

Product datasheet for **RR212946**

Xpnpep3 (NM_001130582) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xpnpep3 (NM_001130582) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Xpnpep3
Synonyms:	APP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR212946 representing NM_001130582
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTCTCTGCTCTCAACCCAGGCTGGTTCCCGTTATAGCAAGGCTCCGCGCCTCTCAGGATGCA
 TGTGATGTTTACAGCGAAGGTAAGTCCCTCCAGCCGGTGCCAGTAAAGGAAATCCAAACCGTACTTAGG
 CCAGCCCAGCCCGTTACACATCCACACCTCCTCAGACCAGGGGAGGTGACACCAGGGCTATCTCAGGTG
 GAATATGCACTTCGAAGACATAAACTTATGGCTCTGGTCCACAAAGAAGCACAAGGGCACAGTGGGACAG
 ACCACACAGTGGTGGTCTCTAACCCATAACTATATGAGCAACGACATCCCCTACACCTTCCACCA
 AGACAACAGTTCCTGTATCTTTGTGGATTCCAAGAGCCTGATAGCATTCTGGTCTTCCAGAGTCTCT
 GGAAGCAGTTACCATCCATAAGGCCATGCTTTTGTGCCTCGGAGAGATCCTGGTCGAGAATTGTGGG
 ATGGCCCCGATCTGGCAGGATGGAGCAATAGCCCTAACTGGAGTGGATGACGCCTACCCGCTGGAAGA
 ATTTGACACCTGCTACCCAACTGAGAGCTGAGACGAACATGGTTTGGTATGACTGGATGAAGCCTTCT
 CATGCACAACTTCACTCTGACTACATGCAGCCTCTAACTGAAGCCAAAGCCACGACGAAGAACAAGTTC
 GGAGTGTCCAGCACCTGATACAGCACCTGCGGCTAATTAGTCTCCTGCAGAAATTAAGAGAATGCAGAT
 TGCTGGGAAGCTGACATCAGAGGCTTTCATAGAGACCATGTTTGGCAGTAAAGCTCCAGTAGACGAAGCC
 TTTCTTTATGCGAAGTTTGAATTTGAGTGCCGTGCCGAGGTGCCGACATCTTAGCCTACCCCTGTGG
 TTGCAGGCGGTAATCGTCCAACACTCTGCACTATGTGAAAAATAACCAGCTCATCAAGGATGGTGAAT
 GGTGCTTCTTGATGGAGTTGTGAGTCTTCTGCTATGTGAGTGACATTACCAGGACGTGGCCCGTCAAT
 GGCAGATTCACCGCACCTCAGGCAGAGCTCTATGAAGCTGTTCTAGAAAATCCAAAAGCTTGCTTGACAC
 TGTCTCCCCTGGGACAAGCTTGGAGAATCTACAGCATGATGCTGACACTGATGGGACGAAGCTTAA
 GGATCTGGGGATCATAAAGACCAGCAAGGAAAGCGCCTTCAAGGCTGCTCGAAAATACTGCCTCATCAC
 GTGGGCCATTACCTCGGGATGGATGTCCATGACTCCAGACATGCCTCGTTCACTCCCTCTGCAGCCTG
 GTATGGTATCACGGTTGAACCAGGCATTTATATCCCAGAGGGTACACAGATGCCCCAGAGAAGTTTCG
 AGGTCTCGGAGTTCGGATTGAGGATGATGTAGTGGTACTCAGGACTCACCTCTTATCCTTTCTGCAGAC
 TGTCCTCAAGGAGTGAATGACATTGAGCAGATCTGCAGCAGGACCTCC

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>RR212946 representing NM_001130582
 Red=Cloning site Green=Tags(s)

MLSLSTPRLVPVIARLRLSGCMSCLQRRYSLOPVPVKEIPNRYLGQSPVTHPHLLRPGEVTPGLSQV
 EYALRRHKLMLVHKEAQHSGTDHTVVVLSNPIHYMSNDIPYTFHQDNSFLYLCGFQEPDSILVLQSCS
 GKQLPSHKAMLFVPRRDPGRELWDGPRSGTDGAIALTGVDDAYPLEEFQHLLPKLRAETNMVWYDWMKPS
 HAQLHSDYMQPLTEAKATSKNKVRSVQHLIQHLRLIKSPAIEIKRMQIAGKLTSEAFIETMFASKAPVDEA
 FLYAKFEFECRARGADILAYPPVAVGNGRSNTLHYVKNQLIKDGEMVLLDGGCESSCYVSDITRTWPVN
 GRFTAPQAELEYAVLEIQKACLTLCSPTGSLNIYSMMLTLMGQKLDLGIKTSKESAFKAARKYCPHH
 VGHYLGMDVHDTDPMPRSLPLQPGMIVITVEPGIYIPEGDTDAPEKFRGLGVRIEDDVVVTQDSPLILSAD
 CPKEVNDIEQICSRTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001130582

ORF Size: 1518 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001130582.2](#), [NP_001124054.2](#)

RefSeq Size: 2502 bp

RefSeq ORF: 1521 bp

Locus ID: 685823

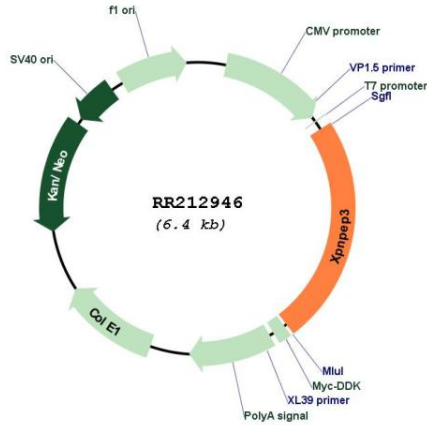
UniProt ID: [B5DEQ3](#)

Cytogenetics: 7q34

MW: 56.5 kDa

Gene Summary: Catalyzes the removal of a penultimate prolyl residue from the N-termini of peptides, such as Leu-Pro-Ala. Also shows low activity towards peptides with Ala or Ser at the P1 position. Promotes TNFRSF1B-mediated phosphorylation of MAPK8/JNK1 and MAPK9/JNK2, suggesting a function as an adapter protein for TNFRSF1B; the effect is independent of XPNPEP3 peptidase activity. May inhibit apoptotic cell death induced via TNF-TNFRSF1B signaling. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR212946