Triticum aestivum omega gliadin storage protein gene, complete cds

GenBank: AF280605.1

FASTA Graphics

Go to:

LOCUS AF280605 3789 bp DNA linear PLN 25-APR-2003
DEFINITION Triticum aestivum omega gliadin storage protein gene, complete cds.
ACCESSION AF280605
VERSION AF280605.1
KEYWORDS .
SOURCE Triticum aestivum (bread wheat)
ORGANISM Triticum aestivum
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliopsida; Liliopsida; Poales; Poaceae; BOP clade; Pooideae; Triticodae; Triticeae; Triticinae; Triticum.
REFERENCE 1 (bases 1 to 3789)
AUTHORS Hsia,C.C. and Anderson,O.D.
TITLE Isolation and characterization of wheat omega-gliadin genes
JOURNAL Theor. Appl. Genet. 103, 37-44 (2001)
REFERENCE 2 (bases 1 to 3789)
AUTHORS Hsia,C.C. and Anderson,O.D.
TITLE Direct Submission
JOURNAL Submitted (20-JUN-2000) Western Regional Research Center, Agricultural Research Service, 800 Buchanan Street, Albany, CA 94710, USA
FEATURES Location/Qualifiers
source 1..3789
/organism="Triticum aestivum"
/mol_type="genomic DNA"
/db_xref="taxon:4565"
/chromosome="1"
/clone="omegaF20b"
/dev_stage="embryo"
regulatory 2359..2364
/regulatory_class="TATA_box"
mRNA <2464..>3441
/product="omega gliadin storage protein"
CDS 2464..3306
/codon_start=1
/product="omega gliadin storage protein"
/protein_id="AAG17702.1"
/translation="MKTFLIFVLLAMAMKIATAARELNPSNKELQSPQQSFSYQQQPF
PQQPYPQQPYPSQQPYPSQQPFPTPQQQFPEQSQQPFTQPQQPTPIQPQQPFPQQPQQ
PQQPFPQPQQPFPWQPQQPFPQTQQSFPLQPQQPFPQQPQQPFPQPQLPFPQQSEQII

PQQLQQPFPLQPQQPFPQQPQQPFPQPQQPIPVQPQQSFPQQSQQSQQPFAQPQQLFP
ELQQPIPQQPQQPFPLQPQQPFPQQPQQPFPQQPQQSFPQQPQQPYPQQQPYGSSLTS
IGGQ"

regulatory 3379..3384
/regulatory_class="polyA_signal_sequence"

regulatory 3436..3441
/regulatory_class="polyA_signal_sequence"

ORIGIN

```
   1 gaattcaaga tgattattgt gtagagttgg cgcacattat tggtactaac aaagtgcttt
  61 gtttgctgct acgggaaaac caaagtgcaa agacatatag tgggcgataa aaggagatgt
 121 tgcctatgca gttagttgta aatcctgctc ttaacatgtc tgtgattgaa ctaaccgagt
 181 tgaatcctga agtggtatct acttttgaca aaaaacattc gatgatatcg ctagttactt
 241 ttagctgact gctaagttta tattaggcat gaagaaaagg aaggttgtca ctttgttcca
 301 tgataatctc gtccaccaat cctcgaaact agttaggcta aaacaatgag ttttgctaaa
 361 aatcatcacc taatgttcct gactagggaa gtgatctcct taggacacca aaagcgtgac
 421 ctataaccca agaaacatgc atgaatggga aaacacattg atttttgacg accttcctgc
 481 agcccaggac tcaaaaatag taagttataa cccgcaaaac atccctttt aggatttttt
 541 ccacttcaaa attcaaatat tacttttttc ttcaaaaaat acgagctcac aggagcacag
 601 cttccaagtc gcatctctct gcttcatgat tgtatgtagt tttagactcc aacactgttt
 661 agctcctcgt ttaactattg gtgcccgact agaatggaag actgcccaat ggatttttg
 721 ttgcattggt tgtagaacct gaagatgtac aaagaaaagc ccaatgcatt tttggttgca
 781 ttggttgtat ataccgaaga atgaccaatg catttttagt tccatgggtt gtatagaatg
 841 aagacgtaca aacaaaagca acctagtagt gcttgttatt acaaaatttt gaactacaag
 901 actatagtct gaacttcttt tggtgataga tgctacgggc ggagaaacct gttgattgtc
 961 cctggcttgc agcagatttt ggtaggtgga gtgtcggatt cagtgacatg aagagagatt
1021 tgagtaggga ggcgacaaat atttgttccc gcgcacaacc agtttgatga aattcccaaa
1081 gtacgacgca acgacgtctt cttgtcctcg ttccatgccg acacacatca aggttgacaa
1141 gtcaccatct aaaaggttat ccacgaaggc ataaccgaat cctgaatgta cttaacgtgc
1201 tttcattcac ctttagattt tttccttcgt taaaataggt cattttgtgt agtttcaaaa
1261 tttccttata ggtgaaggtt tggcacttat ttgcttaggt tactttgtta gcatgttctt
1321 aacttgcata agacaaaact tggaatgcta ttgttgttct taacttgaac tgtcgattat
1381 cctgtagcat ttaatagcat attaatccaa tgctctaatc tttatactgc atattctttc
1441 cttactggta tgaaggacaa ctttatattt aaccagctta tactccacat gctttcacat
1501 cacaagaaat taaatatggt cgatagacta ctatatgtgc cttagttttc tatcttgtac
1561 atgatagatg ctggtactag ctcccaaact tatctttaag tgatttttat ttaagggatg
1621 actacagtaa aggcagccaa taaagagttg atggggatga gaaaaactgt caggattgaa
1681 gatatagatg tatccagtat cttactgctt accagacatg tagagcttca cataatagta
1741 ttctcatttc attgcttatc tttccggtct acttttgttt caattgcatc taaattagta
1801 gatgcttttg aaatccacat agcatgcaag acaagatggt gtatcttaga gaaaagtcca
1861 tgttataact tataaccccc aacttgctac tcggtttatc ttgttatttg atgagtcatg
1921 tctagttatc catcttagaa tcatattggg caaaaaaaca taaagtcagt tttggaaaga
1981 taatttctag aacaatcatc acattaatag tgtgatccat cataatgacg cacacaagct
2041 tacaaactta gttccactca agccatgcca atatggataa gcctaacaac atgtagagct
2101 tcacaaacta aatttcaaaa agggacataa tctagatcaa tgtttgcagt gtaaagtgaa
```

```
2161 gaagatgagt cattggtcgt tatccaacat tccttacaac cagatgattt cagcaaaaag
2221 caactatcaa gaaaatccaa aatctcgcta gtaagtagtt gcaccaaaca caacaaacca
2281 aatgattagt tggataagca ttgatgcact ttttcagaaa gcgagtggaa agatgaaagc
2341 aagccatgcg atgaaaacta taaagacaca tgcaccacca aggccacctt ccatcatcca
2401 aacttcacac acctagacca caagcatcaa aggcaagcaa gcagtagtca ccacaaatcc
2461 aacatgaaga ccttcctcat ctttgtcctc cttgccatgg cgatgaagat cgccactgcc
2521 gctagggagt taaaccctag caacaaagag ttacaatcac ctcaacaatc attttcctat
2581 caacaacaac catttccaca gcagccatat ccacaacaac catatccatc acagcaacca
2641 tatccatcgc aacaaccatt tcccacaccc caacaacaat ttcccgagca atcacaacaa
2701 ccatttaccc agccccaaca accgaccccc atacaaccac aacaaccatt cccccagcaa
2761 ccccaacaac cacaacaacc ttttccacaa ccccaacaac catttccctg gcaaccacaa
2821 caaccatttc cccagaccca acaatcgttc cctctccaac cacaacagcc attcccccag
2881 caaccccaac aaccatttcc ccagccccaa ctaccattcc cccagcaatc agaacaaata
2941 attccccagc aactccaaca accattcccc ctgcaaccgc aacaaccatt cccccagcaa
3001 ccccaacaac catttcccca gccccaacaa ccaatccccg tgcaaccaca acaatcattc
3061 ccccaacaat cccaacaatc acaacaacct tttgcccagc cccaacaatt atttcctgaa
3121 ctccaacaac caattcccca gcaaccacaa caaccattcc ccctgcaacc gcaacaacca
3181 ttccccccagc aaccgcaaca accattcccc cagcaaccgc aacaatcatt tccccagcaa
3241 ccacaacaac catatccaca acaacaacca tatgggagta gtcttacaag catcggtggc
3301 caatgaaatg aacacctgta atacaagacg gatggatcat cgttgtttag tcaatgagcg
3361 ttcaatgtaa cgatgataaa taaagtgatg tgcaccataa tgtgtaaccc cgacctatac
3421 tagttcaaac atgggaataa aagacaaaga aagttcttgt cacaaagaca ttactcgtaa
3481 ttgttagatt catgctgtat ttagattttc atccctagct acaatctcag tcttatgcat
3541 tatctaccta tctatgtagt gaagtcatat gaacctaaca taattaatgg atgcaaaact
3601 tggtttaaat tgaaggctac attgtattag caaaatcaga tatcataatt gggtatgtaa
3661 aaggacacaa ttcattataa tttgtagcaa ataaattagt agcataccat gcatttttct
3721 agaagataag ggttgttgtc atactcaagg acacagttgc atgtgtaccc tagatcattt
3781 gtggaattc
```

//