

Table S1.

locus	Silent Sites	GER	CAN	USA	RUS	SWE	ICE	GO Terms
AT1G72390	74	20	20	22	26	16	20	expressed protein
AT2G26140	95	22	18	8	30	10	12	FtsH protease, putative
AT3G44530	118	18	18	18	28	16	18	transducin family protein / WD-40 repeat family
AT4G16280	271	10	10	10	10	10	14	flowering time control protein / FCA gamma
AT4G25540	357	10	10	10	10	10	14	DNA mismatch repair protein MSH3 (MSH3)
AT4G38630	269	10	10	10	10	10	14	26S proteasome regulatory subunit S5A (RPN10)
AT2G44990	100	12	4	8	30	16	14	armadillo/beta-catenin repeat family protein
AT1G11050	108	22	22	20	24	14	18	protein kinase family protein
AT1G04650	105	18	16	12	28	18	20	hypothetical protein
AT1G06530	81	22	24	10			22	myosin heavy chain-related
AT4G36060	247	10	10	10	10	10	14	basic helix-loop-helix (bHLH) family protein
AT4G38160	87	24	24	20	30	18	22	mitochondrial transcription termination
AT3G13290	110	14	14	16	30	18	8	transducin family protein / WD-40 repeat family
AT3G51570	79	12	18	10	22	18	18	disease resistance protein (TIR-NBS-LRR class)
AT4G20410	495	10	10	10	10	10	14	gamma-soluble NSF attachment protein
AT2G41360	99	22	20	14			16	F-box family protein
AT3G23590	130	24	22	18	26	18	22	expressed protein
AT4G14180	107	24	24	20	26	16	22	expressed protein
AT4G18040	329	10	10	10	10	10	14	eukaryotic translation initiation factor 4E 1
AT2G26730	81	18	14	12			14	leucine-rich repeat transmembrane protein
AT2G47430	78	20	18	20			14	cytokinin-responsive histidine kinase (CKI1)
AT4G18520	93	16	22	18	6	4	18	expressed protein
AT5G04190	109	22	22	22	28	8	8	phytochrome kinase substrate-related
AT1G23200	98	12	22	10	26	12	6	pectinesterase family protein
AT4G40080	223	10	10	10	10	10	14	epsin N-terminal homology (ENTH)
AT5G20280	112	22	22	18	24	12	22	sucrose-phosphate synthase, putative
AT2G25050	99	24	22	20	28	14	14	formin homology 2 domain-containing protein
AT4G33250	530	10	10	10	10	10	14	eukaryotic translation initiation factor 3
AT4G28395	380	10	10	10	10	10	14	lipid transfer protein, putative
AT1G06520	98	12	20	18	28	12	16	phospholipid/glycerol acyltransferase family
AT3G55060	90	22	24	14	30	16	22	expressed protein
AT1G31930	90	16	18	16	22	12	20	extra-large guanine nucleotide binding protein
AT1G78850	110	24	24	18	28	18	18	curculin-like (mannose-binding) lectin family
AT4G00030	245	8	10	10	10	10	14	plastid-lipid associated protein PAP
AT3G50740	103	22	22	20	28	14	20	UDP-glucuronosyl / UDP-glucosyl transferase family
AT3G10340	103	22	20	18	26	18	18	phenylalanine ammonia-lyase, putative
AT4G08170	412	10	10	10	10	10	14	inositol 1,3,4-trisphosphate 5/6-kinase family
AT1G68520	93	20		4	20	16	20	zinc finger (B-box type) family protein
AT4G39680	103	16	22	20			14	SAP domain-containing protein
AT1G15240	86	20	20	16	30	18	20	phox (PX) domain-containing protein
AT1G64170	103	20	24	12	30	18	8	cation/hydrogen exchanger, putative (CHX16)
AT3G54720	136	22	24	22	26	12	22	glutamate carboxypeptidase, putative (AMP1)
AT2G36980	101	8	20	20	30	18	22	pentatricopeptide (PPR) repeat-containing
AT3G62890	94	20	22	16	26	16	16	pentatricopeptide (PPR) repeat-containing

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<b>AT4G02390</b>	287	10	10	10	10	10	14	poly (ADP-ribose) polymerase / NAD(+)
<b>AT5G53020</b>	103	14	8	8	30	8	10	expressed protein
<b>AT1G65450</b>	100	20	24	18	30	14	20	transferase family protein
<b>AT1G68530</b>	78	16	22	18	30	18	18	very-long-chain fatty acid condensing enzyme
<b>AT4G04350</b>	313	10	10	10	10	10	14	leucyl-tRNA synthetase, putative / leucine--tRNA
<b>AT2G43680</b>	114	10	12	6	26	14		calmodulin-binding family protein
<b>AT1G10900</b>	100	24	22	16	24	14	18	phosphatidylinositol-4-phosphate 5-kinase family
<b>AT1G62310</b>	88	16	22	18	26	16	18	transcription factor jumonji (jmiC)
<b>AT1G62520</b>	92	14	24	18	30	12	14	expressed protein
<b>AT4G10340</b>	386	10	10	10	10	10	14	chlorophyll A-B binding protein CP26
<b>AT5G48100</b>	109	24	24	22	30	18	22	laccase family protein / diphenol oxidase family
<b>AT1G62390</b>	97	18	20	18	24	10	20	octicosapeptide/Phox/Bem1p (PB1)
<b>AT4G22720</b>	271	10	10	10	10	10	14	glycoprotease M22 family protein
<b>AT5G66280</b>	99	20	22	22	30	16	18	GDP-D-mannose 4,6-dehydratase, putative
<b>AT2G46550</b>	95	20	18	6	30	16	16	expressed protein
<b>AT1G10980</b>	101	16	18	14	28	18	14	expressed protein
<b>AT4G08840</b>	89	4	20	18	20	18	8	pumilio/Puf RNA-binding domain-containing
<b>AT4G14210</b>	413	10	10	10	10	10	14	phytoene dehydrogenase, chloroplast
<b>AT5G43670</b>	108	16	10	16			22	transport protein, putative
<b>AT1G01040</b>	90	18	22	16	26	14	16	DEAD/DEAH box helicase carpel factory
<b>AT3G20820</b>	114	18	6	4	8	6	16	leucine-rich repeat family protein
<b>AT5G51670</b>	120	20	18	22			12	expressed protein
<b>AT4G12030</b>	279	10	10	10	10	10	14	bile acid:sodium symporter family protein
<b>AT4G30950</b>	331	10	10	10	10	10	14	omega-6 fatty acid desaturase, chloroplast
<b>AT2G16870</b>	111	18	18	18	4	10	20	disease resistance protein (TIR-NBS-LRR class)
<b>AT1G03560</b>	98	22	18	20	30	16	16	pentatricopeptide (PPR) repeat-containing
<b>AT5G41920</b>	108	16	16	10			6	scarecrow transcription factor family protein
<b>AT3G48690</b>	96	24	22	12	24	14	18	expressed protein
<b>AT2G23170</b>	97	22	22	8	30	16	16	auxin-responsive GH3 family protein
<b>AT2G28050</b>	90	24	20	18	26	16	22	pentatricopeptide (PPR) repeat-containing
<b>AT4G14190</b>	102	16	16	18	26	16	18	pentatricopeptide (PPR) repeat-containing
<b>AT1G59720</b>	99	14	12	16	16	10	14	pentatricopeptide (PPR) repeat-containing
<b>AT1G74600</b>	107	22	24	16	14	16	20	pentatricopeptide (PPR) repeat-containing