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Product datasheet for MG222865

Xpnpep3 (NM_177310) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xpnpep3 (NM_177310) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Xpnpep3
Synonyms:	APP3; E430012M05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG222865 representing NM_177310
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGTCTCTGCTCTCAACCCCCAAGCTGGCTCCCGTTCTAGCAAGGCTCCGCGGCCTCTCAGGATGCA
TGTCATGTTTACAGCGAAGGTACTCCCTCCAGCCTGCGCCGGTAAAGAAGATTCCAAACCGGTACTTAGG
CCAGCCCAGCCCGGTTACACATCCACACCTCCTCAGACCAGGGGAGGTGACACCAGGGCTATCTCAGGTG
GAATATGCACTTCGAAGACATAAACTTATGGCTCTGGTCCACAAAGAAGCACAAGGGCACAGTGGAACAG
ACCACACAGTGGTGGTACTCTCTAACCCTACGTACTATATGAGCAACGACATCCCCTACACATTCCATCA
AGACAACAACTTCCTGTATCTCTGTGGATTCCAAGAGCCTGATAGCATTCTGGTCCTTCAGAGCTTCTCT
GGGAAGCAGTTACCATCCCATAAGGCCATGCTTTTTGTGCCTCGGAGAGATCCTGGCCGAGAATTGTGGG
ATGGCCCTCGATCTGGCACAGATGGAGCAATAGCCTTAACCGGAGTGGATGAAGCCTACCCGCTGGAAGA
ATTTCAACACCTGCTACCAAAACTGAGAGCTGAGACGAACATGGTTTGGTATGACTGGATGAAGCCTTCT
CATGCACAACTTCACTCTGACTACATGCAGCCTCTAACTGAAGCCAAAGCCAGGAGCAAGAACAAGGTTC
GGAGTGTCCAGCAGCTGATACAGCGCCTAAGGCTGGTTAAGTCTCCTTCAGAGATTAAGAGAATGCAGAT
TGCTGGGAAGCTGACGTCAGAGGCTTTCATAGAGACCATGTTTGCCAGTAAAGCTCCGATAGATGAAGCC
TTTCTTTACGCGAAGTTTGAATTTGAGTGCCGTGCTCGAGGTGCCGACATCTTAGCCTACCCACCTGTGG
TTGCAGGCGGTAATCGCTCCAACACTTTGCACTATGTGAAGAATAATCAACTCATCAAGGATGGTGAGAT
GGTTCTTCTTGATGGAGGCTGTGAATCATCCTGCTATGTGAGTGACATCACCAGGACATGGCCTGTCAAT
GGCAGGCTGCTCGAAAATACTGCCCTCATCATGTTGGCCATTACCTCGGGATGGATGTCCATGACACTCC
AGACATGCCTCGGTCACTCCCTCTGCAGCCTGGAATGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

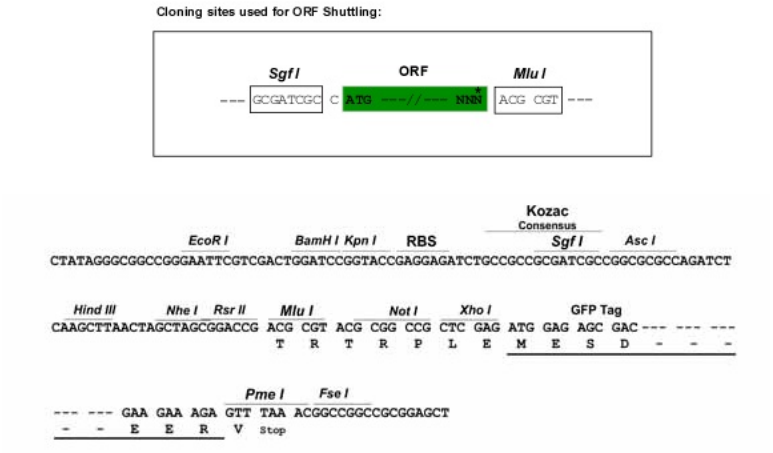
>MG222865 representing NM_177310
Red=Cloning site Green=Tags(s)

MPSLLSTPKLAPVLARLRGLSGCMSCLQRRYSLQPAPVKKIPNRYLGQPSPVTHPHLLRPGEVTPGLSQV
EYALRRHKLMALVHKEAQGHSGTDHTVVVLSNPTYYMSNDIPYTFHQDNNFLYLCGFQEPDSILVLQSFS
GKQLPSHKAMLFVPRRDPGRELWDGPRSGTDGAIALTGVDEAYPLEEFQHLLPKLRAETNMVWYDWMKPS
HAQLHSDYMQPLTEAKARSKNKVRSVQQLIQRLRLVKSPSEIKRMQIAGKLTSEAFIETMFASKAPIDEA
FLYAKFEFECRARGADILAYPPVVAGGNRSNTLHYVKNNQLIKDGEMVLLDGGCESSCYVSDITRTWPVN
GRLLENTALIMLAITSGWMSMTLQTCLGHSLCSLEW

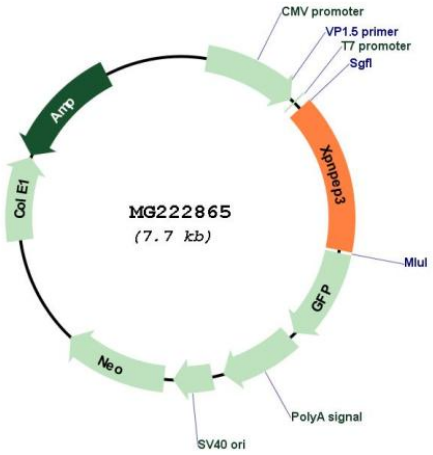
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177310

ORF Size:	1158 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_177310.3
RefSeq Size:	3236 bp
RefSeq ORF:	1161 bp
Locus ID:	321003
UniProt ID:	B7ZMP1
Cytogenetics:	15 E1
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]