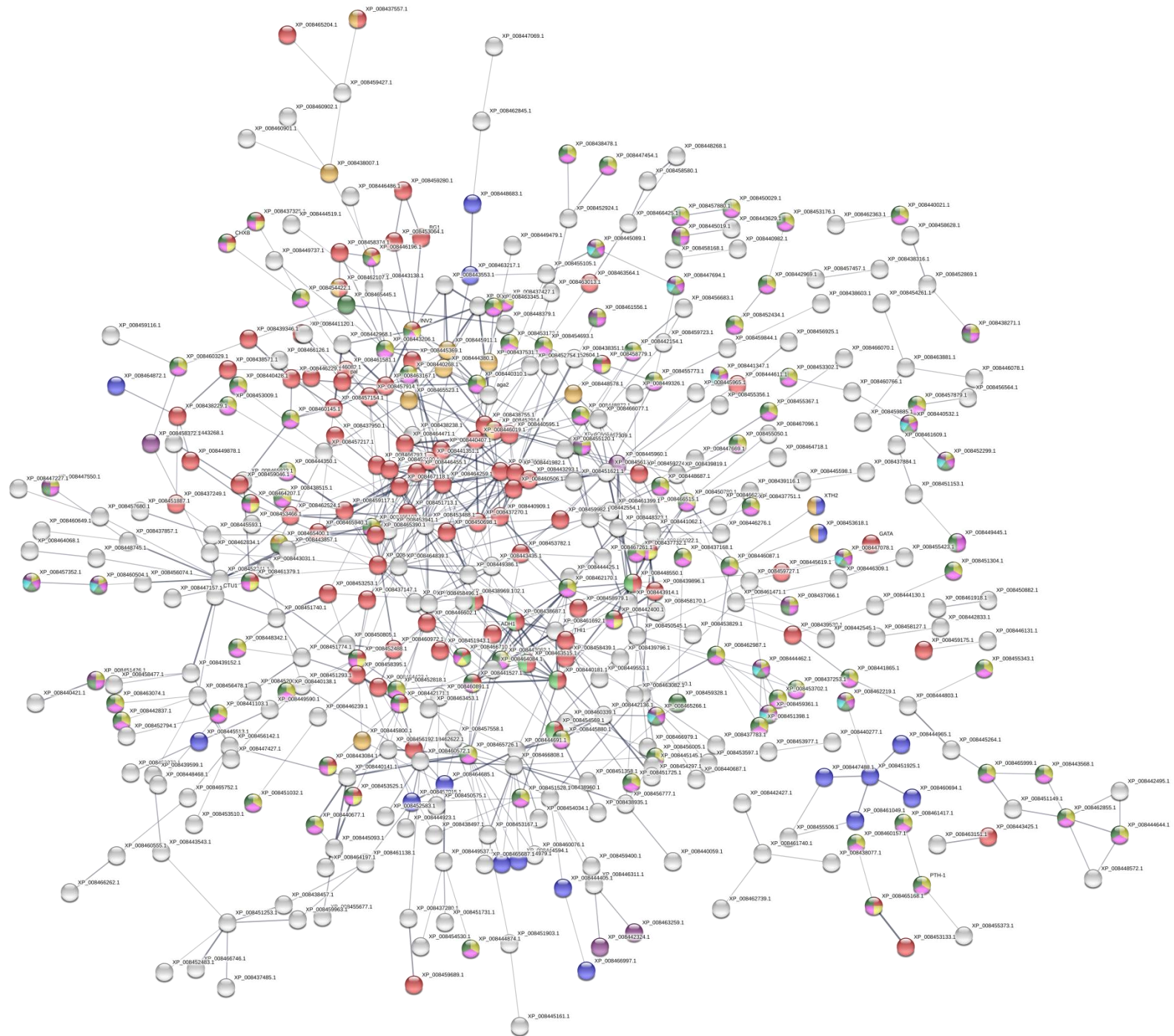


10 DAP fruit

Figure S5 10 DAP fruit network protein interaction (STRING software). The color are represented by functional enrichment in the network (legend). Nodes represent related proteins. Edges represent protein–protein associations.



Legend:

KEGG Pathways			
<i>pathway</i>	<i>description</i>	<i>count in gene set</i>	<i>false discovery rate</i>
cmo01100	Metabolic pathways	96 of 1685	0.0035
cmo04075	Plant hormone signal transduction	23 of 256	0.0095
cmo00195	Photosynthesis	7 of 40	0.0427

UniProt Keywords			
<i>keyword</i>	<i>description</i>	<i>count in gene set</i>	<i>false discovery rate</i>
KW-1133	Transmembrane helix	193 of 3925	0.0018
KW-0812	Transmembrane	196 of 3941	0.0018
KW-0472	Membrane	199 of 4043	0.0018
KW-0406	Ion transport	16 of 134	0.0042
KW-0326	Glycosidase	21 of 224	0.0072
KW-0813	Transport	37 of 538	0.0132

Obs.: 1 gene of “Metabolic pathways”, 6 genes of “Plant hormone signal transduction”, 88 genes of “Transmembrane helix”, 91 of “Transmembrane”, 91 genes of “membrane”, 3 genes of “Ion transport”, 6 genes of “Glycosidases”, 12 genes of “Transport” are disconnected nodes in the network.

Table S7 10 DAP network profile (Cytoscape software)

Name/Refseq ID	BetweennessCentrality	ClosenessCentrality	Degree	NumberOfDirectedEdges
XP_008453488.1	0.11244542	0.28940986	26	26
XP_008441351.1	0.12321749	0.28778135	20	20
XP_008464259.1	0.09142517	0.27816628	19	19
XP_008438755.1	0.06632325	0.26150475	15	15
XP_008464839.1	0.15539623	0.28034456	15	15
XP_008467118.1	0.03528732	0.27286585	15	15
XP_008451713.1	0.02773533	0.27559661	13	13
XP_008440181.1	0.0235859	0.23614776	13	13
XP_008452241.1	0.14318946	0.24706694	13	13
XP_008441982.1	0.04207467	0.25300353	13	13
XP_008465726.1	0.11418729	0.25923244	13	13
XP_008456121.1	0.07605292	0.24320652	13	13
XP_008438687.1	0.05377935	0.26420664	12	12
XP_008458506.1	0.05832615	0.27265804	11	11
XP_008458496.1	0.04872582	0.26169591	11	11
XP_008460506.1	0.01264813	0.25264644	11	11
XP_008466808.1	0.03713439	0.20492272	11	11
XP_008441527.1	0.04757811	0.2443686	11	11
XP_008462170.1	0.01740133	0.24420191	11	11
XP_008446602.1	0.03979069	0.25998548	10	10
XP_008443206.1	0.06427999	0.2405914	10	10
XP_008452914.1	0.04173978	0.24706694	10	10
XP_008450545.1	0.06334894	0.21385902	10	10
XP_008464084.1	0.02052228	0.25175809	10	10
XP_008440909.1	0.01853812	0.26459719	9	9
XP_008443435.1	0.06345302	0.27453988	9	9
XP_008463440.1	0.05573923	0.25211268	9	9
XP_008467212.1	0.02122836	0.20044793	9	9
XP_008448550.1	0.10639878	0.24537354	9	9
XP_008460572.1	0.04589427	0.22759059	9	9
XP_008459117.1	0.01340061	0.25663082	9	9
XP_008463167.1	0.01510519	0.21869273	9	9
XP_008465390.1	0.02989366	0.24189189	8	8
XP_008444380.1	0.0125398	0.22153465	8	8
XP_008453782.1	0.0239353	0.24320652	8	8
XP_008446455.1	0.00978878	0.25626342	8	8
XP_008454560.1	0.0500793	0.22222222	8	8
XP_008465940.1	0.06163388	0.25773938	8	8
XP_008452488.1	0.05691852	0.2306701	8	8
XP_008437270.1	0.01778418	0.24587912	8	8
XP_008440595.1	0.01089787	0.24337186	8	8
XP_008452100.1	0.03204604	0.2573688	8	8
XP_008446019.1	0.01825703	0.23413996	8	8
XP_008445911.1	0.01368921	0.21398685	8	8
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XP_008438960.1	0.06230861	0.22445141	7	7
XP_008445960.1	0.01479382	0.22572509	7	7

XP_008448323.1	0.02545825	0.22904671	7	7
XP_008461692.1	0.00864161	0.24403545	7	7
XP_008444691.1	0.02685242	0.22759059	7	7
XP_008457154.1	0.02901766	0.22759059	7	7
XP_008460758.1	0.01599232	0.20123665	7	7
XP_008438969.1	0.02391207	0.24403545	7	7
XP_008442554.1	0.06941288	0.23429319	7	7
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XP_008451253.1	0.01872709	0.14111155	6	6
XP_008442136.1	0.0256267	0.2201722	6	6
XP_008450780.1	0.02455748	0.2039886	6	6
XP_008441062.1	0.02657056	0.20492272	6	6
XP_008440141.1	0.03897075	0.22222222	6	6
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XP_008449386.1	0.01294897	0.25626342	6	6
XP_008443293.1	0.01710749	0.24965132	6	6
XP_008437297.1	0.00757642	0.23583663	6	6
XP_008465523.1	0.01510251	0.22194668	6	6
XP_008444462.1	0.00821639	0.18340164	6	6
XP_008451774.1	0.03132797	0.22459222	6	6
XP_008442171.1	0.02244632	0.2201722	6	6
XP_008464685.1	0.0370183	0.2144997	6	6
XP_008466022.1	0.01976409	0.21021726	6	6
XP_008440407.1	0.00738425	0.23126615	6	6
XP_008440310.1	0.02380382	0.23537147	6	6
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XP_008459274.1	0.01169887	0.2169697	5	5
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XP_008451925.1	0.83333333	0.85714286	5	5
XP_008456478.1	0.03758571	0.20681687	5	5
XP_008459727.1	0.02066464	0.19648738	5	5
XP_008466077.1	0.0168034	0.23946488	5	5
XP_008451468.1	1.12E+00	0.18921776	5	5
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XP_008462855.1	0.01668153	0.09293873	5	5
XP_008462987.1	0.01438425	0.19288793	5	5
XP_008462524.1	0.03410722	0.25034965	5	5
XP_008453941.1	0.00100177	0.24965132	5	5
XP_008456142.1	0.0311242	0.1967033	5	5
XP_008450698.1	0.00382152	0.23708609	5	5
XP_008461471.1	0.02471887	0.19833795	5	5
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XP_008457914.1	0.01779578	0.22071517	4	4
XP_008445880.1	0.01113387	0.22126082	4	4
XP_008456777.1	0.00558659	0.18368394	4	4
XP_008445369.1	0.01766872	0.23661599	4	4
XP_008441802.1	0.00246951	0.24554184	4	4
XP_008456192.1	0.01410017	0.23111685	4	4

XP_008443062.1	0.00830748	0.22403004	4	4
XP_008439152.1	0.02297644	0.20504009	4	4
XP_008443914.1	0.00290622	0.21909425	4	4
XP_008438007.1	0.02772953	0.16429555	4	4
XP_008451740.1	0.00463293	0.1967033	4	4
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XP_008449537.1	0.01671283	0.17722772	4	4
XP_008458395.1	0.00893971	0.22788033	4	4
XP_008460145.1	0.00409463	0.19498911	4	4
XP_008438229.1	0.00686508	0.17211538	4	4
XP_008446087.1	0.01862769	0.2037564	4	4
XP_008443031.1	0.01772099	0.21083628	4	4
XP_008457015.1	0.03580261	0.21233689	4	4
XP_008446229.1	0.00558659	0.19299191	4	4
XP_008453253.1	0.00779374	0.21644498	4	4
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XP_008439896.1	0	0.17687747	3	3
XP_008461491.1	0.00669022	0.23307292	3	3
XP_008442968.1	0	0.19467102	3	3
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XP_008459427.1	0.01115754	0.14139021	3	3
XP_008442154.1	0.00242505	0.18321392	3	3
XP_008461138.1	0.02329975	0.17687747	3	3
XP_008461379.1	0.00851987	0.19012215	3	3
XP_008446311.1	0.01115754	0.18377823	3	3
XP_008444803.1	0.04927781	0.14517437	3	3
XP_008456005.1	0	0.18358974	3	3
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XP_008463217.1	0.01790507	0.22529893	3	3
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XP_008457558.1	0.01023284	0.19637959	3	3
XP_008455773.1	0.00608447	0.2085032	3	3
XP_008462622.1	0.00663791	0.20123665	3	3
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XP_008445593.1	0.00851811	0.19691969	3	3
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XP_008458439.1	0.02464458	0.23568137	3	3
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XP_008461581.1	0.01246501	0.23307292	3	3
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XP_008465687.1	0.00261573	0.2146283	2	2
XP_008451528.1	0.00115098	0.19340897	2	2
XP_008448687.1	0.00558659	0.19012215	2	2
XP_008459963.1	0.00676904	0.15331906	2	2
XP_008448872.1	1.44E+00	0.21046443	2	2
XP_008458979.1	8.45E+00	0.20789779	2	2
XP_008447669.1	0.01114189	0.1903243	2	2
XP_008445619.1	0.00558659	0.19735391	2	2
XP_008459361.1	7.90E+00	0.17429406	2	2
XP_008454979.1	0.00261573	0.2146283	2	2
XP_008460504.1	0.00558659	0.19844789	2	2
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XP_008464207.1	0.00648971	0.20610248	2	2
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XP_008440677.1	0	0.18209563	2	2
XP_008466979.1	0.00103928	0.18340164	2	2
XP_008446276.1	0	0.170233	2	2
XP_008442969.1	1	1	2	2
XP_008438497.1	6.18E+00	0.1919571	2	2
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XP_008444405.1	0.00558659	0.18358974	2	2
XP_008443568.1	0.01104799	0.10219812	2	2
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XP_008448268.1	0	0.14217633	2	2
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XP_008447694.1	7.62E+00	0.1752325	2	2
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XP_008461049.1	0.13333333	0.6	2	2
XP_008448572.1	0	0.08507605	2	2
XP_008445264.1	0.0384489	0.12744749	2	2
XP_008448342.1	0	0.18665276	2	2
XP_008449590.1	0.01114189	0.18792651	2	2
XP_008460555.1	0.00558659	0.14161392	2	2
XP_008445303.1	4.30E+00	0.17228104	2	2
XP_008437325.1	0	0.15358215	2	2
XP_008463564.1	0.01666588	0.19789939	2	2
XP_008437280.1	0.00558659	0.18568465	2	2
XP_008453525.1	0.00558659	0.18071681	2	2
XP_008445089.1	8.34E+00	0.1761811	2	2
XP_008452818.1	0	0.21670702	2	2
XP_008458779.1	0.00437573	0.22948718	2	2
XP_008445800.1	0.00107708	0.19988833	2	2
XP_008458372.1	0.01511504	0.1994429	2	2
XP_008439116.1	0	0.170233	2	2

XP_008437249.1	0.0035429	0.17600787	2	2
XP_008437531.1	0.00558659	0.19002123	2	2
XP_008462107.1	0	0.19414317	2	2
XP_008463453.1	0.00212988	0.20527523	2	2
XP_008439599.1	0.01516219	0.17286335	2	2
XP_008444611.1	0.00558659	0.19594964	2	2
XP_008465923.1	0.00128301	0.17303045	2	2
XP_008451426.1	0.00558659	0.17039505	2	2
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XP_008453702.1	7.90E+00	0.17429406	2	2
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XP_008450575.1	0	0.19320022	2	2
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XP_008465055.1	1	1	2	2
XP_008437147.1	0.00948805	0.22701332	2	2
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XP_008439819.1	0.01014352	0.20777713	2	2
XP_008461217.1	0	0.17908954	1	1
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XP_008465400.1	0	0.17031399	1	1
XP_008438603.1	0	0.13113553	1	1
XP_008451725.1	0	0.19113721	1	1
XP_008464197.1	0	0.15312233	1	1
XP_008438351.1	0	0.2020316	1	1
XP_008456074.1	0	0.19822813	1	1
XP_008466126.1	0	0.2144997	1	1
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XP_008459175.1	0	1	1	1
XP_008457880.1	0	1	1	1
XP_008466070.1	0	0.13806402	1	1
XP_008447078.1	0	0.16429555	1	1
XP_008458628.1	0	0.66666667	1	1
XP_008453009.1	0	0.22459222	1	1
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XP_008453466.1	0	0.21909425	1	1
XP_008462739.1	0	0.6	1	1

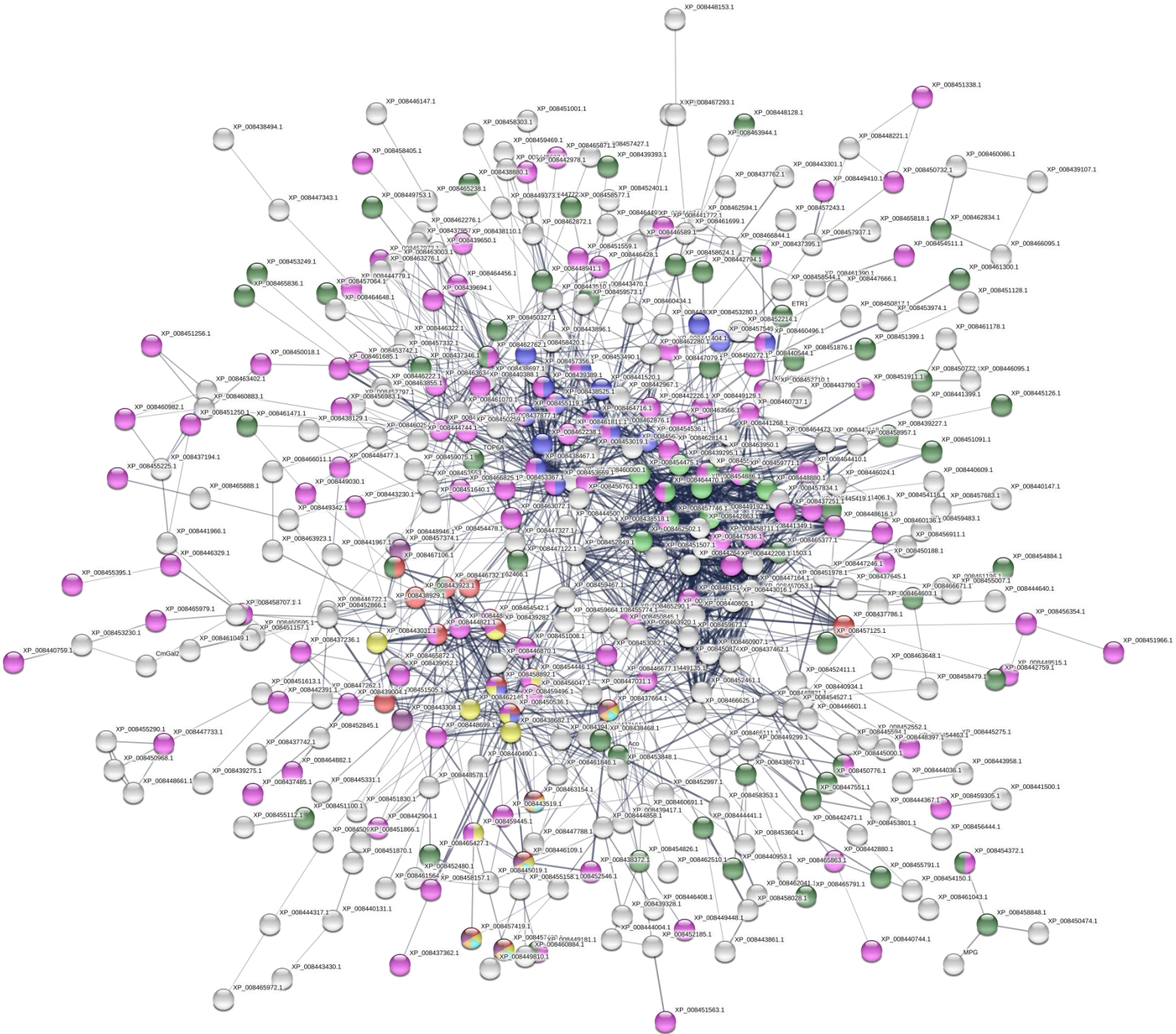
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XP_008450029.1	0	1	1	1
XP_008447069.1	0	0.13489073	1	1
XP_008458168.1	0	1	1	1
XP_008440687.1	0	0.18191057	1	1
XP_008453621.1	0	0.16934721	1	1
XP_008440021.1	0	1	1	1
XP_008440982.1	0	1	1	1
XP_008453597.1	0	0.18191057	1	1
XP_008442837.1	0	0.17145594	1	1
XP_008446131.1	0	1	1	1
XP_008449505.1	0	0.16490097	1	1
XP_008454530.1	0	0.15061001	1	1
XP_008454034.1	0	0.18549223	1	1
XP_008458127.1	0	1	1	1
XP_008461609.1	0	0.66666667	1	1
XP_008452483.1	0	0.12370422	1	1
XP_008452299.1	0	0.5	1	1
XP_008462834.1	0	0.21437126	1	1
XP_008463345.1	0	0.20741599	1	1
XP_008443425.1	0	1	1	1
XP_008467261.1	0	0.19573537	1	1
XP_008445161.1	0	0.13084795	1	1
XP_008462363.1	0	1	1	1
XP_008456925.1	0	0.16391941	1	1
XP_008456564.1	0	1	1	1
XP_008463082.1	0	0.20146314	1	1
XP_008463259.1	0	0.15531453	1	1
XP_008444350.1	0	0.2043379	1	1
XP_008455677.1	0	0.15417743	1	1
XP_008440428.1	0	0.22459222	1	1
XP_008464068.1	0	0.16566404	1	1
XP_008442427.1	0	0.6	1	1
XP_008458477.1	0	0.170233	1	1
XP_008460649.1	0	0.16581751	1	1
XP_008444923.1	0	0.18549223	1	1
XP_008443084.1	0	0.18053454	1	1
XP_008452372.1	0	0.13679786	1	1
XP_008457879.1	0	1	1	1
XP_008453510.1	0	0.16444649	1	1
XP_008445019.1	0	1	1	1
XP_008446486.1	0	0.16104363	1	1
XP_008449737.1	0	0.19403794	1	1
XP_008455050.1	0	0.15982143	1	1
XP_008438478.1	0	0.14211989	1	1
XP_008453302.1	0	0.5	1	1
XP_008442833.1	0	1	1	1
XP_008437427.1	0	0.19062833	1	1

XP_008440268.1	0	0.18792651	1	1
XP_008454569.1	0	0.19911012	1	1
XP_008444519.1	0	0.16104363	1	1
XP_008442545.1	0	0.16558742	1	1
XP_008441120.1	0	0.1521462	1	1
XP_008437557.1	0	0.12391831	1	1
XP_008453133.1	0	0.66666667	1	1
XP_008464718.1	0	0.16950758	1	1
XP_008437950.1	0	0.2144997	1	1
XP_008453977.1	0	1	1	1
XP_008460902.1	0	0.14116719	1	1
XP_008447550.1	0	0.16581751	1	1
XP_008466997.1	0	0.15517989	1	1
XP_008463074.1	0	0.17145594	1	1
XP_008452794.1	0	0.15538194	1	1
XP_008452583.1	0	0.18549223	1	1
XP_008444965.1	0	0.5	1	1
XP_008455356.1	0	0.17837569	1	1
XP_008437884.1	0	1	1	1
XP_008455423.1	0	0.14223282	1	1
XP_008460694.1	0	0.5	1	1
XP_008454297.1	0	0.18053454	1	1
XP_008460901.1	0	0.14116719	1	1
XP_008462219.1	0	0.5	1	1
XP_008440138.1	0	0.18753274	1	1
XP_008466228.1	0	0.17015209	1	1
XP_008445965.1	0	0.18425116	1	1
XP_008437751.1	0	0.17378641	1	1
XP_008451304.1	0	0.14308553	1	1
XP_008443268.1	0	0.16713352	1	1
XP_008446082.1	0	0.18714062	1	1
XP_008457352.1	0	0.16566404	1	1
XP_008467096.1	0	0.16950758	1	1
XP_008454261.1	0	0.6	1	1
XP_008463151.1	0	1	1	1
XP_008438935.1	0	0.18126582	1	1
XP_008461399.1	0	0.19573537	1	1
XP_008447227.1	0	0.16566404	1	1
XP_008453618.1	0	0.16934721	1	1
XP_008439346.1	0	0.16184448	1	1
XP_008446078.1	0	0.6	1	1
XP_008438316.1	0	1	1	1
XP_008464872.1	0	0.14690193	1	1
XP_008451731.1	0	0.15061001	1	1
XP_008455343.1	0	0.12681544	1	1
XP_008459689.1	0	0.15667396	1	1
XP_008440421.1	0	0.14564687	1	1
XP_008452434.1	0	0.66666667	1	1
XP_008466746.1	0	0.12370422	1	1




XP_008451887.1	0	0.1645977	1	1
XP_008442324.1	0	0.15531453	1	1
XP_008451032.1	0	0.17137386	1	1
XP_008450882.1	0	1	1	1
XP_008443629.1	0	1	1	1
XP_008447157.1	0	0.15982143	1	1
XP_008460157.1	0	0.66666667	1	1
XP_008440277.1	0	1	1	1
XP_008449553.1	0	0.20146314	1	1
XP_008438271.1	0	0.66666667	1	1
XP_008453176.1	0	0.66666667	1	1
XP_008452006.1	0	0.18349564	1	1
XP_008466262.1	0	0.12409012	1	1
XP_008440059.1	0	0.15524718	1	1
XP_008459885.1	0	0.6	1	1
XP_008449479.1	0	0.15975011	1	1
XP_008459400.1	0	0.18340164	1	1
XP_008439796.1	0	0.20146314	1	1
XP_008459116.1	0	0.14452967	1	1
XP_008437783.1	0	0.18191057	1	1
XP_008449445.1	0	0.66666667	1	1
XP_008445145.1	0	0.19113721	1	1
XP_008461417.1	0	0.66666667	1	1
XP_008438077.1	0	0.6	1	1
XP_008438515.1	0	0.2043379	1	1
XP_008444874.1	0	0.15061001	1	1
XP_008447454.1	0	0.14211989	1	1




40 DAP fruit


Figure S6 40 DAP fruit network protein interaction (STRING software). The color are represented by functional enrichment in the network (legend). Nodes represent related proteins. Edges represent protein–protein associations.






Legend:

KEGG Pathways			
<i>pathway</i>	<i>description</i>	<i>count in gene set</i>	<i>false discovery rate</i>
cmo04141	Protein processing in endoplasmic reticulum	21 of 168	0.00081 
cmo03040	Spliceosome	17 of 150	0.0083 
cmo03008	Ribosome biogenesis in eukaryotes	10 of 75	0.0382 

UniProt Keywords			
<i>keyword</i>	<i>description</i>	<i>count in gene set</i>	<i>false discovery rate</i>
KW-0346	Stress response	17 of 52	7.39e-08 
KW-0175	Coiled coil	179 of 3077	2.59e-06 
KW-0479	Metal-binding	91 of 1662	0.0482 

PFAM Protein Domains			
<i>domain</i>	<i>description</i>	<i>count in gene set</i>	<i>false discovery rate</i>
PF00011	Hsp20/alpha crystallin family	9 of 35	0.0210 

INTERPRO Protein Domains and Features			
<i>domain</i>	<i>description</i>	<i>count in gene set</i>	<i>false discovery rate</i>
IPR031107	Small heat shock protein HSP20	9 of 25	0.0036 
IPR008978	HSP20-like chaperone	11 of 47	0.0050 
IPR002068	Alpha crystallin/Hsp20 domain	9 of 35	0.0117 

Obs.: 3 genes of “Protein processing in endoplasmic reticulum”, 1 gene of “Stress response”, 61 genes of “Coiled coil”, 36 of “Metal binding”, 2 genes of “Hps20/alpha crystalline family”, 2 genes of “Small heat shock protein HSP20”, 2 genes of “HSP20-like chaperone”, 2 genes of “Alpha crystalline/Hsp20 domain” are disconnected nodes in the network.

Table S8 40 DAP network profile (Cytoscape software)

Name/RefseqID	BetweennessCentrality	ClosenessCentrality	Degree	NumberOfDirectedEdges
XP_008454886.1	0.04353076	0.36182336	47	47
XP_008453669.1	0.16161075	0.40021008	45	45
XP_008464470.1	0.02344788	0.3621673	41	41
XP_008455669.1	0.02811092	0.3544186	39	39
XP_008447164.1	0.01428812	0.35018382	39	39
XP_008467053.1	0.01374343	0.34986226	38	38
XP_008442863.1	0.01146916	0.34762774	37	37
XP_008442648.1	0.02225901	0.35310473	37	37
XP_008462502.1	0.0161428	0.33957219	35	35
XP_008442208.1	0.00724988	0.34231806	35	35
XP_008439295.1	0.01451041	0.34794521	35	35
XP_008449192.1	0.04602161	0.35875706	34	34
XP_008457746.1	0.01059097	0.33538732	33	33
XP_008452849.1	0.04547195	0.37170732	33	33
XP_008437251.1	0.00299694	0.32731959	32	32
XP_008462876.1	0.06736557	0.36182336	32	32
XP_008461503.1	0.00523682	0.33896797	32	32
XP_008454475.1	0.02589995	0.33568282	31	31
XP_008438467.1	0.04144616	0.35212569	31	31
XP_008440805.1	0.01247235	0.34448463	31	31
XP_008454581.1	0.01247235	0.34448463	31	31
XP_008447536.1	0.03704247	0.3557423	30	30
XP_008465377.1	0.00259549	0.33130435	29	29
XP_008460907.1	0.00967448	0.33716814	28	28
XP_008462762.1	0.05363781	0.34699454	28	28
XP_008465290.1	0.03363968	0.34201077	28	28
XP_008461514.1	0.0182462	0.34448463	27	27
XP_008459771.1	9.35E+00	0.32536294	26	26
XP_008463920.1	0.03203773	0.35376045	26	26
XP_008437462.1	0.0070598	0.33333333	25	25
XP_008438779.1	0.07888137	0.35909519	25	25
XP_008438682.1	0.02575229	0.33509235	25	25
XP_008454446.1	0.02308093	0.33866667	24	24
XP_008443016.1	0.01402858	0.32425532	23	23
XP_008438518.1	0.01137911	0.35180055	23	23
XP_008460737.1	0.00409518	0.31856187	23	23
XP_008450536.1	0.02424612	0.33391762	23	23
XP_008450874.1	0.0066178	0.32480818	22	22
XP_008448880.1	0.0010395	0.32233503	22	22
XP_008441349.1	0.00172675	0.31829574	22	22
XP_008448616.1	7.71E+00	0.30407023	22	22
XP_008439282.1	0.03921441	0.34604905	22	22
XP_008459467.1	0.03956305	0.36079545	22	22
XP_008462146.1	0.01932258	0.31856187	22	22
XP_008456763.1	0.04276626	0.34324324	22	22
XP_008458892.1	0.02864363	0.33391762	22	22
XP_008466625.1	0.02885188	0.31618257	21	21

XP_008439389.1	0.01258917	0.33627538	21	21
XP_008444821.1	0.06753463	0.34355275	21	21
XP_008461070.1	0.03733943	0.33987511	21	21
XP_008449135.1	0.03923533	0.33509235	21	21
XP_008458420.1	0.00814082	0.31203931	20	20
XP_008462238.1	0.00455571	0.31178396	20	20
XP_008453490.1	0.00714464	0.32987013	20	20
XP_008464716.1	0.01879395	0.32260796	20	20
XP_008448895.1	0.02209349	0.33746678	20	20
XP_008451008.1	0.01734303	0.34636364	19	19
XP_008460000.1	0.02097785	0.32124789	19	19
XP_008452461.1	0.00163808	0.31487603	18	18
XP_008456305.1	0.01342763	0.29788898	18	18
XP_008446677.1	0.02544184	0.33072917	18	18
XP_008442118.1	0.0068696	0.31051345	17	17
XP_008442967.1	0.00346616	0.32206255	17	17
XP_008445419.1	2.79E+00	0.31102041	15	15
XP_008461811.1	0.02415955	0.33421053	15	15
XP_008446732.1	0.03101555	0.33657244	15	15
XP_008438468.1	0.03110876	0.31229508	15	15
XP_008441520.1	0.00528569	0.31306491	14	14
XP_008443031.1	0.00894934	0.29835552	14	14
XP_008464410.1	2.16E-02	0.30023641	14	14
XP_008437664.1	0.01047539	0.29150727	14	14
XP_008443510.1	0.02773965	0.32260796	14	14
XP_008451507.1	0.00546093	0.31539735	14	14
XP_008437786.1	0.01566662	0.29017517	14	14
XP_008448699.1	0.00746309	0.29443586	13	13
XP_008455119.1	3.21E+00	0.3062701	12	12
XP_008438525.1	3.21E+00	0.3062701	12	12
XP_008447031.1	0.02313673	0.31332237	12	12
XP_008443308.1	0.00568491	0.2912844	12	12
XP_008463566.1	0.03556638	0.33627538	12	12
XP_008453860.1	0.00736016	0.32070707	11	11
XP_008453019.1	0.01631971	0.30023641	11	11
XP_008446322.1	0.01655297	0.29976397	11	11
XP_008452997.1	0.01433803	0.30142405	11	11
XP_008451505.1	0.0043249	0.28776435	10	10
XP_008453367.1	0.00785714	0.31051345	10	10
XP_008458957.1	1.49E-02	0.29106188	10	10
XP_008453848.1	0.01040009	0.28689759	10	10
XP_008453082.1	0.03187766	0.31882845	10	10
XP_008462814.1	0.00556374	0.28776435	10	10
XP_008449299.1	0.03327329	0.2881997	10	10
XP_008441268.1	0.00104533	0.30358566	10	10
XP_008454536.1	7.79E+00	0.30900243	9	9
XP_008457549.1	0.00479225	0.29512006	9	9
XP_008447327.1	0.01549364	0.32288136	9	9
XP_008464542.1	0.01343467	0.31618257	9	9

XP_008459496.1	0.00783295	0.30238095	9	9
XP_008443896.1	3.07E-02	0.28411633	9	9
XP_008459445.1	0.01363207	0.28055965	9	9
XP_008448821.1	0.0143627	0.27469358	9	9
XP_008448941.1	0.02433552	0.27973568	9	9
XP_008450327.1	0.00940392	0.29240215	9	9
XP_008437346.1	0.01102551	0.2881997	9	9
XP_008438929.1	0.04525324	0.31803005	9	9
XP_008463072.1	0.00330337	0.30358566	8	8
XP_008451978.1	0.02318902	0.30651649	8	8
Aco	0.01195922	0.28159645	8	8
XP_008437877.1	0.00678478	0.32179054	8	8
XP_008440388.1	0.00677319	0.30701048	8	8
XP_008437161.1	7.25E+00	0.29083969	8	8
XP_008464473.1	0.02110297	0.3	8	8
XP_008446109.1	0.00776202	0.25883152	8	8
XP_008447122.1	0.00454145	0.30023641	8	8
XP_008459673.1	0.00470834	0.31127451	8	8
XP_008443470.1	0.02335797	0.28432836	8	8
XP_008439417.1	0.01092416	0.29835552	8	8
XP_008452866.1	0.02979693	0.27528902	7	7
XP_008462280.1	7.71E+00	0.28863636	7	7
XP_008450259.1	7.18E+00	0.29765625	7	7
XP_008462466.1	0.00473241	0.31026059	7	7
XP_008443923.1	0.006095	0.28180473	7	7
XP_008457356.1	0.00200678	0.31989924	7	7
XP_008438697.1	0.00162804	0.30286169	7	7
XP_008451640.1	0.01529558	0.28841787	7	7
XP_008439052.1	0.0028146	0.29262673	7	7
XP_008447079.1	0.01192176	0.28222222	7	7
XP_008448067.1	0.00691142	0.31409728	7	7
XP_008440934.1	0.0108573	0.2962675	7	7
XP_008450272.1	0.01248094	0.26006826	7	7
XP_008457125.1	1.02E+00	0.28411633	7	7
XP_008460496.1	0.00830413	0.27789934	6	6
XP_008463154.1	0	0.28180473	6	6
XP_008447246.1	0.02139606	0.2733142	6	6
XP_008449129.1	0.00138572	0.27749454	6	6
XP_008442226.1	0.00770515	0.30238095	6	6
XP_008448578.1	0.01479436	0.26887791	6	6
XP_008457937.1	0.02623067	0.2555332	6	6
XP_008466111.1	0.00575218	0.26239669	6	6
XP_008446601.1	3.60E-07	0.26718093	6	6
XP_008439004.1	0.01079686	0.25900748	6	6
TOP6A	8.40E+00	0.28885519	6	6
XP_008454826.1	0.02104956	0.26830986	6	6
XP_008458711.1	0.00856982	0.27608696	6	6
XP_008463634.1	0.0059927	0.28929385	6	6
XP_008462594.1	0.01632311	0.27292264	6	6

XP_008451559.1	0.00991985	0.30214116	6	6
XP_008453280.1	4.26E+00	0.29083969	6	6
XP_008467106.1	0.00184639	0.26868829	5	5
XP_008459664.1	0.00212491	0.28222222	5	5
XP_008461846.1	3.14E+00	0.28689759	5	5
XP_008439427.1	0.00567027	0.27688953	5	5
XP_008454527.1	0.00459114	0.27608696	5	5
XP_008444858.1	0.01273482	0.25016415	5	5
XP_008461699.1	0.01246367	0.25918367	5	5
XP_008439650.1	0.00700149	0.28222222	5	5
XP_008450845.1	0.0021339	0.28097345	5	5
XP_008452546.1	0.00231924	0.22993361	5	5
XP_008444744.1	0.00178932	0.27729258	5	5
XP_008455774.1	0.00375391	0.28014706	5	5
XP_008464603.1	0.00668358	0.24869452	5	5
XP_008465872.1	0.00677386	0.25760649	5	5
XP_008452710.1	0.00675184	0.254	4	4
XP_008453742.1	0	0.28432836	4	4
XP_008452411.1	0.0116763	0.24007561	4	4
XP_008453553.1	6.23E+00	0.26662001	4	4
XP_008462810.1	0.01063157	0.30750605	4	4
XP_008439694.1	2.77E+00	0.29195402	4	4
XP_008464456.1	2.77E+00	0.29195402	4	4
XP_008456047.1	8.34E+00	0.26167582	4	4
XP_008466844.1	0.0068165	0.24098672	4	4
XP_008439190.1	0.01602206	0.26275862	4	4
XP_008448477.1	0.00179125	0.2845407	4	4
XP_008444367.1	0.00526316	0.18676471	4	4
XP_008452214.1	0.00101995	0.27608696	4	4
XP_008451091.1	0	0.2602459	4	4
XP_008447262.1	0.00606321	0.26239669	4	4
XP_008440544.1	0.00528996	0.25760649	4	4
XP_008463950.1	0.00352835	0.28180473	4	4
XP_008455158.1	0.01224253	0.24267516	4	4
XP_008437194.1	0.00184695	0.21525424	4	4
XP_008459075.1	7.75E+00	0.27098151	4	4
XP_008447733.1	0.01566515	0.19598765	4	4
XP_008442794.1	0.00337536	0.28646617	4	4
XP_008458624.1	0.00337536	0.28646617	4	4
XP_008463402.1	0.00820941	0.26662001	4	4
XP_008460883.1	0.00820941	0.26662001	4	4
XP_008443744.1	0.00667191	0.27002126	4	4
XP_008463276.1	5.81E-02	0.2602459	4	4
XP_008437957.1	5.81E-02	0.2602459	4	4
XP_008464495.1	6.30E-05	0.26868829	4	4
XP_008463855.1	3.30E+00	0.25656566	3	3
XP_008461685.1	0.00132993	0.27830533	3	3
ETR1	8.05E+00	0.22965642	3	3
XP_008458353.1	0.00524934	0.22597865	3	3

XP_008444441.1	0.01047106	0.24252069	3	3
XP_008458157.1	0.00524934	0.25165125	3	3
XP_008451876.1	0.01099037	0.22855429	3	3
XP_008440490.1	0	0.28306092	3	3
XP_008441404.1	4.05E-01	0.25673854	3	3
XP_008447551.1	0.00350831	0.22869148	3	3
XP_008445000.1	0.00350831	0.22869148	3	3
XP_008450776.1	0.00350831	0.22869148	3	3
XP_008452185.1	0.00524934	0.21202003	3	3
XP_008446329.1	0.00607842	0.2106136	3	3
XP_008452845.1	0.00524934	0.21947005	3	3
XP_008445019.1	0.00126514	0.23388582	3	3
XP_008457374.1	4.06E+00	0.29976397	3	3
XP_008437395.1	3.89E+00	0.23062954	3	3
XP_008446589.1	0	0.26736842	3	3
XP_008461390.1	0.00776706	0.26699369	3	3
XP_008439227.1	1.73E-06	0.27117438	3	3
XP_008450968.1	0	0.16408269	3	3
XP_008448661.1	0	0.16408269	3	3
XP_008455290.1	0	0.16408269	3	3
XP_008458848.1	1	1	3	3
XP_008446870.1	0	0.26718093	3	3
XP_008437236.1	4.36E-01	0.25587643	3	3
XP_008444500.1	3.22E+00	0.2803532	3	3
XP_008438679.1	1.73E+00	0.24967235	3	3
XP_008460434.1	0	0.26060192	3	3
XP_008460254.1	0.00454508	0.29017517	3	3
XP_008453230.1	0.00525625	0.15191388	3	3
XP_008457834.1	0.00554009	0.26348548	3	3
XP_008458707.1	0.02083851	0.21697039	3	3
XP_008466671.1	0.00536491	0.21858864	3	3
XP_008466825.1	1.39E+00	0.26569038	3	3
XP_008442880.1	0.01048487	0.22438163	3	3
XP_008460691.1	0	0.27002126	3	3
XP_008465238.1	0.00524934	0.26078029	3	3
XP_008441967.1	0.0010356	0.26275862	3	3
XP_008449342.1	0.01077204	0.27021277	3	3
XP_008460982.1	3.45E-06	0.21154914	3	3
XP_008456983.1	4.19E+00	0.26275862	3	3
XP_008443519.1	0.0010255	0.25989086	3	3
XP_008448221.1	0.00261776	0.20396146	3	3
XP_008450732.1	0.00261776	0.20396146	3	3
XP_008463648.1	0.00560795	0.26868829	3	3
XP_008442391.1	0.0055198	0.24660194	3	3
XP_008456354.1	0.00524934	0.22544379	3	3
XP_008451830.1	0	0.27059659	3	3
XP_008442904.1	0	0.27059659	3	3
XP_008457973.1	0	0.26330339	3	3

XP_008462276.1	0	0.26330339	3	3
XP_008438110.1	0	0.2881997	3	3
XP_008449030.1	7.95E+00	0.2651357	3	3
XP_008437645.1	0	0.23489519	2	2
XP_008458028.1	0	0.19538462	2	2
XP_008438372.1	3.96E-02	0.22746269	2	2
XP_008453974.1	0.00524934	0.18630807	2	2
XP_008459573.1	0	0.28929385	2	2
XP_008443861.1	0	0.19538462	2	2
XP_008442471.1	0.00524934	0.26569038	2	2
XP_008460136.1	0	0.26587579	2	2
XP_008465427.1	2.46E-01	0.21947005	2	2
XP_008460595.1	0.00524934	0.24175127	2	2
XP_008455007.1	3.60E-07	0.25989086	2	2
XP_008461178.1	0	1	2	2
XP_008450772.1	0	1	2	2
XP_008450188.1	0	0.23489519	2	2
XP_008446095.1	0	1	2	2
XP_008453801.1	0.00524934	0.24068225	2	2
XP_008447788.1	7.88E-02	0.24950884	2	2
XP_008443230.1	0.00122793	0.27509025	2	2
XP_008463923.1	9.15E+00	0.24236641	2	2
XP_008465888.1	0.00524934	0.21308725	2	2
XP_008463003.1	0	0.2555332	2	2
XP_008457420.1	0	0.22112594	2	2
XP_008457419.1	0	0.22112594	2	2
XP_008445594.1	0	0.2555332	2	2
XP_008454478.1	0	0.27021277	2	2
XP_008440953.1	0	0.24596514	2	2
XP_008451250.1	3.19E+00	0.19558522	2	2
XP_008450018.1	0.00390607	0.22557726	2	2
XP_008461196.1	0.00165231	0.26587579	2	2
XP_008465979.1	0.00522172	0.17870544	2	2
XP_008451256.1	3.45E-06	0.21084671	2	2
XP_008462834.1	0.16666667	0.75	2	2
XP_008460086.1	0.16666667	0.75	2	2
XP_008466095.1	0.16666667	0.75	2	2
XP_008462872.1	0	0.23302752	2	2
XP_008451613.1	0.02083161	0.24267516	2	2
XP_008451399.1	0.00524934	0.23562152	2	2
XP_008440131.1	1	1	2	2
XP_008453604.1	0	0.23827392	2	2
XP_008437762.1	3.45E-06	0.22306792	2	2
XP_008464648.1	0	0.27253219	2	2
XP_008444779.1	0	0.27253219	2	2
XP_008444004.1	0	0.21190211	2	2
XP_008448397.1	0	0.24918247	2	2
XP_008446428.1	5.11E+00	0.23331292	2	2

XP_008466011.1	2.38E+00	0.23021148	2	2
XP_008454116.1	5.74E+00	0.23842303	2	2
XP_008456911.1	0	0.26587579	2	2
XP_008449373.1	7.08E-05	0.23887147	2	2
XP_008459469.1	3.75E-02	0.25181758	2	2
XP_008458479.1	0.00125962	0.23007246	2	2
XP_008441966.1	0.00163846	0.2092257	2	2
XP_008467293.1	0.00524934	0.20616883	2	2
XP_008461471.1	1.89E+00	0.26532033	2	2
XP_008452480.1	9.90E+00	0.22023121	2	2
XP_008439107.1	0.16666667	0.75	2	2
CmGal2	0.00522172	0.17870544	2	2
XP_008452797.1	7.54E-02	0.26983003	2	2
XP_008451338.1	0	0.16955941	2	2
XP_008446024.1	3.99E-02	0.24205845	2	2
XP_008441406.1	3.99E-02	0.24205845	2	2
XP_008447343.1	0.00524934	0.23104912	2	2
XP_008450952.1	0.01047106	0.25795531	2	2
XP_008444317.1	0.00524934	0.20539084	2	2
XP_008449515.1	0	0.22531047	2	2
XP_008447722.1	0	0.24407431	1	1
XP_008441772.1	0	0.2557047	1	1
XP_008462041.1	0	0.18441433	1	1
XP_008449410.1	0	0.20363442	1	1
XP_008465818.1	0	0.20363442	1	1
XP_008451911.1	0	0.23090909	1	1
XP_008452552.1	0	0.19369598	1	1
XP_008451563.1	0	0.17501148	1	1
XP_008443301.1	0	0.19428863	1	1
XP_008451866.1	0	0.21202003	1	1
XP_008461300.1	0	0.1571134	1	1
XP_008446722.1	0	0.26532033	1	1
XP_008455791.1	0	0.21003308	1	1
XP_008464882.1	0	0.20583468	1	1
XP_008461049.1	0	0.19478528	1	1
XP_008454511.1	0	0.21084671	1	1
XP_008441399.1	0	0.26587579	1	1
XP_008456444.1	0	0.15743802	1	1
MPG	0	0.6	1	1
XP_008450474.1	0	0.6	1	1
XP_008437742.1	0	0.20796943	1	1
XP_008439328.1	0	0.20021019	1	1
XP_008446408.1	0	0.20021019	1	1
XP_008450817.1	0	0.2049489	1	1
XP_008455225.1	0	0.17573801	1	1
XP_008449181.1	0	0.19538462	1	1
XP_008440759.1	0	0.13192521	1	1
XP_008458544.1	0	0.20650407	1	1
XP_008459483.1	0	0.21476888	1	1

XP_008449810.1	0	0.19538462	1	1
XP_008460884.1	0	0.20572354	1	1
XP_008449753.1	0	0.25778078	1	1
XP_008437485.1	0	0.18005671	1	1
XP_008454884.1	0	0.17946302	1	1
XP_008454150.1	0	0.18334937	1	1
XP_008454372.1	0	0.6	1	1
XP_008457683.1	0	1	1	1
XP_008440147.1	0	1	1	1
XP_008449448.1	0	0.21166667	1	1
XP_008445331.1	0	0.2257109	1	1
XP_008442978.1	0	0.25181758	1	1
XP_008451870.1	0	0.66666667	1	1
XP_008458577.1	0	0.22151163	1	1
XP_008461564.1	0	0.24175127	1	1
XP_008443790.1	0	0.23104912	1	1
XP_008444036.1	0	1	1	1
XP_008443958.1	0	1	1	1
XP_008459305.1	0	1	1	1
XP_008441500.1	0	1	1	1
XP_008455112.1	0	1	1	1
XP_008451100.1	0	1	1	1
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XP_008446222.1	0	0.28603604	1	1
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XP_008463944.1	0	0.21452703	1	1
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XP_008457246.1	0	0.21273032	1	1
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XP_008446147.1	0	0.20695274	1	1
XP_008451966.1	0	0.18405797	1	1
XP_008457243.1	0	0.26587579	1	1
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XP_008465863.1	0	0.256393	1	1
XP_008438129.1	0	0.22398589	1	1
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XP_008448687.1	0	0.21871412	1	1
XP_008457427.1	0	0.21871412	1	1
XP_008444640.1	0	0.19926778	1	1
XP_008465836.1	0	0.26439972	1	1
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XP_008465871.1	0	0.21871412	1	1
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XP_008461043.1	0	0.19409068	1	1
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