

## Supplementary Table S4. Go terms analysis of the DEGs from the salt-tolerant accession

Go terms analysis of the upregulated DEGs in leaves

GO ID	category	description	ratio_in_subset	ratio_in_backgr ound	pvalue	adjusted_p	genes
GO:0006270	Biological_Process	DNA replication initiation	8/1282	35/57561	8.17013E-07	0.000949848	Asa3G02287, Asa3G04033, Asa4G01308, Asa6G05931, Asa7G06189, Asa8G02662, Asa8G05285, Asa8G05897
GO:0006259	Biological_Process	DNA metabolic process	23/1282	294/57561	9.70223E-07	0.000949848	Asa1G01701, Asa2G01603, Asa2G02628, Asa3G00161, Asa3G02287, Asa3G04033, Asa4G01308, Asa4G02781, Asa4G05591, Asa5G02951, Asa5G05999, Asa6G01461, Asa6G01736, Asa6G05930, Asa6G05931, Asa7G02551, Asa7G05821, Asa7G06189, Asa7G06671, Asa7G07211, Asa8G02662, Asa8G05285, Asa8G05897
GO:0090304	Biological_Process	nucleic acid metabolic process	56/1282	1297/57561	6.05705E-06	0.003298377	Asa1G03050, Asa2G01603, Asa2G02628, Asa2G03438, Asa2G03679, Asa2G05234, Asa2G06497, Asa3G00161, Asa3G00952, Asa3G01157, Asa3G02287, Asa3G04033, Asa4G01308, Asa4G02636, Asa4G02781, Asa4G04728, Asa4G05084, Asa4G05585, Asa4G05591, Asa4G05606, Asa4G06437, Asa5G00546, Asa5G02951, Asa5G04416, Asa5G04471, Asa5G04500, Asa5G05999, Asa6G00311, Asa6G01461, Asa6G01736, Asa6G04169, Asa6G04933, Asa6G04934, Asa6G05930, Asa6G05931, Asa7G00027, Asa7G01149, Asa7G02551, Asa7G05821, Asa7G06189, Asa7G06671, Asa7G06821, Asa7G07211, Asa8G00457, Asa8G00594, Asa8G01220, Asa8G01682, Asa8G02662, Asa8G03921, Asa8G04028, Asa8G04029, Asa8G05285, Asa8G05897

GO:0044260	Biological_Process	cellular macromolecule metabolic process	140/1282	4251/57561	6.73826E-06	0.003298377	Asa0G01949, Asa0G02564, Asa0G03472, Asa0G04940, Asa0G05136, Asa0G05416, Asa1G00099, Asa1G00124, Asa1G00241, Asa1G01461, Asa1G01502, Asa1G02572, Asa2G00765, Asa2G01603, Asa2G02082, Asa2G02116, Asa2G02621, Asa2G02622, Asa2G02628, Asa2G02715, Asa2G02716, Asa2G02854, Asa2G02886, Asa2G03140, Asa2G03608, Asa2G03630, Asa2G03631, Asa2G04103, Asa2G05234, Asa2G05301, Asa2G05409, Asa2G06497, Asa2G07433, Asa3G00161, Asa3G01157, Asa3G02287, Asa3G02334, Asa3G02377, Asa3G02617, Asa3G03426, Asa3G03551, Asa3G03857, Asa3G04033, Asa3G04896, Asa4G00245, Asa4G00286, Asa4G00848, Asa4G01308, Asa4G01592, Asa4G02453, Asa4G02636, Asa4G02781, Asa4G02825, Asa4G02866, Asa4G03329, Asa4G03357, Asa4G03605, Asa4G03709, Asa4G04588, Asa4G04728, Asa4G04766, Asa4G05084, Asa4G05568, Asa4G05591, Asa4G05761, Asa5G00305, Asa5G00985, Asa5G00990, Asa5G01398, Asa5G02780, Asa5G02951, Asa5G03254, Asa5G03499, Asa5G03859, Asa5G03868, Asa5G03871, Asa5G04062, Asa5G05591, Asa5G05999, Asa6G00037, Asa6G00435, Asa6G00580, Asa6G00665, Asa6G00827, Asa6G01461, Asa6G01736, Asa6G01791, Asa6G02200, Asa6G02220, Asa6G03134, Asa6G04169, Asa6G04199, Asa6G04888, Asa6G04940, Asa6G05930, Asa6G05931, Asa6G06457, Asa6G06458, Asa7G00231, Asa7G00251, Asa7G00349, Asa7G00380, Asa7G00606, Asa7G01215, Asa7G01216, Asa7G01406, Asa7G01407, Asa7G01454, Asa7G02004, Asa7G02005, Asa7G02071, Asa7G02455, Asa7G02551, Asa7G02612, Asa0G04940, Asa5G02632, Asa6G00435, Asa6G06260, Asa7G04929, Asa8G00166, Asa1G0U2512, Asa2G0U1bU3, Asa2G0U2854, Asa2G05234, Asa5G03859, Asa5G03868, Asa5G03871, Asa6G00580, Asa6G04199, Asa7G02004, Asa7G02005
GO:0016458	Biological_Process	gene silencing	6/1282	25/57561	1.48614E-05	0.005819708	
GO:0006260	Biological_Process	DNA replication	11/1282	102/57561	1.79794E-05	0.005867269	

GO:0043170	Biological_Process	macromolecule metabolic process	176/1282	5788/57561	2.78118E-05	0.007779356	Asa0G01949, Asa0G02564, Asa0G03472, Asa0G04940, Asa0G05107, Asa0G05136, Asa0G05416, Asa1G00099, Asa1G00124, Asa1G00241, Asa1G01461, Asa1G01502, Asa1G02572, Asa1G03050, Asa2G00765, Asa2G01603, Asa2G02082, Asa2G02116, Asa2G02621, Asa2G02622, Asa2G02628, Asa2G02715, Asa2G02716, Asa2G02835, Asa2G02854, Asa2G02886, Asa2G03140, Asa2G03438, Asa2G03608, Asa2G03630, Asa2G03631, Asa2G03679, Asa2G04103, Asa2G05234, Asa2G05301, Asa2G05409, Asa2G06497, Asa2G07433, Asa2G07527, Asa3G00161, Asa3G00952, Asa3G01157, Asa3G02287, Asa3G02334, Asa3G02377, Asa3G02617, Asa3G03312, Asa3G03426, Asa3G03551, Asa3G03857, Asa3G04033, Asa3G04896, Asa4G00245, Asa4G00286, Asa4G00848, Asa4G01308, Asa4G01592, Asa4G02453, Asa4G02636, Asa4G02781, Asa4G02825, Asa4G02866, Asa4G03005, Asa4G03329, Asa4G03357, Asa4G03605, Asa4G03709, Asa4G04588, Asa4G04728, Asa4G04766, Asa4G05084, Asa4G05568, Asa4G05585, Asa4G05591, Asa4G05606, Asa4G05761, Asa4G06437, Asa5G00305, Asa5G00546, Asa5G00985, Asa5G00990, Asa5G01398, Asa5G01449, Asa5G01452, Asa5G02780, Asa5G02951, Asa5G03254, Asa5G03499, Asa5G03859, Asa5G03868, Asa5G03871, Asa5G04062, Asa5G04416, Asa5G04471, Asa5G04500, Asa5G05591, Asa5G05999, Asa6G00037, Asa6G00311, Asa6G00435, Asa6G00580, Asa6G00665, Asa6G00827, Asa6G01461, Asa6G01736, Asa6G01791, Asa6G02200, Asa6G02220, Asa6G02632, Asa6G03134, Asa6G04169, Asa6G04199, Asa6G04888, Asa6G04933,
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GO:0006139	Biological_Process	nucleobase-containing compound metabolic process	67/1282	1836/57561	0.000102084	0.020174578	AsaUGU18U1, AsaUGU51U7, Asa1GUU241, Asa1G01065, Asa1G01461, Asa1G03050, Asa2G01603, Asa2G02628, Asa2G03438, Asa2G03679, Asa2G04257, Asa2G05234, Asa2G06497, Asa3G00161, Asa3G00952, Asa3G01157, Asa3G02287, Asa3G02462, Asa3G03580, Asa3G04033, Asa4G01308, Asa4G02636, Asa4G02781, Asa4G03389, Asa4G04728, Asa4G05084, Asa4G05585, Asa4G05591, Asa4G05606, Asa4G06437, Asa5G00546, Asa5G02091, Asa5G02951, Asa5G04416, Asa5G04471, Asa5G04500, Asa5G05999, Asa6G00311, Asa6G00580, Asa6G01461, Asa6G01736, Asa6G04169, Asa6G04933, Asa6G04934, Asa6G05930, Asa6G05931, Asa7G00027, Asa7G01149, Asa7G01317, Asa7G02551, Asa7G03315, Asa7G05821, Asa7G06189, Asa7G06671, Asa7G06821, Asa7G06919, Asa7G07211, Asa8G00457, Asa8G00594, Asa8G01220, Asa8G01682, Asa8G02662, Asa8G03921, Asa8G04028, Asa8G04029, Asa8G05285, AsaUGU513b, Asa1GUU124, Asa2GUU/6b, Asa2G02715, Asa2G02716, Asa2G03630,
GO:0030243	Biological_Process	cellulose metabolic process	8/1282	66/57561	0.000108396	0.020174578	Asa2G03631, Asa2G07433 AsaUGU513b, Asa1GUU124, Asa2GUU/6b, Asa2G02715, Asa2G02716, Asa2G03630,
GO:0030244	Biological_Process	cellulose biosynthetic process	8/1282	66/57561	0.000108396	0.020174578	Asa2G03631, Asa2G07433 Asa3GUZ227, Asa3GU4bUb, Asa4GUU241, Asa4G01265, Asa4G01399, Asa6G06243, Asa7G00537, Asa7G06333, Asa8G02594,
GO:0006928	Biological_Process	movement of cell or subcellular component	10/1282	105/57561	0.000123644	0.020174578	Asa8G05969 Asa3GUZ227, Asa3GU4bUb, Asa4GUU241, Asa4G01265, Asa4G01399, Asa6G06243, Asa7G00537, Asa7G06333, Asa8G02594,
GO:0007018	Biological_Process	microtubule-based movement	10/1282	105/57561	0.000123644	0.020174578	Asa8G05969 AsaUGU513b, Asa1GUU124, Asa2GUU/6b, Asa2G02715, Asa2G02716, Asa2G03630,
GO:0051273	Biological_Process	beta-glucan metabolic process	9/1282	94/57561	0.000256428	0.035863296	Asa2G03631, Asa2G07433, Asa6G04940 AsaUGU513b, Asa1GUU124, Asa2GUU/6b, Asa2G02715, Asa2G02716, Asa2G03630,
GO:0051274	Biological_Process	beta-glucan biosynthetic process	9/1282	94/57561	0.000256428	0.035863296	Asa2G03631, Asa2G07433, Asa6G04940 Asa3G02287, Asa3G04033, Asa6G05931,
GO:0042555	Cellular_Component	MCM complex nuclear origin of replication	4/1282	8/57561	1.59605E-05	0.006368251	Asa8G02662
GO:0005664	Cellular_Component	recognition complex	3/1282	5/57561	0.000106585	0.009954805	Asa5G03859, Asa5G03868, Asa5G03871

GO:0000786	Cellular_Component	nucleosome	23/1282	440/57561	0.000219393	0.009954805	Asa1G01828, Asa1G01851, Asa1G01904, Asa1G02073, Asa2G00293, Asa2G00294, Asa2G00295, Asa2G00751, Asa2G03560, Asa5G03893, Asa5G04158, Asa5G05718, Asa6G02716, Asa6G03653, Asa7G00783, Asa7G01788, Asa7G05313, Asa7G05539, Asa7G05685, Asa8G05254
GO:0044815	Cellular_Component	DNA packaging complex	23/1282	444/57561	0.000239097	0.009954805	Asa1G01828, Asa1G01851, Asa1G01904, Asa1G02073, Asa2G00293, Asa2G00294, Asa2G00295, Asa2G00751, Asa2G03560, Asa5G03893, Asa5G04158, Asa5G05718, Asa6G02716, Asa6G03653, Asa7G00783, Asa7G01788, Asa7G05313, Asa7G05539, Asa7G05685, Asa8G05254
GO:0032993	Cellular_Component	protein-DNA complex	23/1282	444/57561	0.000239097	0.009954805	Asa1G01828, Asa1G01851, Asa1G01904, Asa1G02073, Asa2G00293, Asa2G00294, Asa2G00295, Asa2G00751, Asa2G03560, Asa5G03893, Asa5G04158, Asa5G05718, Asa6G02716, Asa6G03653, Asa7G00783, Asa7G01788, Asa7G05313, Asa7G05539, Asa7G05685, Asa8G05254
GO:0033646	Cellular_Component	host intracellular part	15/1282	234/57561	0.000274443	0.009954805	Asa1G004819, Asa2G04751, Asa2G04873, Asa2G07058, Asa3G01551, Asa4G02201, Asa4G03144, Asa4G03524, Asa5G00486, Asa6G01673, Asa7G03034, Asa7G03750, Asa7G03751
GO:0042025	Cellular_Component	host cell nucleus	15/1282	234/57561	0.000274443	0.009954805	Asa1G004819, Asa2G04751, Asa2G04873, Asa2G07058, Asa3G01551, Asa4G02201, Asa4G03144, Asa4G03524, Asa5G00486, Asa6G01673, Asa7G03034, Asa7G03750, Asa7G03751
GO:0018995	Cellular_Component	host cellular component	15/1282	234/57561	0.000274443	0.009954805	Asa1G004819, Asa2G04751, Asa2G04873, Asa2G07058, Asa3G01551, Asa4G02201, Asa4G03144, Asa4G03524, Asa5G00486, Asa6G01673, Asa7G03034, Asa7G03750, Asa7G03751
GO:0033647	Cellular_Component	host intracellular organelle	15/1282	234/57561	0.000274443	0.009954805	Asa1G004819, Asa2G04751, Asa2G04873, Asa2G07058, Asa3G01551, Asa4G02201, Asa4G03144, Asa4G03524, Asa5G00486, Asa6G01673, Asa7G03034, Asa7G03750, Asa7G03751

GO:0033648	Cellular_Component	host intracellular membrane-bounded organelle	15/1282	234/57561	0.000274443	0.009954805	AsaUGU3140, Asa1GU1851, Asa1GU4819, Asa2G04751, Asa2G04873, Asa2G07058, Asa3G01551, Asa4G02201, Asa4G03144, Asa4G03524, Asa5G00486, Asa6G01673, Asa7G03034, Asa7G03750, Asa7G03751, AsaUGU3140, Asa1GU1851, Asa1GU4819, Asa2G04751, Asa2G04873, Asa2G07058, Asa3G01551, Asa4G02201, Asa4G03144, Asa4G03524, Asa5G00486, Asa6G01673, Asa7G03034, Asa7G03750, Asa7G03751
GO:0033643	Cellular_Component	host cell part	15/1282	234/57561	0.000274443	0.009954805	Asa1G04323, Asa3G01178, Asa3G02534, Asa7G05468, Asa7G05470
GO:0005643	Cellular_Component	nuclear pore	5/1282	29/57561	0.00041384	0.013760169	AsaUGU3140, Asa1GU1851, Asa1GU4819, Asa2G00230, Asa2G07205, Asa3G01157, Asa3G01479, Asa4G01267, Asa4G02647, Asa4G03709, Asa4G04877, Asa4G04878, Asa5G00546, Asa5G03254, Asa5G05475, Asa6G00435, Asa6G00931, Asa6G01957, Asa6G01959, Asa6G05930, Asa6G05931, Asa7G02189, Asa7G06597, Asa8G03917
GO:0005634	Cellular_Component	nucleus	24/1282	488/57561	0.000503921	0.01513083	Asa5G03859, Asa5G03868, Asa5G03871
GO:000808	Cellular_Component	origin recognition complex	3/1282	9/57561	0.000837326	0.02220836	

GO:0003677	Molecular_Function	DNA binding	98/1282	1877/57561	2.15708E-06	0.000604624	Asa0G04737, Asa0G05405, Asa1G00799, Asa1G01232, Asa1G01461, Asa1G01828, Asa1G01851, Asa1G01904, Asa1G02047, Asa1G02073, Asa1G02572, Asa1G04397, Asa1G04399, Asa1G04590, Asa1G04599, Asa2G00230, Asa2G00293, Asa2G00294, Asa2G00295, Asa2G00751, Asa2G01057, Asa2G01372, Asa2G02074, Asa2G02077, Asa2G03560, Asa2G03691, Asa2G05220, Asa2G05234, Asa2G06653, Asa2G06801, Asa2G07205, Asa3G00161, Asa3G00548, Asa3G00549, Asa3G01666, Asa3G02287, Asa3G04033, Asa4G00762, Asa4G01308, Asa4G02636, Asa4G02647, Asa4G02781, Asa4G02825, Asa4G03456, Asa4G04846, Asa4G05697, Asa4G06053, Asa5G00486, Asa5G01500, Asa5G01546, Asa5G02951, Asa5G03859, Asa5G03868, Asa5G03871, Asa5G03893, Asa5G04158, Asa5G04479, Asa5G05718, Asa6G00580, Asa6G00931, Asa6G01159, Asa6G01181, Asa6G01356, Asa6G01673, Asa6G01736, Asa6G02716, Asa6G03653, Asa6G04169, Asa6G04199, Asa6G05930, Asa6G05931, Asa7G00027, Asa7G00783, Asa7G01788, Asa7G01855, Asa7G02189, Asa7G02551, Asa7G02720, Asa7G04304, Asa7G04928, Asa7G05313, Asa7G05539, Asa7G05685, Asa7G05821, Asa7G06671, Asa7G07017, Asa7G07211, Asa8G00594, Asa8G02112, Asa8G02536, Asa8G02662, Asa8G04505, Asa8G05254, Asa3G04415, Asa3G04606, Asa4G00241, Asa4G01265, Asa4G01399, Asa6G06243, Asa7G00506, Asa7G00537, Asa7G04044, Asa7G06333, Asa8G02594, Asa8G05969
GO:0008017	Molecular_Function	microtubule binding	15/1282	155/57561	2.26335E-06	0.000604624	

GO:0005515	Molecular_Function	protein binding	144/1282	3156/57561	2.83818E-06	0.000604624	Asa0G01805, Asa0G03107, Asa0G04541, Asa0G04572, Asa0G04737, Asa0G04870, Asa0G05923, Asa1G00274, Asa1G03033, Asa1G03049, Asa1G03050, Asa1G03132, Asa1G04603, Asa2G00765, Asa2G00916, Asa2G00964, Asa2G01005, Asa2G01372, Asa2G01636, Asa2G02082, Asa2G02715, Asa2G02918, Asa2G03278, Asa2G03313, Asa2G03364, Asa2G03438, Asa2G03604, Asa2G03608, Asa2G04517, Asa2G04817, Asa2G05187, Asa2G05496, Asa2G05778, Asa2G06181, Asa2G06209, Asa2G06440, Asa2G06443, Asa2G06497, Asa2G06677, Asa2G06744, Asa2G07084, Asa3G00933, Asa3G01595, Asa3G01596, Asa3G01966, Asa3G02227, Asa3G02574, Asa3G02781, Asa3G03202, Asa3G03558, Asa3G04040, Asa3G04408, Asa3G04414, Asa3G04415, Asa3G04442, Asa3G04606, Asa3G04896, Asa4G00241, Asa4G00339, Asa4G00978, Asa4G00985, Asa4G01265, Asa4G01399, Asa4G01402, Asa4G01592, Asa4G01715, Asa4G01917, Asa4G02314, Asa4G02647, Asa4G02995, Asa4G03432, Asa4G03456, Asa4G03524, Asa4G03709, Asa4G04341, Asa4G04780, Asa4G04971, Asa4G05441, Asa5G00832, Asa5G00850, Asa5G00985, Asa5G00990, Asa5G01062, Asa5G01063, Asa5G01266, Asa5G01398, Asa5G01565, Asa5G01566, Asa5G01628, Asa5G01817, Asa5G02542, Asa5G02787, Asa5G02816, Asa5G03254, Asa5G03479, Asa5G03499, Asa5G04062, Asa6G00909, Asa6G01603, Asa6G02531, Asa6G02532, Asa6G03134, Asa6G04538, Asa6G06010, Asa6G06065, Asa6G06192, Asa6G06243, Asa6G06497, Asa7G00330, Asa7G00403, Asa7G00506, Asa7G00537, Asa7G01243, Asa7G01406,
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GO:0003676	Molecular_Function	nucleic acid binding	163/1282	3545/57561	4.08039E-06	0.000604624	Asa0G03146, Asa0G03318, Asa0G03321, Asa0G03363, Asa0G03896, Asa0G04230, Asa0G04737, Asa0G05107, Asa0G05405, Asa1G00085, Asa1G00799, Asa1G01232, Asa1G01461, Asa1G01828, Asa1G01851, Asa1G01904, Asa1G02047, Asa1G02073, Asa1G02572, Asa1G02789, Asa1G03687, Asa1G04397, Asa1G04399, Asa1G04570, Asa1G04590, Asa1G04599, Asa2G00230, Asa2G00293, Asa2G00294, Asa2G00295, Asa2G00751, Asa2G01057, Asa2G01372, Asa2G01603, Asa2G02074, Asa2G02077, Asa2G03123, Asa2G03140, Asa2G03371, Asa2G03438, Asa2G03560, Asa2G03691, Asa2G05078, Asa2G05220, Asa2G05234, Asa2G05798, Asa2G06174, Asa2G06440, Asa2G06653, Asa2G06801, Asa2G07205, Asa3G00155, Asa3G00161, Asa3G00548, Asa3G00549, Asa3G00952, Asa3G01666, Asa3G01975, Asa3G02134, Asa3G02249, Asa3G02287, Asa3G02574, Asa3G04033, Asa3G04442, Asa4G00762, Asa4G01308, Asa4G01865, Asa4G02122, Asa4G02636, Asa4G02647, Asa4G02781, Asa4G02825, Asa4G03329, Asa4G03456, Asa4G04015, Asa4G04588, Asa4G04846, Asa4G05084, Asa4G05585, Asa4G05606, Asa4G05697, Asa4G05916, Asa4G06053, Asa4G06129, Asa4G06437, Asa5G00486, Asa5G00546, Asa5G01004, Asa5G01500, Asa5G01546, Asa5G01862, Asa5G02468, Asa5G02884, Asa5G02951, Asa5G03804, Asa5G03859, Asa5G03868, Asa5G03871, Asa5G03893, Asa5G04158, Asa5G04416, Asa5G04479, Asa5G05210, Asa5G05396, Asa5G05718, Asa6G00311, Asa6G00382, Asa6G00580, Asa6G00931, Asa6G01159, Asa6G01181, Asa6G01356, Asa6G01673, Asa6G01736,
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GO:0005524	Molecular_Function	ATP binding	104/1282	2858/57561	4.67265E-06	0.000604624	Asa1G00085, Asa1G00099, Asa1G01502, Asa1G03337, Asa1G04570, Asa2G00765, Asa2G01603, Asa2G02621, Asa2G02622, Asa2G02715, Asa2G02716, Asa2G02886, Asa2G03313, Asa2G03364, Asa2G03608, Asa2G04103, Asa2G05409, Asa2G06714, Asa3G00161, Asa3G02050, Asa3G02227, Asa3G02287, Asa3G02574, Asa3G02955, Asa3G03551, Asa3G03857, Asa3G04033, Asa3G04606, Asa4G00241, Asa4G01265, Asa4G01308, Asa4G01399, Asa4G01592, Asa4G02122, Asa4G02413, Asa4G02781, Asa4G02866, Asa4G03885, Asa4G04971, Asa4G05584, Asa4G05761, Asa4G06129, Asa5G01398, Asa5G02091, Asa5G02780, Asa5G03499, Asa5G03804, Asa5G04062, Asa5G05210, Asa5G05475, Asa6G00241, Asa6G00665, Asa6G01736, Asa6G01791, Asa6G02200, Asa6G02220, Asa6G02280, Asa6G02281, Asa6G02282, Asa6G02510, Asa6G02632, Asa6G03850, Asa6G05384, Asa6G05931, Asa6G06172, Asa6G06243, Asa7G00231, Asa7G00251, Asa7G00380, Asa7G00537, Asa7G01406, Asa7G01454, Asa7G02005, Asa7G02071, Asa7G02455, Asa7G02551, Asa7G02793, Asa7G03940, Asa7G04963, Asa7G05497, Asa7G06333, Asa7G06642, Asa7G06671, Asa7G06956, Asa7G07273, Asa8G00277, Asa8G00409, Asa8G00457, Asa8G01220, Asa8G02594, Asa8G02662, Asa8G03592, Asa8G03922, Asa8G04206, Asa8G04852, Asa8G04901, Asa8G05285, Asa8G05472, Asa8G05897,
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GO:0097159	Molecular_Function	organic cyclic compound binding	288/1282	7920/57561	5.13201E-06	0.000604624	Asa0G00239, Asa0G01949, Asa0G02421, Asa0G02564, Asa0G03146, Asa0G03318, Asa0G03321, Asa0G03345, Asa0G03363, Asa0G03535, Asa0G03896, Asa0G04230, Asa0G04737, Asa0G04963, Asa0G04964, Asa0G05107, Asa0G05405, Asa1G00085, Asa1G00099, Asa1G00253, Asa1G00799, Asa1G00958, Asa1G01232, Asa1G01373, Asa1G01461, Asa1G01502, Asa1G01828, Asa1G01851, Asa1G01904, Asa1G02047, Asa1G02073, Asa1G02092, Asa1G02572, Asa1G02789, Asa1G02945, Asa1G03337, Asa1G03687, Asa1G04397, Asa1G04399, Asa1G04570, Asa1G04590, Asa1G04599, Asa2G00017, Asa2G00230, Asa2G00293, Asa2G00294, Asa2G00295, Asa2G00751, Asa2G00765, Asa2G01057, Asa2G01244, Asa2G01372, Asa2G01603, Asa2G02074, Asa2G02077, Asa2G02621, Asa2G02622, Asa2G02715, Asa2G02716, Asa2G02798, Asa2G02799, Asa2G02806, Asa2G02886, Asa2G03046, Asa2G03123, Asa2G03140, Asa2G03313, Asa2G03364, Asa2G03371, Asa2G03438, Asa2G03560, Asa2G03608, Asa2G03691, Asa2G04103, Asa2G05078, Asa2G05220, Asa2G05234, Asa2G05337, Asa2G05409, Asa2G05798, Asa2G06174, Asa2G06440, Asa2G06653, Asa2G06683, Asa2G06687, Asa2G06714, Asa2G06801, Asa2G06982, Asa2G07067, Asa2G07205, Asa3G00155, Asa3G00161, Asa3G00548, Asa3G00549, Asa3G00952, Asa3G01593, Asa3G01666, Asa3G01975, Asa3G02050, Asa3G02134, Asa3G02227, Asa3G02249, Asa3G02258, Asa3G02287, Asa3G02574, Asa3G02955, Asa3G03551, Asa3G03857, Asa3G04033, Asa3G04155, Asa3G04442, Asa3G04606, Asa3G04675, Asa4G00241,
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GO:1901363	Molecular_Function	heterocyclic compound binding	288/1282	7920/57561	5.13201E-06	0.000604624	Asa0G00239, Asa0G01949, Asa0G02421, Asa0G02564, Asa0G03146, Asa0G03318, Asa0G03321, Asa0G03345, Asa0G03363, Asa0G03535, Asa0G03896, Asa0G04230, Asa0G04737, Asa0G04963, Asa0G04964, Asa0G05107, Asa0G05405, Asa1G00085, Asa1G00099, Asa1G00253, Asa1G00799, Asa1G00958, Asa1G01232, Asa1G01373, Asa1G01461, Asa1G01502, Asa1G01828, Asa1G01851, Asa1G01904, Asa1G02047, Asa1G02073, Asa1G02092, Asa1G02572, Asa1G02789, Asa1G02945, Asa1G03337, Asa1G03687, Asa1G04397, Asa1G04399, Asa1G04570, Asa1G04590, Asa1G04599, Asa2G00017, Asa2G00230, Asa2G00293, Asa2G00294, Asa2G00295, Asa2G00751, Asa2G00765, Asa2G01057, Asa2G01244, Asa2G01372, Asa2G01603, Asa2G02074, Asa2G02077, Asa2G02621, Asa2G02622, Asa2G02715, Asa2G02716, Asa2G02798, Asa2G02799, Asa2G02806, Asa2G02886, Asa2G03046, Asa2G03123, Asa2G03140, Asa2G03313, Asa2G03364, Asa2G03371, Asa2G03438, Asa2G03560, Asa2G03608, Asa2G03691, Asa2G04103, Asa2G05078, Asa2G05220, Asa2G05234, Asa2G05337, Asa2G05409, Asa2G05798, Asa2G06174, Asa2G06440, Asa2G06653, Asa2G06683, Asa2G06687, Asa2G06714, Asa2G06801, Asa2G06982, Asa2G07067, Asa2G07205, Asa3G00155, Asa3G00161, Asa3G00548, Asa3G00549, Asa3G00952, Asa3G01593, Asa3G01666, Asa3G01975, Asa3G02050, Asa3G02134, Asa3G02227, Asa3G02249, Asa3G02258, Asa3G02287, Asa3G02574, Asa3G02955, Asa3G03551, Asa3G03857, Asa3G04033, Asa3G04155, Asa3G04442, Asa3G04606, Asa3G04675, Asa4G00241,
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GO:0032559	Molecular_Function	adenyl ribonucleotide binding	106/1282	2961/57561	5.13319E-06	0.000604624	Asa1G00085, Asa1G00099, Asa1G01502, Asa1G03337, Asa1G04570, Asa2G00017, Asa2G00765, Asa2G01603, Asa2G02621, Asa2G02622, Asa2G02715, Asa2G02716, Asa2G02886, Asa2G03313, Asa2G03364, Asa2G03608, Asa2G04103, Asa2G05409, Asa2G06714, Asa3G00161, Asa3G02050, Asa3G02227, Asa3G02287, Asa3G02574, Asa3G02955, Asa3G03551, Asa3G03857, Asa3G04033, Asa3G04606, Asa4G00241, Asa4G01265, Asa4G01308, Asa4G01399, Asa4G01592, Asa4G02122, Asa4G02413, Asa4G02781, Asa4G02866, Asa4G03885, Asa4G04971, Asa4G05584, Asa4G05761, Asa4G06129, Asa5G01398, Asa5G02091, Asa5G02780, Asa5G03499, Asa5G03804, Asa5G04062, Asa5G05210, Asa5G05475, Asa6G00241, Asa6G00665, Asa6G01736, Asa6G01791, Asa6G02200, Asa6G02220, Asa6G02280, Asa6G02281, Asa6G02282, Asa6G02510, Asa6G02632, Asa6G03850, Asa6G05384, Asa6G05931, Asa6G06172, Asa6G06243, Asa7G00231, Asa7G00251, Asa7G00380, Asa7G00537, Asa7G01406, Asa7G01454, Asa7G02005, Asa7G02071, Asa7G02455, Asa7G02551, Asa7G02793, Asa7G03940, Asa7G04963, Asa7G05497, Asa7G06333, Asa7G06642, Asa7G06671, Asa7G06956, Asa7G07273, Asa8G00277, Asa8G00409, Asa8G00457, Asa8G01220, Asa8G02594, Asa8G02662, Asa8G03592, Asa8G03922, Asa8G04188, Asa8G04206, Asa8G04852, Asa8G04901, Asa8G05285, Asa8G05472, Asa8G05897, Asa8G05969,
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GO:0030554	Molecular_Function	adenyl nucleotide binding	106/1282	2981/57561	5.27662E-06	0.000604624	Asa1G00085, Asa1G00099, Asa1G01502, Asa1G03337, Asa1G04570, Asa2G00017, Asa2G00765, Asa2G01603, Asa2G02621, Asa2G02622, Asa2G02715, Asa2G02716, Asa2G02886, Asa2G03313, Asa2G03364, Asa2G03608, Asa2G04103, Asa2G05409, Asa2G06714, Asa3G00161, Asa3G02050, Asa3G02227, Asa3G02287, Asa3G02574, Asa3G02955, Asa3G03551, Asa3G03857, Asa3G04033, Asa3G04606, Asa4G00241, Asa4G01265, Asa4G01308, Asa4G01399, Asa4G01592, Asa4G02122, Asa4G02413, Asa4G02781, Asa4G02866, Asa4G03885, Asa4G04971, Asa4G05584, Asa4G05761, Asa4G06129, Asa5G01398, Asa5G02091, Asa5G02780, Asa5G03499, Asa5G03804, Asa5G04062, Asa5G05210, Asa5G05475, Asa6G00241, Asa6G00665, Asa6G01736, Asa6G01791, Asa6G02200, Asa6G02220, Asa6G02280, Asa6G02281, Asa6G02282, Asa6G02510, Asa6G02632, Asa6G03850, Asa6G05384, Asa6G05931, Asa6G06172, Asa6G06243, Asa7G00231, Asa7G00251, Asa7G00380, Asa7G00537, Asa7G01406, Asa7G01454, Asa7G02005, Asa7G02071, Asa7G02455, Asa7G02551, Asa7G02793, Asa7G03940, Asa7G04963, Asa7G05497, Asa7G06333, Asa7G06642, Asa7G06671, Asa7G06956, Asa7G07273, Asa8G00277, Asa8G00409, Asa8G00457, Asa8G01220, Asa8G02594, Asa8G02662, Asa8G03592, Asa8G03922, Asa8G04188, Asa8G04206, Asa8G04852, Asa8G04901, Asa8G05285, Asa8G05472, Asa8G05897, Asa8G05969,
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GO:0036094	Molecular_Function	small molecule binding	133/1282	3942/57561	5.38401E-06	0.000604624	Asa0G01949, Asa0G02421, Asa0G02564, Asa0G03345, Asa0G03535, Asa0G04963, Asa0G04964, Asa1G00085, Asa1G00099, Asa1G01373, Asa1G01502, Asa1G02092, Asa1G02572, Asa1G02945, Asa1G03337, Asa1G04570, Asa2G00017, Asa2G00765, Asa2G01244, Asa2G01603, Asa2G02621, Asa2G02622, Asa2G02715, Asa2G02716, Asa2G02832, Asa2G02886, Asa2G03046, Asa2G03313, Asa2G03364, Asa2G03608, Asa2G04103, Asa2G05234, Asa2G05409, Asa2G06683, Asa2G06687, Asa2G06714, Asa2G07067, Asa3G00161, Asa3G02050, Asa3G02227, Asa3G02287, Asa3G02574, Asa3G02955, Asa3G03551, Asa3G03857, Asa3G04033, Asa3G04155, Asa3G04606, Asa4G00241, Asa4G01265, Asa4G01308, Asa4G01399, Asa4G01592, Asa4G02122, Asa4G02413, Asa4G02781, Asa4G02866, Asa4G03885, Asa4G04196, Asa4G04605, Asa4G04971, Asa4G05584, Asa4G05761, Asa4G06129, Asa5G01398, Asa5G01517, Asa5G01772, Asa5G02091, Asa5G02780, Asa5G03499, Asa5G03804, Asa5G04062, Asa5G05210, Asa5G05475, Asa6G00241, Asa6G00665, Asa6G00972, Asa6G01736, Asa6G01791, Asa6G02200, Asa6G02220, Asa6G02280, Asa6G02281, Asa6G02282, Asa6G02510, Asa6G02632, Asa6G03520, Asa6G03850, Asa6G03911, Asa6G04017, Asa6G05384, Asa6G05931, Asa6G06172, Asa6G06243, Asa7G00231, Asa7G00251, Asa7G00380, Asa7G00537, Asa7G01406, Asa7G01454, Asa7G02005, Asa7G02071, Asa7G02455, Asa7G02551, Asa7G02793, Asa7G02799, Asa7G03940, Asa7G04963, Asa7G05497, Asa7G06333, Asa7G06642, Asa7G06671, Asa7G06956, Asa7G07105,
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GO:0005488	Molecular_Function	binding	424/1282	12263/57561	6.02061E-06	0.000614649	Asa0G00239, Asa0G01801, Asa0G01805, Asa0G01949, Asa0G02421, Asa0G02564, Asa0G02908, Asa0G03107, Asa0G03146, Asa0G03318, Asa0G03321, Asa0G03345, Asa0G03363, Asa0G03535, Asa0G03896, Asa0G04230, Asa0G04541, Asa0G04572, Asa0G04737, Asa0G04870, Asa0G04963, Asa0G04964, Asa0G05107, Asa0G05405, Asa0G05531, Asa0G05923, Asa1G00085, Asa1G00099, Asa1G00253, Asa1G00274, Asa1G00799, Asa1G00958, Asa1G01065, Asa1G01232, Asa1G01373, Asa1G01461, Asa1G01502, Asa1G01828, Asa1G01851, Asa1G01904, Asa1G02047, Asa1G02073, Asa1G02092, Asa1G02572, Asa1G02789, Asa1G02945, Asa1G03033, Asa1G03049, Asa1G03050, Asa1G03132, Asa1G03337, Asa1G03687, Asa1G04397, Asa1G04399, Asa1G04570, Asa1G04590, Asa1G04599, Asa1G04603, Asa2G00017, Asa2G00230, Asa2G00293, Asa2G00294, Asa2G00295, Asa2G00751, Asa2G00765, Asa2G00916, Asa2G00964, Asa2G01005, Asa2G01057, Asa2G01244, Asa2G01372, Asa2G01603, Asa2G01636, Asa2G02074, Asa2G02077, Asa2G02082, Asa2G02621, Asa2G02622, Asa2G02715, Asa2G02716, Asa2G02798, Asa2G02799, Asa2G02806, Asa2G02832, Asa2G02886, Asa2G02918, Asa2G03046, Asa2G03123, Asa2G03140, Asa2G03269, Asa2G03278, Asa2G03313, Asa2G03364, Asa2G03371, Asa2G03438, Asa2G03560, Asa2G03604, Asa2G03608, Asa2G03691, Asa2G04103, Asa2G04517, Asa2G04805, Asa2G04806, Asa2G04817, Asa2G05078, Asa2G05187, Asa2G05220, Asa2G05234, Asa2G05337, Asa2G05409, Asa2G05496, Asa2G05778, Asa2G05798, Asa2G06174,
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GO:0003674	Molecular_Function	molecular_function	625/1282	22741/57561	7.35058E-06	0.00061963	Asa0G00239, Asa0G00527, Asa0G00595, Asa0G00994, Asa0G01197, Asa0G01649, Asa0G01801, Asa0G01805, Asa0G01949, Asa0G02421, Asa0G02564, Asa0G02908, Asa0G03072, Asa0G03107, Asa0G03146, Asa0G03209, Asa0G03318, Asa0G03321, Asa0G03345, Asa0G03363, Asa0G03472, Asa0G03481, Asa0G03535, Asa0G03862, Asa0G03896, Asa0G04230, Asa0G04495, Asa0G04496, Asa0G04541, Asa0G04572, Asa0G04667, Asa0G04737, Asa0G04870, Asa0G04940, Asa0G04963, Asa0G04964, Asa0G05107, Asa0G05136, Asa0G05405, Asa0G05412, Asa0G05416, Asa0G05531, Asa0G05923, Asa1G00085, Asa1G00099, Asa1G00124, Asa1G00249, Asa1G00253, Asa1G00274, Asa1G00799, Asa1G00958, Asa1G01065, Asa1G01232, Asa1G01373, Asa1G01461, Asa1G01502, Asa1G01828, Asa1G01851, Asa1G01904, Asa1G02047, Asa1G02073, Asa1G02092, Asa1G02393, Asa1G02572, Asa1G02738, Asa1G02789, Asa1G02945, Asa1G03033, Asa1G03049, Asa1G03050, Asa1G03132, Asa1G03337, Asa1G03687, Asa1G04136, Asa1G04137, Asa1G04138, Asa1G04196, Asa1G04264, Asa1G04323, Asa1G04339, Asa1G04397, Asa1G04399, Asa1G04570, Asa1G04590, Asa1G04599, Asa1G04603, Asa2G00017, Asa2G00230, Asa2G00293, Asa2G00294, Asa2G00295, Asa2G00751, Asa2G00765, Asa2G00916, Asa2G00964, Asa2G01005, Asa2G01057, Asa2G01106, Asa2G01244, Asa2G01372, Asa2G01603, Asa2G01636, Asa2G02074, Asa2G02077, Asa2G02082, Asa2G02116, Asa2G02621, Asa2G02622, Asa2G02715, Asa2G02716, Asa2G02798, Asa2G02799, Asa2G02806, Asa2G02832,
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GO:0035639	Molecular_Function	purine ribonucleoside triphosphate binding	111/1282	3199/57561	8.08922E-06	0.00061963	Asa0G01949, Asa0G02421, Asa0G02564, Asa1G00085, Asa1G00099, Asa1G01502, Asa1G03337, Asa1G04570, Asa2G00765, Asa2G01603, Asa2G02621, Asa2G02622, Asa2G02715, Asa2G02716, Asa2G02886, Asa2G03046, Asa2G03313, Asa2G03364, Asa2G03608, Asa2G04103, Asa2G05409, Asa2G06683, Asa2G06687, Asa2G06714, Asa3G00161, Asa3G02050, Asa3G02227, Asa3G02287, Asa3G02574, Asa3G02955, Asa3G03551, Asa3G03857, Asa3G04033, Asa3G04606, Asa4G00241, Asa4G01265, Asa4G01308, Asa4G01399, Asa4G01592, Asa4G02122, Asa4G02413, Asa4G02781, Asa4G02866, Asa4G03885, Asa4G04605, Asa4G04971, Asa4G05584, Asa4G05761, Asa4G06129, Asa5G01398, Asa5G02091, Asa5G02780, Asa5G03499, Asa5G03804, Asa5G04062, Asa5G05210, Asa5G05475, Asa6G00241, Asa6G00665, Asa6G01736, Asa6G01791, Asa6G02200, Asa6G02220, Asa6G02280, Asa6G02281, Asa6G02282, Asa6G02510, Asa6G02632, Asa6G03520, Asa6G03850, Asa6G03911, Asa6G05384, Asa6G05931, Asa6G06172, Asa6G06243, Asa7G00231, Asa7G00251, Asa7G00380, Asa7G00537, Asa7G01406, Asa7G01454, Asa7G02005, Asa7G02071, Asa7G02455, Asa7G02551, Asa7G02793, Asa7G03940, Asa7G04963, Asa7G05497, Asa7G06333, Asa7G06642, Asa7G06671, Asa7G06956, Asa7G07105, Asa7G07273, Asa8G00277, Asa8G00409, Asa8G00457, Asa8G01220, Asa8G02594, Asa8G02662, Asa8G03592, Asa8G03922, Asa8G04206, Asa8G04852, Asa0G03345, Asa0G04963, Asa0G04964, Asa7G02799
GO:0019825	Molecular_Function	oxygen binding	4/1282	7/57561	8.12426E-06	0.00061963	

GO:0032555	Molecular_Function	purine ribonucleotide binding	113/1282	3302/57561	8.27776E-06	0.00061963	Asa0G01949, Asa0G02421, Asa0G02564, Asa1G00085, Asa1G00099, Asa1G01502, Asa1G03337, Asa1G04570, Asa2G00017, Asa2G00765, Asa2G01603, Asa2G02621, Asa2G02622, Asa2G02715, Asa2G02716, Asa2G02886, Asa2G03046, Asa2G03313, Asa2G03364, Asa2G03608, Asa2G04103, Asa2G05409, Asa2G06683, Asa2G06687, Asa2G06714, Asa3G00161, Asa3G02050, Asa3G02227, Asa3G02287, Asa3G02574, Asa3G02955, Asa3G03551, Asa3G03857, Asa3G04033, Asa3G04606, Asa4G00241, Asa4G01265, Asa4G01308, Asa4G01399, Asa4G01592, Asa4G02122, Asa4G02413, Asa4G02781, Asa4G02866, Asa4G03885, Asa4G04605, Asa4G04971, Asa4G05584, Asa4G05761, Asa4G06129, Asa5G01398, Asa5G02091, Asa5G02780, Asa5G03499, Asa5G03804, Asa5G04062, Asa5G05210, Asa5G05475, Asa6G00241, Asa6G00665, Asa6G01736, Asa6G01791, Asa6G02200, Asa6G02220, Asa6G02280, Asa6G02281, Asa6G02282, Asa6G02510, Asa6G02632, Asa6G03520, Asa6G03850, Asa6G03911, Asa6G05384, Asa6G05931, Asa6G06172, Asa6G06243, Asa7G00231, Asa7G00251, Asa7G00380, Asa7G00537, Asa7G01406, Asa7G01454, Asa7G02005, Asa7G02071, Asa7G02455, Asa7G02551, Asa7G02793, Asa7G03940, Asa7G04963, Asa7G05497, Asa7G06333, Asa7G06642, Asa7G06671, Asa7G06956, Asa7G07105, Asa7G07273, Asa8G00277, Asa8G00409, Asa8G00457, Asa8G01220, Asa8G02594, Asa8G02662, Asa8G03592, Asa8G03922, Asa8G04188, Asa8G04206, Asa8G04852, Asa8G04901, Asa3G02221, Asa3G04408, Asa3G04414, Asa3G04415, Asa3G04606, Asa4G00241, Asa4G01265, Asa4G01399, Asa6G06243, Asa7G00506, Asa7G00537, Asa7G04044, Asa7G06333, Asa8G02594, Asa8G05969
GO:0015631	Molecular_Function	tubulin binding	15/1282	174/57561	9.37998E-06	0.00061963	

GO:1901265	Molecular_Function	nucleoside phosphate binding	124/1282	3694/57561	1.07805E-05	0.000637184	Asa0G01949, Asa0G02421, Asa0G02564, Asa0G03535, Asa1G00085, Asa1G00099, Asa1G01373, Asa1G01502, Asa1G02092, Asa1G02572, Asa1G02945, Asa1G03337, Asa1G04570, Asa2G00017, Asa2G00765, Asa2G01244, Asa2G01603, Asa2G02621, Asa2G02622, Asa2G02715, Asa2G02716, Asa2G02886, Asa2G03046, Asa2G03313, Asa2G03364, Asa2G03608, Asa2G04103, Asa2G05234, Asa2G05409, Asa2G06683, Asa2G06687, Asa2G06714, Asa2G07067, Asa3G00161, Asa3G02050, Asa3G02227, Asa3G02287, Asa3G02574, Asa3G02955, Asa3G03551, Asa3G03857, Asa3G04033, Asa3G04606, Asa4G00241, Asa4G01265, Asa4G01308, Asa4G01399, Asa4G01592, Asa4G02122, Asa4G02413, Asa4G02781, Asa4G02866, Asa4G03885, Asa4G04196, Asa4G04605, Asa4G04971, Asa4G05584, Asa4G05761, Asa4G06129, Asa5G01398, Asa5G01517, Asa5G01772, Asa5G02091, Asa5G02780, Asa5G03499, Asa5G03804, Asa5G04062, Asa5G05210, Asa5G05475, Asa6G00241, Asa6G00665, Asa6G01736, Asa6G01791, Asa6G02200, Asa6G02220, Asa6G02280, Asa6G02281, Asa6G02282, Asa6G02510, Asa6G02632, Asa6G03520, Asa6G03850, Asa6G03911, Asa6G05384, Asa6G05931, Asa6G06172, Asa6G06243, Asa7G00231, Asa7G00251, Asa7G00380, Asa7G00537, Asa7G01406, Asa7G01454, Asa7G02005, Asa7G02071, Asa7G02455, Asa7G02551, Asa7G02793, Asa7G03940, Asa7G04963, Asa7G05497, Asa7G06333, Asa7G06642, Asa7G06671, Asa7G06956, Asa7G07105, Asa7G07273, Asa8G00277, Asa8G00409, Asa8G00457, Asa8G01220, Asa8G02594, Asa8G02662, Asa8G03592,
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GO:0000166 Molecular\_Function nucleotide binding

124/1282

3694/57561

1.07805E-05

0.000637184

Asa0G01949, Asa0G02421, Asa0G02564,  
Asa0G03535, Asa1G00085, Asa1G00099,  
Asa1G01373, Asa1G01502, Asa1G02092,  
Asa1G02572, Asa1G02945, Asa1G03337,  
Asa1G04570, Asa2G00017, Asa2G00765,  
Asa2G01244, Asa2G01603, Asa2G02621,  
Asa2G02622, Asa2G02715, Asa2G02716,  
Asa2G02886, Asa2G03046, Asa2G03313,  
Asa2G03364, Asa2G03608, Asa2G04103,  
Asa2G05234, Asa2G05409, Asa2G06683,  
Asa2G06687, Asa2G06714, Asa2G07067,  
Asa3G00161, Asa3G02050, Asa3G02227,  
Asa3G02287, Asa3G02574, Asa3G02955,  
Asa3G03551, Asa3G03857, Asa3G04033,  
Asa3G04606, Asa4G00241, Asa4G01265,  
Asa4G01308, Asa4G01399, Asa4G01592,  
Asa4G02122, Asa4G02413, Asa4G02781,  
Asa4G02866, Asa4G03885, Asa4G04196,  
Asa4G04605, Asa4G04971, Asa4G05584,  
Asa4G05761, Asa4G06129, Asa5G01398,  
Asa5G01517, Asa5G01772, Asa5G02091,  
Asa5G02780, Asa5G03499, Asa5G03804,  
Asa5G04062, Asa5G05210, Asa5G05475,  
Asa6G00241, Asa6G00665, Asa6G01736,  
Asa6G01791, Asa6G02200, Asa6G02220,  
Asa6G02280, Asa6G02281, Asa6G02282,  
Asa6G02510, Asa6G02632, Asa6G03520,  
Asa6G03850, Asa6G03911, Asa6G05384,  
Asa6G05931, Asa6G06172, Asa6G06243,  
Asa7G00231, Asa7G00251, Asa7G00380,  
Asa7G00537, Asa7G01406, Asa7G01454,  
Asa7G02005, Asa7G02071, Asa7G02455,  
Asa7G02551, Asa7G02793, Asa7G03940,  
Asa7G04963, Asa7G05497, Asa7G06333,  
Asa7G06642, Asa7G06671, Asa7G06956,  
Asa7G07105, Asa7G07273, Asa8G00277,  
Asa8G00409, Asa8G00457, Asa8G01220,  
Asa8G02594, Asa8G02662, Asa8G03592,

GO:0017076	Molecular_Function	purine nucleotide binding	113/1282	3326/57561	1.18363E-05	0.000664607	Asa0G01949, Asa0G02421, Asa0G02564, Asa1G00085, Asa1G00099, Asa1G01502, Asa1G03337, Asa1G04570, Asa2G00017, Asa2G00765, Asa2G01603, Asa2G02621, Asa2G02622, Asa2G02715, Asa2G02716, Asa2G02886, Asa2G03046, Asa2G03313, Asa2G03364, Asa2G03608, Asa2G04103, Asa2G05409, Asa2G06683, Asa2G06687, Asa2G06714, Asa3G00161, Asa3G02050, Asa3G02227, Asa3G02287, Asa3G02574, Asa3G02955, Asa3G03551, Asa3G03857, Asa3G04033, Asa3G04606, Asa4G00241, Asa4G01265, Asa4G01308, Asa4G01399, Asa4G01592, Asa4G02122, Asa4G02413, Asa4G02781, Asa4G02866, Asa4G03885, Asa4G04605, Asa4G04971, Asa4G05584, Asa4G05761, Asa4G06129, Asa5G01398, Asa5G02091, Asa5G02780, Asa5G03499, Asa5G03804, Asa5G04062, Asa5G05210, Asa5G05475, Asa6G00241, Asa6G00665, Asa6G01736, Asa6G01791, Asa6G02200, Asa6G02220, Asa6G02280, Asa6G02281, Asa6G02282, Asa6G02510, Asa6G02632, Asa6G03520, Asa6G03850, Asa6G03911, Asa6G05384, Asa6G05931, Asa6G06172, Asa6G06243, Asa7G00231, Asa7G00251, Asa7G00380, Asa7G00537, Asa7G01406, Asa7G01454, Asa7G02005, Asa7G02071, Asa7G02455, Asa7G02551, Asa7G02793, Asa7G03940, Asa7G04963, Asa7G05497, Asa7G06333, Asa7G06642, Asa7G06671, Asa7G06956, Asa7G07105, Asa7G07273, Asa8G00277, Asa8G00409, Asa8G00457, Asa8G01220, Asa8G02594, Asa8G02662, Asa8G03592, Asa8G03922, Asa8G04188, Asa8G04206, Asa8G04852, Asa8G04901,
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GO:0043168      Molecular\_Function      anion binding

126/1282

3828/57561

1.50956E-05

0.000807254

Asa0G01949, Asa0G02421, Asa0G02564,  
Asa0G03535, Asa1G00085, Asa1G00099,  
Asa1G01373, Asa1G01502, Asa1G02092,  
Asa1G02945, Asa1G03337, Asa1G04570,  
Asa2G00017, Asa2G00765, Asa2G01603,  
Asa2G02621, Asa2G02622, Asa2G02715,  
Asa2G02716, Asa2G02832, Asa2G02886,  
Asa2G03046, Asa2G03313, Asa2G03364,  
Asa2G03608, Asa2G04103, Asa2G05409,  
Asa2G06683, Asa2G06687, Asa2G06714,  
Asa2G07067, Asa3G00161, Asa3G02050,  
Asa3G02227, Asa3G02287, Asa3G02574,  
Asa3G02955, Asa3G03551, Asa3G03857,  
Asa3G04033, Asa3G04155, Asa3G04606,  
Asa4G00241, Asa4G01265, Asa4G01308,  
Asa4G01399, Asa4G01592, Asa4G02122,  
Asa4G02413, Asa4G02781, Asa4G02866,  
Asa4G03885, Asa4G04196, Asa4G04605,  
Asa4G04971, Asa4G05584, Asa4G05761,  
Asa4G06129, Asa5G01398, Asa5G01772,  
Asa5G02091, Asa5G02780, Asa5G03499,  
Asa5G03804, Asa5G04062, Asa5G05210,  
Asa5G05475, Asa6G00241, Asa6G00665,  
Asa6G00972, Asa6G01736, Asa6G01791,  
Asa6G02200, Asa6G02220, Asa6G02280,  
Asa6G02281, Asa6G02282, Asa6G02510,  
Asa6G02632, Asa6G03520, Asa6G03850,  
Asa6G03911, Asa6G04017, Asa6G05384,  
Asa6G05931, Asa6G06172, Asa6G06243,  
Asa7G00231, Asa7G00251, Asa7G00380,  
Asa7G00537, Asa7G01406, Asa7G01454,  
Asa7G02005, Asa7G02071, Asa7G02455,  
Asa7G02551, Asa7G02793, Asa7G03940,  
Asa7G04963, Asa7G05497, Asa7G05624,  
Asa7G06333, Asa7G06642, Asa7G06671,  
Asa7G06956, Asa7G07105, Asa7G07273,  
Asa8G00277, Asa8G00409, Asa8G00457,  
Asa8G01220, Asa8G02594, Asa8G02662,

GO:0032553	Molecular_Function	ribonucleotide binding	113/1282	3349/57561	1.67713E-05	0.0008561	Asa0G01949, Asa0G02421, Asa0G02564, Asa1G00085, Asa1G00099, Asa1G01502, Asa1G03337, Asa1G04570, Asa2G00017, Asa2G00765, Asa2G01603, Asa2G02621, Asa2G02622, Asa2G02715, Asa2G02716, Asa2G02886, Asa2G03046, Asa2G03313, Asa2G03364, Asa2G03608, Asa2G04103, Asa2G05409, Asa2G06683, Asa2G06687, Asa2G06714, Asa3G00161, Asa3G02050, Asa3G02227, Asa3G02287, Asa3G02574, Asa3G02955, Asa3G03551, Asa3G03857, Asa3G04033, Asa3G04606, Asa4G00241, Asa4G01265, Asa4G01308, Asa4G01399, Asa4G01592, Asa4G02122, Asa4G02413, Asa4G02781, Asa4G02866, Asa4G03885, Asa4G04605, Asa4G04971, Asa4G05584, Asa4G05761, Asa4G06129, Asa5G01398, Asa5G02091, Asa5G02780, Asa5G03499, Asa5G03804, Asa5G04062, Asa5G05210, Asa5G05475, Asa6G00241, Asa6G00665, Asa6G01736, Asa6G01791, Asa6G02200, Asa6G02220, Asa6G02280, Asa6G02281, Asa6G02282, Asa6G02510, Asa6G02632, Asa6G03520, Asa6G03850, Asa6G03911, Asa6G05384, Asa6G05931, Asa6G06172, Asa6G06243, Asa7G00231, Asa7G00251, Asa7G00380, Asa7G00537, Asa7G01406, Asa7G01454, Asa7G02005, Asa7G02071, Asa7G02455, Asa7G02551, Asa7G02793, Asa7G03940, Asa7G04963, Asa7G05497, Asa7G06333, Asa7G06642, Asa7G06671, Asa7G06956, Asa7G07105, Asa7G07273, Asa8G00277, Asa8G00409, Asa8G00457, Asa8G01220, Asa8G02594, Asa8G02662, Asa8G03592, Asa8G03922, Asa8G04188, Asa8G04206, Asa8G04852, Asa8G04901,
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GO:0043167	Molecular_Function	ion binding	179/1282	6061/57561	0.000106876	0.004616224	
GO:0003777	Molecular_Function	microtubule motor activity	10/1282	105/57561	0.000123644	0.005142674	
GO:0140097	Molecular_Function	catalytic activity, acting on DNA	12/1282	156/57561	0.000211075	0.008465625	

GO:0003723	Molecular_Function	RNA binding	32/1282	726/57561	0.000316827	0.012144307	Asa2G03140, Asa2G03438, Asa2G05078, Asa2G05798, Asa3G00155, Asa3G00952, Asa3G02134, Asa3G02249, Asa3G04442, Asa4G03329, Asa4G04588, Asa4G05084, Asa4G05585, Asa4G05606, Asa4G06437, Asa5G01004, Asa5G04416, Asa6G00311, Asa7G00027, Asa7G00744, Asa7G04063, Asa7G05876, Asa7G06325, Asa7G06821, Asa8G03193, Asa8G03310, Asa8G04591, Asa8G05316, Asa8G05327
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							Asa0G00595, Asa0G01949, Asa0G02564, Asa0G02908, Asa0G03072, Asa0G03472, Asa0G03862, Asa0G04940, Asa0G05107, Asa0G05136, Asa1G00099, Asa1G00124, Asa1G01502, Asa1G02572, Asa2G00765, Asa2G02082, Asa2G02116, Asa2G02621, Asa2G02622, Asa2G02715, Asa2G02716, Asa2G02886, Asa2G02910, Asa2G02918, Asa2G03065, Asa2G03608, Asa2G03630, Asa2G03631, Asa2G04103, Asa2G04257, Asa2G04805, Asa2G04806, Asa2G05234, Asa2G05301, Asa2G05409, Asa2G06281, Asa2G06455, Asa2G06961, Asa2G07433, Asa3G00952, Asa3G00985, Asa3G01193, Asa3G02050, Asa3G02152, Asa3G02462, Asa3G02781, Asa3G03426, Asa3G03551, Asa3G03857, Asa3G04601, Asa3G04896, Asa4G00245, Asa4G00286, Asa4G00495, Asa4G00963, Asa4G01592, Asa4G02636, Asa4G02825, Asa4G02866, Asa4G02983, Asa4G03232, Asa4G03357, Asa4G03389, Asa4G03524, Asa4G03709, Asa4G04766, Asa4G05084, Asa4G05761, Asa4G05947, Asa5G00025, Asa5G00305, Asa5G00698, Asa5G00985, Asa5G00990, Asa5G01398, Asa5G02091, Asa5G02780, Asa5G02793, Asa5G03254, Asa5G03499, Asa5G03751, Asa5G03879, Asa5G03885, Asa5G04062, Asa6G00037, Asa6G00060, Asa6G00435, Asa6G00580, Asa6G00665, Asa6G00827, Asa6G01791, Asa6G02200, Asa6G02220, Asa6G03134, Asa6G04169, Asa6G04940, Asa7G00231, Asa7G00251, Asa7G00380, Asa7G00493, Asa7G00925, Asa7G01215, Asa7G01216, Asa7G01406, Asa7G01407, Asa7G01454, Asa7G02071, Asa7G02455, Asa7G02793, Asa7G04099, Asa7G04348, Asa7G04963, Asa7G06597, Asa7G06821,
GO:0016740	Molecular_Function	transferase activity oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of	128/1282	4195/57561	0.000324425	0.012144307	Asa0G04667, Asa0G04870, Asa3G00251, Asa3G03563, Asa5G01565, Asa5G01566,
GO:0016702	Molecular_Function	two atoms of oxygen	8/1282	78/57561	0.000350022	0.012283599	Asa5G03630, Asa5G03631 AsaUG04667, AsaUG04870, Asa3G00251, Asa3G03563, Asa5G01565, Asa5G01566,
GO:0051213	Molecular_Function	dioxygenase activity	8/1282	78/57561	0.000350022	0.012283599	Asa5G03630, Asa5G03631

GO:0046983	Molecular_Function	protein dimerization activity	21/1282	404/57561	0.00045489	0.015480031	Asa0001803, Asa0004737, Asa2001372, Asa2G02918, Asa2G04517, Asa2G04817, Asa2G06443, Asa4G00978, Asa4G00985, Asa4G01917, Asa4G02647, Asa4G03456, Asa4G04780, Asa4G05441, Asa5G01628, Asa7G00403, Asa7G03462, Asa7G04099, Asa7G04304, Asa7G04807, Asa7G04808, Asa0000000, Asa0000000, Asa0000000, Asa2G02910, Asa2G02918, Asa2G04805, Asa2G04806, Asa3G00952, Asa4G03709, Asa4G04766, Asa5G03254, Asa5G03879, Asa5G03885, Asa7G00493, Asa7G04099, Asa7G04348, Asa7G06597, Asa7G06821, Asa8G02259, Asa8G02752, Asa8G03921, Asa8G05583
GO:0008168	Molecular_Function	methyltransferase activity	22/1282	447/57561	0.000571898	0.018734664	Asa1G04323, Asa3G01178, Asa7G05468,
GO:0017056	Molecular_Function	structural constituent of nuclear pore	4/1282	18/57561	0.000583894	0.018734664	Asa7G05470, Asa0000140, Asa1G02047, Asa1G04337, Asa1G04399, Asa2G06653, Asa3G01666, Asa4G00762, Asa4G05697, Asa5G00486, Asa5G01546, Asa6G01159, Asa6G01356, Asa6G01673, Asa7G00027
GO:0043565	Molecular_Function	sequence-specific DNA binding	14/1282	230/57561	0.00072107	0.02249338	Asa3G02227, Asa3G0400b, Asa4G00241, Asa4G01265, Asa4G01399, Asa6G06243, Asa7G00537, Asa7G06333, Asa8G02594, Asa8G05969
GO:0003774	Molecular_Function	motor activity	10/1282	136/57561	0.000983766	0.029858616	Asa3G00952, Asa4G03709, Asa5G03254,
GO:0008170	Molecular_Function	N-methyltransferase activity	6/1282	52/57561	0.001024755	0.03028422	Asa7G06597, Asa8G02752, Asa8G03921, Asa7G01149, Asa8G01220, Asa8G04028,
GO:0004525	Molecular_Function	ribonuclease III activity	4/1282	22/57561	0.001300356	0.036507496	Asa8G04029
GO:0032296	Molecular_Function	double-stranded RNA-specific ribonuclease activity	4/1282	22/57561	0.001300356	0.036507496	Asa7G01149, Asa8G01220, Asa8G04028, Asa8G04029, Asa0000000, Asa0000000, Asa0000000, Asa2G02910, Asa2G02918, Asa2G04805, Asa2G04806, Asa3G00952, Asa4G03709, Asa4G04766, Asa5G03254, Asa5G03879, Asa5G03885, Asa7G00493, Asa7G04099, Asa7G04348, Asa7G06597, Asa7G06821, Asa8G02259, Asa8G02752, Asa8G03921,
GO:0016741	Molecular_Function	transferase activity, transferring one-carbon groups	22/1282	481/57561	0.001594394	0.043354502	Asa8G05583