

5'-3' exoribonuclease 2 (XRN2), Recombinant Protein

Cat RP01382

Size 0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1

mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana 5'-3' exoribonuclease 2 (XRN2) , partial

Product Gene Name

XRN2 recombinant protein

Product Synonym Gene Name

XRN2

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

PEDIRGSEIT HQIPRLAIPK KTISLVDLKS GLLWHEDGD KRRAPPKVIK IKRYNPEGSI SGRLGKASH
RLVLQQTINAQ PDYMNINSEP ALCPNTVFQN ERVPKIPKF KDNIGIWISP PPSQITPKKM NSPQRQKAWK
KDETPQSREK SKKLLKSSLKV NPLKMKKTKS PQREFTREKK KENITPQRKL TKAQRQVKHI RMMEEAKMIK
QRKKEKYLRK KAKYAQGAPP KTA

Sequence Positions

780-1012. Partial

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

116,385 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

NCBI Accession

NP_199069.1

NCBI GI

15238990

NCBI GenBank Nucleotide

NM_123619.4

NCBI GeneID

834261

NCBI Official Full Name

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NCBI Official Symbol

XRN2

NCBI Official Synonym Symbols

AtXRN2; exoribonuclease 2; EXORIBONUCLEASE 2; K16E1.2; K16E1_2

NCBI Protein Information

exoribonuclease 2

NCBI Summary

Encodes a protein with similarity to yeast 5'-3'exonucleases and can functionally complement the yeast mutations. In Arabidopsis XRN2 acts as a suppressor of posttranscriptional gene silencing.

UniProt Gene Name

XRN2

UniProt Synonym Gene Names

AtXRN2

UniProt Protein Name

5'-3' exoribonuclease 2

UniProt Synonym Protein Names

Protein EXORIBONUCLEASE 2Curated

UniProt Primary Accession

Q9FQ02

UniProt Secondary Accession

Q56WR6; Q570J7; Q9AST0; Q9FH70; Q9FH71

UniProt Related Accession

Q9FQ02

UniProt Comments

Possesses 5'->3' exoribonuclease activity (PubMed:11106401). Acts as an endogenous post-transcriptional gene silencing (PTGS) suppressor. Degrades miRNA-derived loops, excised during miRNA maturation in the nucleus (PubMed:17993620). Involved in pre-rRNA processing. Involved in the primary exonucleolytic shortening of the 5' external transcribed spacer (5'ETS), required for endonucleolytic processing at site P by the U3 snoRNP complex. Involved with XRN3 in the 5'-end processing of 5.8S and 25S rRNAs. Contributes with XRN3 to polyadenylation-dependent nuclear RNA surveillance. Involved in the degradation of aberrant polyadenylated pre-rRNA through 5'-end processing (PubMed:20338880).

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