

Supplemental Table 1. Identification of maize proteins in purified Bundle sheath (BS) and Mesophyll (M) chloroplast stroma from three different types of experiments involving 2-DE gels, cICAT and LC-MS analysis of unlabeled peptides. All mass spectral data were searched against ZmGI, AZM and OsGI. In addition best BLAST hit in the predicted *A. thaliana* proteome is reported for all identified ZmGI accessions and E-values are indicated.

ZmGI	2-DE		cICAT		LC-MS		Highest BLAST hit		AZM	2-DE		cICAT		LC-MS		OsGI	2-DE		cICAT		LC-MS		
	BS	M	BS+M	BS	M	ATG	E-value	BS		M	BS+M	BS	M	BS	M		BS	M	BS	M	BS	M	
TC236964	0	0	2	0	0	At1g03475.1	1.00E-119	AZM4_33318	0	0	1	0	0	9635.m01084	1	0	0	0	0	0	0	0	
TC236965	0	0	2	0	0	At1g03475.1	2.00E-20	AZM4_33384	0	0	1	0	0	9635.m01382	1	0	0	0	0	0	0	0	
CD651442	0	0	1	0	0	At1g03475.1	3.00E-07		0	0	1	0	0	9635.m02016	0	0	1	0	0	0	0	0	
TC223847	0	0	2	0	0	At1g04420.1	1.00E-97	AZM4_137097	0	0	2	0	0	9633.m02021	0	0	1	0	0	0	0	0	
TC223846	0	0	2	0	0	At1g04420.1	6.00E-55	AZM4_11338	6	3	8	1	0	9633.m02110	1	7	5	0	0	0	0	0	
TC234914	0	0	1	0	0	At1g05190.1	2.00E-79	AZM4_124610						9633.m00110	2	3	1	0	0	0	0	0	
TC234915	0	0	1	0	0	At1g05190.1	1.00E-78	AZM4_36892						9633.m00496	0	0	1	0	0	0	0	0	
TC239236	1	0	0	0	0	At1g05385.1	4.00E-39	AZM4_91499	0	0	2	1	1	9633.m03756	0	0	1	0	0	0	0	0	
TC235206	5	18	3	1	1	At1g06680.1	9.00E-81	AZM4_25847	0	0	1	0	0	9639.m04489	0	1	0	0	0	0	0	0	
TC235205	5	15	3	0	1	At1g06680.1	1.00E-75		1	0	0	0	0	9640.m00068	0	0	2	0	0	0	0	0	
TC233353	0	1	1	0	0	At1g07320.1	8.00E-13							9632.m04375	0	4	3	0	0	0	0	0	
TC234316	0	2	0	0	0	At1g08110.2	1.00E-82		0	0	1	0	0	9636.m02497	0	0	1	0	0	0	0	0	
TC239637	0	0	1	0	0	At1g09340.1	2.00E-73		0	0	3	1	2										
TC238786	0	0	1	0	0	At1g10760.1	0.00E+00	AZM4_34518	0	0	1	0	0	9638.m03890	1	0	1	0	0	0	0	0	
TC220849	0	0	1	0	0	At1g11660.1	5.00E-51	PUCCM50TD	0	1	0	0	0	9639.m00638	9	6	3	0	0	0	0	0	
TC220848	0	0	1	0	0	At1g11660.1	2.00E-41	AZM4_34704	0	0	1	0	0	9639.m01501	0	0	3	0	0	0	0	0	
TC223620	0	0	1	0	0	At1g11870.2	0.00E+00	PUBIC76TD	0	0	1	0	0										
TC237401	1	0	0	0	0	At1g12230.1	1.00E-132	AZM4_137618	0	0	1	0	0										
TC237508	2	4	1	0	0	At1g12840.1	1.00E-63	OGYAB52TV	0	0	1	0	0	9637.m02334	3	3	1	0	0	0	0	0	
TC219897	14	21	19	2	2	At1g12900.1	1.00E-175	AZM4_71732	1	2	2	0	0	9634.m02914	0	0	2	0	0	0	0	0	
TC219898	0	0	4	0	0	At1g12900.1	3.00E-27	AZM4_110871	0	1	0	0	0	9634.m03803	6	3	17	1	0	0	0	0	
TC222257	4	14	3	1	1	At1g15140.1	1.00E-79	AZM4_34871	1	4	0	0	0	9631.m00660	1	0	4	0	0	0	0	0	
TC236874	0	0	1	0	0	At1g16880.1	1.00E-43	AZM4_3565															
TC236873	0	0	1	0	0	At1g16880.1	2.00E-39	AZM4_91803															
AI964484	0	2	0	0	0	At1g18340.1	1.00E-25	AZM4_3702	1	9	3	0	0	9630.m04079	0	0	1	0	0	0	0	0	
TC235924	7	2	2	0	0	At1g19920.1	1.00E-172	AZM4_37181	2	1	1	0	0	9634.m00140	1	7	7	0	0	0	0	0	
BG354371	0	0	1	0	0	At1g20020.1	2.00E-29	AZM4_70598	0	2	1	1	2	9630.m03764	0	0	1	0	0	0	0	0	
TC222448	0	0	3	0	0	At1g20020.1	9.00E-05	AZM4_70597	0	0	1	0	0	9634.m00937	0	0	2	0	0	0	0	0	
TC232130	0	1	0	0	0	At1g20810.1	2.00E-48	AZM4_26285	3	39	17	2	3	9630.m04048	0	2	2	0	0	0	0	0	
TC227295	3	5	0	0	0	At1g23740.1	3.00E-47																
TC244433	0	1	0	0	0	At1g26220.1	7.00E-41	AZM4_593	0	2	0	0	0										
TC235099	0	0	2	0	0	At1g27680.1	0.00E+00	AZM4_139502	0	1	3	0	0	9637.m02048	0	0	1	0	0	0	0	0	
CD448933	1	0	0	0	0	At1g27680.1	3.00E-74	AZM4_70748	0	0	3	0	0	9640.m01001	0	0	1	0	0	0	0	0	
TC238795	0	1	3	0	0	At1g31190.1	1.00E-135	AZM4_2566	0	1	1	0	0	9630.m05202	0	1	5	0	0	0	0	0	
TC221089	17	14	7	2	0	At1g32060.1	0.00E+00	AZM4_71231	0	0	6	0	1	9631.m04798	0	0	1	0	0	0	0	0	
TC225896	2	1	1	0	0	At1g32060.1	4.00E-86		0	0	1	0	0	9631.m05132	2	1	2	0	0	0	0	0	
BI430932	2	1	0	0	0	At1g32060.1	2.00E-48		0	0	1	0	0	9631.m05218	0	0	1	0	0	0	0	0	
TC237931	0	0	1	0	0	At1g32070.1	3.00E-63	AZM4_49393						9636.m04570	7	9	8	0	0	0	0	0	
TC237011	0	2	0	0	0	At1g32640.1	1.00E-116		4	10	4	2	2										
TC221110	0	0	2	0	0	At1g36160.1	0.00E+00	AZM4_68913	0	0	1	0	0	9636.m02230	0	0	1	0	0	0	0	0	
TC234932	0	0	2	0	0	At1g36160.1	0.00E+00	AZM4_27313	9	3	20	2	3	9636.m02327	0	2	0	0	0	0	0	0	
TC234510	5	23	18	2	2	At1g42970.1	0.00E+00	AZM4_27612	10	7	7	2	3	9632.m03177	0	0	1	0	0	0	0	0	

TC236226	0	0	1	0	0	At1g48350.1	2.00E-48	AZM4_11798	0	0	1	0	0	9633.m04525	0	0	1	0	0
TC224555	0	0	1	0	0	At1g48520.1	5.00E-73		0	1	0	0	0						
TC239228	0	1	2	0	0	At1g50320.1	2.00E-36	AZM4_101235	0	1	1	0	0	9635.m03812	2	3	2	0	0
TC239227	0	1	0	0	0	At1g50320.1	3.00E-33	AZM4_11371	2	1	0	0	0	9635.m04669	0	0	4	0	0
TC240790	0	0	1	0	0	At1g52510.1	1.00E-103	AZM4_117076						9635.m03451	0	1	0	0	0
TC222309	2	0	0	0	0	At1g53240.1	1.00E-143	AZM4_36264	2	6	0	0	0	9629.m05103	0	0	1	0	0
TC234104	0	0	1	0	0	At1g53310.1	0.00E+00	AZM4_15126	1	0	10	2	1	9631.m00247	0	0	1	0	0
TC224130	0	0	1	0	0	At1g53520.1	9.00E-40	AZM4_135872	0	0	9	0	2	9631.m00602	0	2	1	0	0
TC228772	0	0	1	1	0	At1g54580.1	2.00E-25												
AW157962	0	0	6	0	0	At1g55020.1	4.00E-30	AZM4_2998	0	0	1	0	0	9633.m03093	1	12	19	1	1
TC238048	0	12	1	0	1	At1g55480.1	2.00E-70	AZM4_12532	0	0	2	0	0	9640.m00695	0	0	1	0	0
TC219522	2	6	8	1	1	At1g55490.2	0.00E+00	AZM4_3827	0	0	1	0	0	9638.m00992	0	1	2	0	0
CF045035	0	2	0	0	0	At1g56050.1	2.00E-27							9633.m04524	0	0	1	0	0
TC219625	14	79	18	2	2	At1g56190.1	0.00E+00	AZM4_51443	0	2	1	0	0	9636.m04630	0	0	1	0	0
TC219624	9	39	12	1	2	At1g56190.1	1.00E-176	AZM4_51859	0	0	1	0	0	9637.m00326	2	3	2	0	0
NP539335	2	18	10	2	2	At1g56190.1	1.00E-144	AZM4_51892	1	2	0	0	0	9637.m00820	2	3	1	0	0
TC237887	0	0	0	0	1	At1g60950.1	1.00E-26	AZM4_51952	0	0	2	0	0						
TC223586	0	0	0	2	0	At1g60950.1	1.00E-25		1	2	0	0	0						
TC220059	0	0	4	1	2	At1g60950.1	3.00E-23	AZM4_113211											
TC243517	0	0	3	0	0	At1g60950.1	3.00E-23												
TC222353	0	4	4	0	1	At1g62750.1	0.00E+00							9635.m00701	0	1	0	0	0
CA401234	0	1	0	0	0	At1g63610.1	8.00E-21	AZM4_37381	0	1	0	0	0	9632.m01506	0	0	1	0	0
TC219998	0	0	3	0	0	At1g63770.1	0.00E+00	AZM4_80708	0	0	1	0	0						
TC236521	0	0	1	0	0	At1g63940.1	0.00E+00	AZM4_127532											
TC220737	0	1	1	0	0	At1g65260.1	1.00E-112	AZM4_2007	0	1	0	0	0	9630.m00682	0	0	1	0	0
TC234040	17	6	11	2	1	At1g67090.1	4.00E-61	PUFYG78TD	1	2	2	0	1						
TC234038	4	1	10	2	0	At1g67090.1	8.00E-61		1	3	1	0	0						
TC234963	4	1	9	2	0	At1g67090.1	2.00E-60		0	0	2	0	0						
TC234962	0	0	2	1	0	At1g67090.1	4.00E-05		0	0	2	0	0						
TC240729	0	0	3	0	0	At1g69740.1	1.00E-165		2	12	8	1	2	9639.m02980	1	0	0	0	0
TC234153	0	0	1	0	0	At1g70410.1	7.00E-58		0	0	1	0	0	9629.m05101	0	0	2	0	0
TC224492	0	0	2	0	0	At1g70410.2	3.00E-64	AZM4_102520	0	0	1	0	0	9629.m05100	0	0	1	0	0
TC247223	0	1	0	0	0	At1g72680.1	7.00E-95	AZM4_39269	0	0	1	0	0						
TC221458	0	0	1	0	0	At1g74040.1	0.00E+00	AZM4_39537											
CF036980	0	0	1	0	0	At1g74260.1	2.00E-64		0	0	2	1	0	9630.m00666	0	0	1	0	0
TC224068	0	0	1	0	0	At1g74970.1	3.00E-55		0	1	1	0	0	9633.m04436	0	0	1	0	0
TC219295	0	7	1	2	2	At1g76100.1	3.00E-38	AZM4_68343	0	0	1	0	0	9637.m02567	0	0	2	0	0
TC219293	0	8	3	2	2	At1g76100.1	9.00E-37	AZM4_135189	0	0	1	0	0	9637.m02568	0	0	2	0	0
TC226085	3	5	0	0	0	At1g76450.1	9.00E-58	AZM4_14936											
TC241729	0	0	1	0	0	At1g76760.1	9.00E-43	AZM4_60287	0	0	1	0	0	9635.m00416	3	4	2	0	0
TC226969	3	8	0	0	0	At1g77090.1	6.00E-89	AZM4_6036											
TC219203	1	11	9	1	1	At1g79550.2	0.00E+00	OG5CD44TC	1	6	1	0	0	9630.m05162	0	0	3	0	0
NP003420	0	0	2	0	0	At1g79750.1	0.00E+00	AZM4_12736	0	0	1	0	0	9629.m01061	0	0	1	0	0
TC219549	0	0	7	1	0	At1g79750.1	0.00E+00	AZM4_140403	1	6	0	0	0	9629.m01292	0	0	1	0	0
TC234846	20	4	13	2	2	At1g79750.1	0.00E+00	AZM4_11866	0	3	0	0	0	9629.m02473	0	1	5	0	0
TC220816	0	0	1	0	0	At1g79850.1	1.00E-20	AZM4_49454	0	0	2	0	0	9636.m00076	3	14	3	0	1
TC223031	0	1	1	0	0	At1g80380.2	1.00E-148	AZM4_50587	0	1	0	0	0	9629.m05801	1	0	0	0	0
TC220616	1	4	2	0	0	At1g80560.1	1.00E-171	AZM4_12029	3	11	3	1	2	9634.m00084	1	10	4	0	1

TC237640	0	0	1	0	0	At2g40490.1	1.00E-167	AZM4_19234	0	0	1	0	0	9633.m00033	2	4	1	0	0
TC241656	0	4	0	0	0	At2g43560.1	7.00E-65	AZM4_61252	0	0	1	0	0						
TC235390	1	9	3	0	1	At2g43750.1	1.00E-136	AZM4_124239	0	2	2	0	0	9630.m01928	0	0	3	0	0
TC247139	0	0	5	0	0	At2g44430.1	1.00E-07	OGRBK39TV	0	0	1	2	1	9640.m03506	0	1	3	0	0
TC220472	5	0	3	1	0	At2g44450.1	1.00E-136	AZM4_123358	0	0	1	0	0	9634.m04442	2	9	6	0	1
TC240240	0	1	0	0	0	At2g44920.2	9.00E-58		0	0	5	0	0	9629.m00879	1	0	7	0	0
TC223290	1	0	2	2	0	At2g47400.1	1.00E-22	AZM4_102521	0	0	2	0	0	9629.m02950	1	4	0	0	0
TC235922	0	0	2	0	0	At2g47940.1	0.00E+00	PUDIF43TD	0	1	0	0	1	9638.m03643	0	0	1	0	0
TC229543	2	0	0	0	0	At3g01440.1	4.00E-40	AZM4_91271	5	12	4	2	3	9639.m04488	6	3	6	0	0
TC239826	4	5	2	0	0	At3g01480.1	1.00E-125	AZM4_119032	0	0	1	0	0						
NP003493	0	0	1	0	0	At3g02360.2	0.00E+00	AZM4_11356	0	0	2	0	0	9637.m03347	1	4	2	1	0
TC234663	0	0	1	0	0	At3g02360.2	0.00E+00	AZM4_92798	2	6	0	0	0	9637.m03370	0	0	2	0	0
TC222544	5	5	2	0	0	At3g03190.1	7.00E-52		1	1	0	0	0	9632.m03206	0	0	1	0	0
TC221577	6	4	1	0	0	At3g04790.1	9.00E-96	AZM4_34347	2	1	0	0	0	9640.m00763	0	1	0	0	0
TC237934	1	4	1	0	0	At3g08740.1	2.00E-80	AZM4_135245	0	0	0	1	0						
TC237935	0	2	0	0	0	At3g08740.1	1.00E-55	AZM4_135394											
TC223951	1	3	0	0	0	At3g10670.1	1.00E-98	AZM4_14095	1	2	0	0	0	9632.m05658	0	1	0	0	0
TC234347	0	2	0	0	0	At3g11630.1	7.00E-29	AZM4_141913	0	0	5	0	0	9631.m01834	0	0	1	0	0
TC219905	0	1	6	0	1	At3g13470.1	0.00E+00	OGBMT85TV						9630.m03668	4	9	12	0	1
TC219523	1	3	0	0	0	At3g13470.1	8.00E-67	AZM4_60661						9638.m01770	0	0	1	0	0
TC221018	0	0	2	0	0	At3g14930.2	1.00E-156							9629.m04537	0	1	0	0	0
TC234445	0	0	1	0	0	At3g14940.1	0.00E+00	AZM4_102821						9631.m00283	3	21	17	1	1
TC234436	1	0	0	0	0	At3g15020.1	1.00E-126	AZM4_1951	1	1	3	1	1	9629.m05266	0	0	4	0	0
TC238760	0	0	1	0	0	At3g15360.1	3.00E-38	AZM4_11520	4	0	2	1	1	9635.m00415	3	4	2	0	0
TC221334	6	12	5	2	1	At3g15360.1	2.00E-37	AZM4_115459	1	1	0	0	0	9635.m00584	1	2	1	0	0
TC224103	0	0	1	0	0	At3g15360.1	7.00E-34	OG1DW63TV	2	2	1	0	0	9635.m00648	0	0	1	0	0
TC224102	0	0	1	0	0	At3g15360.1	1.00E-33	AZM4_135414	0	0	3	0	0						
TC221335	0	1	1	0	0	At3g15360.1	1.00E-16	AZM4_81115											
AI966827	0	2	0	0	0	At3g15900.1	6.00E-06	AZM4_11868	0	2	1	0	0	9632.m01500	8	6	3	1	0
TC236324	0	0	4	0	0	At3g19170.1	0.00E+00	AZM4_33744	0	0	2	0	0	9631.m05575	0	2	0	0	0
TC240004	0	0	3	0	0	At3g22400.1	2.00E-56	AZM4_12085	0	2	3	1	3	9633.m02945	0	0	1	0	0
TC222128	0	0	1	0	0	At3g23700.1	3.00E-67		2	1	0	0	0	9633.m04741	0	0	1	0	0
TC226569	0	0	1	0	0	At3g24430.1	7.00E-92	AZM4_118020	1	2	2	0	1	9629.m07405	0	4	3	0	0
TC238661	0	0	2	0	0	At3g26060.1	4.00E-73	AZM4_49550	0	1	0	0	0	9638.m03438	0	0	1	0	0
TC223732	1	0	1	0	0	At3g26900.1	7.00E-43	AZM4_61043	0	0	1	0	0	9629.m00031	0	0	1	0	0
TC223731	0	0	1	0	0	At3g26900.1	2.00E-11	AZM4_67669	0	0	2	0	0	9629.m00200	0	0	1	0	0
CF043607	0	1	0	0	0	At3g27830.1	3.00E-20		1	1	2	0	0	9629.m05689	6	1	2	0	0
TC222916	0	1	1	1	2	At3g27850.1	5.00E-33	AZM4_68585	1	2	0	0	0	9629.m05687	1	4	0	0	0
BI423496	0	0	0	0	1	At3g27850.1	9.00E-04	AZM4_105131	6	10	2	1	3	9629.m05751	3	34	14	0	1
TC223300	2	3	0	0	0	At3g27925.1	1.00E-139	AZM4_105367	2	2	0	0	0	9637.m01179	0	0	1	0	0
TC234252	0	0	7	0	2	At3g45140.1	1.00E-148	AZM4_4285	5	3	1	0	0	9630.m05354	2	3	1	0	0
TC237970	0	0	9	0	2	At3g45140.1	1.00E-140	AZM4_39942	0	0	1	0	0	9630.m05476	0	4	2	0	0
CA408666	0	0	2	0	0	At3g45140.1	7.00E-36	AZM4_81923	1	1	0	0	0	9630.m05507	2	9	6	0	1
TC237726	1	2	5	0	0	At3g48730.1	1.00E-134		0	0	1	0	0						
TC221240	0	0	1	0	0	At3g49680.1	1.00E-156	AZM4_106230						9637.m00989	0	0	1	0	0
TC233308	3	11	1	0	0	At3g50820.1	1.00E-143	AZM4_127368						9629.m03821	1	1	0	0	0
TC233304	4	15	2	0	0	At3g50820.1	1.00E-141	AZM4_59320						9629.m04408	1	0	0	0	0
BG316424	0	3	0	0	0	At3g50820.1	6.00E-36	AZM4_5974						9629.m04439	0	0	3	0	0

TC238798	0	3	1	0	0	At3g52150.1	5.00E-46	AZM4_65358	0	1	0	0	0	9640.m00143	2	2	2	0	0
CF633896	0	2	0	0	0	At3g52380.1	3.00E-33	AZM4_3065	0	0	1	0	0	9640.m00359	0	0	1	0	0
CF646505	0	2	1	0	0	At3g52380.1	1.00E-05	AZM4_65057	0	0	1	0	0	9639.m00061	0	0	2	0	0
TC223042	4	15	2	1	2	At3g52960.1	8.00E-70	AZM4_3748	0	1	0	0	0						
TC226594	0	0	1	0	0	At3g53580.1	1.00E-69	AZM4_37701	0	0	2	0	1						
TC224643	2	3	7	1	0	At3g54050.1	1.00E-165	AZM4_59250	0	2	0	0	0	9632.m04868	0	0	1	0	0
TC224642	2	3	0	0	0	At3g54050.1	3.00E-67	AZM4_51480	0	7	2	1	3	9632.m04910	1	0	0	0	0
TC247511	0	0	3	0	0	At3g54050.1	2.00E-23	AZM4_51730	4	9	1	0	1	9632.m05045	0	0	1	0	0
TC227052	0	4	2	0	0	At3g54660.1	1.00E-171	AZM4_24325	1	0	0	0	0	9632.m03260	1	0	2	1	0
TC236196	1	0	0	0	0	At3g55010.1	1.00E-143	PUFTO83TD	1	2	0	0	0	9633.m04687	1	0	0	0	0
TC228197	0	0	1	0	0	At3g55330.1	1.00E-67		0	2	0	0	0						
TC225028	0	1	0	0	0	At3g55350.1	1.00E-101	AZM4_102856	0	4	1	0	0	9630.m00356	0	1	0	0	0
TC239473	12	7	4	2	0	At3g55800.1	1.00E-160	AZM4_104851	0	0	1	0	0	9634.m00340	5	2	7	1	0
TC239317	0	0	2	0	0	At3g57610.1	1.00E-122	PUJAL73TD						9633.m02768	0	0	2	0	0
TC237265	1	4	1	0	0	At3g58010.1	5.00E-78	AZM4_2999	1	0	0	0	0	9635.m03760	1	2	0	0	0
TC237264	2	1	1	0	0	At3g58010.1	3.00E-49	AZM4_59251	2	3	1	0	0	9635.m03761	1	2	0	0	0
TC219885	0	0	1	0	0	At3g58610.1	0.00E+00	AZM4_68932	0	1	0	0	0	9629.m05685	1	0	7	0	0
TC234474	0	0	3	0	0	At3g58610.1	0.00E+00	AZM4_68973	0	1	0	0	0	9637.m01315	1	0	0	1	0
TC235388	1	3	0	0	1	At3g59760.1	1.00E-45	AZM4_69012	0	0	2	0	0	9630.m03177	12	15	5	1	1
TC235389	1	1	0	0	1	At3g59760.3	1.00E-31	AZM4_69259	0	3	2	0	0	9630.m03081	0	0	1	0	0
TC218681	1	0	0	0	0	At3g60130.1	3.00E-30	AZM4_70172	2	1	2	0	0	9634.m04053	2	5	2	0	0
TC234883	0	1	0	0	0	At3g60210.1	7.00E-36	AZM4_70365											
TC235007	8	3	14	2	1	At3g60750.1	0.00E+00	AZM4_90949	0	0	2	0	0	9638.m01773	2	13	4	0	0
TC244719	0	0	1	0	0	At3g62910.1	9.00E-89	OGWFH73TH	0	0	1	0	0						
TC229209	1	0	0	0	0	At3g63140.1	3.00E-56	AZM4_32805	1	6	11	2	3	9640.m00911	0	0	1	0	0
CF646019	2	1	0	0	0	At3g63140.1	2.00E-14	AZM4_124334	0	0	1	0	0	9640.m00996	2	6	0	0	0
TC237619	2	4	0	0	1	At3g63190.1	9.00E-80		0	1	0	0	0	9640.m03664	1	2	0	0	0
TC237618	3	3	2	0	0	At3g63190.1	2.00E-74	AZM4_51460											
TC219835	0	1	1	0	0	At3g63490.1	1.00E-114	AZM4_89961	0	0	1	0	0	9636.m03143	0	2	0	0	0
TC239550	2	3	0	0	0	At4g02530.1	1.00E-42	AZM4_90154	0	0	1	0	0	9639.m03078	0	0	1	0	0
TC220034	0	0	1	0	0	At4g02930.1	0.00E+00	AZM4_35710	0	0	1	0	0	9633.m04861	1	1	0	0	0
TC228810	5	11	4	2	1	At4g03520.1	5.00E-36	AZM4_101245	0	0	1	0	0	9631.m04631	0	0	1	0	0
CD998220	0	0	0	0	1	At4g03520.1	7.00E-02												
TC228529	0	1	0	0	0	At4g09650.1	1.00E-45	AZM4_101507	1	5	3	0	1	9631.m05461	0	0	1	0	0
TC234961	0	0	1	0	0	At4g10340.1	1.00E-27	AZM4_81439	10	2	11	2	3						
CD974069	0	2	0	0	0	At4g11430.1	8.00E-02	AZM4_103227	0	0	1	0	0	9634.m00139	1	7	7	0	0
TC221601	0	0	1	0	0	At4g13430.1	0.00E+00	AZM4_102601	2	6	1	0	0						
TC223096	0	0	1	0	0	At4g13430.1	0.00E+00	PUEEH75TD	0	0	3	0	0						
TC234960	1	0	1	0	0	At4g14680.1	0.00E+00	PUFBN65TB	0	0	1	0	0	9633.m03581	0	0	1	0	0
TC229450	4	4	0	0	0	At4g15510.1	8.00E-82	AZM4_100525	2	2	0	0	0						
BQ619129	0	6	5	0	0	At4g15530.1	0.00E+00	AZM4_117820	0	1	4	0	0	9636.m03814	0	0	1	0	0
BQ619199	0	5	5	0	0	At4g15530.1	0.00E+00		0	0	2	0	0	9636.m03815	0	0	1	0	0
TC233444	3	34	19	2	2	At4g15530.1	0.00E+00	AZM4_124523	1	6	9	0	2	9636.m03831	0	0	1	0	0
TC219014	0	2	15	2	1	At4g15530.1	0.00E+00	AZM4_124609	0	7	2	2	3	9636.m03984	1	5	0	0	0
AW360516	0	2	1	0	1	At4g15530.1	8.00E-59	AZM4_60667	2	4	1	0	0	9636.m04266	0	1	3	0	0
CD981873	0	0	2	1	0	At4g15530.1	3.00E-31		0	0	1	1	1	9636.m04360	0	3	1	0	0
TC233447	0	0	4	0	0	At4g15530.2	3.00E-48	OGCAF77TM	2	21	9	1	3	9636.m03753	0	0	1	0	0
TC233449	0	0	4	1	0	At4g15530.2	4.00E-38		1	3	0	0	0	9636.m03832	0	0	1	0	0

AW225169	0	1	0	0	0	At4g15530.2	5.00E-30	AZM4_103212	1	1	1	0	0	9636.m04063	1	0	0	0	0
TC220990	2	6	1	0	0	At4g15940.1	2.00E-85	AZM4_114186	0	2	0	0	0	9633.m04526	0	0	1	0	0
TC220991	1	0	0	0	0	At4g15940.1	6.00E-85	AZM4_114830	3	4	1	0	0	9633.m04623	0	1	0	0	0
TC220992	1	0	0	0	0	At4g15940.1	1.00E-51	AZM4_115117	0	0	1	0	0	9633.m04628	2	2	0	0	0
TC220993	1	3	1	0	0	At4g15940.1	2.00E-50	PUIEO49TB	1	0	0	0	0	9633.m04679	0	0	3	0	0
BU037106	0	1	0	0	0	At4g16830.1	5.00E-02	AZM4_40913	0	1	1	0	1	9629.m07406	0	4	3	0	0
TC242933	0	2	0	0	0	At4g17880.1	2.00E-19	AZM4_92538	0	0	1	0	0						
TC223380	0	0	1	0	0	At4g18810.1	2.00E-93	AZM4_23244						9630.m05887	0	0	1	0	0
TC222181	9	15	11	1	1	At4g20360.1	1.00E-140	AZM4_3419						9631.m01857	0	0	2	0	0
TC226641	8	11	9	1	2	At4g20360.1	1.00E-98	AZM4_26244						9631.m01992	0	3	1	0	0
TC222182	5	4	6	0	1	At4g20360.1	4.00E-77	AZM4_51734						9631.m02329	0	0	1	0	0
NP668315	3	4	3	1	0	At4g20360.1	2.00E-59	AZM4_103597						9631.m03019	1	0	1	0	0
BE345360	3	0	3	0	0	At4g20360.1	3.00E-14							9631.m03075	0	0	3	0	0
TC220929	0	0	5	0	0	At4g21210.1	1.00E-111	PUGJF75TB	0	0	5	0	0	9640.m01362	1	3	4	0	0
TC240097	0	0	2	0	0	At4g21210.1	1.00E-108	PUHHI12TB	0	0	1	0	1	9640.m01388	2	0	0	0	0
TC219937	0	0	2	0	2	At4g21280.1	5.00E-54	AZM4_81181	0	0	0	2	1	9640.m02348	0	1	0	0	0
TC219936	0	0	0	0	1	At4g21280.1	4.00E-51	AZM4_11351	0	2	1	0	1	9640.m03121	0	1	0	0	0
TC238011	0	0	2	0	0	At4g21280.1	2.00E-48	AZM4_60240	0	0	1	0	0	9640.m03448	0	1	1	0	0
BM348793	0	0	1	0	0	At4g21445.1	2.00E-32							9635.m03422	0	0	2	0	0
TC239101	0	1	0	0	0	At4g21860.1	2.00E-63	AZM4_38000	0	4	0	0	0	9636.m03144	0	2	0	0	0
TC235857	2	4	0	0	0	At4g22240.1	4.00E-89	AZM4_129228	0	0	1	0	0						
TC235856	4	8	2	0	0	At4g22240.1	1.00E-84	AZM4_101766	0	1	0	0	0						
TC235785	3	12	4	0	1	At4g24280.1	0.00E+00	AZM4_102238	0	2	0	0	0	9636.m02527	0	0	3	0	0
TC241692	0	1	0	0	0	At4g24280.1	2.00E-83	AZM4_94195						9636.m02545	0	0	1	0	0
BM661431	0	0	3	0	1	At4g24280.1	2.00E-64	AZM4_961	0	0	3	0	0						
TC220455	0	0	2	0	0	At4g24620.1	1.00E-127	PUFBO69TD	0	0	1	0	0						
TC236626	2	7	4	2	2	At4g24770.1	4.00E-75	AZM4_23203	1	0	0	0	0						
TC235458	2	3	2	0	0	At4g24770.1	1.00E-73	AZM4_71970	0	0	8	1	0						
TC235457	5	9	2	0	1	At4g24770.1	7.00E-72	AZM4_34461	1	2	8	1	0						
TC223112	0	0	1	1	0	At4g25050.1	1.00E-25	AZM4_136222	1	0	0	0	0						
TC224571	0	0	1	0	1	At4g25130.1	1.00E-85	AZM4_136358	5	12	4	2	3						
TC227093	0	0	1	0	0	At4g26500.1	3.00E-61	AZM4_137040	0	0	2	0	0						
TC238911	0	2	0	0	0	At4g28660.1	2.00E-46	AZM4_38332	1	0	0	0	0	9630.m01743	0	0	1	0	0
TC238638	0	0	1	0	0	At4g28730.1	6.00E-42	AZM4_15100	0	3	2	0	0						
TC239805	0	0	2	0	0	At4g28730.1	1.00E-38	AZM4_16374	0	0	1	0	0						
TC227408	0	0	1	0	0	At4g29060.1	4.00E-95	AZM4_113654	0	0	1	0	0						
TC226754	0	1	1	0	0	At4g29060.1	2.00E-37	AZM4_115678	0	1	0	0	0						
TC227407	0	0	1	0	0	At4g29060.1	7.00E-15	AZM4_85569	0	0	1	0	0						
TC221689	0	0	1	0	0	At4g29840.1	0.00E+00	AZM4_41044	0	1	1	0	0	9629.m06930	0	0	3	0	0
TC221688	0	0	2	0	0	At4g29840.1	1.00E-108	AZM4_41155	0	2	1	0	0	9629.m07037	0	2	0	0	0
TC241131	0	0	1	0	0	At4g29840.1	1.00E-92	AZM4_4888	0	0	1	0	0	9637.m00988	0	0	1	0	0
TC219944	4	18	10	1	2	At4g31990.2	0.00E+00	OGUJH83TV	0	0	3	0	0	9632.m00109	5	3	2	0	0
TC219945	0	2	2	0	0	At4g31990.2	2.00E-57	OGJAP02TV	0	2	2	0	0	9632.m00910	0	0	0	1	0
TC241483	0	0	1	0	0	At4g33030.1	0.00E+00							9636.m02914	3	3	1	0	0
TC236473	0	0	1	0	0	At4g33500.1	2.00E-61	PUJQA02TD	4	8	9	1	2	9632.m03938	0	0	2	0	0
TC223050	0	0	1	0	0	At4g33500.1	8.00E-46	AZM4_125739	1	4	4	0	2						
TC237225	0	0	2	0	0	At4g33680.1	1.00E-111	AZM4_12662	0	0	7	0	0	9632.m05496	0	1	1	0	0
TC245505	0	0	1	0	0	At4g34090.1	2.00E-28	AZM4_126821						9632.m03108	0	0	6	0	0

TC225226	0	1	0	0	0	At4g34120.1	3.00E-60	AZM4_93135	0	0	2	0	0						
TC230439	0	2	0	0	0	At4g34420.1	1.00E-20	AZM4_52860	1	0	1	0	0						
TC224671	1	0	0	0	0	At4g37980.1	8.00E-53	AZM4_61127	1	0	0	0	0						
TC219361	14	1	6	1	0	At4g38970.1	0.00E+00	PUJFD13TB	0	0	1	0	0						
TC219359	45	26	12	2	1	At4g38970.1	1.00E-180		22	14	10	2	2						
TC219975	0	0	2	0	1	At5g01650.1	8.00E-49		1	2	2	0	0						
TC219976	0	0	0	0	1	At5g01650.1	6.00E-37	AZM4_14400	0	0	2	0	0						
TC221203	0	0	5	0	0	At5g03650.1	0.00E+00	AZM4_14762						9639.m03621	0	0	1	0	0
TC236410	0	0	4	0	1	At5g04140.2	0.00E+00	AZM4_14798	0	4	2	0	0						
TC221283	0	0	1	0	0	At5g04590.1	0.00E+00		0	1	0	0	0	9637.m00836	0	2	0	0	0
TC234346	17	26	8	2	2	At5g06290.1	1.00E-106	AZM4_33009	1	0	3	1	1	9631.m01559	1	3	8	1	0
TC234345	10	13	6	1	1	At5g06290.1	1.00E-106	AZM4_26007	0	0	1	0	0	9634.m01245	0	0	1	0	0
BE238465	0	2	0	0	0	At5g06290.1	7.00E-50	AZM4_40873	0	1	1	0	0	9634.m01396	0	0	1	0	0
TC221521	0	1	2	0	0	At5g08280.1	1.00E-128		0	1	0	0	0	9630.m04093	0	0	1	0	0
TC239515	0	0	1	0	0	At5g08280.1	1.00E-107							9630.m04573	11	14	6	1	0
TC245350	0	0	1	0	0	At5g08410.1	1.00E-24	AZM4_16466	3	8	0	0	0	9631.m04630	0	0	1	0	0
TC218860	14	30	4	2	2	At5g09650.1	1.00E-117	AZM4_61356	0	0	2	0	0	9631.m06051	1	0	1	0	0
TC235165	0	0	1	0	0	At5g11670.1	0.00E+00	AZM4_61423	0	0	1	0	0	9629.m07407	0	3	3	0	0
TC242491	0	0	2	0	0	At5g11670.1	0.00E+00	AZM4_47023	1	2	6	1	3	9636.m01261	0	1	0	0	0
TC228225	4	4	2	0	0	At5g13120.1	5.00E-79		0	0	1	0	0	9636.m00486	0	0	1	0	0
CF649690	0	1	0	0	0	At5g13120.1	6.00E-05	AZM4_103983	0	0	1	0	0	9636.m00487	0	0	1	0	0
TC234222	0	0	2	0	0	At5g13420.1	1.00E-178	AZM4_32948	0	0	2	0	0	9630.m00928	0	0	6	0	0
TC234225	0	0	2	0	0	At5g13420.1	1.00E-177	AZM4_41181						9630.m01377	0	0	1	0	0
TC224551	0	2	0	0	0	At5g13510.1	8.00E-69	AZM4_42293	0	0	2	0	0	9632.m05278	0	0	1	0	0
BM079225	0	2	0	0	0	At5g13510.1	2.00E-25	OGVDF90TH	0	1	0	0	0	9632.m05365	0	0	1	0	0
TC223473	0	0	1	0	0	At5g13650.2	0.00E+00							9631.m00339	0	0	2	0	0
TC236216	0	0	1	0	0	At5g14590.1	0.00E+00	PUBEL41TD						9634.m04997	0	1	0	0	0
TC234739	0	0	3	0	0	At5g14740.1	7.00E-65	PUBFG32TD	0	1	5	0	2	9629.m04822	0	0	2	0	0
TC234150	0	0	2	0	0	At5g14740.1	2.00E-64	AZM4_28609	0	1	0	0	0	9629.m05102	0	0	1	0	0
TC222149	0	0	1	0	0	At5g14910.1	1.00E-24	AZM4_111522	0	0	1	0	0	9636.m02890	2	4	0	0	0
TC220464	0	3	1	1	0	At5g16400.1	5.00E-46	AZM4_124521						9630.m00796	0	0	2	0	0
TC220465	0	2	1	0	0	At5g16400.1	7.00E-46	PUHRI18TB						9630.m00808	0	0	1	0	0
TC234627	1	0	0	0	0	At5g16880.2	1.00E-138	AZM4_1260	0	0	1	0	0	9631.m04632	0	0	1	0	0
TC222866	0	4	0	0	0	At5g17710.1	1.00E-43	AZM4_137096	1	3	0	0	0	9631.m03497	0	3	3	0	0
TC222867	2	6	1	0	0	At5g17710.2	4.00E-62	AZM4_60658	0	1	0	0	0	9631.m03343	1	1	1	0	0
TC222533	3	0	0	0	0	At5g19220.1	1.00E-166	AZM4_138608	0	0	1	0	0	9633.m03285	2	8	4	0	0
TC242174	2	1	1	0	0	At5g19220.1	1.00E-33	AZM4_25929						9633.m03286	3	0	13	1	1
TC233814	1	0	0	0	0	At5g20720.1	2.00E-51	AZM4_125198	0	1	0	0	0	9638.m02362	0	0	1	0	0
AI622475	1	1	0	0	0	At5g20720.1	3.00E-48	AZM4_15025	8	11	18	2	3	9638.m02805	0	0	1	0	0
BE512268	1	2	1	0	0	At5g20720.1	3.00E-41	PUGHY90TD	0	0	2	0	0						
TC233810	4	6	2	0	0	At5g20720.2	6.00E-93		0	0	1	0	0	9631.m06367	0	5	0	0	0
TC235771	0	1	0	0	0	At5g20720.2	3.00E-90	AZM4_1345	0	0	1	0	0	9638.m02812	0	0	1	0	0
TC236117	3	4	1	0	0	At5g20720.2	7.00E-76	AZM4_26706	0	2	0	0	0	9638.m03177	1	3	1	0	0
TC233811	0	2	1	0	0	At5g20720.2	2.00E-44	AZM4_108777	0	0	1	0	0						
TC237710	0	0	1	0	0	At5g21940.1	4.00E-07	PUEAJ93TD	1	0	0	0	0						
TC235127	0	1	0	0	0	At5g22000.3	1.00E-07	PUEDS66TD											
TC230967	0	1	0	0	0	At5g23120.1	2.00E-90	AZM4_120695	0	1	0	0	0	9639.m04032	0	0	1	0	0
TC225197	0	1	1	0	0	At5g23140.1	2.00E-72	AZM4_941						9631.m03991	0	0	3	0	0

TC245457	0	2	2	0	0	At5g23140.1	6.00E-24	AZM4_36345						9631.m04162	12	4	11	1	1
TC236897	0	0	2	0	0	At5g24300.1	0.00E+00	AZM4_63615						9638.m01774	12	4	16	1	0
TC221841	0	4	1	0	0	At5g30510.1	1.00E-136	AZM4_138283	0	0	3	0	0	9632.m05562	1	2	0	0	0
TC220868	2	2	6	0	0	At5g35630.1	0.00E+00	AZM4_138367	1	0	0	0	0	9631.m05308	0	0	1	0	0
TC229733	0	0	1	0	0	At5g36790.1	7.00E-82	AZM4_138560	0	0	1	0	0	9634.m04782	0	0	1	0	0
CD973416	0	1	0	0	0	At5g39830.1	2.00E-20	AZM4_36162	1	1	0	0	0	9634.m03804	1	6	2	0	0
TC240675	0	0	1	0	0	At5g41480.1	6.00E-05	AZM4_106569	0	0	2	0	0						
TC218678	0	0	2	1	0	At5g42260.1	1.00E-124		0	0	1	0	0	9634.m04781	0	0	1	0	0
TC237502	0	0	1	0	0	At5g44640.1	2.00E-64		0	2	1	0	0	9634.m04399	0	1	1	0	0
TC247336	0	3	1	1	0	At5g45680.1	2.00E-43	AZM4_63795	0	0	1	0	0	9639.m00151	2	2	2	0	0
TC223168	0	2	2	0	0	At5g45930.1	1.00E-151	AZM4_124357	0	2	0	0	0	9633.m00853	4	0	2	0	0
TC220267	0	0	3	0	0	At5g46290.1	0.00E+00	AZM4_79646	0	0	1	0	0	9638.m03269	0	1	0	0	0
TC236532	9	36	6	2	2	At5g47840.1	2.00E-85	AZM4_79725	0	0	1	1	0						
TC236534	8	19	3	1	1	At5g47840.1	1.00E-84	AZM4_135730	0	1	2	0	0						
TC236533	1	3	0	1	0	At5g47840.1	1.00E-26		2	9	2	1	3						
TC227417	0	0	1	0	0	At5g47860.1	2.00E-71	OGFCG47TC						9634.m00939	0	1	2	0	0
TC232071	0	0	3	0	0	At5g48300.1	0.00E+00	AZM4_12076	0	1	0	0	0						
TC234374	0	0	1	0	0	At5g48300.1	0.00E+00	PUJBE47TD	3	5	4	1	0						
TC237446	0	0	1	0	0	At5g48300.1	0.00E+00		1	0	0	0	0						
TC218859	0	0	1	1	2	At5g48760.1	1.00E-91	AZM4_90887						9633.m03904	7	53	17	1	1
TC220215	1	6	5	0	1	At5g49910.1	0.00E+00	AZM4_90950	3	19	17	2	3						
TC220214	0	1	0	0	0	At5g49910.1	5.00E-87		0	0	1	0	0						
TC234545	0	0	5	0	0	At5g50920.1	0.00E+00	AZM4_104750	0	0	1	1	0	9634.m00920	0	0	2	0	0
TC235372	0	0	4	0	0	At5g50920.1	0.00E+00	AZM4_104768	0	0	1	0	0	9634.m00924	1	0	0	0	0
TC234550	0	0	4	0	0	At5g50920.1	1.00E-101	AZM4_102972	1	0	2	2	1	9634.m00931	1	0	0	0	0
TC234547	0	0	1	0	0	At5g50920.1	4.00E-83	AZM4_123619	0	0	1	0	0	9634.m00932	1	0	0	0	0
TC234548	0	0	1	0	0	At5g50920.1	9.00E-65	AZM4_113210	0	0	1	0	0	9634.m00933	1	0	0	0	0
BE638918	0	0	1	0	0	At5g50920.1	5.00E-50	AZM4_60140	1	4	2	0	0						
TC231493	0	0	2	0	0	At5g50920.1	2.00E-12												
TC219396	0	0	1	0	0	At5g51070.1	6.00E-90	AZM4_105009	1	0	0	0	0	9631.m01538	0	1	1	0	0
TC241261	0	0	1	0	0	At5g51820.1	1.00E-110	AZM4_71429											
TC242420	0	1	2	0	0	At5g51820.1	3.00E-69												
TC242930	0	0	1	0	0	At5g52100.1	5.00E-59		4	20	4	2	3	9632.m03174	0	0	1	0	0
TC238754	0	0	1	0	0	At5g52520.1	0.00E+00	PUFHx66TB	0	0	1	1	0	9640.m00360	0	0	1	0	0
TC225907	0	2	0	0	0	At5g52970.1	6.00E-70		0	0	3	0	0	9640.m01758	0	11	5	0	0
TC224315	2	3	1	1	2	At5g53490.2	3.00E-59		1	3	1	0	2						
TC222061	0	1	2	0	0	At5g57170.1	3.00E-41	AZM4_80534	0	0	1	0	0	9639.m01518	0	0	1	0	0
TC220999	10	17	16	2	2	At5g58330.1	1.00E-180	AZM4_82239	0	0	3	0	0						
TC242468	0	0	1	0	0	At5g59750.1	8.00E-57	AZM4_115985	0	0	0	1	0	9636.m04566	2	4	2	1	1
TC237196	0	0	1	0	0	At5g60600.1	0.00E+00	AZM4_116393	3	10	1	1	1	9631.m03123	0	0	12	1	1
TC234954	3	0	3	0	0	At5g61410.2	1.00E-113	AZM4_135138	0	2	0	0	0	9632.m03503	0	0	3	0	0
TC234957	0	0	2	0	0	At5g61410.2	2.00E-28							9632.m03644	11	15	18	1	1
TC238875	0	1	3	0	1	At5g63310.1	1.00E-63		0	1	2	0	0						
TC227768	0	1	2	0	0	At5g63570.1	9.00E-80		0	0	1	0	0						
TC236818	0	0	1	0	0	At5g63890.1	0.00E+00	AZM4_940	5	6	12	1	3	9629.m02949	1	4	0	0	0
TC222438	0	1	0	0	0	At5g63980.1	1.00E-118		1	1	0	0	0						
TC222439	0	1	0	0	0	At5g63980.1	2.00E-46	AZM4_50181	0	0	1	0	0						
TC242280	0	0	1	0	0	At5g64860.1	1.00E-131	AZM4_50491	0	1	4	0	1						

