

Product datasheet for **MG218283**

Rnpep (NM_001159624) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnpep (NM_001159624) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rnpep
Synonyms:	MGC29229
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218283 representing NM_001159624
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAGCGGGCGACCAGGCAACTACAGCGCGGCCGCCCGCGGCCACTGCACTCGGCCAAGCCGTGG
 ACGTGGCCTCGGCCTCCAGCTTCCGCGCCTTCGAGATCCTGCACCTGCACCTGGACTGCGGGCCGAGTT
 CGGGCCTCCGGGCCCGGGTCCGGGAAGCCGCGGATTGAGCGGCACGGCGACGCTGGAGCTGCGTTGTTTG
 CTTCCCGAGGGCGCCTCGGAGCTGCGGCTCGACTCGCACAGCTGCTTGGAGGTGACGGCGGCAGCTGC
 GACGGGGACAGCCGGGAGACCAGCAGGCCCGGCAGAGCCGTGCCTTTCCACACACAGCCCTTCTCGCA
 CTATGGCCAGGCCCTGTGCGTGGCCTTCCGGCAGCCCTGCGGTGCCGCCGATCGTTGAGCTGGAGCTC
 ACCTACCGCGTCGGGGAGGGACCCGGGTTTGTGTTGGCTCCTGAGCAGACAGCAGGAAAGAAGAAAC
 CCTTTGTCTATACCCAGGGTCAGGCGGTCTTAACCGAGCCTTTTCCCTTGCTTTGACTCCAGCAGT
 GAAATGCACGTATTCGGCTCTTATTGAGGTTCCAGATGGCTTCCAGCTGTGATGAGTGCAGACACCTGG
 GAGAAGAGAGGACCAAATAAGTTCTTCCAGATGAGCCATCCCATCCCTCCTATCTGATAGCTTTGG
 CCATTGGAGATCTGGCTTCACTGAGGTTGGACCCAGGTATGACTTGCTCTTTATGCCACCGTCTTTCC
 ATTTGGAGGAATGGAAAATCCTTGCTGACCTTTGTCACTCCGTGCTGCTAGCAGGGGACCGCTCGTTA
 GCCGACGTTATCATCCATGAGATCTCCACAGTTGGTTTGGGAACCTGGTACCAATGCCAACTGGGGGG
 AGTTCTGGCTCAATGAAGGCTTACCATGTATGCCAGAGGAGGATCTCCACCATCTGTTTGGAGCTGC
 TTACACTTGCTTGGAGGCTGCCACAGGGAGGGCTCTGCTGCGTCAGCACATGAATGTCTCCGGAGAGGAA
 AACCCACTCAACAAGCTCCGGTGAAGATTGAACCAGGTGGACCCCGATGACACCTACAATGAGACCC
 CCTACAGAAAAGTTACTGCTTTGTCTCATACCTGGCCACCTGGTGGGTGATCAGGATCAGTTTGACAA
 GTTTCTCAAGGCCATGTAGATGAGTTAAATTCCAAGTATCTTGGCTGAAGACTTTCTGGAAATCTAC
 CTGGAGTATTTCCCTGAGTTGAAGAAGAAGGGAGTAGATTCCATTCCAGTTTTGAGTTTATCGATGGC
 TGAACACCCCTGGATGGCCCCCTACCTCCCGACCTCTCCCTGGGGACTCACTCATGAAGCCAGCTGA
 AGAGCTGGCAGAAGTGTGGGTGACCTCAGAGCCAGACATGCAAGCCATTGAAGCCGTGGCCATCTTACC
 TGGAAAGACCTACCAGCTTGTCTACTTCTAGATAAAGATCTGCAGAAGTCTCCTCTCCCTCTGGGAATG
 TGAAAAAAGTGGGGAGACATACCCAAAGATTTCCAATGCTCAGAATGCTGAGTTACGGCTAAGTGGGG
 CCAATCATCCTAAGAATGACTACCAAGAGGAATTCAGAAAAGTGAAGGACTTCTGCAGAGCCAGGGA
 AAGCAGAAGTACTCTGCTCTGTACCACCCATGATGGGTGGCAGTGAAGTGGCCCGGACCTGGCCA
 AGGACACCTTTGCCGCCACTGCTTCCAGCTCCACAGCAACGTCGCAACTATGTCCAGCAGATCTGGC
 GCCAAGGACAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218283 representing NM_001159624
 Red=Cloning site Green=Tags(s)

MESGGPGNYSAARRPLHSAQAVDVAASSFRAFEILHLHLDLRAEFGPPGPGPSRGLSGTATLELRCL
 LPEGASELRLDHSCLEVTAAATLRRGQPGDQQAPEVPFHTQPF SHYQQALCVAFRQPCGAADRFELEL
 TYRVGEGPGVCLAPEQTAGKKKPFVYTQQAVALNRAFFPCFDTPAVKCTYSALIEVPDGF TAVMSADTW
 EKRGPNKFFFQMSHPIPSYLIALLAIGDLASAIEVGPYDILLFPPSFPFGGMENPCLTFVTPCLLAGDRSL
 ADVIIHEISHSWFNLVTNANWGEFWLNEGFTMYAQRRISTILFGAAYTCLAAATGRALLRQHNMVSGEE
 NPLNKL RVKIEPGVDPDDTYNETPYEKGYCFVSYLAHLVGDQDQDFDKFLKAYVDEFKFSILAEDFLEFY
 LEYFPELKKKGVDSIPGFEFDRWLNTPGWPPYLPDLSPGDSLMPAEELAEWLTSEPDMQAI EAVAIST
 WKTYQLVYFLDKILQKSPLPPGNVKKLGETYPKISNAQNAELRLRWGQIILKNDYQEEFQVKVDFLQSQG
 KQKYTLPLYHAMMGSEMARTLAKDTFAATASQLHSNVVNVYVQILAPKDS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001159624

ORF Size: 1833 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_001159624.1](#), [NP_001153096.1](#)

RefSeq Size: 2184 bp

RefSeq ORF: 1836 bp

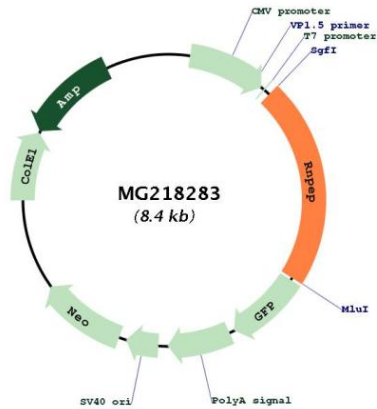
Locus ID: 215615

UniProt ID: [Q8VCT3](#)

Cytogenetics: 1 E4

Gene Summary: Exopeptidase which selectively removes arginine and/or lysine residues from the N-terminus of several peptide substrates including Arg(0)-Leu-enkephalin, Arg(0)-Met-enkephalin and Arg(-1)-Lys(0)-somatostatin-14. Can hydrolyze leukotriene A4 (LTA-4) into leukotriene B4 (LTB-4) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218283