

Supplementary Table 2. Name, sequence, and loci position of putative IMA genes.

Gene name	Organism	Locus	Uniprot accession	Genbank accession	Other source	Sequence
A. tauschii IMA1	Aegilops tauschii		tr:M8AME8		Uniprot	MAPASKVMSHVQDGGIADYVYVYAAPCDWCGGRHRKAESDGGDDDDDDYDCAPAA
A. trichopoda IMA1	Amborella trichopoda				www.amborella.org: gn1:Amborella_b4_c13621	MLQRYDAPFVGQKWHQKRIEGDGGDDDDDDYDCAPAA
A. trichopoda IMA2	Amborella trichopoda				www.amborella.org: gn1:Amborella_b4_rep_c242199	MLQRYDAPFVGQKWHQKRIEGDGGDDDDDDYDCAPAA
A. trichopoda IMA3	Amborella trichopoda				www.amborella.org: gn1:Amborella_b4_c8363	MLDRDHAHLGCKQKWHQKILRTEGDDDDDDDDYDCAPAT
A. trichopoda IMA4	Amborella trichopoda				www.amborella.org: gn1:Amborella_b4_rep_c242695	MLDRDHAHLGCKQKWHQKILRTEGDDDDDDDDYDCAPAA
A. trichopoda IMA5	Amborella trichopoda				www.amborella.org: gn1:Amborella_b4_rep_c8998	MASEENRFGDDDDDDYDCAPAT
A. trichopoda IMA6	Amborella trichopoda				www.amborella.org: gn1:Amborella_b4_rep_c101612	MASEENRFGDDDDDDYDCAPAA
A. lyrata IMA1	Arabidopsis lyrata		tr:D7KAT2		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. lyrata IMA2	Arabidopsis lyrata		tr:D7KAT0		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. lyrata IMA3	Arabidopsis lyrata		tr:D7KAT1		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. lyrata IMA4	Arabidopsis lyrata		tr:D7KAT4		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. lyrata IMA5	Arabidopsis lyrata		tr:D7KAT6		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. lyrata IMA6	Arabidopsis lyrata		tr:D7KAT3		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. lyrata IMA7	Arabidopsis lyrata		tr:D7KAT5		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. thaliana IMA1	Arabidopsis thaliana	At1g47400	tr:Q3ECW0		TAIR10	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. thaliana IMA2	Arabidopsis thaliana	At1g47395	tr:Q8GLJ3		TAIR10	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. thaliana IMA3	Arabidopsis thaliana	At2g03768	tr:Q86V35		TAIR10	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. thaliana IMA4	Arabidopsis thaliana	At1g47402	tr:Q1G327		Uniprot: TAIR10 - Chr1:17,389,145-17,389,555	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. thaliana IMA5	Arabidopsis thaliana	At1g47406		gi682125022	NCBI: TAIR10 - Chr1:17,391,895-17,391,460	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. thaliana IMA6	Arabidopsis thaliana	At1g47407		gi682124983	NCBI: TAIR10 - Chr1:17,392,600-17,393,050	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. thaliana IMA7	Arabidopsis thaliana	at2g44744		gi682125078	TAIR10 - Chr2:18,446,450-18,446,900	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. thaliana IMA8	Arabidopsis thaliana	At1g47401		gi682125078	TAIR10 - Chr1:17,387,997-17,388,188	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. alpina IMA1	Arabis alpina		tr:A0A087H1Z8		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. alpina IMA2	Arabis alpina		tr:A0A087H1Z7		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. alpina IMA3	Arabis alpina		tr:A0A087H1Z6		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
A. alpina IMA4	Arabis alpina		tr:A0A087GN13		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
B. napus IMA1	Brassica napus	BnaA05g1769D0	tr:AA0A078GB29		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
B. napus IMA2	Brassica napus	BnaC08g0449D0	tr:AA0A078FTG9		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
B. napus IMA3	Brassica napus	BnaA10g0516D0	tr:AA0A078F0R3		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
B. napus IMA4	Brassica napus	BnaC04g4140D0	tr:AA0A078EAK1		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
B. rapa IMA1	Brassica rapa		tr:M4FIM8		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
B. rapa IMA2	Brassica rapa			brassicadb.org - A08:3.778.606-3.778.776		MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
B. rapa IMA3	Brassica rapa			gi685341480		MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
B. rapa IMA4	Brassica rapa			brassicadb.org - A08: 3.785.365-3.785.526		MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
B. rapa IMA5	Brassica rapa			brassicadb.org - A08: 12.678.561-12.678.707		MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
B. rapa IMA6	Brassica rapa			gi685300759		MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
B. rapa IMA7	Brassica rapa			gi685283687		MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
B. rapa IMA8	Brassica rapa			brassicadb.org - A03: 10.750.322-10.750.510		MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
B. rapa IMA9	Brassica rapa			brassicadb.org - A05: 2.168.745-2.168.867		MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. sativa IMA1	Camelina sativa		gi727437870		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. sativa IMA2	Camelina sativa		gi727612111		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. sativa IMA3	Camelina sativa		gi727577750		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. sativa IMA4	Camelina sativa		gi727437866		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. sativa IMA5	Camelina sativa		gi727612109		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. sativa IMA6	Camelina sativa		gi727577744		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. sativa IMA7	Camelina sativa		gi727612098		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. sativa IMA8	Camelina sativa		gi727577748		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. sativa IMA9	Camelina sativa		gi727577746		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. sativa IMA10	Camelina sativa		gi727612107		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. sativa IMA11	Camelina sativa		gi727437868		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. sativa IMA12	Camelina sativa		gi727593545		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. arvense IMA1	Cicer arvense		gi502086844		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. clementina IMA1	Citrus clementina		gi567918023		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. clementina IMA2	Citrus clementina		gi567918027		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. clementina IMA3	Citrus clementina		gi567918024		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. melo IMA1	Cucumis melo		gi733563923		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. sativus IMA1	Cucumis sativus		tr:A0A0A0LF41		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
C. sativus IMA2	Cucumis sativus			Cucumis sativus - Roche/JGI v1 - scaffold00995:30,256..30,420		MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
E. guttata IMA1	Erythronthe guttata		tr:A0A022R5O2		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
G. max IMA1	Glycine max	Glyma02g45170		gi734416477	NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
G. max IMA2	Glycine max	Glyma18g14490		gi734309868	NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
G. max IMA3	Glycine max	Glyma14g03580		gi734348816	NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
G. max IMA4	Glycine max	Glyma17g12804		gi734359117	NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
G. max IMA5	Glycine max	Glyma05g08181		gi255630230	NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
G. max IMA6	Glycine max		gi734316660		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
G. max IMA7	Glycine max		gi734348448		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
G. max IMA8	Glycine max		gi255631054		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
G. max IMA9	Glycine max		gi734427312		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
G. max IMA10	Glycine max		gi734394461		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
G. max IMA11	Glycine max		tr:K7KB97		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
G. max IMA12	Glycine max		tr:K7KWF9		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
G. max IMA13	Glycine max		tr:K7KVG1		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
G. hirsutum IMA1	Gossypium hirsutum		gi519750295		NCBI	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
J. curcas IMA1	Jatropha curcas		tr:A0A067KJ81		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
J. curcas IMA2	Jatropha curcas		tr:A0A067KAT7		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
L. japonicus IMA1	Lotus japonicus		tr:I3SAD1		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
M. truncatula IMA1	Medicago truncatula	MTR2g084210	tr:AA0A072VU9		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
M. truncatula IMA2	Medicago truncatula	MTR2g084215	tr:AA0A072VA36		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
M. truncatula IMA3	Medicago truncatula	MTR2g084180	tr:G7IM83		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
M. truncatula IMA4	Medicago truncatula		tr:I3S3V2		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
M. truncatula IMA5	Medicago truncatula	MTR2g084170	tr:G7IM92		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
M. truncatula IMA6	Medicago truncatula	MTR2g084190	tr:G7IM94		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
M. truncatula IMA7	Medicago truncatula	MTR2g084200	tr:AA0A072VB1		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
M. truncatula IMA8	Medicago truncatula	MTR2g084140	tr:G7IM89		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
M. truncatula IMA9	Medicago truncatula	MTR4g026430	tr:G7JFW8		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
M. truncatula IMA10	Medicago truncatula	MTR4g026390	tr:G7JFW4		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
M. truncatula IMA11	Medicago truncatula	MTR4g026440	tr:G7JFW5		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
M. truncatula IMA12	Medicago truncatula	MTR4g026380	tr:G7JFW3		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
M. truncatula IMA13	Medicago truncatula		tr:G7IM91		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA
M. truncatula IMA14	Medicago truncatula	MTR2g084195	tr:AA0A072VL77		Uniprot	MMSFVANLAIKSLDRASAVYEDVDSRRVAYGENGGDDDDSGDYAPAA

M. truncatula IMA15	Medicago truncatula	MTR7q087600	tr:G7L3N4	Uniprot	MSSISNVVAPWCKKHGNDHGDGVVWYDYPPTYVCEGDDDDDDGGDYAPAA
M. notabilis IMA1	Morus notabilis		tr:W9R8S0	Uniprot	MPHITFMMVYIARNGKDGNDGHDYDHYFYQYNNLAPGEGDGDNDDDDDSDGYAPAA
M. notabilis IMA2	Morus notabilis		tr:W9R8W7	Uniprot	MFFAVDKLIVSELSKREDDGNDGHDGIRRYAPTOVMENYIAGSDRDYNNLPNATMDGDDDDDDSDSDYAPAA
M. notabilis IMA3	Morus notabilis		tr:W9R9D7	Uniprot	MSPVSEKNVAILAMLCKKQNTIYGDVINGDFEYNDPVTREIGDDDDDDSDSDYAPAA
O. sativa IMA1	Oryza sativa	LOC_Os01g45914 (Os.12629.1.S1 at, Os.12629.1.S2 at)	tr:A6M2Q3	Uniprot	MAPVSEASFLVHODGGIASFAVYAGAPCCSARGRMAETDGGDDDDDDYDCAPAA
O. sativa IMA2	Oryza sativa	LOC_Os07q04920 (Os.12430.1.S1 at, Os.48053.1.A1 at)	tr:Q8HKH5	Uniprot	MAIAKSECFRLAWALLEESNLVLSRRNSGDDDDDDYDAPAA
P. sativum IMA1	Psium sativum			OR-EST, IPK, Gatersleben, EST: PSS11L02U	MVITISMESTLPMFLMDNHLIATEFICGQNSKSEGGDDDDSDDIAPAA
P. vulgaris IMA1	Phaseolus vulgaris	PHAVU003G160300	tr:V7C9W0	Uniprot	MAFTSKLIAPCCNHHALHONHAPPTIFIEESVFRNGHGSVSRVPAASMEGDDDDSDSDYAPAA
P. vulgaris IMA2	Phaseolus vulgaris	PHAVU006G028300	tr:V7BK02	Uniprot	MLLFISCTKSGLPLFIKGNOWPETIFPLHHEGDDDDDDSDGGIDVAPAA
P. vulgaris IMA3	Phaseolus vulgaris	PHAVU008G196700	tr:V7B6K1	Uniprot	MMFFVCKEYGLVLNDWPATHDHFNHFGDDDDNGVIDVAPAA
P. trichocarpa IMA1	Populus trichocarpa		tr:B9H621	Uniprot	MSPLSKTIATFIRHARDGDDGGYGYDYAPAAACMEGDDDDSDSDYDAPAAPMEGDDDDSDGYDYAPAA
R. communis IMA1	Ricinus communis		tr:B9STP1	Uniprot	MVHMALFARSSGKCSSTNLADONKIDYLVFGYNEFSMEAPLIEDDGGDDDDSDGYDFAPAALEGGDDDDSDGYDYAPAA
R. communis IMA2	Ricinus communis		tr:B9STP2	Uniprot	MSLFAISKAITISCCNKLADDCNNGDGYCFAPFPICEGGDDDDSDGYDYAPAAASSEGGDDDDSDGYDYAPAA
R. communis IMA3	Ricinus communis		tr:B9STP3	Uniprot	MSPLSKVIASWCKPVVEEEMGNDSDRYEYAPATSTEGDDDDDDSDDKCAPAA
S. lycopersicum IMA1	Solanum lycopersicum		tr:M1AZY7	Uniprot: solgenomics.wur.nl - transcript ID: SGN-E11357	MTEIYSPHLNFKIELTRPVISFCLNRELENDDDDDSDGKVPAA
S. lycopersicum IMA2	Solanum lycopersicum	Solyc07g044900.1	tr:K4CEP8		MVIVRGNTTFFLPGRIEARPVNFGLNREFADDDDDSDGKVPAA
S. lycopersicum IMA3	Solanum lycopersicum	Solyc07g044910.1	tr:K4CEP9		MVIVRGNTSRFHPYIEARLVISFVNLNRELENDVDDDDSDGKVPAA
S. lycopersicum IMA4	Solanum lycopersicum	Solyc12g006720.1	tr:K4DBK9		MSSQISTILMNSICPNHVDGSHVYESRSMMDRHATGCVYSATWFEDDSDDDDDSDADYDAPAA
S. lycopersicum IMA5	Solanum lycopersicum	Solyc12g006730.1	tr:K4DBL0		MSTIFMIIGFEKRRSCADGQDYDTPAASLEGDDDDSDYDAPAALEGNDDSDGYDAPAALEGGDDSDGYDAPAA
S. lycopersicum IMA6	Solanum lycopersicum	Solyc12g006750.1	tr:K4DBL2		MFGIFKIIIGFEKRRSCLDGGDDSDYDAPAAKLRNGDDSDGYDAPAALEGGDDSDGYDAPAALEGGDDSDGYDAPAA
S. lycopersicum IMA7	Solanum lycopersicum	Solyc12g006760.1	tr:K4DBL3		MSSGILKIIIGFEKRRSCLDGGDDSDYDAPAAKLRNGDDSDGYDAPAALEGGDDSDGYDAPAALEGGDDSDGYDAPAA
S. lycopersicum IMA8	Solanum lycopersicum	Solyc12g006770.1	tr:K4DBL4		MSSGILKIIIGFEKRRSCLDGGDDSDYDAPAAKLRNGDDSDGYDAPAALEGGDDSDGYDAPAALEGGDDSDGYDAPAA
S. lycopersicum IMA9	Solanum lycopersicum	Solyc12g006780.1	tr:K4DBL5		MSSIFKIIIGFEKRRSCLDGGDDSDYDAPAAKLRNGDDSDGYDAPAALEGGDDSDGYDAPAALEGGDDSDGYDAPAA
S. tuberosum IMA1	Solanum tuberosum		tr:M0ZJ9		MAGSKSRKVRVGRVSKSKAVYFWKIRHSCGIIIFGSKYKSCSYGSEDDDDSDHYAPATYLERDDDDSDGYDAPAA
S. tuberosum IMA2	Solanum tuberosum		tr:M1AZ7	Phytozome.net	MVVMINANKKVSIGCPDKFMAATEAKLGSITCIDKECEADDYNDSDASKIAPAA
S. tuberosum IMA3	Solanum tuberosum		tr:M1BUQ1		MSSGTFKIIIGFEKRRSCLDGGDDSDYDAPAAKLRNGDDSDGYDAPAALEGGDDSDGYDAPAALEGGDDSDGYDAPAA
S. tuberosum IMA4	Solanum tuberosum		tr:M1BUQ2		MSTIFKIIIGFEKRRSCLDGGDDSDYDAPAAKLRNGDDSDGYDAPAALEGGDDSDGYDAPAALEGGDDSDGYDAPAA
S. tuberosum IMA5	Solanum tuberosum		tr:M1BUQ3		MSTIFKIIIGFEKRRSCLDGGDDSDYDAPAAKLRNGDDSDGYDAPAALEGGDDSDGYDAPAALEGGDDSDGYDAPAA
S. tuberosum IMA6	Solanum tuberosum		tr:M1BUQ4		MSSIFKIIIGFEKRRSCLDGGDDSDYDAPAAKLRNGDDSDGYDAPAALEGGDDSDGYDAPAALEGGDDSDGYDAPAA
S. tuberosum IMA7	Solanum tuberosum		tr:M1BUQ5		MSSIFKIIIGFEKRRSCLDGGDDSDYDAPAAKLRNGDDSDGYDAPAALEGGDDSDGYDAPAALEGGDDSDGYDAPAA
S. tuberosum IMA8	Solanum tuberosum		tr:M1BUQ6		MSSIFKIIIGFEKRRSCLDGGDDSDYDAPAAKLRNGDDSDGYDAPAALEGGDDSDGYDAPAALEGGDDSDGYDAPAA
S. tuberosum IMA9	Solanum tuberosum		tr:M1BUQ8		MSSIFKIIIGFEKRRSCLDGGDDSDYDAPAAKLRNGDDSDGYDAPAALEGGDDSDGYDAPAALEGGDDSDGYDAPAA
S. tuberosum IMA10	Solanum tuberosum		tr:M1BUQ9		MSSIFKIIIGFEKRRSCLDGGDDSDYDAPAAKLRNGDDSDGYDAPAALEGGDDSDGYDAPAALEGGDDSDGYDAPAA
S. tuberosum IMA11	Solanum tuberosum		tr:M1BUS5		MSSQISTILMNSICNLTFFDYHVERGNHDIHSHVYESTSMMDRHVIGCIYVSATWFEDDSDDDDDSDADYDAPAA
S. tuberosum IMA12	Solanum tuberosum		tr:M1BUS6		MSEIFTIIGFEKRRSCLDGGDDSDYDAPAAKLRNGDDSDGYDAPAALEGGDDSDGYDAPAALEGGDDSDGYDAPAA
S. tuberosum IMA13	Solanum tuberosum		tr:M1CZG2		MSSGFKILFEKRRSCLDGGDDSDYDAPAAKLRNGDDSDGYDAPAALEGGDDSDGYDAPAALEGGDDSDGYDAPAA
T. cacao IMA1	Theobroma cacao		tr:A0A061GM26		MSSSKCIIMHDEINIKIGSSKMIINDVHDDKGRDGYVSNKSLVGGNSYVPSASVDDGDDDDSDGYDAPAA
T. urartu IMA1	Triticum urartu	TRUR301690	tr:M8A3M8		MAPASKIMSHVODGGIAAYAVYAAAPCDWCGRRHKAESDGGDDDDSDYDAPAA
T. urartu IMA2	Triticum urartu	TRUR318332	tr:M8A648		MAPASKIMSHVODGGIAAYAVYAAAPCDWCGRRHKAESDGGDDDDSDYDAPAA
T. urartu IMA3	Triticum urartu	TRUR329839	tr:M8ACF3		MAPASKIMSHVODGGIAAYAVYAAAPCDWCGRRHKAESDGGDDDDSDYDAPAA
V. vinifera IMA1	Vitis vinifera		gi:349713816		MSSISMAIDSOQSMHGHVREHDKGHVYCTNDNGCYALTPAREGDGDDDDSDGYDAPAA
Z. mays IMA1	Zea mays		tr:A0A096QUR9		MAPVSSEAAAYLVLIKIGSIAASSRAVYVWGDGCSARGRMTETSDDDDDSDYDAPAA