

## ONLINE SUPPLEMENT 1:

Oligonucleotide primers for reverse RNA gel blot:

SSH fw:	5' TCGAGCGGCCCGCCCGGGCAGGT 3'
SSH rev:	5' AGCGTGGTCGCGGCCGAGGT 3'
AY104722 (Actin)	5' GAGAACTGGCATCACACCTT 3' 5' AGCATGAGGAAGTGTGTATC 3'
X75326 (G3PDH)	5' GCCTGTCTTGTGATTA 3' 5' ACGGCAGGTTACAGTG 3'

Oligonucleotide primers for qRT-PCR:

BT016828	5' CATCTGCCGGTTTAATCATC 3' 5' GCAGGGCACTACATCACAA 3'
CB380608	5' ACTTGACGGTTGCCTTAGTCT 3' 5' ATGCTTTCTTGGCATCAGAG 3'
CK827793	5' GTATTGCCGGTCTAACGATG 3' 5' ATGTTGGTAGCATGCACTCC 3'
BM079363	5' GACCTCCTCCATCTTGCTT 3' 5' TCTTGTGATGTTGCTGTTCG 3'
BM337329	5' CGACCTGCATCGACATCAT 3' 5' CCGAGGAAGGTGAGGATAAG 3'
CF062736	5' AACATTGTCACCAACCCAAC 3' 5' CTGATCGAACAGGGCTTCTA 3'
BT016182	5' GAGTCCATGAAGGATGATGC 3' 5' TCAATTCAGCCAGGACAAC 3'
CF637826	5' CTCTAGAAGTGCCGCGATTG 3' 5' GTTCGCAGGTCACCTCGCTT 3'
AI861099	5' CTTCCCTTGCCGATAAAGACT 3' 5' GAGGGGCAAAGAAGAAGAAG 3'
X07156 (GAPDH)	5' TCCACTCAAGGGTATCATGG 3' 5' GACGAAGTGGTCGTTTCAGAG 3'
AF435816 (Thioredoxin)	5' GGACCAGAAGATTGCAGAAG 3' 5' CAGCATAGACAGGAGCAATG 3'

**Online supplement 2: Annotated list of pericycle and non-pericycle ESTs**

Cell-type	db_EST ID	Genbank AC	In house ID	Anchoring	AC Function [species]	Functional category
Pericycle	43580663	EH211042	1_A05_PL-E	PUT-155a-Zea_mays-76311	AAP53974.2 Cell division cycle protein 48 [O. sativa]	Cell cycle
Pericycle	43580885	EH211264	Peri-Hd09.R	PUT-155a-Zea_mays-52777736	AAK97227.1 CDK-activating kinase [M. sativa]	Cell cycle
Pericycle	43580561	EH210940	1_A09_PL-A	PUT-155a-Zea_mays-27329	BAB16439.1 Replication factor C 36kDa subunit [O. sativa]	Cell cycle
Pericycle	43580819	EH211198	Peri-G-c7-R	PUT-155a-Zea_mays-12777741	AAO72572.1 Protein kinase [O. sativa]	Cell cycle
Pericycle	43580608	EH210987	1_D09_PL-B	MAGI4_38493	BAD17160.1 Cyclin T2-like protein [O. sativa]	Cell cycle
Pericycle	43580837	EH211216	Peri-G-e2-R	PUT-155a-Zea_mays-75804	Q8H6A5 Translationally-controlled tumor protein homolog [Z. mays]	Cell fate
Pericycle	43580596	EH210975	1_E06_PL-B	PUT-155a-Zea_mays-28336	BAD25014.1 Coatomer protein complex, subunit beta 2 [O. sativa]	Cell fate
Pericycle	43580924	EH211303	Peri-Hh08.R	PUT-155a-Zea_mays-27763	BAB92465.1 Senescence-associated protein-like [O. sativa]	Cell fate
Pericycle	43580871	EH211250	Peri-Hb08.R	PUT-155a-Zea_mays-13502	O22349 Tubulin alpha-3 [E. indica]	Cell fate
Pericycle	43580604	EH210983	1_C12_PL-B	PUT-155a-Zea_mays-83877736	BAB68268.1 Drought inducible 22 kD protein [S. officinarum]	Disease/defense
Pericycle	43580685	EH211064	1_H03_PL-D	PUT-155a-Zea_mays-74262	CAA06996.1 Ascorbate peroxidase [H. vulgare]	Disease/defense
Pericycle	43580672	EH211051	1_B04_PL-D	PUT-155a-Zea_mays-67586	AAF68389.1 Hypersensitive-induced response protein [Z. mays]	Disease/defense
Pericycle	43580766	EH211145	PFB-E5	PUT-155a-Zea_mays-66913	AAR33048.1 Allene oxide synthase [Z. mays]	Disease/defense
Pericycle	43580621	EH211000	1_A01_PL-C	PUT-155a-Zea_mays-62856	CAB38118.1 Glutathione transferase III(a) [Z. mays]	Disease/defense
Pericycle	43580609	EH210988	1_D06_PL-B	PUT-155a-Zea_mays-62426	AAM15929.1 Heat shock factor-binding protein 1 [Z. mays]	Disease/defense
Pericycle	43580883	EH211262	Peri-Hc05.R	PUT-155a-Zea_mays-59377742	AAW78864.1 Respiratory burst oxidase 2 [M. truncatula]	Disease/defense
Pericycle	43580751	EH211130	PFB-C9	PUT-155a-Zea_mays-49352	AAN86275.1 Heat shock cognate protein 70 [C. maxima]	Disease/defense
Pericycle	43580865	EH211244	Peri-Hb02.R	PUT-155a-Zea_mays-38677742	CAB59893.1 Glutathione peroxidase-like protein [H. vulgare]	Disease/defense
Pericycle	43580625	EH211004	1_G10_PL-B	PUT-155a-Zea_mays-29853	CAA06996.1 Ascorbate peroxidase [H. vulgare]	Disease/defense
Pericycle	43580852	EH211231	Peri-G-h1-R	PUT-155a-Zea_mays-18210	AAP46232.1 Heat shock protein [O. sativa]	Disease/defense
Pericycle	43580691	EH211070	PF-B12	PUT-155a-Zea_mays-111977743	P33126 Heat shock protein 81-1 [O. sativa]	Disease/defense
Pericycle	43580722	EH211101	PF-D4	PUT-155a-Zea_mays-110677738	BAD73667.1 Heat shock protein 82 [O. sativa]	Disease/defense
Pericycle	43580607	EH210986	1_B04_PL-B	PUT-155a-Zea_mays-10347	AAM28296.1 Peroxidase [A. comosus]	Disease/defense
Pericycle	43580619	EH210998	1_F02_PL-B	PUT-155a-Zea_mays-10347	AAM28296.1 Peroxidase [A. comosus]	Disease/defense
Pericycle	43580850	EH211229	Peri-Hb03.R	PUT-155a-Zea_mays-06559	AAK52085.1 Peroxidase [N. tabacum]	Disease/defense
Pericycle	43580923	EH211302	Peri-Hg09.R	PUT-155a-Zea_mays-046682	Q9ARD5 Low temperature-induced protein It101.2 [H. vulgare]	Disease/defense
Pericycle	43580758	EH211137	PFB-E9	PUT-155a-Zea_mays-017503	P84637 Cycloviolin-A [L. cymosa]	Disease/defense
Pericycle	43580553	EH210932	1_F01_PL-A	-	T02955 Cytochrome P450 monooxygenase [Z. mays]	Disease/defense
Pericycle	43580895	EH211274	Peri-Hh10.R	PUT-155a-Zea_mays-8497	CAA83914.1 Phosphoglycerate mutase [Z. mays]	Energy
Pericycle	43580725	EH211104	PF-A7	PUT-155a-Zea_mays-74448	AAA87580.1 Glyceroldehyde-3-phosphate dehydrogenase GAPC4 [Z. mays]	Energy
Pericycle	43580595	EH210974	1_G06_PL-B	PUT-155a-Zea_mays-74429	Q09054 Glyceroldehyde-3-phosphate dehydrogenase, cytosolic 2 [Z. mays]	Energy
Pericycle	43580777	EH211156	PFC-A6	PUT-155a-Zea_mays-71607	NP_192171.1 Hydrogen-transporting ATP synthase [A. thaliana]	Energy
Pericycle	43580649	EH211028	1_H07_PL-C	PUT-155a-Zea_mays-66025	AAO1224.1 chlorophyll antenna size regulatory protein [C. reinhardtii]	Energy
Pericycle	43580563	EH210942	1_B05_PL-A	PUT-155a-Zea_mays-65577737	AAL99744.1 Pyruvate decarboxylase [Z. mays]	Energy
Pericycle	43580848	EH211227	Peri-Hf09.R	PUT-155a-Zea_mays-60361	CCZM Cytochrome c [Z. mays]	Energy
Pericycle	43580825	EH211204	Peri-G-d4-R	PUT-155a-Zea_mays-53077740	AAA33465.1 Glyceroldehyde-3-phosphate dehydrogenase [Z. mays]	Energy
Pericycle	43580716	EH211095	PF-E12	PUT-155a-Zea_mays-44764	NP_195496.1 Cytochrome-c oxidase [A. thaliana]	Energy
Pericycle	43580898	EH211277	Peri-He01.R	PUT-155a-Zea_mays-42477742	ABE79585.1 ETC complex I subunit conserved region [M. truncatula]	Energy
Pericycle	43580812	EH211191	Peri-G-f2-R	PUT-155a-Zea_mays-31677735	AAM92706.1 Cytochrome c oxidase subunit [T. aestivum]	Energy
Pericycle	43580922	EH211301	Peri-Hg10.R	PUT-155a-Zea_mays-31477738	CAA53366.1 Cytochrome b5 [O. sativa]	Energy
Pericycle	43580706	EH211085	1_C01_PL-E	PUT-155a-Zea_mays-082734	ABE92785.1 Photosynthetic reaction center, H-chain [M. truncatula]	Energy
Pericycle	43580890	EH211269	Peri-He08.R	PUT-155a-Zea_mays-017751	NP_187697.1 Ubiquinol-cytochrome-c reductase [A. thaliana]	Energy
Pericycle	43580658	EH211037	1_D02_PL-D	PUT-155a-Zea_mays-015523	YP_762510.1 Cytochrome c oxidase subunit 1 [T. dactyloides]	Energy
Pericycle	43580593	EH210972	1_H07_PL-A	PUT-155a-Zea_mays-015523	YP_762510.1 Cytochrome c oxidase subunit 1 [T. dactyloides]	Energy

Cell-type	db_EST ID	Genbank AC	In house ID	Anchoring	AC Function [species]	Functional category
Pericycle	43580748	EH211127	PF-F8	PUT-155a-Zea_mays-013766	Q42841 Cytochrome c oxidase polypeptide Vc [H. vulgare]	Energy
Pericycle	43580842	EH211221	Peri-G-g6-R	-	Q40089 ATP synthase delta' chain [I. batatas]	Energy
Pericycle	43580720	EH211099	PF-D9	-	NP_201477.1 Succinate dehydrogenase1-1 [A. thaliana]	Energy
Pericycle	43580840	EH211219	Peri-Hc01.R	PUT-155a-Zea_mays-99077736	AAQ14869.1 Isopentenyl pyrophosphate isomerase [Z. mays]	Metabolism
Pericycle	43580644	EH211023	1_C01_PL-C	PUT-155a-Zea_mays-9077737	ABF50107.1 Nitrilase associated protein-like [M. acuminata]	Metabolism
Pericycle	43580806	EH211185	PFC-H4	PUT-155a-Zea_mays-86777735	P37833 Aspartate aminotransferase [O. sativa]	Metabolism
Pericycle	43580863	EH211242	Peri-Hb09.R	PUT-155a-Zea_mays-77377739	O24575 S-adenosylmethionine decarboxylase proenzyme [Z. mays]	Metabolism
Pericycle	43580799	EH211178	PFC-H2	PUT-155a-Zea_mays-71719	AAO62313.1 UDP-glucose dehydrogenase [C. esculenta]	Metabolism
Pericycle	43580818	EH211197	Peri-G-b6-R	PUT-155a-Zea_mays-70462	NP_193582.2 Hydrolase, acting on ester bonds [A. thaliana]	Metabolism
Pericycle	43580585	EH210964	1_F09_PL-A	PUT-155a-Zea_mays-68405	Q08062 Malate dehydrogenase [Z. mays]	Metabolism
Pericycle	43580726	EH211105	PF-B3	PUT-155a-Zea_mays-677742	NP_172963.3 CDP-diaclyglycerol-serine O-phosphatidyltransferase [A. thaliana]	Metabolism
Pericycle	43580868	EH211247	Peri-Ha08.R	PUT-155a-Zea_mays-67303	ABF95474.1 Aspartate aminotransferase [O. sativa]	Metabolism
Pericycle	43580695	EH211074	1_B09_PL-E	PUT-155a-Zea_mays-66361	CAA73139.1 Isocitrate dehydrogenase (NADP+) [A. graveolens]	Metabolism
Pericycle	43580568	EH210947	1_D07_PL-A	PUT-155a-Zea_mays-65877735	P08440 Fructose-bisphosphate aldolase [Z. mays]	Metabolism
Pericycle	43580909	EH211288	Peri-Hf07.R	PUT-155a-Zea_mays-65877735	P08440 Fructose-bisphosphate aldolase [Z. mays]	Metabolism
Pericycle	43580802	EH211181	PFC-F2	PUT-155a-Zea_mays-6451	P47917 O-methyltransferase ZRP4 [Z. mays]	Metabolism
Pericycle	43580877	EH211256	Peri-Hc03.R	PUT-155a-Zea_mays-61325	BAD09640.1 UDP-glucose 4-epimerase [O. sativa]	Metabolism
Pericycle	43580637	EH211016	1_A10_PL-C	PUT-155a-Zea_mays-59531	AAX95611.1 Plant-specific FAD-dependent oxidoreductase [O. sativa]	Metabolism
Pericycle	43580635	EH211014	1_A12_PL-C	PUT-155a-Zea_mays-58873	NP_172684.1 Disulfide oxidoreductase/monooxygenase [A. thaliana]	Metabolism
Pericycle	43580622	EH211001	1_C03_PL-C	PUT-155a-Zea_mays-52177737	ABB86275.1 Sulfite oxidase-like [S. tuberosum]	Metabolism
Pericycle	43580813	EH211192	Peri-G-b7-R	PUT-155a-Zea_mays-50386	O48556 Soluble inorganic pyrophosphatase [Z. mays]	Metabolism
Pericycle	43580891	EH211270	Peri-Hf04.R	PUT-155a-Zea_mays-46297	BAA94257.1 Endo-1,4-beta-glucanase Cel1 [H. vulgare]	Metabolism
Pericycle	43580712	EH211091	PF-A1	PUT-155a-Zea_mays-30601	AAO62313.1 UDP-glucose dehydrogenase [C. esculenta]	Metabolism
Pericycle	43580761	EH211140	PFB-C1	PUT-155a-Zea_mays-30601	AAO62313.1 UDP-glucose dehydrogenase [C. esculenta]	Metabolism
Pericycle	43580867	EH211246	Peri-Hd04.R	PUT-155a-Zea_mays-28677744	CAA74071.1 Cinnamoyl CoA reductase [Z. mays]	Metabolism
Pericycle	43580639	EH211018	1_G11_PL-B	PUT-155a-Zea_mays-27979	Q9SE42 Ribulose-phosphate-3-epimerase [O. sativa]	Metabolism
Pericycle	43580788	EH211167	PFC-C7	PUT-155a-Zea_mays-26557	AAF37733.1 4-coumarate--CoA ligase 4CL2 [L. perenne]	Metabolism
Pericycle	43580661	EH211040	PF-G12	PUT-155a-Zea_mays-23777737	ABI95404.1 Fasciclin-like protein FLA14 [T. aestivum]	Metabolism
Pericycle	43580688	EH211067	PF-A3	PUT-155a-Zea_mays-21965	P47917 O-methyltransferase ZRP4 (OMT) [Z. mays]	Metabolism
Pericycle	43580753	EH211132	PFB-E11	PUT-155a-Zea_mays-16703	AAX81879.1 Quinone reductase [T. monococcum]	Metabolism
Pericycle	43580571	EH210950	1_D08_PL-A	PUT-155a-Zea_mays-15777742	BAD23582.1 Nicotianamine aminotransferase A [O. sativa]	Metabolism
Pericycle	43580764	EH211143	PFB-D8	PUT-155a-Zea_mays-1522	ABF98755.1 CBS domain containing protein [O. sativa]	Metabolism
Pericycle	43580728	EH211107	PF-E10	PUT-155a-Zea_mays-14706	AAT02417.1 Sterol-8,7-isomerase [Z. mays]	Metabolism
Pericycle	43580569	EH210948	1_C12_PL-A	PUT-155a-Zea_mays-119477739	ABE92718.1 IMP dehydrogenase/GMP reductase [M. truncatula]	Metabolism
Pericycle	43580667	EH211046	1_E05_PL-C	PUT-155a-Zea_mays-109277739	P93554 Nucleoside diphosphate kinase 1 [S. officinarum]	Metabolism
Pericycle	43580781	EH211160	PFC-D2	PUT-155a-Zea_mays-109277739	P93554 Nucleoside diphosphate kinase 1 [S. officinarum]	Metabolism
Pericycle	43580703	EH211082	PFC-A7	PUT-155a-Zea_mays-103177742	AAO72664.1 Adenosylhomocysteinase-like protein [O. sativa]	Metabolism
Pericycle	43580735	EH211114	PF-G5	PUT-155a-Zea_mays-08629	AAZ05070.1 Glutamate decarboxylase [C. sinensis]	Metabolism
Pericycle	43580775	EH211154	Peri-G-b1-R	PUT-155a-Zea_mays-083138	NP_188995.2 Cyclopropane-fatty-acyl-phospholipid synthase [A. thaliana]	Metabolism
Pericycle	43580731	EH211110	PF-C3	PUT-155a-Zea_mays-08180	BAD21873.1 O-linked N-acetyl glucosamine transferase [O. sativa]	Metabolism
Pericycle	43580774	EH211153	PFB-F4	PUT-155a-Zea_mays-014288	AAG13624.1 Folylpolylglutamate synthetase [O. sativa]	Metabolism
Pericycle	43580638	EH211017	1_G07_PL-B	PUT-155a-Zea_mays-010227	NP_180917.1 Cinnamoyl-CoA reductase [A. thaliana]	Metabolism
Pericycle	43580776	EH211155	PFC-B3	MAGI4_79248	AAP23035.1 Sphingolipid delta-8 desaturase [P. vialii]	Metabolism
Pericycle	43580592	EH210971	1_A06_PL-B	MAGI4_128551	CAJ01704.1 AdoMet synthase 3 [H. vulgare]	Metabolism

Cell-type	db_EST ID	Genbank AC	In house ID	Anchoring	AC Function [species]	Functional category
Pericycle	43580612	EH210991	1_C05_PL-B	MAGI4_116767	AAO72664.1 Adenosylhomocysteinase-like protein [O. sativa]	Metabolism
Pericycle	43580611	EH210990	1_B09_PL-B	contig1	P93554 Nucleoside diphosphate kinase 1 [S. officinarum]	Metabolism
Pericycle	43580581	EH210960	1_E01_PL-C	contig1	P93554 Nucleoside diphosphate kinase 1 [S. officinarum]	Metabolism
Pericycle	43580678	EH211057	1_F01_PL-D	contig1	P93554 Nucleoside diphosphate kinase 1 [S. officinarum]	Metabolism
Pericycle	43580843	EH211222	Peri-G-f7-R	-	AAF72992.1 Germin-like protein 1 [Z. mays]	Metabolism
Pericycle	43580854	EH211233	Peri-G-g5-R	-	CAC14890.1 d-TDP-glucose dehydratase [P. australis]	Metabolism
Pericycle	43580845	EH211224	Peri-G-h3-R	-	P42895 2-phosphoglycerate dehydratase 2 [Z. mays]	Metabolism
Pericycle	43580800	EH211179	Peri-G-b4-R	-	P93554 Nucleoside diphosphate kinase 1 [S. officinarum]	Metabolism
Pericycle	43580826	EH211205	Peri-G-d1-R	PUT-155a-Zea_mays-977741	AAF67099.1 Epsilon-COP [Z. mays]	Protein fate
Pericycle	43580894	EH211273	Peri-Hd06.R	PUT-155a-Zea_mays-97377743	AAZ20285.1 Ubiquitin fusion protein [A. hypogaea]	Protein fate
Pericycle	43580859	EH211238	Peri-Hb11.R	PUT-155a-Zea_mays-89877743	Q9FR39 Profilin-5 [Z. mays]	Protein fate
Pericycle	43580632	EH211011	1_F12_PL-B	PUT-155a-Zea_mays-70920	AAB88617.1 Ubiquitin conjugating enzyme [Z. mays]	Protein fate
Pericycle	43580780	EH211159	Peri-G-a7-R	PUT-155a-Zea_mays-6977737	O22655 Profilin-4 [Z. mays]	Protein fate
Pericycle	43580721	EH211100	PF-G3	PUT-155a-Zea_mays-6977737	O22655 Profilin-4 [Z. mays]	Protein fate
Pericycle	43580916	EH211295	Peri-Hg01.R	PUT-155a-Zea_mays-67477736	P52427 20S proteasome alpha subunit C [S. oleracea]	Protein fate
Pericycle	43580858	EH211237	Peri-Ha05.R	PUT-155a-Zea_mays-49232	AAU82109.1 Ubiquitin-conjugating enzyme [T. aestivum]	Protein fate
Pericycle	43580580	EH210959	1_A03_PL-B	PUT-155a-Zea_mays-38142	ABI31652.1 26S proteasome regulatory particle subunit 12 [C. sinensis]	Protein fate
Pericycle	43580925	EH211304	Peri-Hh03.R	PUT-155a-Zea_mays-37566	NP_567717.1 Peptidyl-prolyl cis-trans isomerase [A. thaliana]	Protein fate
Pericycle	43580652	EH211031	1_D03_PL-C	PUT-155a-Zea_mays-31124	Q10717 Cysteine proteinase 2 precursor [Z. mays]	Protein fate
Pericycle	43580874	EH211253	Peri-Hd03.R	PUT-155a-Zea_mays-29977738	P25866 Ubiquitin-conjugating enzyme E2-17 kDa [T. aestivum]	Protein fate
Pericycle	43580671	EH211050	1_E11_PL-C	PUT-155a-Zea_mays-2706	BAA09666.1 Cysteine proteinase inhibitor [Z. mays]	Protein fate
Pericycle	43580732	EH211111	PF-H1	PUT-155a-Zea_mays-2706	BAA09666.1 Cysteine proteinase inhibitor [Z. mays]	Protein fate
Pericycle	43580900	EH211279	Peri-Hf05.R	PUT-155a-Zea_mays-203	AAX09967.1 Protein disulfide isomerase [Z. mays]	Protein fate
Pericycle	43580770	EH211149	PFC-G6	PUT-155a-Zea_mays-16668	AAV44043.1 Mitochondrial processing peptidase alpha subunit [O. sativa]	Protein fate
Pericycle	43580601	EH210980	1_B03_PL-B	PUT-155a-Zea_mays-112177735	ABE80601.1 26S proteasome subunit P45 [M. truncatula]	Protein fate
Pericycle	43580602	EH210981	1_A05_PL-B	PUT-155a-Zea_mays-10491	NP_177258.3 Ubiquitin-protein ligase [A. thaliana]	Protein fate
Pericycle	43580700	EH211079	1_C06_PL-E	PUT-155a-Zea_mays-085211	Q9M4T8 20S proteasome alpha subunit E [G. max]	Protein fate
Pericycle	43580862	EH211241	Peri-Ha04.R	PUT-155a-Zea_mays-019150	AAZ20285.1 Ubiquitin fusion protein [A. hypogaea]	Protein fate
Pericycle	43580908	EH211287	Peri-Hh07.R	PUT-155a-Zea_mays-019150	AAZ20285.1 Ubiquitin fusion protein [A. hypogaea]	Protein fate
Pericycle	43580631	EH211010	1_H06_PL-D	PUT-155a-Zea_mays-016884	BAD53980.1 Proteasome activator subunit 4-like [O. sativa]	Protein fate
Pericycle	43580681	EH211060	1_A12_PL-E	MAGI4_29602	AAF67099.1 Epsilon-COP [Z. mays]	Protein fate
Pericycle	43580809	EH211188	Peri-G-e8-R	-	AAX09965.1 Protein disulfide isomerase [Z. mays]	Protein fate
Pericycle	43580664	EH211043	1_E03_PL-C	PUT-155a-Zea_mays-93577742	P46297 40S ribosomal protein S23 [Fragaria x Ananassa]	Protein synthesis
Pericycle	43580875	EH211254	Peri-Hc07.R	PUT-155a-Zea_mays-924	BAA96367.1 Ribosomal protein L27 [P. ginseng]	Protein synthesis
Pericycle	43580603	EH210982	1_C06_PL-B	PUT-155a-Zea_mays-7680	NP_191121.1 Translation initiation factor [A. thaliana]	Protein synthesis
Pericycle	43580816	EH211195	Peri-G-b2-R	PUT-155a-Zea_mays-7680	NP_191121.1 Translation initiation factor [A. thaliana]	Protein synthesis
Pericycle	43580620	EH210999	1_F10_PL-B	PUT-155a-Zea_mays-75790	ABE80904.1 Ybak/prolyl-tRNA synthetase associated region [M. truncatula]	Protein synthesis
Pericycle	43580864	EH211243	Peri-G-h7-R	PUT-155a-Zea_mays-7562	Q6YW46 Elongation factor 1-gamma 2 [O. sativa]	Protein synthesis
Pericycle	43580772	EH211151	PFB-D5	PUT-155a-Zea_mays-7562	Q6YW46 Elongation factor 1-gamma 2 [O. sativa]	Protein synthesis
Pericycle	43580572	EH210951	1_B08_PL-B	PUT-155a-Zea_mays-75472	AAL59231.1 Ribosomal protein L35A [Z. mays]	Protein synthesis
Pericycle	43580579	EH210958	1_F04_PL-A	PUT-155a-Zea_mays-75177738	AAC98779.1 S-phase-specific ribosomal protein [O. sativa]	Protein synthesis
Pericycle	43580575	EH210954	1_D10_PL-B	PUT-155a-Zea_mays-75095	ABE90867.1 Ribosomal L18ae protein [M. truncatula]	Protein synthesis
Pericycle	43580723	EH211102	1_H03_PL-E	PUT-155a-Zea_mays-65077743	P50888 60S ribosomal protein L24 [H. vulgare]	Protein synthesis
Pericycle	43580912	EH211291	Peri-Hf10.R	PUT-155a-Zea_mays-63677741	AAK92638.1 Putative 40S Ribosomal protein [O. sativa]	Protein synthesis

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Pericycle	43580903	EH211282	Peri-He10.R	PUT-155a-Zea_mays-57720	ABA40430.1 Ribosomal protein L27a [S. tuberosum]	Protein synthesis
Pericycle	43580687	EH211066	1_D11_PL-D	PUT-155a-Zea_mays-4877742	ABG22329.1 Ribosomal protein L10 containing protein [O. sativa]	Protein synthesis
Pericycle	43580757	EH211136	PFB-H5	PUT-155a-Zea_mays-43449	AAB67831.1 Ribosomal protein S4 [Z. mays]	Protein synthesis
Pericycle	43580717	EH211096	1_F02_PL-E	PUT-155a-Zea_mays-41677737	AAK94425.1 60S ribosomal protein L144 [B. rapa]	Protein synthesis
Pericycle	43580588	EH210967	1_A02_PL-B	PUT-155a-Zea_mays-40577735	O48557 60S ribosomal protein L17 [Z. mays]	Protein synthesis
Pericycle	43580743	EH211122	PF-G10	PUT-155a-Zea_mays-40577735	O48557 60S ribosomal protein L17 [Z. mays]	Protein synthesis
Pericycle	43580913	EH211292	Peri-Hg07.R	PUT-155a-Zea_mays-32277737	O48557 60S ribosomal protein L17 [Z. mays]	Protein synthesis
Pericycle	43580689	EH211068	1_F01_PL-E	PUT-155a-Zea_mays-31394	CAH55765.1 Ribosomal L32 [O. sativa]	Protein synthesis
Pericycle	43580665	EH211044	PF-F12	PUT-155a-Zea_mays-2611	AAF42977.1 Elongation factor 1 alpha [Z. mays]	Protein synthesis
Pericycle	43580590	EH210969	1_H12_PL-A	PUT-155a-Zea_mays-25977744	O48558 60S ribosomal protein L30 [Z. mays]	Protein synthesis
Pericycle	43580886	EH211265	Peri-Hd08.R	PUT-155a-Zea_mays-2177741	BAA19798.1 YK426 [O. sativa]	Protein synthesis
Pericycle	43580876	EH211255	Peri-Hf06.R	PUT-155a-Zea_mays-16477742	AAW34237.1 Ribosomal protein S19 [O. sativa]	Protein synthesis
Pericycle	43580610	EH210989	1_G02_PL-B	PUT-155a-Zea_mays-13174	AAW50985.1 Ribosomal protein L18 [T. aestivum]	Protein synthesis
Pericycle	43580701	EH211080	PF-C4	PUT-155a-Zea_mays-12677737	BAB21002.1 Ribosomal protein S10 [O. sativa]	Protein synthesis
Pericycle	43580693	EH211072	1_A11_PL-E	PUT-155a-Zea_mays-120277744	O48557 60S ribosomal protein L17 [Z. mays]	Protein synthesis
Pericycle	43580666	EH211045	1_G03_PL-C	PUT-155a-Zea_mays-120277744	O48557 60S ribosomal protein L17 [Z. mays]	Protein synthesis
Pericycle	43580729	EH211108	PFB-F3	PUT-155a-Zea_mays-120277744	O48557 60S ribosomal protein L17 [Z. mays]	Protein synthesis
Pericycle	43580707	EH211086	1_G03_PL-E	PUT-155a-Zea_mays-118177736	O48557 60S ribosomal protein L17 [Z. mays]	Protein synthesis
Pericycle	43580654	EH211033	1_D05_PL-C	PUT-155a-Zea_mays-115677741	AAR15081.1 Translational elongation factor 1 subunit beta [P. sativum]	Protein synthesis
Pericycle	43580692	EH211071	1_F03_PL-D	PUT-155a-Zea_mays-115677741	AAR15081.1 Translational elongation factor 1 subunit beta [P. sativum]	Protein synthesis
Pericycle	43580586	EH210965	1_D02_PL-B	PUT-155a-Zea_mays-113877740	BAD82173.1 Ribosomal protein L5 [O. sativa]	Protein synthesis
Pericycle	43580597	EH210976	1_A10_PL-B	PUT-155a-Zea_mays-105977743	ABE94025.1 Ribosomal protein L1 [M. truncatula]	Protein synthesis
Pericycle	43580600	EH210979	1_B10_PL-B	PUT-155a-Zea_mays-105977743	ABE94025.1 Ribosomal protein L1 [M. truncatula]	Protein synthesis
Pericycle	43580624	EH211003	1_B11_PL-E	PUT-155a-Zea_mays-100577744	P45633 60S ribosomal protein L10 [Z. mays]	Protein synthesis
Pericycle	43580574	EH210953	1_E08_PL-A	PUT-155a-Zea_mays-100377743	AAB67831.1 Ribosomal protein S4 [Z. mays]	Protein synthesis
Pericycle	43580704	EH211083	PFB-E7	PUT-155a-Zea_mays-057657	CAA37241.1 Ribosomal protein L2 [Z. mays]	Protein synthesis
Pericycle	43580794	EH211173	Peri-G-b3-R	PUT-155a-Zea_mays-056796	NP_191121.1 Translation initiation factor [A. thaliana]	Protein synthesis
Pericycle	43580554	EH210933	1_B11_PL-A	PUT-155a-Zea_mays-04138	NP_172256.1 Ribosomal protein S15A [A. thaliana]	Protein synthesis
Pericycle	43580698	EH211077	1_A01_PL-E	PUT-155a-Zea_mays-018924	AAL59231.1 Ribosomal protein L35A [Z. mays]	Protein synthesis
Pericycle	43580804	EH211183	Peri-G-a2-R	PUT-155a-Zea_mays-018498	P50888 60S ribosomal protein L24 [H. vulgare]	Protein synthesis
Pericycle	43580696	EH211075	1_G10_PL-E	PUT-155a-Zea_mays-017388	CAG47084.1 40S ribosomal protein S9 [C. roseus]	Protein synthesis
Pericycle	43580679	EH211058	1_A10_PL-E	PUT-155a-Zea_mays-014668	AAP80858.1 Ribosomal protein L19 [T. aestivum]	Protein synthesis
Pericycle	43580856	EH211235	Peri-G-h2-R	MAGI4_94272	AAW34236.1 Ribosomal protein S19 [O. sativa]	Protein synthesis
Pericycle	43580576	EH210955	1_E05_PL-A	MAGI4_83800	BAD30897.1 Translation initiation factor 4G [O. sativa]	Protein synthesis
Pericycle	43580745	EH211124	PF-F11	MAGI4_5754	AAQ62075.1 Ribosomal protein L3 [T. aestivum]	Protein synthesis
Pericycle	43580718	EH211097	1_E11_PL-E	MAGI4_154385	AAC78102.1 60S ribosomal protein L21 [O. sativa]	Protein synthesis
Pericycle	43580808	EH211187	Peri-G-a3-R	-	AAD11459.1 Acidic ribosomal protein P2a-2 [Z. mays]	Protein synthesis
Pericycle	43580790	EH211169	Peri-G-a8-R	-	O48557 60S ribosomal protein L17 [Z. mays]	Protein synthesis
Pericycle	43580846	EH211225	Peri-G-f6-R	-	BAD09090.1 60S ribosomal protein L10A [O. sativa]	Protein synthesis
Pericycle	43580905	EH211284	Peri-He09.R	-	BAD09090.1 60S ribosomal protein L10A [O. sativa]	Protein synthesis
Pericycle	43580824	EH211203	Peri-G-d7-R	PUT-155a-Zea_mays-8495	NP_173184.2 ATP binding / nucleoside diphosphate kinase [A. thaliana]	Protein w/ bind. function
Pericycle	43580841	EH211220	Peri-G-e7-R	PUT-155a-Zea_mays-84177739	CAA55693.1 Initiator-binding protein [Z. mays]	Protein w/ bind. function
Pericycle	43580653	EH211032	1_E07_PL-C	PUT-155a-Zea_mays-82077737	BAD09759.1 Signal recognition particle receptor [O. sativa]	Protein w/ bind. function
Pericycle	43580690	EH211069	1_F12_PL-D	PUT-155a-Zea_mays-76625	NP_175056.1 GTP binding [A. thaliana]	Protein w/ bind. function

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Pericycle	43580803	EH211182	Peri-G-c2-R	PUT-155a-Zea_mays-76487	NP_181471.1 Structural constituent of ribosome [A. thaliana]	Protein w/ bind. function
Pericycle	43580785	EH211164	PFC-F5	PUT-155a-Zea_mays-76484	NP_195881.1 Structural constituent of ribosome [A. thaliana]	Protein w/ bind. function
Pericycle	43580814	EH211193	Peri-Ha01.R	PUT-155a-Zea_mays-76251	P54348 Histone H2B.5 [Z. mays]	Protein w/ bind. function
Pericycle	43580830	EH211209	Peri-G-e5-R	PUT-155a-Zea_mays-72296	CAD56220.1 Ribosomal protein RL5 [C. arietinum]	Protein w/ bind. function
Pericycle	43580882	EH211261	Peri-Hc04.R	PUT-155a-Zea_mays-72287	NP_191429.1 Structural constituent of ribosome [A. thaliana]	Protein w/ bind. function
Pericycle	43580674	EH211053	1_A10_PL-D	PUT-155a-Zea_mays-66829	NP_566950.1 Metal ion binding [A. thaliana]	Protein w/ bind. function
Pericycle	43580628	EH211007	1_F06_PL-B	PUT-155a-Zea_mays-58017	NP_200750.1 Oxysterol binding [A. thaliana]	Protein w/ bind. function
Pericycle	43580872	EH211251	Peri-Hb04.R	PUT-155a-Zea_mays-51166	NP_194229.1 ATGP4 [A. thaliana]	Protein w/ bind. function
Pericycle	43580617	EH210996	1_H11_PL-B	PUT-155a-Zea_mays-47008	Q43312 Histone H2A.7 [T. aestivum]	Protein w/ bind. function
Pericycle	43580699	EH211078	PFB-A7	PUT-155a-Zea_mays-44370	NP_187956.1 ATP binding / protein binding [A. thaliana]	Protein w/ bind. function
Pericycle	43580616	EH210995	1_C07_PL-B	PUT-155a-Zea_mays-40437	NP_188119.1 RNA binding / nucleic acid binding [A. thaliana]	Protein w/ bind. function
Pericycle	43580892	EH211271	Peri-He07.R	PUT-155a-Zea_mays-38825	NP_564870.1 Metal ion binding [A. thaliana]	Protein w/ bind. function
Pericycle	43580878	EH211257	Peri-Hc09.R	PUT-155a-Zea_mays-32663	CAH69231.1 ML domain protein [N. glauca]	Protein w/ bind. function
Pericycle	43580737	EH211116	PFB-D1	PUT-155a-Zea_mays-32663	CAH69231.1 ML domain protein [N. glauca]	Protein w/ bind. function
Pericycle	43580889	EH211268	Peri-Hc10.R	PUT-155a-Zea_mays-3193	BAB85987.1 Acyl-CoA-binding protein [P. ginseng]	Protein w/ bind. function
Pericycle	43580789	EH211168	PFC-D6	PUT-155a-Zea_mays-30106	NP_196957.1 Nucleotide binding [A. thaliana]	Protein w/ bind. function
Pericycle	43580828	EH211207	Peri-G-c3-R	PUT-155a-Zea_mays-27386	ABE82276.1 RNA-binding region RNP-1 (RNA recognition motif) [M. truncatula]	Protein w/ bind. function
Pericycle	43580556	EH210935	1_A12_PL-A	PUT-155a-Zea_mays-27229	P40280 Histone H2A [Z. mays]	Protein w/ bind. function
Pericycle	43580564	EH210943	1_D03_PL-A	PUT-155a-Zea_mays-19780	Q9XED7 DNA repair protein RAD51B [Z. mays]	Protein w/ bind. function
Pericycle	43580555	EH210934	1_C09_PL-A	PUT-155a-Zea_mays-109877741	P27347 DNA-binding protein MNB1B (HMG1-like protein) [Z. mays]	Protein w/ bind. function
Pericycle	43580851	EH211230	Peri-G-f8-R	PUT-155a-Zea_mays-109877741	P27347 DNA-binding protein MNB1B (HMG1-like protein) [Z. mays]	Protein w/ bind. function
Pericycle	43580920	EH211299	Peri-Hg11.R	PUT-155a-Zea_mays-109877741	P27347 DNA-binding protein MNB1B (HMG1-like protein) [Z. mays]	Protein w/ bind. function
Pericycle	43580897	EH211276	Peri-Hh01.R	PUT-155a-Zea_mays-109877741	P27347 DNA-binding protein MNB1B (HMG1-like protein) [Z. mays]	Protein w/ bind. function
Pericycle	43580921	EH211300	Peri-Hh11.R	PUT-155a-Zea_mays-109877741	P27347 DNA-binding protein MNB1B (HMG1-like protein) [Z. mays]	Protein w/ bind. function
Pericycle	43580880	EH211259	Peri-Hd07.R	PUT-155a-Zea_mays-104377739	BAD09673.1 Histone H2B.2 [O. sativa]	Protein w/ bind. function
Pericycle	43580686	EH211065	PF-C1	PUT-155a-Zea_mays-050372	CAH69231.1 ML domain protein [N. glauca]	Protein w/ bind. function
Pericycle	43580655	EH211034	1_B10_PL-C	PUT-155a-Zea_mays-0393	BAD67779.1 RNA recognition motif (RRM)-containing protein [O. sativa]	Protein w/ bind. function
Pericycle	43580750	EH211129	PFC-A5	PUT-155a-Zea_mays-017460	AAA32655.1 Histone H3 [M. sativa]	Protein w/ bind. function
Pericycle	43580643	EH211022	1_B04_PL-C	PUT-155a-Zea_mays-015230	BAB20761.1 UV-damaged DNA binding protein [O. sativa]	Protein w/ bind. function
Pericycle	43580677	EH211056	1_D04_PL-D	PUT-155a-Zea_mays-011703	NP_194849.2 DNA binding / DNA topoisomerase [A. thaliana]	Protein w/ bind. function
Pericycle	43580618	EH210997	1_D07_PL-B	MAGI4_105497	P45633 60S ribosomal protein L10 [Z. mays]	Protein w/ bind. function
Pericycle	43580645	EH211024	1_B09_PL-C	PUT-155a-Zea_mays-92477736	AA24685.1 Protein phosphatase 2A regulatory subunit A [Z. mays]	Signal transduction
Pericycle	43580782	EH211161	PFB-H1	PUT-155a-Zea_mays-71025	CAA46150.1 Calmodulin [O. sativa]	Signal transduction
Pericycle	43580741	EH211120	PF-G1	PUT-155a-Zea_mays-71025	CAA46150.1 Calmodulin [O. sativa]	Signal transduction
Pericycle	43580749	EH211128	PFB-B211	PUT-155a-Zea_mays-69014	ABA61130.1 Light-induced protein 1-like [L. perenne]	Signal transduction
Pericycle	43580676	EH211055	1_H05_PL-C	PUT-155a-Zea_mays-68664	CAA46150.1 Calmodulin [O. sativa]	Signal transduction
Pericycle	43580724	EH211103	PF-E4	PUT-155a-Zea_mays-67877743	ABE88784.1 SH3 [M. truncatula]	Signal transduction
Pericycle	43580646	EH211025	1_A04_PL-C	PUT-155a-Zea_mays-54373	AAB28535.1 Ras-related GTP binding protein [O. sativa]	Signal transduction
Pericycle	43580817	EH211196	Peri-Ha11.R	PUT-155a-Zea_mays-32877744	ABB90550.1 Steroid membrane binding protein [T. aestivum]	Signal transduction
Pericycle	43580651	EH211030	1_C04_PL-C	PUT-155a-Zea_mays-16533	AAL30396.1 Small Ras-related GTP-binding protein [T. aestivum]	Signal transduction
Pericycle	43580771	EH211150	PFB-F11	PUT-155a-Zea_mays-126977742	Q75GB1 Auxin-responsive protein IAA17 [O. sativa]	Signal transduction
Pericycle	43580642	EH211021	1_G09_PL-C	PUT-155a-Zea_mays-112277735	AAQ63461.1 Calmodulin 4 [D. carota]	Signal transduction
Pericycle	43580754	EH211133	PFB-F1	PUT-155a-Zea_mays-014530	AAC32204.1 Protein phosphatase 2A 55 kDa B regulatory subunit [O. sativa]	Signal transduction
Pericycle	43580577	EH210956	1_H06_PL-A	MAGI4_87970	ABG73621.1 Leucine-rich repeat receptor-like kinase [P. tomentosa]	Signal transduction

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Pericycle	43580831	EH211210	Peri-G-d3-R	MAGI4_21112	AAP68887.1 Receptor-like protein kinase 1 [O. sativa]	Signal transduction
Pericycle	43580823	EH211202	Peri-G-b8-R	MAGI4_126108	AAX31386.1 Calmodulin [A. corniculatum]	Signal transduction
Pericycle	43580614	EH210993	1_F09_PL-B	MAGI4_11107	AAT06576.1 Putative ras-like small GTP binding ptein [Z. mays]	Signal transduction
Pericycle	43580684	EH211063	1_D06_PL-D	PUT-155a-Zea_mays-99077735	AAK28403.1 Transcription factor APFI [A. thaliana]	Transcription
Pericycle	43580888	EH211267	Peri-Hd02.R	PUT-155a-Zea_mays-72850	AAX14637.1 Zinc finger protein [Z. mays]	Transcription
Pericycle	43580705	EH211084	1_C11_PL-E	PUT-155a-Zea_mays-72850	AAX14637.1 Zinc finger protein [Z. mays]	Transcription
Pericycle	43580669	EH211048	PF-F5	PUT-155a-Zea_mays-63255	BAD82068.1 Transcription initiation factor IIF beta subunit [O. sativa]	Transcription
Pericycle	43580560	EH210939	1_E03_PL-A	PUT-155a-Zea_mays-50795	BAD72339.1 TA9 protein-like [O. sativa]	Transcription
Pericycle	43580792	EH211171	PFC-B7	PUT-155a-Zea_mays-48777742	ABF99925.1 NAC domain containing protein [O. sativa]	Transcription
Pericycle	43580694	EH211073	1_D03_PL-E	PUT-155a-Zea_mays-35977744	NP_188271.1 Phytochrom associated protein1, transcription factor [A. thaliana]	Transcription
Pericycle	43580869	EH211248	Peri-Hc06.R	PUT-155a-Zea_mays-22377740	AAU29336.1 ASF/SF2-like pre-mRNA splicing factor SRP31" [Z. mays]	Transcription
Pericycle	43580752	EH211131	PFB-D4	PUT-155a-Zea_mays-20743	AAT42128.1 Zinc finger protein ZF2 [Z. mays]	Transcription
Pericycle	43580879	EH211258	Peri-Hb10.R	PUT-155a-Zea_mays-128077735	AAB97367.1 Harpin induced gene 1 homolog [O. sativa]	Transcription
Pericycle	43580902	EH211281	Peri-He02.R	PUT-155a-Zea_mays-125077742	BAD53990.1 Zinc-finger protein [O. sativa]	Transcription
Pericycle	43580906	EH211285	Peri-Hf08.R	PUT-155a-Zea_mays-119677738	AAS20975.1 Mago nashi-like protein [H. orientalis]	Transcription
Pericycle	43580926	EH211305	Peri-Hh04.R	PUT-155a-Zea_mays-085763	Q9LEF5 FACT complex subunit SSRP1 [Z. mays]	Transcription
Pericycle	43580915	EH211294	Peri-Hg04.R	PUT-155a-Zea_mays-013416	ABE84579.1 Zinc finger protein [M. truncatula]	Transcription
Pericycle	43580762	EH211141	PFB-E3	PUT-155a-Zea_mays-010987	NP_196487.1 DNA binding / transcription coactivator [A. thaliana]	Transcription
Pericycle	43580849	EH211228	Peri-G-f4-R	-	P42554 DNA-binding protein S1FA [Z. mays]	Transcription
Pericycle	43580633	EH211012	1_H06_PL-B	PUT-155a-Zea_mays-9865	NP_565968.1 Protein translocase/ protein transporter [A. thaliana]	Transport
Pericycle	43580565	EH210944	1_B10_PL-A	PUT-155a-Zea_mays-9857	NP_565239.1 Amino acid permease [A. thaliana]	Transport
Pericycle	43580734	EH211113	PF-H4	PUT-155a-Zea_mays-98377743	AAK26758.1 Plasma membrane integral protein ZmPIP2-1 [Z. mays]	Transport
Pericycle	43580709	EH211088	1_C09_PL-E	PUT-155a-Zea_mays-97177736	AAD29676.1 Plasma membrane MIP protein [Z. mays]	Transport
Pericycle	43580662	EH211041	1_F08_PL-D	PUT-155a-Zea_mays-75443	BAA31583.1 Mitochondrial phosphate transporter [Z. mays]	Transport
Pericycle	43580623	EH211002	1_D12_PL-B	PUT-155a-Zea_mays-64677739	ABE79815.1 Ankyrin [M. truncatula]	Transport
Pericycle	43580904	EH211283	Peri-He11.R	PUT-155a-Zea_mays-4050	BAA92904.1 Importin-alpha re-exporter [O. sativa]	Transport
Pericycle	43580634	EH211013	1_G04_PL-B	PUT-155a-Zea_mays-34786	BAD82580.1 Ankyrin-like protein [O. sativa]	Transport
Pericycle	43580557	EH210936	1_F02_PL-A	PUT-155a-Zea_mays-34389	NP_566909.1 Protein translocase [A. thaliana]	Transport
Pericycle	43580591	EH210970	1_H10_PL-A	PUT-155a-Zea_mays-29616	AAM61568.1 ABC transporter ATPase [A. thaliana]	Transport
Pericycle	43580715	EH211094	1_E06_PL-E	PUT-155a-Zea_mays-2277740	BAB86179.1 Mitochondrial import receptor subunit TOM20 [O. sativa]	Transport
Pericycle	43580760	EH211139	PFB-G1	PUT-155a-Zea_mays-105377735	CAD29313.1 Plasma membrane H <sup>+</sup> -ATPase [O. sativa]	Transport
Pericycle	43580730	EH211109	PF-E1	PUT-155a-Zea_mays-105377735	CAD29313.1 Plasma membrane H <sup>+</sup> -ATPase [O. sativa]	Transport
Pericycle	43580675	EH211054	1_C11_PL-D	PUT-155a-Zea_mays-10232	BAA88950.1 Importin alpha 1b [O. sativa]	Transport
Pericycle	43580787	EH211166	PFC-E6	PUT-155a-Zea_mays-09706	AAP13001.1 Sec63 domain containing protein [O. sativa]	Transport
Pericycle	43580884	EH211263	Peri-Hc11.R	PUT-155a-Zea_mays-032366	CAD59565.1 PDR-like ABC transporter [O. sativa]	Transport
Pericycle	43580711	EH211090	PF-D11	PUT-155a-Zea_mays-016666	NP_197190.1 Protein transporter [A. thaliana]	Transport
Pericycle	43580599	EH210978	1_A04_PL-B	MAGI4_115638	YP_762500.1 ATPase subunit 1 [T. dactyloides]	Transport
Pericycle	43580670	EH211049	1_H09_PL-C	MAGI4_3878	ABF94843.1 Retrotransposon protein [O. sativa]	Transposon
Pericycle	43580873	EH211252	Peri-Hc08.R	PUT-155a-Zea_mays-75903	ABA40467.1 Glycoprotein-like protein [S. tuberosum]	Unknown
Pericycle	43580768	EH211147	PFB-F8	PUT-155a-Zea_mays-75043	No database hit	Unknown
Pericycle	43580636	EH211015	1_A08_PL-C	PUT-155a-Zea_mays-72490	BAD22765.1 Glycoprotein [B. inermis]	Unknown
Pericycle	43580587	EH210966	1_G02_PL-A	PUT-155a-Zea_mays-72490	BAD22765.1 Glycoprotein [B. inermis]	Unknown
Pericycle	43580838	EH211217	Peri-Ha06.R	PUT-155a-Zea_mays-71310	NP_192181.2 Unknown function [A. thaliana]	Unknown
Pericycle	43580778	EH211157	PFB-F5	PUT-155a-Zea_mays-71310	NP_192181.2 Unknown function [A. thaliana]	Unknown

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Pericycle	43580844	EH211223	Peri-Ha02.R	PUT-155a-Zea_mays-68763	AAN05005.1 Hypothetical protein [O. sativa]	Unknown
Pericycle	43580562	EH210941	1_A05_PL-A	PUT-155a-Zea_mays-68477739	AAP44613.1 Unknown protein [O. sativa]	Unknown
Pericycle	43580566	EH210945	1_A08_PL-A	PUT-155a-Zea_mays-67477742	NP_001050282.1 Unknown function [O. sativa]	Unknown
Pericycle	43580606	EH210985	PF-D6	PUT-155a-Zea_mays-65126	NP_001045886.1 Unknown function [O. sativa]	Unknown
Pericycle	43580742	EH211121	PF-E11	PUT-155a-Zea_mays-63777743	CAJ86171.1 Unknown function [O. sativa]	Unknown
Pericycle	43580870	EH211249	Peri-Hb07.R	PUT-155a-Zea_mays-62634	NP_001042756.1 Unknown function [O. sativa]	Unknown
Pericycle	43580765	EH211144	PFB-A9	PUT-155a-Zea_mays-61671	CAE03431.1 Unknown function [O. sativa]	Unknown
Pericycle	43580767	EH211146	PFB-B7	PUT-155a-Zea_mays-59677740	No database hit	Unknown
Pericycle	43580795	EH211174	Peri-G-c6-R	PUT-155a-Zea_mays-56375	No database hit	Unknown
Pericycle	43580647	EH211026	1_E04_PL-C	PUT-155a-Zea_mays-52309	ABD32900.1 Unknown function [M. truncatula]	Unknown
Pericycle	43580736	EH211115	PF-D5	PUT-155a-Zea_mays-51850	NP_001056192.1 Unknown function [O. sativa]	Unknown
Pericycle	43580740	EH211119	PF-H8	PUT-155a-Zea_mays-46213	NP_001044578.1 Unknown function [O. sativa]	Unknown
Pericycle	43580855	EH211234	Peri-Ha09.R	PUT-155a-Zea_mays-46071	NP_001042157.1 Unknown function [O. sativa]	Unknown
Pericycle	43580793	EH211172	PFC-E2	PUT-155a-Zea_mays-45277742	No database hit	Unknown
Pericycle	43580796	EH211175	Peri-G-e4-R	PUT-155a-Zea_mays-43730	NP_001045981.1 Unknown function [O. sativa]	Unknown
Pericycle	43580821	EH211200	Peri-G-c8-R	PUT-155a-Zea_mays-40243	No database hit	Unknown
Pericycle	43580551	EH210930	1_A04_PL-A	PUT-155a-Zea_mays-40241	No database hit	Unknown
Pericycle	43580801	EH211180	Peri-G-g1-R	PUT-155a-Zea_mays-40241	No database hit	Unknown
Pericycle	43580881	EH211260	Peri-He06.R	PUT-155a-Zea_mays-40240	YP_173374.1 Unknown function [N. tabacum]	Unknown
Pericycle	43580714	EH211093	1_E02_PL-E	PUT-155a-Zea_mays-39172	NP_001050318.1 Unknown function [O. sativa]	Unknown
Pericycle	43580594	EH210973	1_C04_PL-B	PUT-155a-Zea_mays-3779	[NP_001051319.1] Unknown function [O. sativa]	Unknown
Pericycle	43580627	EH211006	1_E10_PL-B	PUT-155a-Zea_mays-35511	NP_001043744.1 Unknown function [O. sativa]	Unknown
Pericycle	43580584	EH210963	1_H05_PL-A	PUT-155a-Zea_mays-354	NP_001046996.1 Unknown function [O. sativa]	Unknown
Pericycle	43580659	EH211038	1_C11_PL-C	PUT-155a-Zea_mays-33377736	NP_001050926.1 Unknown function [O. sativa]	Unknown
Pericycle	43580917	EH211296	Peri-Hh09.R	PUT-155a-Zea_mays-33377736	NP_001050926.1 Unknown function [O. sativa]	Unknown
Pericycle	43580660	EH211039	1_E09_PL-C	PUT-155a-Zea_mays-30777743	NP_001053477.1 Unknown protein [O. sativa]	Unknown
Pericycle	43580744	EH211123	PFB-E4	PUT-155a-Zea_mays-28694	NP_001050930.1 Unknown function [O. sativa]	Unknown
Pericycle	43580911	EH211290	Peri-Hg08.R	PUT-155a-Zea_mays-270	NP_001058183.1 Unknown function [O. sativa]	Unknown
Pericycle	43580918	EH211297	Peri-Hh05.R	PUT-155a-Zea_mays-2294	No database hit	Unknown
Pericycle	43580834	EH211213	Peri-Hg02.R	PUT-155a-Zea_mays-22880	NP_001048002.1 Unknown function [O. sativa]	Unknown
Pericycle	43580866	EH211245	Peri-Hb06.R	PUT-155a-Zea_mays-19179	BAD35349.1 FKBP12 interacting protein [O. sativa]	Unknown
Pericycle	43580582	EH210961	1_F03_PL-A	PUT-155a-Zea_mays-17568	NP_001041912.1 Unknown function [O. sativa]	Unknown
Pericycle	43580570	EH210949	1_C08_PL-B	PUT-155a-Zea_mays-15177736	Q40784 Putative apospory-associated protein C [P. ciliare]	Unknown
Pericycle	43580673	EH211052	1_C04_PL-D	PUT-155a-Zea_mays-126577737	No database hit	Unknown
Pericycle	43580919	EH211298	Peri-Hh02.R	PUT-155a-Zea_mays-126577737	No database hit	Unknown
Pericycle	43580786	EH211165	PFB-H12	PUT-155a-Zea_mays-126577737	No database hit	Unknown
Pericycle	43580791	EH211170	PFC-B6	PUT-155a-Zea_mays-12371	NP_001046657.1 Unknown function [O. sativa]	Unknown
Pericycle	43580630	EH211009	1_G08_PL-B	PUT-155a-Zea_mays-117677743	NP_001057280.1 Unknown function [O. sativa]	Unknown
Pericycle	43580769	EH211148	PFB-G5	PUT-155a-Zea_mays-117677743	NP_001057280.1 Unknown function [O. sativa]	Unknown
Pericycle	43580713	EH211092	1_E07_PL-E	PUT-155a-Zea_mays-114477737	No database hit	Unknown
Pericycle	43580815	EH211194	Peri-G-b5-R	PUT-155a-Zea_mays-112577736	BAD07966.1 Membrane related protein CP5 [O. sativa]	Unknown
Pericycle	43580589	EH210968	1_H02_PL-A	PUT-155a-Zea_mays-111577744	NP_001067006.1 Unknown function [O. sativa]	Unknown
Pericycle	43580559	EH210938	1_B04_PL-A	PUT-155a-Zea_mays-111477743	No database hit	Unknown
Pericycle	43580861	EH211240	Peri-Hb01.R	PUT-155a-Zea_mays-111477743	No database hit	Unknown



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Pericycle	43580710	EH211089	PF-C6	PUT-155a-Zea_mays-090948	No database hit	Unknown
Pericycle	43580747	EH211126	PFB-A11	PUT-155a-Zea_mays-087440	BAD53240.1 Hypothetical protein [O. sativa]	Unknown
Pericycle	43580907	EH211286	Peri-Hf03.R	PUT-155a-Zea_mays-07346	NP_001042646.1 Unknown function [O. sativa]	Unknown
Pericycle	43580650	EH211029	1_F03_PL-C	PUT-155a-Zea_mays-07319	NP_001066929.1 Unknown function [O. sativa]	Unknown
Pericycle	43580657	EH211036	1_A08_PL-D	PUT-155a-Zea_mays-0701	No database hit	Unknown
Pericycle	43580719	EH211098	1_G08_PL-E	PUT-155a-Zea_mays-06842	NP_001051800.1 Unknown function [O. sativa]	Unknown
Pericycle	43580683	EH211062	PF-E6	PUT-155a-Zea_mays-06630	No database hit	Unknown
Pericycle	43580755	EH211134	PFC-G1	PUT-155a-Zea_mays-063554	No database hit	Unknown
Pericycle	43580756	EH211135	PFB-C3	PUT-155a-Zea_mays-05657	No database hit	Unknown
Pericycle	43580613	EH210992	1_E02_PL-B	PUT-155a-Zea_mays-05221	No database hit	Unknown
Pericycle	43580615	EH210994	1_C11_PL-B	PUT-155a-Zea_mays-04176	No database hit	Unknown
Pericycle	43580927	EH211306	Peri-Hh06.R	PUT-155a-Zea_mays-03841	NP_001043640.1 Unknown function [O. sativa]	Unknown
Pericycle	43580641	EH211020	1_A03_PL-C	PUT-155a-Zea_mays-03195	NP_001060636.1 Unknown function [O. sativa]	Unknown
Pericycle	43580798	EH211177	Peri-G-c1-R	PUT-155a-Zea_mays-030503	No database hit	Unknown
Pericycle	43580629	EH211008	1_H09_PL-B	PUT-155a-Zea_mays-02802	CAE03449.1 Unknown function [O. sativa]	Unknown
Pericycle	43580697	EH211076	1_A08_PL-E	PUT-155a-Zea_mays-02420	No database hit	Unknown
Pericycle	43580763	EH211142	PFC-B1	PUT-155a-Zea_mays-020773	ZP_01633157.1 Unknown function [C. difficile]	Unknown
Pericycle	43580773	EH211152	PFC-C2	PUT-155a-Zea_mays-019635	NP_001065314.1 Unknown function [O. sativa]	Unknown
Pericycle	43580648	EH211027	1_A09_PL-C	PUT-155a-Zea_mays-018281	BAD22765.1 Glycoprotein [B. inermis]	Unknown
Pericycle	43580567	EH210946	1_B01_PL-A	PUT-155a-Zea_mays-018281	BAD22765.1 Glycoprotein [B. inermis]	Unknown
Pericycle	43580836	EH211215	Peri-Ha07.R	PUT-155a-Zea_mays-017288	No database hit	Unknown
Pericycle	43580552	EH210931	1_G06_PL-A	PUT-155a-Zea_mays-017072	BAD44882.1 Unknown function [O. sativa]	Unknown
Pericycle	43580656	EH211035	1_H01_PL-C	PUT-155a-Zea_mays-017072	BAD44882.1 Unknown function [O. sativa]	Unknown
Pericycle	43580578	EH210957	1_G08_PL-A	PUT-155a-Zea_mays-016373	AAM93675.1 Glycine-rich protein [O. sativa]	Unknown
Pericycle	43580668	EH211047	1_D08_PL-D	PUT-155a-Zea_mays-015723	NP_001043744.1 Unknown [O. sativa]	Unknown
Pericycle	43580797	EH211176	PFC-F6	PUT-155a-Zea_mays-014124	NP_001048570.1 Unknown function [O. sativa]	Unknown
Pericycle	43580805	EH211184	PFC-H3	PUT-155a-Zea_mays-013439	NP_176022.2 Unknown function [A. thaliana]	Unknown
Pericycle	43580605	EH210984	1_A08_PL-B	PUT-155a-Zea_mays-011608	NP_001064627.1 Unknown function [O. sativa]	Unknown
Pericycle	43580573	EH210952	1_B06_PL-B	PUT-155a-Zea_mays-011507	NP_001043982.1 Unknown function [O. sativa]	Unknown
Pericycle	43580860	EH211239	Peri-Ha03.R	PUT-155a-Zea_mays-011463	No database hit	Unknown
Pericycle	43580583	EH210962	1_F07_PL-A	PUT-155a-Zea_mays-01051	AAK52550.1 Unknown protein [O. sativa]	Unknown
Pericycle	43580893	EH211272	Peri-Hd10.R	MAGI4_35862	No database hit	Unknown
Pericycle	43580738	EH211117	PF-G9	MAGI4_35862	No database hit	Unknown
Pericycle	43580899	EH211278	Peri-Hd11.R	MAGI4_29603	No database hit	Unknown
Pericycle	43580682	EH211061	1_B02_PL-E	MAGI4_137119	No database hit	Unknown
Pericycle	43580626	EH211005	1_B12_PL-C	MAGI4_123659	No database hit	Unknown
Pericycle	43580708	EH211087	1_H11_PL-E	contig2	No database hit	Unknown
Pericycle	43580910	EH211289	Peri-Hf11.R	contig2	No database hit	Unknown
Pericycle	43580733	EH211112	PF-D2	-	AAN77150.1 Fiber protein Fb11 [G. barbadense]	Unknown
Pericycle	43580598	EH210977	1_A01_PL-B	-	No database hit	Unknown
Pericycle	43580558	EH210937	1_E09_PL-A	-	No database hit	Unknown
Pericycle	43580680	EH211059	1_F09_PL-D	-	No database hit	Unknown
Pericycle	43580640	EH211019	1_H04_PL-B	-	No database hit	Unknown
Pericycle	43580739	EH211118	Peri-G-a1-R	-	No database hit	Unknown

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Pericycle	43580811	EH211190	Peri-G-a4-R	-	No database hit	Unknown
Pericycle	43580810	EH211189	Peri-G-a6-R	-	No database hit	Unknown
Pericycle	43580807	EH211186	Peri-G-c4-R	-	NP_001044987.1 Unknown function [O. sativa]	Unknown
Pericycle	43580829	EH211208	Peri-G-c5-R	-	No database hit	Unknown
Pericycle	43580832	EH211211	Peri-G-d5-R	-	No database hit	Unknown
Pericycle	43580833	EH211212	Peri-G-d8-R	-	No database hit	Unknown
Pericycle	43580835	EH211214	Peri-G-e3-R	-	NP_001047467.1 Unknown function [O. sativa]	Unknown
Pericycle	43580822	EH211201	Peri-G-e6-R	-	No database hit	Unknown
Pericycle	43580839	EH211218	Peri-G-f1-R	-	NP_001042646.1 Unknown function [O. sativa]	Unknown
Pericycle	43580820	EH211199	Peri-G-f3-R	-	NP_001045981.1 Unknown function [O. sativa]	Unknown
Pericycle	43580847	EH211226	Peri-G-f5-R	-	No database hit	Unknown
Pericycle	43580857	EH211236	Peri-G-h5-R	-	NP_001062839.1 Unknown function [O. sativa]	Unknown
Pericycle	43580853	EH211232	Peri-G-h6-R	-	No database hit	Unknown
Pericycle	43580887	EH211266	Peri-Hd05.R	-	No database hit	Unknown
Pericycle	43580901	EH211280	Peri-He04.R	-	BAE98425.1 Unknown function [A. thaliana]	Unknown
Pericycle	43580896	EH211275	Peri-He05.R	-	YP_358637.1 Unknown function [P. aphrodite]	Unknown
Pericycle	43580914	EH211293	Peri-Hg05.R	-	No database hit	Unknown
Pericycle	43580727	EH211106	PF-A11	-	No database hit	Unknown
Pericycle	43580746	EH211125	PFB-A12	-	No database hit	Unknown
Pericycle	43580779	EH211158	PFB-G12	-	BAD07869.1 Unknown function [O. sativa]	Unknown
Pericycle	43580783	EH211162	PFB-H8	-	No database hit	Unknown
Pericycle	43580702	EH211081	PF-C10	-	No database hit	Unknown
Pericycle	43580784	EH211163	PFC-G2	-	No database hit	Unknown
Pericycle	43580759	EH211138	PF-H3	-	No database hit	Unknown
Pericycle	43580827	EH211206	Peri-Hf01.R	-	No database hit	Unknown
Non-pericycle	43580387	EH210766	ZZ-Ca04.r	PUT-155a-Zea_mays-51568	BAD25681.1 DnaJ-like protein MsJ1 [O. sativa]	Cell cycle
Non-pericycle	43580353	EH210732	ZZ-Be10.r	PUT-155a-Zea_mays-26897	AAT09201.1 skp1 protein [O. sativa]	Cell cycle
Non-pericycle	43580252	EH210631	ZAc10.R	PUT-155a-Zea_mays-95377737	CAE52515.1 Alpha tubulin [S. viridis]	Cell fate
Non-pericycle	43580269	EH210648	ZAe05.R	PUT-155a-Zea_mays-82777735	ABE83243.1 Ribophorin I [M. truncatula]	Cell fate
Non-pericycle	43580517	EH210896	ZZ-De11.r	PUT-155a-Zea_mays-75806	Q8H6A5 Translationally-controlled tumor protein homolog [Z. mays]	Cell fate
Non-pericycle	43580417	EH210796	ZZ-Cd06.r	PUT-155a-Zea_mays-73697	JC2511 Beta-tubulin R2242 [O. sativa]	Cell fate
Non-pericycle	43580230	EH210609	ZAg10.R	PUT-155a-Zea_mays-63590	ABF99200.1 Actin-related protein 7 [O. sativa]	Cell fate
Non-pericycle	43580306	EH210685	ZAh08.R	PUT-155a-Zea_mays-61254	Q41764 Actin-depolymerizing factor 3 [Z. mays]	Cell fate
Non-pericycle	43580469	EH210848	ZZ-Da03.r	PUT-155a-Zea_mays-61254	Q41764 Actin-depolymerizing factor 3 [Z. mays]	Cell fate
Non-pericycle	43580482	EH210861	ZZ-Db04.r	PUT-155a-Zea_mays-53591	AAD23407.1 Actin depolymerizing factor [Populus x canadensis]	Cell fate
Non-pericycle	43580264	EH210643	ZAd10.R	PUT-155a-Zea_mays-5122	ABF94073.1 YT521-B-like family protein [O. sativa]	Cell fate
Non-pericycle	43580310	EH210689	ZZ-Bc03.r	PUT-155a-Zea_mays-43369	P22275 Alpha-3 tubulin [Z. mays]	Cell fate
Non-pericycle	43580357	EH210736	ZZ-Bf06.r	PUT-155a-Zea_mays-17777742	AAV31120.1 Senescence-associated protein DH [Z. mays]	Cell fate
Non-pericycle	43580256	EH210635	ZAd03.R	PUT-155a-Zea_mays-13877740	P14641 Tubulin alpha-2 chain [Z. mays]	Cell fate
Non-pericycle	43580239	EH210618	ZAb01.R	PUT-155a-Zea_mays-13777740	O22347 Tubulin alpha-1 [E. indica]	Cell fate
Non-pericycle	43580458	EH210837	ZZ-Cg08.r	PUT-155a-Zea_mays-13777740	O22347 Tubulin alpha-1 [E. indica]	Cell fate
Non-pericycle	43580247	EH210626	ZAc04.R	PUT-155a-Zea_mays-013087	AAG10041.1 Actin [S. italica]	Cell fate
Non-pericycle	43580294	EH210673	ZZ-Bc12.r	PUT-155a-Zea_mays-95577739	AAV88601.1 Low temperature and salt responsive protein [P. glaucum]	Disease/defense
Non-pericycle	43580454	EH210833	ZZ-Ch06.r	PUT-155a-Zea_mays-95577739	AAV88601.1 Low temperature and salt responsive protein [P. glaucum]	Disease/defense

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Non-pericycle	43580470	EH210849	ZZ-Da09.r	PUT-155a-Zea_mays-95577739	AAV88601.1 Low temperature and salt responsive protein [P. glaucum]	Disease/defense
Non-pericycle	43580407	EH210786	ZZ-Cb11.r	PUT-155a-Zea_mays-88177735	AAZ79357.1 Ascorbate peroxidase [V. pseudoreticulata]	Disease/defense
Non-pericycle	43580324	EH210703	ZZ-Bb06.r	PUT-155a-Zea_mays-83877736	BAB68268.1 Drought inducible 22 kD protein [S. officinarum]	Disease/defense
Non-pericycle	43580270	EH210649	ZAh06.R	PUT-155a-Zea_mays-82	AAC49975.1 Able to induce HR-like lesions [N. tabacum]	Disease/defense
Non-pericycle	43580316	EH210695	ZZ-Ba12.r	PUT-155a-Zea_mays-82	AAC49975.1 Able to induce HR-like lesions [N. tabacum]	Disease/defense
Non-pericycle	43580438	EH210817	ZZ-Cf01.r	PUT-155a-Zea_mays-74177735	AAZ79357.1 Ascorbate peroxidase [V. pseudoreticulata]	Disease/defense
Non-pericycle	43580254	EH210633	ZAf03.R	PUT-155a-Zea_mays-67778	AAM63750.1 pop3 peptide [A. thaliana]	Disease/defense
Non-pericycle	43580303	EH210682	ZZ-Ba01.r	PUT-155a-Zea_mays-67777743	AAC78473.1 Thioredoxin peroxidase [S. cereale]	Disease/defense
Non-pericycle	43580490	EH210869	ZZ-Dc05.r	PUT-155a-Zea_mays-66190	AAY26392.1 Salt tolerant protein [T. aestivum]	Disease/defense
Non-pericycle	43580479	EH210858	ZZ-Db01.r	PUT-155a-Zea_mays-61789	AAO17017.1 Heat shock 70 KD protein [O. sativa]	Disease/defense
Non-pericycle	43580293	EH210672	ZAh12.R	PUT-155a-Zea_mays-38477738	P12653 Glutathione S-transferase I [Z. mays]	Disease/defense
Non-pericycle	43580415	EH210794	ZZ-Cc09.r	PUT-155a-Zea_mays-38477738	P12653 Glutathione S-transferase I [Z. mays]	Disease/defense
Non-pericycle	43580522	EH210901	ZZ-De03.r	PUT-155a-Zea_mays-38477738	P12653 Glutathione S-transferase I [Z. mays]	Disease/defense
Non-pericycle	43580516	EH210895	ZZ-De12.r	PUT-155a-Zea_mays-38477738	P12653 Glutathione S-transferase I [Z. mays]	Disease/defense
Non-pericycle	43580274	EH210653	ZAe08.R	PUT-155a-Zea_mays-35019	AAG34830.1 Glutathione S-transferase GST 22 [Z. mays]	Disease/defense
Non-pericycle	43580504	EH210883	ZZ-Dd06.r	PUT-155a-Zea_mays-27577741	NP_187709.2 SAG20 [A. thaliana]	Disease/defense
Non-pericycle	43580376	EH210755	ZZ-Bg10.r	PUT-155a-Zea_mays-122177737	CAA47948.2 Heat shock protein 70 [O. sativa]	Disease/defense
Non-pericycle	43580426	EH210805	ZZ-Ce02.r	PUT-155a-Zea_mays-111977744	P33126 Heat shock protein 81-1 [O. sativa]	Disease/defense
Non-pericycle	43580382	EH210761	ZZ-Bh05.r	PUT-155a-Zea_mays-10577735	AAA96137.1 Peroxidase [S. humilis]	Disease/defense
Non-pericycle	43580283	EH210662	ZAf04.R	PUT-155a-Zea_mays-10347	AAM28296.1 Peroxidase [A. comosus]	Disease/defense
Non-pericycle	43580548	EH210927	ZZ-Dh06.r	PUT-155a-Zea_mays-10347	AAM28296.1 Peroxidase [A. comosus]	Disease/defense
Non-pericycle	43580232	EH210611	ZAa08.R	PUT-155a-Zea_mays-046682	Q9ARD5 Low temperature-induced protein It101.2 [H. vulgare]	Disease/defense
Non-pericycle	43580456	EH210835	ZZ-Cg10.r	-	ABE79560.1 Heat shock protein Hsp70 [M. truncatula]	Disease/defense
Non-pericycle	43580262	EH210641	ZAe03.R	PUT-155a-Zea_mays-74717	AAA33466.1 Glyceraldehyde-3-phosphate dehydrogenase [Z. mays]	Energy
Non-pericycle	43580528	EH210907	ZZ-Df03.r	PUT-155a-Zea_mays-74448	AAA87580.1 Glyceraldehyde-3-phosphate dehydrogenase GAPC4 [Z. mays]	Energy
Non-pericycle	43580444	EH210823	ZZ-Cf03.r	PUT-155a-Zea_mays-52335	BAD08451.1 Glucose-6-phosphate isomerase [O. sativa]	Energy
Non-pericycle	43580344	EH210723	ZZ-Bd11.r	PUT-155a-Zea_mays-40674	NP_192171.1 Hydrogen-transporting ATP synthase [A. thaliana]	Energy
Non-pericycle	43580380	EH210759	ZZ-Ca03.r	PUT-155a-Zea_mays-37377736	CAA53366.1 Cytochrome b5 [O. sativa]	Energy
Non-pericycle	43580525	EH210904	ZZ-Df05.r	PUT-155a-Zea_mays-33497	P19023 ATP synthase subunit beta [Z. mays]	Energy
Non-pericycle	43580281	EH210660	ZAf11.R	PUT-155a-Zea_mays-24404	Q41898 ATP synthase epsilon chain [Z. mays]	Energy
Non-pericycle	43580511	EH210890	ZZ-Dd11.r	PUT-155a-Zea_mays-24404	Q41898 ATP synthase epsilon chain [Z. mays]	Energy
Non-pericycle	43580258	EH210637	ZAd07.R	PUT-155a-Zea_mays-082734	ABE92785.1 Photosynthetic reaction center, H-chain [M. truncatula]	Energy
Non-pericycle	43580391	EH210770	ZZ-Ca10.r	PUT-155a-Zea_mays-082734	ABE92785.1 Photosynthetic reaction center, H-chain [M. truncatula]	Energy
Non-pericycle	43580393	EH210772	ZZ-Cb04.r	PUT-155a-Zea_mays-082734	ABE92785.1 Photosynthetic reaction center, H-chain [M. truncatula]	Energy
Non-pericycle	43580446	EH210825	ZZ-Cf05.r	PUT-155a-Zea_mays-082734	ABE92785.1 Photosynthetic reaction center, H-chain [M. truncatula]	Energy
Non-pericycle	43580493	EH210872	ZZ-Db10.r	PUT-155a-Zea_mays-019531	YP_588313.1 ATPase subunit 4 [Z. mays]	Energy
Non-pericycle	43580413	EH210792	ZZ-Cc05.r	PUT-155a-Zea_mays-019483	YP_588313.1 ATPase subunit 4 [Z. mays]	Energy
Non-pericycle	43580341	EH210720	ZZ-Bd05.r	PUT-155a-Zea_mays-014006	Q40078 Vacuolar ATP synthase subunit B isoform 1 [H. vulgare]	Energy
Non-pericycle	43580237	EH210616	ZAb08.R	-	NP_195496.1 Cytochrome-c oxidase [A. thaliana]	Energy
Non-pericycle	43580261	EH210640	ZAd05.R	-	BAB21526.1 ATP synthase 6 KD subunit [O. sativa]	Energy
Non-pericycle	43580375	EH210754	ZZ-Bg07.r	PUT-155a-Zea_mays-98877737	AAC27703.1 Putative cytosolic 6-phosphogluconate dehydrogenase [Z. mays]	Metabolism
Non-pericycle	43580450	EH210829	ZZ-Ch11.r	PUT-155a-Zea_mays-90177744	NP_180811.1 Hydrolase [A. thaliana]	Metabolism
Non-pericycle	43580358	EH210737	ZZ-Bh06.r	PUT-155a-Zea_mays-86777744	BAD35388.1 HGA4 [O. sativa]	Metabolism
Non-pericycle	43580519	EH210898	ZZ-Df02.r	PUT-155a-Zea_mays-8200	ABA94670.2 Acyl-coenzyme A oxidase 2 [O. sativa]	Metabolism

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Non-pericycle	43580410	EH210789	ZZ-Cc10.r	PUT-155a-Zea_mays-79977738	ABI95399.1 Fasciclin-like protein FLA9 [T. aestivum]	Metabolism
Non-pericycle	43580267	EH210646	ZAe02.R	PUT-155a-Zea_mays-77377739	O24575 S-adenosylmethionine decarboxylase proenzyme [Z. mays]	Metabolism
Non-pericycle	43580314	EH210693	ZZ-Ba05.r	PUT-155a-Zea_mays-76541	AAF98579.1 Contains similarity to PIR7A protein [A. thaliana]	Metabolism
Non-pericycle	43580337	EH210716	ZZ-Bd06.r	PUT-155a-Zea_mays-75424	CAI30071.1 Glycosyltransferase [T. aestivum]	Metabolism
Non-pericycle	43580248	EH210627	ZAa02.R	PUT-155a-Zea_mays-75014	P04712 Sucrose synthase 1 [Z. mays]	Metabolism
Non-pericycle	43580503	EH210882	ZZ-Dd03.r	PUT-155a-Zea_mays-70713	CAJ44304.1 Soluble inorganic pyrophosphatase [P. rheas]	Metabolism
Non-pericycle	43580537	EH210916	ZZ-Dg03.r	PUT-155a-Zea_mays-70077737	AAT70230.1 Betaine aldehyde dehydrogenase [Z. mays]	Metabolism
Non-pericycle	43580478	EH210857	ZZ-Db06.r	PUT-155a-Zea_mays-66910	AAF89962.1 Cellulose synthase-2 [Z. mays]	Metabolism
Non-pericycle	43580309	EH210688	ZZ-Bg09.r	PUT-155a-Zea_mays-66077744	AAU10802.1 Endo-1,3;1,4-beta-D-glucanase' [O. sativa]	Metabolism
Non-pericycle	43580532	EH210911	ZZ-Df10.r	PUT-155a-Zea_mays-65877735	P08440 Fructose-bisphosphate aldolase [Z. mays]	Metabolism
Non-pericycle	43580253	EH210632	ZAe10.R	PUT-155a-Zea_mays-65444	AAP37879.1 Caffeoyl CoA 3-O-methyltransferase [Z. mays]	Metabolism
Non-pericycle	43580308	EH210687	ZZ-Ba07.r	PUT-155a-Zea_mays-64264	ABA97575.2 Serine hydroxymethyltransferase [O. sativa]	Metabolism
Non-pericycle	43580411	EH210790	ZZ-Cc01.r	PUT-155a-Zea_mays-64116	BAB08003.1 Adenine phosphoribosyltransferase [H. vulgare]	Metabolism
Non-pericycle	43580518	EH210897	ZZ-Df09.r	PUT-155a-Zea_mays-6177739	AAO26315.1 6-phosphogluconolactonase [E. guineensis]	Metabolism
Non-pericycle	43580228	EH210607	ZAd01.R	PUT-155a-Zea_mays-59926	AAF76207.1 Lipoxygenase [Z. mays]	Metabolism
Non-pericycle	43580443	EH210822	ZZ-Cf09.r	PUT-155a-Zea_mays-59924	AAF76207.1 Lipoxygenase [Z. mays]	Metabolism
Non-pericycle	43580471	EH210850	ZZ-Da06.r	PUT-155a-Zea_mays-59677742	CAC14890.1 d-TDP-glucose dehydratase [P. australis]	Metabolism
Non-pericycle	43580527	EH210906	ZZ-Df01.r	PUT-155a-Zea_mays-58977738	CAA11391.1 Phytase [Z. mays]	Metabolism
Non-pericycle	43580459	EH210838	ZZ-Cg11.r	PUT-155a-Zea_mays-58877741	P49076 ADP-ribosylation factor [Z. mays]	Metabolism
Non-pericycle	43580290	EH210669	ZAg05.R	PUT-155a-Zea_mays-57135	P48502 Ubiquinol-cytochrome c reductase complex 14 kDa prot. [S. tuberosum]	Metabolism
Non-pericycle	43580319	EH210698	ZZ-Bc01.r	PUT-155a-Zea_mays-53085	AAL73524.1 Tryptophan synthase beta-subunit [S. bicolor]	Metabolism
Non-pericycle	43580389	EH210768	ZZ-Ca12.r	PUT-155a-Zea_mays-51377744	NP_567970.1 Catalytic/ oxidoreductase, acting on NADH or NADPH [A. thaliana]	Metabolism
Non-pericycle	43580534	EH210913	ZZ-Df12.r	PUT-155a-Zea_mays-51327	ABG34279.1 Polygalacturonase [E. globulus]	Metabolism
Non-pericycle	43580370	EH210749	ZZ-Cb09.r	PUT-155a-Zea_mays-50666	BAD27711.1 Citrate synthase, glyoxysomal precursor [O. sativa]	Metabolism
Non-pericycle	43580405	EH210784	ZZ-Cd02.r	PUT-155a-Zea_mays-49500	AAK20055.1 Cellulase [O. sativa]	Metabolism
Non-pericycle	43580367	EH210746	ZZ-Bf07.r	PUT-155a-Zea_mays-49090	AAQ55458.1 NADH:ubiquinone oxidoreductase 39 kDa subunit [C. reinhardtii]	Metabolism
Non-pericycle	43580271	EH210650	ZAf06.R	PUT-155a-Zea_mays-48261	BAA28170.1 Phosphoenolpyruvate carboxylase [Z. mays]	Metabolism
Non-pericycle	43580342	EH210721	ZZ-Bd03.r	PUT-155a-Zea_mays-47977737	BAD33246.1 PPI-fructose 6-phosphate 1-phosphotransferase [O. sativa]	Metabolism
Non-pericycle	43580451	EH210830	ZZ-Cg02.r	PUT-155a-Zea_mays-44977744	ABK51382.1 H+-translocating pyrophosphatase [Z. mays]	Metabolism
Non-pericycle	43580257	EH210636	ZAc11.R	PUT-155a-Zea_mays-44885	CAI44139.1 Xyloglucan endo-transglycosylase/hydrolase [Z. mays]	Metabolism
Non-pericycle	43580280	EH210659	ZAg04.R	PUT-155a-Zea_mays-39801	CAI93185.1 Glycosyltransferase [Z. mays]	Metabolism
Non-pericycle	43580347	EH210726	ZZ-Be09.r	PUT-155a-Zea_mays-36100	CAC14890.1 d-TDP-glucose dehydratase [P. australis]	Metabolism
Non-pericycle	43580364	EH210743	ZZ-Bf05.r	PUT-155a-Zea_mays-34748	ABI95416.1 Fasciclin-like protein FLA26 [T. aestivum]	Metabolism
Non-pericycle	43580476	EH210855	ZZ-Da07.r	PUT-155a-Zea_mays-30601	AAO62313.1 UDP-glucose dehydrogenase [C. esculenta]	Metabolism
Non-pericycle	43580486	EH210865	ZZ-Dc02.r	PUT-155a-Zea_mays-28856	P26301 2-phosphoglycerate dehydratase 1 [Z. mays]	Metabolism
Non-pericycle	43580520	EH210899	ZZ-De07.r	PUT-155a-Zea_mays-26557	AAF37733.1 4-coumarate--CoA ligase 4CL2 [L. perenne]	Metabolism
Non-pericycle	43580420	EH210799	ZZ-Cg09.r	PUT-155a-Zea_mays-22419	P93804 Glucose phosphomutase 1 [Z. mays]	Metabolism
Non-pericycle	43580331	EH210710	ZZ-Bd10.r	PUT-155a-Zea_mays-16377742	CAJ01702.1 AdoMet synthase 1 [H. vulgare]	Metabolism
Non-pericycle	43580340	EH210719	ZZ-Bf04.r	PUT-155a-Zea_mays-16377742	CAJ01702.1 AdoMet synthase 1 [H. vulgare]	Metabolism
Non-pericycle	43580535	EH210914	ZZ-Dh11.r	PUT-155a-Zea_mays-14623	NP_177543.1 Phosphopyruvate hydratase [A. thaliana]	Metabolism
Non-pericycle	43580349	EH210728	ZZ-Bf08.r	PUT-155a-Zea_mays-11377741	BAD86939.1 Pyrophosphate-dependent phosphofructo-1-kinase [O. sativa]	Metabolism
Non-pericycle	43580408	EH210787	ZZ-Cc06.r	PUT-155a-Zea_mays-11377741	BAD86939.1 Pyrophosphate-dependent phosphofructo-1-kinase [O. sativa]	Metabolism
Non-pericycle	43580547	EH210926	ZZ-Dh05.r	PUT-155a-Zea_mays-110177738	P93554 Nucleoside diphosphate kinase 1 [S. officinarum]	Metabolism
Non-pericycle	43580441	EH210820	ZZ-Ce11.r	PUT-155a-Zea_mays-109277739	P93554 Nucleoside diphosphate kinase 1 [S. officinarum]	Metabolism

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Non-pericycle	43580300	EH210679	ZAh09.R	PUT-155a-Zea_mays-10177741	NP_565186.2 Catalytic/ gamma-glutamyl hydrolase [A. thaliana]	Metabolism
Non-pericycle	43580242	EH210621	ZAe01.R	PUT-155a-Zea_mays-092511	AAP06752.1 Vacuolar proton-inorganic pyrophosphatase [H. brevisubulatum]	Metabolism
Non-pericycle	43580498	EH210877	ZZ-Dc11.r	PUT-155a-Zea_mays-014312	AAP80640.1 Succinate dehydrogenase subunit 3 [T. aestivum]	Metabolism
Non-pericycle	43580402	EH210781	ZZ-Cb02.r	PUT-155a-Zea_mays-97377743	AAZ20285.1 Ubiquitin fusion protein [A. hypogaea]	Protein fate
Non-pericycle	43580369	EH210748	ZZ-Bg05.r	PUT-155a-Zea_mays-6977737	O22655 Profilin-4 [Z. mays]	Protein fate
Non-pericycle	43580351	EH210730	ZZ-Be04.r	PUT-155a-Zea_mays-6924	P20973 Ubiquitin-activating enzyme E1 [T. aestivum]	Protein fate
Non-pericycle	43580515	EH210894	ZZ-De01.r	PUT-155a-Zea_mays-6924	P20973 Ubiquitin-activating enzyme E1 [T. aestivum]	Protein fate
Non-pericycle	43580492	EH210871	ZZ-Db12.r	PUT-155a-Zea_mays-68422	BAD53635.1 F-box family protein-like [O. sativa]	Protein fate
Non-pericycle	43580424	EH210803	ZZ-Ce04.r	PUT-155a-Zea_mays-68160	AAL35400.1 Ubiquitin conjugating enzyme 2 [Z. mays]	Protein fate
Non-pericycle	43580378	EH210757	ZZ-Bh12.r	PUT-155a-Zea_mays-58677742	AAC49014.1 Ubiquitin [Z. mays]	Protein fate
Non-pericycle	43580345	EH210724	ZZ-Bd08.r	PUT-155a-Zea_mays-52876	NP_189124.1 prt1 - ubiquitin-protein ligase [A. thaliana]	Protein fate
Non-pericycle	43580508	EH210887	ZZ-Df04.r	PUT-155a-Zea_mays-42022	NP_043005.1 Maturase [Z. mays]	Protein fate
Non-pericycle	43580276	EH210655	ZZ-Ba02.r	PUT-155a-Zea_mays-37130	BAA96838.1 Beta 5 subunit of 20S proteasome [O. sativa]	Protein fate
Non-pericycle	43580323	EH210702	ZZ-Bb02.r	PUT-155a-Zea_mays-37130	[BAA96838.1] beta 5 subunit of 20S proteasome [O. sativa]	Protein fate
Non-pericycle	43580332	EH210711	ZZ-Be01.r	PUT-155a-Zea_mays-36677736	CAC37797.1 BAX inhibitor 1 [H. vulgare]	Protein fate
Non-pericycle	43580384	EH210763	ZZ-Cb10.r	PUT-155a-Zea_mays-31048	AAB63591.1 10 kDa chaperonin [O. sativa]	Protein fate
Non-pericycle	43580352	EH210731	ZZ-Be06.r	PUT-155a-Zea_mays-26710	ABE83180.1 Ubiquitin-conjugating enzyme, E2 [M. truncatula]	Protein fate
Non-pericycle	43580524	EH210903	ZZ-De04.r	PUT-155a-Zea_mays-097512	AAK13589.1 rRNA intron-encoded homing endonuclease [O. sativa]	Protein fate
Non-pericycle	43580327	EH210706	ZZ-Bc07.r	PUT-155a-Zea_mays-066008	NP_189124.1 PRT1 ubiquitin-protein ligase [A. thaliana]	Protein fate
Non-pericycle	43580227	EH210606	ZAa01.R	PUT-155a-Zea_mays-05085	CAA05772.1 Ubiquitin carrier protein [Z. mays]	Protein fate
Non-pericycle	43580243	EH210622	ZAa05.R	PUT-155a-Zea_mays-017038	NP_174210.1 19S Proteasome subunit 9 [A. thaliana]	Protein fate
Non-pericycle	43580301	EH210680	ZAh03.R	PUT-155a-Zea_mays-017038	NP_174210.1 19S Proteasome subunit 9 [A. thaliana]	Protein fate
Non-pericycle	43580429	EH210808	ZZ-Cd12.r	PUT-155a-Zea_mays-016013	O04725 Profilin [C. dactylon]	Protein fate
Non-pericycle	43580437	EH210816	ZZ-Cf10.r	PUT-155a-Zea_mays-016013	O04725 Profilin [C. dactylon]	Protein fate
Non-pericycle	43580434	EH210813	ZZ-Ce08.r	PUT-155a-Zea_mays-016012	O04725 Profilin [C. dactylon]	Protein fate
Non-pericycle	43580289	EH210668	ZZ-Bb07.r	MAGI4_16645	ABE84625.1 t-snare; Protein kinase PKN/PRK1, effector [M. sativa]	Protein fate
Non-pericycle	43580231	EH210610	ZAc05.R	-	AAB82138.1 Proteasome component [O. sativa]	Protein fate
Non-pericycle	43580431	EH210810	ZZ-Cf06.r	PUT-155a-Zea_mays-86477744	ABA94602.1 40S ribosomal protein S9 [O. sativa]	Protein synthesis
Non-pericycle	43580414	EH210793	ZZ-Cc04.r	PUT-155a-Zea_mays-7680	NP_191121.1 Translation initiation factor [A. thaliana]	Protein synthesis
Non-pericycle	43580475	EH210854	ZZ-Dc08.r	PUT-155a-Zea_mays-75340	O24573 60S acidic ribosomal protein P0 [Z. mays]	Protein synthesis
Non-pericycle	43580462	EH210841	ZZ-Ch10.r	PUT-155a-Zea_mays-74789	P56330 Protein translation factor SU1 [Z. mays]	Protein synthesis
Non-pericycle	43580544	EH210923	ZZ-Dg12.r	PUT-155a-Zea_mays-64471	P19950 40S ribosomal protein S14 [Z. mays]	Protein synthesis
Non-pericycle	43580428	EH210807	ZZ-Ce06.r	PUT-155a-Zea_mays-45455	ABK34475.1 Initiation factor 3e [O. sativa]	Protein synthesis
Non-pericycle	43580439	EH210818	ZZ-Ce09.r	PUT-155a-Zea_mays-41077738	NP_001030985.1 Structural constituent of ribosome [A. thaliana]	Protein synthesis
Non-pericycle	43580246	EH210625	ZAa04.R	PUT-155a-Zea_mays-40577735	O48557 60S ribosomal protein L17 [Z. mays]	Protein synthesis
Non-pericycle	43580409	EH210788	ZZ-Cb12.r	PUT-155a-Zea_mays-29077744	AAM47582.1 60S ribosomal protein [S. bicolor]	Protein synthesis
Non-pericycle	43580363	EH210742	ZZ-Bg03.r	PUT-155a-Zea_mays-2611	AAF42977.1 Elongation factor 1 alpha [Z. mays]	Protein synthesis
Non-pericycle	43580395	EH210774	ZZ-Ca06.r	PUT-155a-Zea_mays-18348	AAC97381.1 40S ribosomal protein S27 homolog [Z. mays]	Protein synthesis
Non-pericycle	43580507	EH210886	ZZ-Dd05.r	PUT-155a-Zea_mays-18348	AAC97381.1 40S ribosomal protein S27 homolog [Z. mays]	Protein synthesis
Non-pericycle	43580263	EH210642	ZAd08.R	PUT-155a-Zea_mays-14777741	AAT08750.1 Ribosomal protein L7 [H. orientalis]	Protein synthesis
Non-pericycle	43580343	EH210722	ZZ-Be03.r	PUT-155a-Zea_mays-127877743	AAW50989.1 Ribosomal protein L7 [T. aestivum]	Protein synthesis
Non-pericycle	43580278	EH210657	ZAg06.R	PUT-155a-Zea_mays-120277744	O48557 60S ribosomal protein L17 [Z. mays]	Protein synthesis
Non-pericycle	43580287	EH210666	ZZ-Bc06.r	PUT-155a-Zea_mays-120277744	O48557 60S ribosomal protein L17 [Z. mays]	Protein synthesis
Non-pericycle	43580383	EH210762	ZZ-Bh07.r	PUT-155a-Zea_mays-120277744	O48557 60S ribosomal protein L17 [Z. mays]	Protein synthesis

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Non-pericycle	43580485	EH210864	ZZ-Db08.r	PUT-155a-Zea_mays-120277744	O48557 60S ribosomal protein L17 [Z. mays]	Protein synthesis
Non-pericycle	43580255	EH210634	ZAe04.R	PUT-155a-Zea_mays-115677741	AAR15081.1 Translational elongation factor 1 subunit beta [P. sativum]	Protein synthesis
Non-pericycle	43580510	EH210889	ZZ-Dd12.r	PUT-155a-Zea_mays-115677741	AAR15081.1 Translational elongation factor 1 subunit beta [P. sativum]	Protein synthesis
Non-pericycle	43580404	EH210783	ZZ-Cf08.r	PUT-155a-Zea_mays-111777738	BAD09090.1 60S ribosomal protein L10A (RPL10aC) [O. sativa]	Protein synthesis
Non-pericycle	43580295	EH210674	ZAg07.R	PUT-155a-Zea_mays-10289	NP_178360.2 CAND1 [A. thaliana]	Protein synthesis
Non-pericycle	43580292	EH210671	ZAg12.R	PUT-155a-Zea_mays-034056	CAB06653.1 Histidyl tRNA Synthetase [O. sativa]	Protein synthesis
Non-pericycle	43580381	EH210760	ZZ-Bh03.r	PUT-155a-Zea_mays-018036	ABF99104.1 Ribosomal protein S14p/S29e containing protein [O. sativa]	Protein synthesis
Non-pericycle	43580355	EH210734	ZZ-Be07.r	PUT-155a-Zea_mays-74981	BAD21599.1 Nucleolar RNA-binding Nop10p-like protein [O. sativa]	Protein w/ bind. function
Non-pericycle	43580365	EH210744	ZZ-Bg02.r	PUT-155a-Zea_mays-74981	BAD21599.1 Nucleolar RNA-binding Nop10p-like protein [O. sativa]	Protein w/ bind. function
Non-pericycle	43580529	EH210908	ZZ-Dg09.r	PUT-155a-Zea_mays-6273	ABB02636.1 RAD23-like [S. tuberosum]	Protein w/ bind. function
Non-pericycle	43580400	EH210779	ZZ-Cb05.r	PUT-155a-Zea_mays-58586	NP_199342.2 Ubiquitin-protein ligase [A. thaliana]	Protein w/ bind. function
Non-pericycle	43580307	EH210686	ZZ-Ba09.r	PUT-155a-Zea_mays-56077743	P04709 ATP carrier protein 1 [Z. mays]	Protein w/ bind. function
Non-pericycle	43580240	EH210619	ZAc03.R	PUT-155a-Zea_mays-55318	NP_200445.1 Ubiquitin-protein ligase [A. thaliana]	Protein w/ bind. function
Non-pericycle	43580396	EH210775	ZZ-Cb03.r	PUT-155a-Zea_mays-48737	BAD17091.1 Poly(A) binding protein [O. sativa]	Protein w/ bind. function
Non-pericycle	43580315	EH210694	ZZ-Bb04.r	PUT-155a-Zea_mays-38825	NP_564870.1 Metal ion binding [A. thaliana]	Protein w/ bind. function
Non-pericycle	43580505	EH210884	ZZ-Dd02.r	PUT-155a-Zea_mays-38777739	CAB56619.1 Phragmoplastin [N. tabacum]	Protein w/ bind. function
Non-pericycle	43580536	EH210915	ZZ-Dh01.r	PUT-155a-Zea_mays-33018	BAD94469.1 RNA-binding protein [A. thaliana]	Protein w/ bind. function
Non-pericycle	43580279	EH210658	ZAf02.R	PUT-155a-Zea_mays-32663	CAH69231.1 ML domain protein [N. glauca]	Protein w/ bind. function
Non-pericycle	43580449	EH210828	ZZ-Cf07.r	PUT-155a-Zea_mays-3022	BAD46727.1 AML1 [O. sativa]	Protein w/ bind. function
Non-pericycle	43580321	EH210700	ZZ-Bg11.r	PUT-155a-Zea_mays-122477738	BAD09673.1 Histone H2B.2 [O. sativa]	Protein w/ bind. function
Non-pericycle	43580260	EH210639	ZAe06.R	PUT-155a-Zea_mays-109877741	P27347 DNA-binding protein MNB1B (HMG1-like protein) [Z. mays]	Protein w/ bind. function
Non-pericycle	43580386	EH210765	ZZ-Ca02.r	PUT-155a-Zea_mays-109877741	P27347 DNA-binding protein MNB1B (HMG1-like protein) [Z. mays]	Protein w/ bind. function
Non-pericycle	43580491	EH210870	ZZ-Db11.r	PUT-155a-Zea_mays-109877741	P27347 DNA-binding protein MNB1B (HMG1-like protein) [Z. mays]	Protein w/ bind. function
Non-pericycle	43580488	EH210867	ZZ-Dc06.r	PUT-155a-Zea_mays-09612	ABF96021.1 Tetratricopeptide repeat protein 11 [O. sativa]	Protein w/ bind. function
Non-pericycle	43580330	EH210709	ZZ-Bc05.r	PUT-155a-Zea_mays-018211	P49120 Histone H2B.4 [Z. mays]	Protein w/ bind. function
Non-pericycle	43580448	EH210827	ZZ-Cg01.r	PUT-155a-Zea_mays-014511	AAS01974.1 Putative chloroplastic RNA-binding protein [O. sativa]	Protein w/ bind. function
Non-pericycle	43580418	EH210797	ZZ-Cd08.r	PUT-155a-Zea_mays-014178	BAC84637.1 Small nuclear ribonucleoprotein E [O. sativa]	Protein w/ bind. function
Non-pericycle	43580372	EH210751	ZZ-Bh04.r	PUT-155a-Zea_mays-013341	NP_197589.1 ATP binding / protein binding [A. thaliana]	Protein w/ bind. function
Non-pericycle	43580235	EH210614	ZAc12.R	PUT-155a-Zea_mays-96677741	BAD25150.1 Protein kinase 2 [O. sativa]	Signal transduction
Non-pericycle	43580465	EH210844	ZZ-Da01.r	PUT-155a-Zea_mays-9159	NP_177411.1 Calmodulin binding [A. thaliana]	Signal transduction
Non-pericycle	43580455	EH210834	ZZ-Cg03.r	PUT-155a-Zea_mays-7877737	BAD52827.1 Receptor-like protein kinase 1-like [O. sativa]	Signal transduction
Non-pericycle	43580368	EH210747	ZZ-Bf09.r	PUT-155a-Zea_mays-71652	Q40787 Ras-related protein Rab7 [P. ciliare]	Signal transduction
Non-pericycle	43580385	EH210764	ZZ-Bh11.r	PUT-155a-Zea_mays-68664	CAA46150.1 Calmodulin [O. sativa]	Signal transduction
Non-pericycle	43580435	EH210814	ZZ-Ce07.r	PUT-155a-Zea_mays-50652	NP_567984.1 Pantothenate kinase [A. thaliana]	Signal transduction
Non-pericycle	43580521	EH210900	ZZ-De06.r	PUT-155a-Zea_mays-49689	BAB88215.1 Secretory acid phosphatase precursor [O. sativa]	Signal transduction
Non-pericycle	43580523	EH210902	ZZ-De08.r	PUT-155a-Zea_mays-49689	BAB88215.1 Secretory acid phosphatase precursor [O. sativa]	Signal transduction
Non-pericycle	43580440	EH210819	ZZ-Cf04.r	PUT-155a-Zea_mays-30477739	AAQ63461.1 Calmodulin 4 [D. carota]	Signal transduction
Non-pericycle	43580266	EH210645	ZAe09.R	PUT-155a-Zea_mays-20769	BAD46198.1 Finger-containing phosphoinositide kinase-like [O. sativa]	Signal transduction
Non-pericycle	43580436	EH210815	ZZ-Ch02.r	PUT-155a-Zea_mays-12977736	BAD26466.1 Non-phototropic hypocotyl 3 [O. sativa]	Signal transduction
Non-pericycle	43580468	EH210847	ZZ-Da02.r	PUT-155a-Zea_mays-11677740	AAR11450.1 Salt-induced MAP kinase 1 [Z. mays]	Signal transduction
Non-pericycle	43580481	EH210860	ZZ-Db03.r	PUT-155a-Zea_mays-11677740	AAR11450.1 Salt-induced MAP kinase 1 [Z. mays]	Signal transduction
Non-pericycle	43580496	EH210875	ZZ-Dc10.r	PUT-155a-Zea_mays-03444	BAB92346.1 Casein kinase I-like [O. sativa]	Signal transduction
Non-pericycle	43580506	EH210885	ZZ-Dd04.r	PUT-155a-Zea_mays-03444	BAB92346.1 Casein kinase I-like [O. sativa]	Signal transduction
Non-pericycle	43580401	EH210780	ZZ-Cc11.r	PUT-155a-Zea_mays-018188	AAC83393.1 protein kinase ZmMEK1 [Z. mays]	Signal transduction

Cell-type	db_EST ID	Genbank AC	In house ID	Anchoring	AC Function [species]	Functional category
Non-pericycle	43580489	EH210868	ZZ-Dc01.r	PUT-155a-Zea_mays-013537	AAR01743.1 Putative kinase interacting protein [O. sativa]	Signal transduction
Non-pericycle	43580251	EH210630	ZAd06.R	-	Q40787 Ras-related protein Rab7 [P. cilliaris]	Signal transduction
Non-pericycle	43580542	EH210921	ZZ-Dg08.r	-	AAT37528.1 Purple acid phosphatase 3 [S. tuberosum]	Signal transduction
Non-pericycle	43580546	EH210925	ZZ-Dh10.r	-	NP_171800.1 Protein binding / signal transducer [A. thaliana]	Signal transduction
Non-pericycle	43580291	EH210670	ZAg02.R	PUT-155a-Zea_mays-72850	AAX14637.1 Zinc finger protein [Z. mays]	Transcription
Non-pericycle	43580472	EH210851	ZZ-Da08.r	PUT-155a-Zea_mays-66742	AAL50981.1 Zinc finger protein LSD1 [B. oleracea]	Transcription
Non-pericycle	43580302	EH210681	ZAh10.R	PUT-155a-Zea_mays-65005	ABF98871.1 PHD-finger family protein, expressed [O. sativa]	Transcription
Non-pericycle	43580305	EH210684	ZZ-Bd07.r	PUT-155a-Zea_mays-30849	ABA99388.2 CCAAT-box transcription factor complex WHAP5 [O. sativa]	Transcription
Non-pericycle	43580427	EH210806	ZZ-Ce01.r	PUT-155a-Zea_mays-25696	ABF70104.1 DNA-directed RNA polymerase II 8.2 kDa polypept. [M. balbisiana]	Transcription
Non-pericycle	43580399	EH210778	ZZ-Cb07.r	PUT-155a-Zea_mays-17730	NP_188871.1 DNA binding / DNA-directed RNA polymerase [A. thaliana]	Transcription
Non-pericycle	43580473	EH210852	ZZ-Da04.r	PUT-155a-Zea_mays-1771	CAL25342.1 Zinc-binding protein [Platanus x acerifolia]	Transcription
Non-pericycle	43580483	EH210862	ZZ-Db05.r	PUT-155a-Zea_mays-16778	ABB48027.2 Poly polymerase catalytic domain containing protein [O. sativa]	Transcription
Non-pericycle	43580416	EH210795	ZZ-Cc08.r	PUT-155a-Zea_mays-031788	ABE89784.1 RNA polymerase subunit, RPB5 [M. truncatula]	Transcription
Non-pericycle	43580313	EH210692	ZZ-Ba04.r	-	ABA99388.2 CCAAT-box transcription factor complex WHAP5 [O. sativa]	Transcription
Non-pericycle	43580326	EH210705	ZZ-Bc02.r	PUT-155a-Zea_mays-71822	AAC09245.1 Tonoplast intrinsic protein; ZmTIP1 [Z. mays]	Transport
Non-pericycle	43580356	EH210735	ZZ-Bf01.r	PUT-155a-Zea_mays-71750	AAC09245.1 Tonoplast intrinsic protein; ZmTIP1 [Z. mays]	Transport
Non-pericycle	43580467	EH210846	ZZ-Da11.r	PUT-155a-Zea_mays-26157	AAO72686.1 Myosin heavy chain [O. sativa]	Transport
Non-pericycle	43580374	EH210753	ZZ-Bh10.r	PUT-155a-Zea_mays-24594	NP_199841.2 Transporter [A. thaliana]	Transport
Non-pericycle	43580346	EH210725	ZZ-Be02.r	PUT-155a-Zea_mays-18005	AAK26760.1 Plasma membrane integral protein ZmPIP2-3 [Z. mays]	Transport
Non-pericycle	43580272	EH210651	ZAh07.R	PUT-155a-Zea_mays-12177743	AAK26768.1 Tonoplast membrane integral protein ZmTIP-2 [Z. mays]	Transport
Non-pericycle	43580320	EH210699	ZZ-Bb10.r	PUT-155a-Zea_mays-018690	ABD28549.1 Dynamin GTPase effector [M. truncatula]	Transport
Non-pericycle	43580322	EH210701	ZZ-Bc09.r	PUT-155a-Zea_mays-018690	ABD28549.1 Dynamin GTPase effector [M. truncatula]	Transport
Non-pericycle	43580512	EH210891	ZZ-Dd10.r	PUT-155a-Zea_mays-018690	ABD28549.1 Dynamin GTPase effector [M. truncatula]	Transport
Non-pericycle	43580312	EH210691	ZZ-Ba06.r	PUT-155a-Zea_mays-016721	AAK91816.1 Kinesin heavy chain [Z. mays]	Transport
Non-pericycle	43580403	EH210782	ZZ-Cb01.r	PUT-155a-Zea_mays-016721	AAK91816.1 Kinesin heavy chain [Z. mays]	Transport
Non-pericycle	43580338	EH210717	ZZ-Bd09.r	-	AAN64492.1 Calcium ATPase [O. sativa]	Transport
Non-pericycle	43580477	EH210856	ZZ-Da10.r	MAGI4_85080	AAW57815.1 Polyprotein [O. sativa]	Transposon
Non-pericycle	43580371	EH210750	ZZ-Bg12.r	PUT-155a-Zea_mays-93077742	NP_001050557.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580432	EH210811	ZZ-Ce05.r	PUT-155a-Zea_mays-76495	NP_001057232.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580298	EH210677	ZAh04.R	PUT-155a-Zea_mays-74912	ABB03718.1 Unknown function [S. bicolor]	Unknown
Non-pericycle	43580241	EH210620	ZAa10.R	PUT-155a-Zea_mays-73014	BAD19903.1 Putative D-protein [O. sativa]	Unknown
Non-pericycle	43580336	EH210715	ZZ-Be05.r	PUT-155a-Zea_mays-71941	NP_001063690.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580259	EH210638	ZAd02.R	PUT-155a-Zea_mays-71777743	No database hit	Unknown
Non-pericycle	43580533	EH210912	ZZ-Dg02.r	PUT-155a-Zea_mays-67097	P25866 Ubiquitin-conjugating enzyme E2-17 kDa [T. aestivum]	Unknown
Non-pericycle	43580397	EH210776	ZZ-Ca07.r	PUT-155a-Zea_mays-64706	NP_565757.2 Unknown function [A. thaliana]	Unknown
Non-pericycle	43580236	EH210615	ZAa07.R	PUT-155a-Zea_mays-63899	No database hit	Unknown
Non-pericycle	43580296	EH210675	ZZ-Bb03.r	PUT-155a-Zea_mays-60763	No database hit	Unknown
Non-pericycle	43580457	EH210836	ZZ-Ch04.r	PUT-155a-Zea_mays-58787	NP_001046496.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580377	EH210756	ZZ-Ca01.r	PUT-155a-Zea_mays-56344	NP_001058932.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580423	EH210802	ZZ-Cd10.r	PUT-155a-Zea_mays-50373	NP_001051549.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580229	EH210608	ZAc02.R	PUT-155a-Zea_mays-4825	No database hit	Unknown
Non-pericycle	43580480	EH210859	ZZ-Db02.r	PUT-155a-Zea_mays-47036	NP_001043565.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580501	EH210880	ZZ-Dd01.r	PUT-155a-Zea_mays-47036	NP_001043565.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580419	EH210798	ZZ-Ce10.r	PUT-155a-Zea_mays-46777737	CAH67826.1 Unknown function [O. sativa]	Unknown

Cell-type	db_EST ID	Genbank AC	In house ID	Anchoring	AC Function [species]	Functional category
Non-pericycle	43580530	EH210909	ZZ-Df11.r	PUT-155a-Zea_mays-41798	NP_001058402.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580540	EH210919	ZZ-Dh08.r	PUT-155a-Zea_mays-41798	NP_001058402.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580282	EH210661	ZAe12.R	PUT-155a-Zea_mays-40243	No database hit	Unknown
Non-pericycle	43580328	EH210707	ZZ-Bc04.r	PUT-155a-Zea_mays-40243	No database hit	Unknown
Non-pericycle	43580288	EH210667	ZZ-Bc08.r	PUT-155a-Zea_mays-40243	No database hit	Unknown
Non-pericycle	43580350	EH210729	ZZ-Be11.r	PUT-155a-Zea_mays-40243	No database hit	Unknown
Non-pericycle	43580361	EH210740	ZZ-Bf12.r	PUT-155a-Zea_mays-40243	No database hit	Unknown
Non-pericycle	43580421	EH210800	ZZ-Cd05.r	PUT-155a-Zea_mays-40243	No database hit	Unknown
Non-pericycle	43580422	EH210801	ZZ-Cd07.r	PUT-155a-Zea_mays-40243	No database hit	Unknown
Non-pericycle	43580461	EH210840	ZZ-Ch03.r	PUT-155a-Zea_mays-40243	No database hit	Unknown
Non-pericycle	43580335	EH210714	ZZ-Bc11.r	PUT-155a-Zea_mays-38832	NP_001062195.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580545	EH210924	ZZ-Dh07.r	PUT-155a-Zea_mays-37898	NP_001044596.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580430	EH210809	ZZ-Cg05.r	PUT-155a-Zea_mays-3613	BAD87032.1 HSV-1 stimulation-related 1-like [O. sativa]	Unknown
Non-pericycle	43580495	EH210874	ZZ-Dc09.r	PUT-155a-Zea_mays-36026	NP_001051136.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580339	EH210718	ZZ-Be12.r	PUT-155a-Zea_mays-33377736	NP_001050926.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580277	EH210656	ZZ-Ba03.r	PUT-155a-Zea_mays-25345	NP_001064442.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580390	EH210769	ZZ-Cb06.r	PUT-155a-Zea_mays-23742	AAT76982.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580538	EH210917	ZZ-Dg10.r	PUT-155a-Zea_mays-23531	AAB61961.1 Integral membrane protein [O. sativa]	Unknown
Non-pericycle	43580500	EH210879	ZZ-Dd07.r	PUT-155a-Zea_mays-23177736	NP_001056580.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580543	EH210922	ZZ-Dh03.r	PUT-155a-Zea_mays-22065	AAR07596.1 Fiber protein Fb34 [G. barbadense]	Unknown
Non-pericycle	43580550	EH210929	ZZ-Dh09.r	PUT-155a-Zea_mays-2076	ABC01908.1 24 kDa seed maturation protein-like protein [S. tuberosum]	Unknown
Non-pericycle	43580539	EH210918	ZZ-Dg04.r	PUT-155a-Zea_mays-126477740	No database hit	Unknown
Non-pericycle	43580304	EH210683	ZAh05.R	PUT-155a-Zea_mays-121277738	NP_001045307.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580268	EH210647	ZAe07.R	PUT-155a-Zea_mays-117477740	No database hit	Unknown
Non-pericycle	43580442	EH210821	ZZ-Dc03.r	PUT-155a-Zea_mays-117477740	No database hit	Unknown
Non-pericycle	43580360	EH210739	ZZ-Bf10.r	PUT-155a-Zea_mays-116477740	CAC33802.1 Plasma membrane intrinsic protein [Z. mays]	Unknown
Non-pericycle	43580466	EH210845	ZZ-Ch05.r	PUT-155a-Zea_mays-112177740	AAP53898.2 Unknown function [O. sativa]	Unknown
Non-pericycle	43580398	EH210777	ZZ-Cc02.r	PUT-155a-Zea_mays-111477743	No database hit	Unknown
Non-pericycle	43580412	EH210791	ZZ-Cd04.r	PUT-155a-Zea_mays-111477743	No database hit	Unknown
Non-pericycle	43580514	EH210893	ZZ-De05.r	PUT-155a-Zea_mays-111477743	No database hit	Unknown
Non-pericycle	43580317	EH210696	ZZ-Bd01.r	PUT-155a-Zea_mays-104	NP_001048413.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580348	EH210727	ZZ-Bd12.r	PUT-155a-Zea_mays-100177735	No database hit	Unknown
Non-pericycle	43580447	EH210826	ZZ-Cf12.r	PUT-155a-Zea_mays-09961	No database hit	Unknown
Non-pericycle	43580445	EH210824	ZZ-Cf02.r	PUT-155a-Zea_mays-09234	No database hit	Unknown
Non-pericycle	43580250	EH210629	ZAb12.R	PUT-155a-Zea_mays-088711	NP_001061393.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580297	EH210676	ZZ-Bb01.r	PUT-155a-Zea_mays-08832	NP_001042681.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580244	EH210623	ZAb05.R	PUT-155a-Zea_mays-07560	NP_001056574.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580452	EH210831	ZZ-Cf11.r	PUT-155a-Zea_mays-071457	NP_001047161.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580388	EH210767	ZZ-Bh09.r	PUT-155a-Zea_mays-06917	NP_001055871.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580509	EH210888	ZZ-De02.r	PUT-155a-Zea_mays-061548	No database hit	Unknown
Non-pericycle	43580318	EH210697	ZZ-Bb05.r	PUT-155a-Zea_mays-04774	NP_001062331.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580464	EH210843	ZZ-Ch07.r	PUT-155a-Zea_mays-04153	NP_566070.3 Arabinogalactan protein 16 [A. thaliana]	Unknown
Non-pericycle	43580513	EH210892	ZZ-De10.r	PUT-155a-Zea_mays-032	No database hit	Unknown
Non-pericycle	43580541	EH210920	ZZ-Dh04.r	PUT-155a-Zea_mays-02588	AAC31615.1 Physical impedance induced protein [Z. mays]	Unknown



Cell-type	db_EST ID	Genbank AC	In house ID	Anchoring	AC Function [species]	Functional category
Non-pericycle	43580329	EH210708	ZZ-Bd04.r	PUT-155a-Zea_mays-020050	No database hit	Unknown
Non-pericycle	43580334	EH210713	ZZ-Be08.r	PUT-155a-Zea_mays-018803	AAC31615.1 Physical impedance induced protein [Z. mays]	Unknown
Non-pericycle	43580373	EH210752	ZZ-Bg08.r	PUT-155a-Zea_mays-018803	AAC31615.1 Physical impedance induced protein [Z. mays]	Unknown
Non-pericycle	43580392	EH210771	ZZ-Ca09.r	PUT-155a-Zea_mays-018803	AAC31615.1 Physical impedance induced protein [Z. mays]	Unknown
Non-pericycle	43580487	EH210866	ZZ-Df08.r	PUT-155a-Zea_mays-017772	ABE98701.1 Hypothetical protein [Z. mays]	Unknown
Non-pericycle	43580531	EH210910	ZZ-Df06.r	PUT-155a-Zea_mays-017282	NP_001047650.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580233	EH210612	ZAd04.R	PUT-155a-Zea_mays-014790	BAD25464.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580286	EH210665	ZAf05.R	PUT-155a-Zea_mays-014694	ABG22358.1 Glycoprotein [O. sativa]	Unknown
Non-pericycle	43580333	EH210712	ZZ-Bd02.r	PUT-155a-Zea_mays-014694	ABG22358.1 Glycoprotein [O. sativa]	Unknown
Non-pericycle	43580406	EH210785	ZZ-Cg06.r	PUT-155a-Zea_mays-013510	ABA94971.2 Unknown function [O. sativa]	Unknown
Non-pericycle	43580425	EH210804	ZZ-Cd11.r	PUT-155a-Zea_mays-010578	No database hit	Unknown
Non-pericycle	43580549	EH210928	ZZ-Dh12.r	MAGI4_97173	AAV43895.1 Unknown protein [O. sativa]	Unknown
Non-pericycle	43580275	EH210654	ZAg01.R	MAGI4_82181	AAX53160.1 YNR4 [O. sativa]	Unknown
Non-pericycle	43580311	EH210690	ZZ-Ba11.r	MAGI4_42572	NP_001067629.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580325	EH210704	ZZ-Bb09.r	MAGI4_42572	NP_001067629.1 Unknown function [O. sativa]	Unknown
Non-pericycle	43580366	EH210745	ZZ-Bh02.r	MAGI4_16551	No database hit	Unknown
Non-pericycle	43580394	EH210773	ZZ-Ca05.r	MAGI4_160800	No database hit	Unknown
Non-pericycle	43580234	EH210613	ZAa03.R	MAGI4_147414	No database hit	Unknown
Non-pericycle	43580359	EH210738	ZZ-Bg01.r	MAGI4_119046	No database hit	Unknown
Non-pericycle	43580238	EH210617	ZAa06.R	-	No database hit	Unknown
Non-pericycle	43580249	EH210628	ZAb11.R	-	No database hit	Unknown
Non-pericycle	43580245	EH210624	ZAd11.R	-	No database hit	Unknown
Non-pericycle	43580265	EH210644	ZAf09.R	-	No database hit	Unknown
Non-pericycle	43580284	EH210663	ZAf10.R	-	No database hit	Unknown
Non-pericycle	43580285	EH210664	ZAg08.R	-	No database hit	Unknown
Non-pericycle	43580273	EH210652	ZAg09.R	-	No database hit	Unknown
Non-pericycle	43580299	EH210678	ZZ-Ba10.r	-	No database hit	Unknown
Non-pericycle	43580354	EH210733	ZZ-Bf02.r	-	No database hit	Unknown
Non-pericycle	43580362	EH210741	ZZ-Bf03.r	-	No database hit	Unknown
Non-pericycle	43580379	EH210758	ZZ-Bh01.r	-	No database hit	Unknown
Non-pericycle	43580433	EH210812	ZZ-Ce03.r	-	No database hit	Unknown
Non-pericycle	43580453	EH210832	ZZ-Cg07.r	-	No database hit	Unknown
Non-pericycle	43580463	EH210842	ZZ-Ch09.r	-	No database hit	Unknown
Non-pericycle	43580460	EH210839	ZZ-Da05.r	-	No database hit	Unknown
Non-pericycle	43580474	EH210853	ZZ-Da12.r	-	No database hit	Unknown
Non-pericycle	43580484	EH210863	ZZ-Db07.r	-	No database hit	Unknown
Non-pericycle	43580494	EH210873	ZZ-Dc07.r	-	No database hit	Unknown
Non-pericycle	43580502	EH210881	ZZ-Dc12.r	-	No database hit	Unknown
Non-pericycle	43580499	EH210878	ZZ-Dd09.r	-	No database hit	Unknown
Non-pericycle	43580526	EH210905	ZZ-Df07.r	-	No database hit	Unknown
Non-pericycle	43580497	EH210876	ZZ-Dg05.r	-	NP_001066378.1 Unknown function [O. sativa]	Unknown

**Online supplement 3:** Peptide sequences and peptide Mascot scores of Proteins from Table 4.

Spot No. <sup>a</sup>	Protein [ <i>Species</i> ] AC <sup>b</sup>	Peptides <sup>c</sup>	Position <sup>d</sup>	Mascot score <sup>e</sup>
1	Methionine synthase [ <i>Z. mays</i> ] AAL33589	YLFAGVVDGR	288 - 297	45
		IPSAEEIADR	706 - 715	33
		YTEVKPALTNM <sup>Ox</sup> VSAAK	741 - 756	12
2	Phenylalanine ammonia-lyase [ <i>Z. mays</i> ] AAL40137	VGQVAAVASAK	51 - 61	20
		KVDAAEAFK	218 - 226	21
		NPSLDYGFK	435 - 443	36
3	Adenosylhomocysteinase-like protein [ <i>O. sativa</i> ] AAO72664	VKDLSQADFGR	16 - 26	59
		LVGVSEETTTGVKR	199 - 212	93
		LVGVSEETTTGVK	199 - 211	51
		HSLPDGLM <sup>Ox</sup> R	246 - 254	17
		ATDVM <sup>Ox</sup> IAGK	255 - 263	15
		DIIM <sup>Ox</sup> VDHM <sup>Ox</sup> R	329 - 337	29
		ITIKPQTDR	369 - 377	32

Spot No. <sup>a</sup>	Protein [ <i>Species</i> ] AC <sup>b</sup>	Peptides <sup>c</sup>	Position <sup>d</sup>	Mascot score <sup>e</sup>
4	ATPase subunit 1 [ <i>Z. mays</i> ] ABE98710	AAELTTLESR	7 - 17	49
		VVSVGDGIAR	33 - 42	41
		TGSIVDVPAGK	93 - 103	22
		VVDALGVPIDGK	109 - 120	37
		AVDSLVPIGR	154 - 163	29
		ELIIGDR	167 - 173	26
5	Actin [ <i>S. officinarum</i> ] AAU93346	DAYVGDEAQSKR	53 - 64	25
		GYSFTTSAER	199 - 208	38
		EITSLAPSSM <sup>Ox</sup> K	318 - 328	13
		EEYDESGPAIVHR	362 - 374	94

Spot No. <sup>a</sup>	Protein [ <i>Species</i> ] AC <sup>b</sup>	Peptides <sup>c</sup>	Position <sup>d</sup>	Mascot score <sup>e</sup>
6	S-adenosylmethionine synthetase [ <i>O. sativa</i> ] AAT94053	TNM <sup>Ox</sup> VM <sup>Ox</sup> VFGEITTK	46 - 58	38
		TQVTVEYR	168 - 175	46
		TIFHLNPSGR	226 - 235	45
		FVIGGPHGDAGLTGR	236 - 250	23
		SIVASGLAR	290 - 298	29
		TAAYGHFGR	363 - 371	52
7	Cytosolic 3-phosphoglycerate kinase [ <i>Z. mays</i> ] AAO32644	YSLKPLVPR	1 - 9	50
		ELDYLVGAVANPK	105 - 117	54
		KPFAAIVGGSK	118 - 128	84
		IGVIESLLAK	133 - 142	58
		FAAGTEIAIK	258 - 267	58
		KLAELTTTK	268 - 276	61
		LAELTTTK	269 - 276	49
		GVTTIIGGDSVAAVEK	277 - 293	50

Spot No. <sup>a</sup>	Protein [ <i>Species</i> ] AC <sup>b</sup>	Peptides <sup>c</sup>	Position <sup>d</sup>	Mascot score <sup>e</sup>
8	Glutamate dehydrogenase [ <i>Z. mays</i> ] AAB51596	TAVANIPYGGAK	91 - 102	28
		VIAISDVTGAVK	232 - 243	63
		M <sup>Ox</sup> GAFTLGVNR	390 - 399	56
9	Alpha-1,4-glucan-protein synthase [ <i>Z. mays</i> ] P80607	C <sup>COMe</sup> FGYMVSK	95 - 102	2
		DINALEQHIK	123 - 132	50
		GYPFSLR	159 - 165	18
		YVDAVM <sup>Ox</sup> TIPK	199 - 208	20
		ASNPFVNLK	276 - 284	48
		C <sup>COMe</sup> YIYLSGQVK	315 - 324	32
		LGTIDPYFVK	327 - 336	40
10	Alpha-1,4-glucan-protein synthase (Amylogenin) [ <i>Z. mays</i> ] P80607	DINALEQHIK	123 - 132	24
		GYPFSLR	159 - 165	9
		ASNPFVNLK	276 - 284	29
		CYIYLSGQVK	315 - 324	7

Spot No. <sup>a</sup>	Protein [ <i>Species</i> ] AC <sup>b</sup>	Peptides <sup>c</sup>	Position <sup>d</sup>	Mascot score <sup>e</sup>
11	Glyceraldehyde-3-phosphate dehydrogenase, cytosolic 2 [ <i>Z. mays</i> ] Q09054	YDTVHGQWK	49 - 57	37
		HSDIALKDSK	58 - 67	28
		KVVISAPSK	120 - 128	43
		AASFNIIPSSTGAAK	203 - 217	11
		GASYEEIKK	254 - 262	8
12	Glyceraldehyde-3-phosphate dehydrogenase [ <i>Z. mays</i> ] AAA33466	KVVISAPSK	30 - 38	44
		DAPMFVVGVNEDK	39 - 51	13
		AASFNIIPSSTGAAK	113 - 127	9
		GASYEEIKK	164 - 172	42
		AGIALNDHFIK	211 - 221	48
13	Glyceraldehyde-3-phosphate dehydrogenase, cytosolic 2 [ <i>Z. mays</i> ] Q09054	IGINGFGR	6 - 13	47
		KVVISAPSK	120 - 128	33
		DAPM <sup>Ox</sup> FVVGVNEDK	129 - 141	37
		AASFNIIPSSTGAAK	203 - 217	38
		AGIALNDHFIK	301 - 311	48

Spot No. <sup>a</sup>	Protein [ <i>Species</i> ] AC <sup>b</sup>	Peptides <sup>c</sup>	Position <sup>d</sup>	Mascot score <sup>e</sup>
14	Glyceraldehyde-3-phosphate dehydrogenase, cytosolic 3 [ <i>Z. mays</i> ] Q43247	IGINGFGR	6 - 13	49
		KVVISAPSK	120 - 128	74
		DAPM <sup>Ox</sup> FVVGVNEK	129 - 140	56
		AASFNIIPSSTGAAK	203 - 217	26
		SATYDEIK	254 - 261	30
		AGIALNGNFVK	301 - 311	20
15	Os05g0552300 [ <i>O. sativa</i> ] NP_001056254	DVLSVAFSVDNR	120 - 131	61
		LWNTLGEC <sup>COMe</sup> K	144 - 152	15
		VWNLTNC <sup>COMe</sup> K	194 - 201	23
		IWDLESK	276 - 282	30

Spot No. <sup>a</sup>	Protein [ <i>Species</i> ] AC <sup>b</sup>	Peptides <sup>c</sup>	Position <sup>d</sup>	Mascot score <sup>e</sup>
16	Glutathione S-transferase I (GST-29) [ <i>Z. mays</i> ] P12653	SPEHLVR	43 - 49	54
		KNKPELLR	78 - 85	27
		NKPELLR	79 - 85	18
		KVLEVYEAR	141 - 149	47
		VLEVYEAR	142 - 149	62
		VAALM <sup>ox</sup> KPSA	206 - 214	43
17	Glutathione S-transferase IV (GST-27) [ <i>Z. mays</i> ] P46420	HKPELLGGGR	81 - 90	25
		NQAVVDENVEK	130 - 140	45
		KVLEVYEAR	143 - 151	42
		VLEVYEAR	144 - 151	61
18	1-Cys peroxiredoxin antioxidant [ <i>Z. mays</i> ] ABD24377	VTFPILADPAR	102 - 112	8
		ALHVVGPKD	137 - 145	33
		LSFLYPATTGR	149 - 159	15
		AVDSSLTAAK	167 - 176	27



Spot No. <sup>a</sup>	Protein [ <i>Species</i> ] AC <sup>b</sup>	Peptides <sup>c</sup>	Position <sup>d</sup>	Mascot score <sup>e</sup>
19	Pathogenesis-related protein 10 [ <i>Z. mays</i> ] AAY29574	AAVM <sup>Ox</sup> DWHTLAPK	23 - 34	29
		LLPGVEVKDEIAK	124 - 136	47
		AKESVTAIFK	137 - 146	58
20	Nucleoside diphosphate kinase [ <i>S. officinarum</i> ] P93554	GLIGEISR	16 - 24	73
		GDFAVDIGR	103 - 111	59
		NVIHGSDSIESANK	112 - 125	52

<sup>a</sup> Spot numbers as indicated on Fig. 2.

<sup>b</sup> Identified proteins obtained via automated algorithm of the mascot software ([www.matrixscience.com](http://www.matrixscience.com)) from the NCBI.nr database.

<sup>c</sup> Sequences of peptide fragments identified via ESI MS/MS. Modifications: Carbamidomethyl (C): COMe; Oxidation (M): Ox.

<sup>d</sup> Position of peptide fragments in full length proteins.

<sup>e</sup> Mascot score of individual peptide fragments. Addition of individual mascot scores of a protein leads to the protein mascot score indicated in Tab. 4.