

Product datasheet for **RG209037**

NPEPPS (NM_006310) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPEPPS (NM_006310) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NPEPPS
Synonyms:	AAP-S; MP100; PSA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG209037 representing NM_006310
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGGCTGGCAGCTGCCCCCCCTCCCTCGCTCGCCGCTGCTCTTCTCGGCCCTCCGCCTCTCCCC
 TCCTCCTTCTCGTCTTACGCCGCTCCTCTCGCCGCGCCTCCACAGCCTGGGCCTCGCCCGATGCCGGA
 GAAGAGGCCCTTCGAGCGGCTGCCTGCCGATGTCTCCCCATCAACTACAGCCTTTGCTCAAGCCCGAC
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 CAGCGGAAGGCCACACCCACAGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209037 representing NM_006310
 Red=Cloning site Green=Tags(s)

MWLAAPSLARRLLFLGPPPPPLLLLVSRRSRRRLHSLGLAAMPEKRPFERLPADVSPINYSLCLKPD
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 TGTLKIDFVGLNNDKMKGFYRSKYTTSPGEVRYAAVTQFEATDARRAFPCWDEPAIKATFDISLVVPKDR
 VALSNMNVIDRKPYPDDENLVEVKFARTPVMSTYLVAFVVGGEYDFVETRSKDGVCVRVYTPVGKAEQGF
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 GHELAHQWFGNLVTMEWTHLWLNELGASWIEYLCVDHCFPEYDIWTQFVSADYTRAQELDALDNSHP
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 AAVMNTWTKQMGFPLIYVEAEQVEDRLLRLSQQKFCAGGSYVGEDCPQWMPITISTSEDPNQA
 LKILMDKPEMNVVKNVVKPDQWVKNLGTGVGYRTQYSSAMLESLLPGIRDLSLPPVDRGLQNDLFLS
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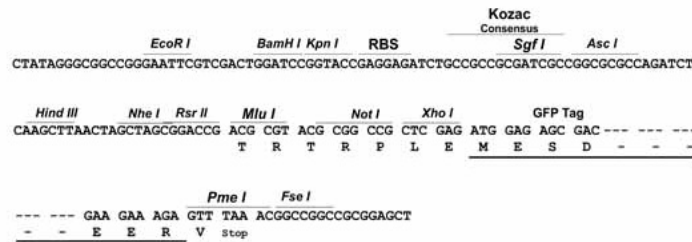
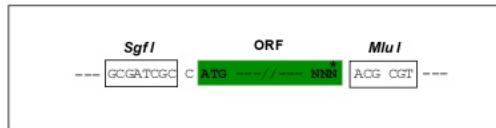
TRTRPLE – GFP Tag – V

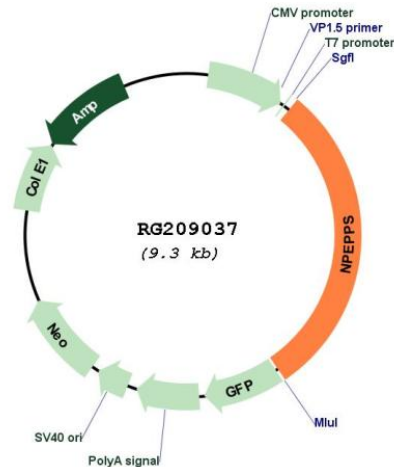
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_006310

ORF Size: 2757 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_006310.4](#)

RefSeq Size: 4364 bp

RefSeq ORF: 2760 bp

Locus ID: 9520

UniProt ID: [P55786](#)

Cytogenetics: 17q21.32

Domains: Peptidase_M1

Protein Families: Druggable Genome, Protease

Gene Summary: This gene encodes the puromycin-sensitive aminopeptidase, a zinc metallopeptidase which hydrolyzes amino acids from the N-terminus of its substrate. The protein has been localized to both the cytoplasm and to cellular membranes. This enzyme degrades enkaphalins in the brain, and studies in mouse suggest that it is involved in proteolytic events regulating the cell cycle. [provided by RefSeq, Jul 2008]