

 NCBI

PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM

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1: K00821. Soybean lectin (L...[gi:170005]

Links

LOCUS SOYLEA 2152 bp DNA linear PLN 27-APR-1993
 DEFINITION Soybean lectin (Le1) gene, complete cds.
 ACCESSION K00821 M30884
 VERSION K00821.1 GI:170005
 KEYWORDS lectin; transposon.
 SOURCE Glycine max (soybean)
 ORGANISM [Glycine max](#)
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
 rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae;
 Glycine.
 REFERENCE 1 (bases 1 to 2152)
 AUTHORS Vodkin,L.O., Rhodes,P.R. and Goldberg,R.B.
 TITLE cA lectin gene insertion has the structural features of a
 transposable element
 JOURNAL Cell 34 (3), 1023-1031 (1983)
 MEDLINE [84026469](#)
 PUBMED [6313203](#)
 REFERENCE 2 (bases 719 to 819)
 AUTHORS Jofuku,K.D., Okamuro,J.K. and Goldberg,R.B.
 TITLE Interaction of an embryo DNA binding protein with a soybean lectin
 gene upstream region
 JOURNAL Nature 328 (6132), 734-737 (1987)
 MEDLINE [87287290](#)
 PUBMED [3614381](#)
 COMMENT Original source text: Soybean seed (cv. forrest and sooty) DNA.
 [1] sequenced Le1 and a naturally occurring allelic variant of Le1
 that differs only by six single-base mutations and the presence of
 a 3.4 kb transposon-like insertion in the cds. The allelic
 sequencing covered nucleotides 769-2152.
 FEATURES Location/Qualifiers
 source 1..2152
 /organism="Glycine max"
 /mol_type="genomic DNA"
 /db_xref="taxon:3847"
 variation 794
 /note="a in Le1; c in allele"
 variation 909
 /note="t in Le1; a in allele"
 mRNA 939..1952
 /note="Le1 mRNA (alt.)"
 mRNA 939..1921
 /note="Le1 mRNA (alt.)"
 CDS 969..1826
 /note="lectin prepeptide"
 /codon_start=1
 /protein_id="[AAA33983.1](#)"
 /db_xref="GI:170006"
 /translation="MATSKLKTQNVVVSLSLTLLVLVLLTSKANSAETVSFSWNKFV
 PKQPNIQDGDAIVTSSGKLQLNKVDENGTPKPSSLGRALYSTPIHIWDKETGSVASF
 AASFNFNTFYAPDTKRLADGLAFFLAPIDTKPQTHAGYLGLFNENESGDQVVAVEFDTF
 RNSWDPPNPHIGINVNSIRSINKTTSWDLANNKVAKVLIYDASTSLLVASLVYPQRST"

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mat_peptide
/note="lectin signal peptide"
1065..1823
variation
/product="lectin mature peptide"
1066
variation
/note="c in Lel; t in allele"
1229
variation
/note="c in Lel; g in allele"
1565..1567
variation
/note="cta in Lel; cta...3.4 kb...cta in allele"
1667
variation
/note="c in Lel; t in allele"
variation
2035
variation
/note="g in Lel; c in allele"
BASE COUNT 689 a 417 c 341 g 703 t 2 others
ORIGIN 416 bp upstream of HpaI site.
1 caatgccatc gtatcggtc acaatggaa acagcaatga acaaatgcta tcctcttgag
61 aaaagtgaaa tgcagcagca gcagcagact agagtgtac aaatgcttat cctcttgaga
121 aaagtgaaat gcagcggcag cagacctgag tgctatatac aatttagacac agggtctatt
181 aattgaaatt gtcttattat taaatatttc gtttatatt aattttttaa attttaatta
241 aatttatata tattatattt aagacagata tatttattt tgattataaa tgtgtcactt
301 ttcttttag tccatgtatt ctcttattt ttcaatttaa cttttattt ttattttaa
361 gtcactctga tcaagaaaac attgttgaca taaaactatt aacataaaaat tatgttaaca
421 tgtgataaca tcatattttt ctaatataac gtcgcatttt aacgaaaaat taacaaaatat
481 cgactgtaaag agtaaaaatg aatgtttga aaaggtaat tgcataactaa ctatTTTTT
541 tcctataagt aatctttttt gggatcancat gtatattcatt gagatacgtat attaaatatg
601 ggtacctttt cacaacaccc acccttggta gtcaaaaccac acataagaga ggatggattt
661 aaaccagtca gcaccgtaaag tatatagtga agaaggctga taacacactc tattattgtt
721 agtacgtacg tatttcctt tttgttttagt ttttgaattt aattaattaa aatataatatg
781 ctaacaacat taaatttaa attacgtct aattatataat tgtgtatgt aataaattgt
841 caacctttaa aaattataaa agaaatattt attttgataa acaactttt aaaaagtaccc
901 aataatgcta gtataaatag gggcatgact ccccatgcat cacagtgcac tttagctgaa
961 gcaaagcaat ggctacttca aagttgaaaa cccagaatgt ggttgtatct ctctccctaa
1021 ccttaacctt ggtactgggt ctactgacca gcaaggcaaa ctcagcggaa actgtttctt
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1141 tgacctcctc gggaaagttt caactcaata aggttgcga aaacggcacc cccaaacccct
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1621 ccagcaatat cctctccgat gtgggtcgatt tgaagacttc tcttcccgag tgggtgagga
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1861 cgactctcac tactcgatcg ctatgtattt tcattgttat atataataat gttatcttcc
1921 acaacttattc gtaatgcatt gtgaaactat aacacattt atcctacttgc tcatatgata
1981 acactctccc cattaaaac tcttgtcaat ttaaagatata aagattctt aaatgattaa
2041 aaaaaatata ttataaattt aatcacttctt actaataat tattaattaa tattttatttga
2101 ttaaaaaatatttacta atttagtctg aatagaataa ttagattctttaa ga

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