



MASCOT Search Results

Protein View: XP_015614956.1

PREDICTED: probable galacturonosyltransferase 3 isoform X3 [Oryza sativa Japonica Group]

Database: NCBIprot
Score: 86
Expect: 0.019
Monoisotopic mass (M_r): 79942
Calculated pI: 7.68
Taxonomy: Oryza sativa Japonica Group

This protein sequence matches the following other entries:

- XP_015614958.1 from Oryza sativa Japonica Group
- ABB47337.1 from Oryza sativa Japonica Group

Sequence similarity is available as an NCBI BLAST search of XP_015614956.1 against nr.

Search parameters

Enzyme: Trypsin: cuts C-term side of KR unless next residue is P.
Fixed modifications: Carbamidomethyl (C)
Variable modifications: Oxidation (M)
Mass values searched: 29
Mass values matched: 16

Protein sequence coverage: 27%

Matched peptides shown in **bold red**.

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1  MAFPSTSSVA YPRSLSPLR CPGFLALLVA VLLFLSFQLM IHVPSIRLAV
51 SGWLFSDHQT GHKGPGSCPG CHNGMDNADK TIAYTNQDGR IRLFKVTTRE
101 FLSSSIWKNP LLPKDTEPVA EIQEIAEEQL LATGSEVSNL SSETLETRT
151 DPIKLKREVF RRKRKEHRIQ ELLQVDKEAE LHMRNVATNR SRNFSNKVRA
201 SYNIWRLQFH HTNTDSTLRL MKDQIIMAKV YATIAHSQKQ PDMYALLMKC
251 IKLCQEAIGD AHMDYELDSS ALERAKAMGH ALSSARDVLY NSDEVSRRLL
301 VMLQSTELNI DSVKKQNSFL VQHAAKTVPM PLHCLHMQLT TDYYFRDGMI
  
```

351 KEYFHDAALK **EEEDK**AKRED RSLYHYAIFS DNVLAASVVV RSTVTHAKEP
 401 EKHVFHIVTD **RLNFAAMTMW** **FIR**HPPLPAT VHVENIDNFK WLNSSYCSVL
 451 RQLESARLKE **YYFK**AHDPSS LSDGNENLKY RNPKYLSMLN HLRFYMP EIH
 501 PKLDKILFLD DDVVVQKDLT PLWDVDLK**GM** **VNGAVETCKE** **SFHRFDTYLN**
 551 **FSHPKIAENF** **DPR**ACGWAFG MNMFDLKEWK KQNITGIYHY WQDLNEDRKL
 601 WKLGTLP PGL ITFYNLTYPL NRNWHVLGLG YDPAVDLAEI ENAAVVHYNG
 651 NYKPWLDLAV SK**YKPYWSKY** **VLDLNSHIQH** **CYMSEQ**

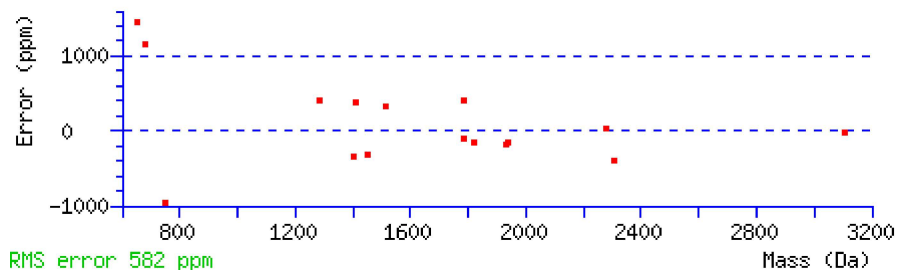
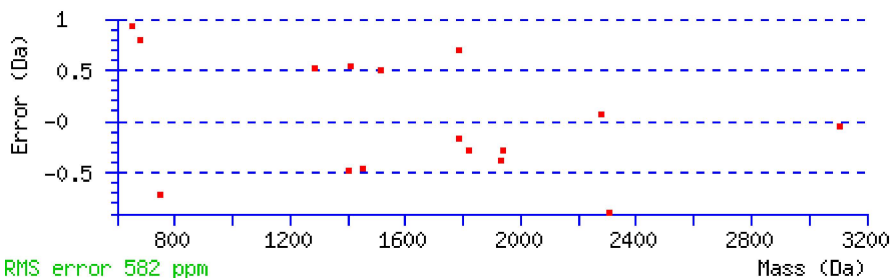
Unformatted sequence string: **686 residues** (for pasting into other applications).

Sort by residue number increasing mass decreasing mass

Show matched peptides only predicted peptides also

Start - End	Observed	Mr (expt)	Mr (calc)	Delta M	Peptide
1 - 13	1414.2130	1413.2057	1412.6758	0.5299 0	-.MAFPSTSSVAYPR.S
2 - 13	1283.1700	1282.1627	1281.6353	0.5274 0	M.AFPSTSSVAYPR.S
2 - 19	1935.6530	1934.6457	1935.0214	-0.3757 1	M.AFPSTSSVAYPRSLSP.LR.R
48 - 63	1783.5950	1782.5877	1781.8849	0.7028 0	R.LAVSGWLFSDHQTGHK.G
64 - 80	1789.5050	1788.4977	1788.6614	-0.1637 0	K.GPGSCPGCHNGMDNADK.T + Oxidation (M)
81 - 92	1407.2470	1406.2397	1406.7266	-0.4869 1	K.TIAYTNQDGRIR.L
109 - 114	682.2220	681.2147	680.4221	0.7926 0	K.NPLLPK.D
207 - 222	1941.7100	1940.7027	1940.9891	-0.2863 1	R.LQFHHTNTDSTLR.LMK.D
277 - 297	2278.1580	2277.1507	2277.0808	0.0700 1	K.AMGHALSSARDVLYNSDEVSR.R
287 - 298	1452.2430	1451.2357	1451.7005	-0.4647 1	R.DVLYNSDEVSR.R.L
361 - 365	650.2080	649.2007	648.2602	0.9405 0	K.EEEDK.A
412 - 423	1517.2540	1516.2467	1515.7366	0.5101 0	R.LNFAAMTMWFIR.H + Oxidation (M)
460 - 464	748.6310	747.6237	748.3432	-0.7194 0	K.EYYFK.A
529 - 544	1821.5560	1820.5487	1820.8298	-0.2811 1	K.GMVNGAVETCKESFHR.F
545 - 563	2310.2160	2309.2087	2310.1069	-0.8982 1	R.FDLYLNFSHPKIAENFDPR.A
663 - 686	3107.3160	3106.3087	3106.3589	-0.0502 1	K.YKPYWSKYVLDLNSHIQH CYMSEQ .- + Oxidation (M)

No match to: 952.9410, 958.7960, 1312.0890, 1365.1830, 1393.2490, 1402.2770, 1436.2680, 1459.3440, 1745.6470, 1764.5250, 1807.4940, 1945.8520, 2071.9490



LOCUS XP_015614956 686 aa linear PLN 07-AUG-2018
 DEFINITION probable galacturonosyltransferase 3 isoform X2 [Oryza sativa Japonica Group].
 ACCESSION XP_015614956
 VERSION XP_015614956.1
 DBLINK BioProject: PRJNA122
 DBSOURCE REFSEQ: accession XM_015759470.2
 KEYWORDS RefSeq.
 SOURCE Oryza sativa Japonica Group (Japanese rice)
 ORGANISM Oryza sativa Japonica Group
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; BOP clade; Oryzoideae; Oryzeae; Oryzinae; Oryza.
 COMMENT MODEL REFSEQ: This record is predicted by automated computational analysis. This record is derived from a genomic sequence (NC_029265.1) annotated using gene prediction method: Gnomon, supported by EST evidence.
 Also see:
 Documentation of NCBI's Annotation Process

 ##Genome-Annotation-Data-START##
 Annotation Provider :: NCBI
 Annotation Status :: Full annotation
 Annotation Name :: Oryza sativa Japonica Group
 Annotation Release 102
 Annotation Version :: 102
 Annotation Pipeline :: NCBI eukaryotic genome annotation pipeline
 Annotation Software Version :: 8.1
 Annotation Method :: Best-placed RefSeq; Gnomon
 Features Annotated :: Gene; mRNA; CDS; ncRNA
 ##Genome-Annotation-Data-END##
 COMPLETENESS: full length.
 FEATURES Location/Qualifiers
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 /organism="Oryza sativa Japonica Group"
 /cultivar="Nipponbare"
 /db_xref="taxon:39947"
 /chromosome="10"
 Protein 1..686
 /product="probable galacturonosyltransferase 3 isoform X2"
 /calculated_mol_wt=79292
 Region 46..685
 /region_name="PLN02910"
 /note="polygalacturonate
 4-alpha-galacturonosyltransferase"
 /db_xref="CDD:215493"
 Region 374..672

/region_name="GT8_like_1"
/note="GT8_like_1 represents a subfamily of GT8 with
unknown function; cd06429"
/db_xref="CDD:133051"
Site order(379..383,493,508,510..512,537,568..570,606..607,
628..629,647,649..650,653)
/site_type="other"
/note="putative ligand binding site"
/db_xref="CDD:133051"
Site order(510,512,647)
/site_type="metal-binding"
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CDS 1..686
/gene="LOC4348449"
/coded_by="XM_015759470.2:399..2459"
/db_xref="GeneID:4348449"

Mascot: <http://www.matrixscience.com/>