

Product datasheet for **RG214837**

PGPEP1 (NM_017712) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PGPEP1 (NM_017712) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PGPEP1
Synonyms: PAP-I; Pcp; PGI; PGP; PGP-I; PGPI
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG214837 representing NM_017712
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCAGCCGAGGAAGGCGGTGGTAGTGACGGGATTTGGCCCTTTGGGGAACACACCGTGAACGCCA
GTTGGATTGCAGTTCAGGAGCTAGAAAAGCTAGGCCTTGGCGACAGCGTGGACCTGCATGTGTACGAGAT
TCCGGTTGAGTACCAAACAGTCCAGAGACTCATCCCCGCCCTGTGGGAGAAGCACAGTCCACAGCTGGT
GTGCATGTGGGGGTGTCAGGCATGGCGACCACAGTCACTGGAGAAATGTGGACACAACAAGGGCTACA
AGGGGCTGGACAACCTGCCGCTTTTGCCTCCAGTCTGCGTGGAGGACGGCCTGAAAGCATTGA
CTCCATCATCGACATGGATGCTGTGTGCAAGCGAGTACCACGTTGGGCCTGGATGTGTCGGTGACCATC
TCGAGGATGCCGGCAGATATCTCTGCGACTTTACCTACTACACCTCTTTGTACCAGAGTCACGGTCGAT
CAGCCTTCGTCCAGTGCCTCCACTGGGGAAGCCGTACAACGCGGACCAGCTGGGCAGGGCACTGAGAGC
CATCATTGAGGAGATGTTGGACCTCTGGAGCAGTCAGAGGGCAAATCAACTATTGCCACAAACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214837 representing NM_017712
Red=Cloning site Green=Tags(s)

MEQPRKAVVVTGFGPFGHEHTVNASWIAVQELEKLGSDSVDLHVYEIPVEYQTVQRLIPALWEKHSPQLV
VHVGVSMMATTVTLEKCGHNKGYKGLDNCRCFPGSQCCVEDGPESIDSIIDMDAVCKRVTTGLDVSVTI
SQDAGRYLCDFTYYTSLYQSHGRSAFVHVPPLGKPYNADQLGRALRAIEEMLDLLEQSEGKINYCHKH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_017712

ORF Size: 627 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_017712.4](#)

RefSeq Size: 2239 bp

RefSeq ORF: 630 bp

Locus ID: 54858

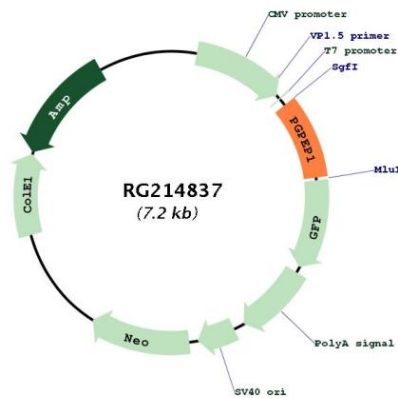
UniProt ID: [Q9NXJ5](#)

Cytogenetics: 19p13.11

Protein Families: Druggable Genome, Protease

Gene Summary: The gene encodes a cysteine protease and member of the peptidase C15 family of proteins. The encoded protein cleaves amino terminal pyroglutamate residues from protein substrates including thyrotropin-releasing hormone and other neuropeptides. Expression of this gene may be downregulated in colorectal cancer, while activity of the encoded protein may be negatively correlated with cancer progression in colorectal cancer patients. Activity of the encoded protease may also be altered in other disease states including in liver cirrhosis, which is associated with reduced protease activity, and in necrozoospermia, which is associated with elevated protease activity. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG214837