

Product datasheet for **MG201759**

Pebp1 (NM_018858) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pebp1 (NM_018858) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pebp1
Synonyms: HCNP; Pbp; Pbp1; Pbp; Rkip
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201759 representing NM_018858
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGCCGACATCAGCCAGTGGGCCGGCCCTTGTGCTTGACAGGAGTGGACGAGCCGCCAGCAGC
 CCCTGCGGGTGGTACGCGGGGTGACGGTGGACGAGCTGGGCAAAGTGCTAACGCCACCCAGGTTAT
 GAACAGGCCAGCAGCATTTTCATGGGACGGCCTTGATCCTGGGAACTCTACACCCTGGTCTCACAGAC
 CCCGATGCTCCAGCAGGAAGGATCCCAAATTCAGGGAGTGGCACCCTCCTGGTGGTCAACATGAAGG
 GTAATGACATTAGCAGTGGCACTGTCTCTCAGATTATGTGGCTCCGGGCTCCAGTGGCACAGGTCT
 CCACCGCTATGTCTGGCTGGTGTACGAGCAGGAACAGCCGCTGAGCTGCGACGAGCCATTCTCAGCAAC
 AAGTCTGGAGACAATCGCGCAAGTTCAAGGTGGAGACCTTCGCAAGAAGTATAACCTGGGAGCCCGG
 TGGCGGGCACGTGCTACCAAGCCGAGTGGGATGACTATGTGCCAAGCTGTACGAGCAGCTGCAGGGAA
 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201759 representing NM_018858
 Red=Cloning site Green=Tags(s)

MAADISQWAGPLCLQEVDPEPPQHALRVDYAGVTVDLGGKVLTPQTVMNRPSSISWDGLDPGKLYTLVLT
 PDAPSRKDPKFRWHHFLVVMKGNDISSGTVLSDYVSGPSPGTGLHRYVWLVYEQEQLSCDEPILSN
 KSGDNRGKFKVETFRKKNLGLAPVAGTCYQAEWDDYVPKLYEQLSGK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

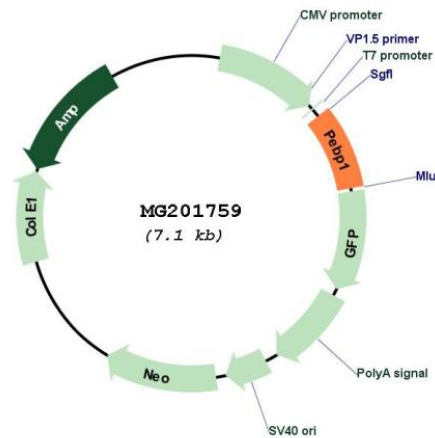


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Cloning Scheme:



Plasmid Map:



ACCN: NM_018858

ORF Size: 561 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_018858.2](#), [NP_061346.2](#)

RefSeq Size: 1217 bp

RefSeq ORF: 564 bp

Locus ID: 23980

UniProt ID: [P70296](#)

Cytogenetics: 5 56.88 cM

Gene Summary: Binds ATP, opioids and phosphatidylethanolamine. Has lower affinity for phosphatidylinositol and phosphatidylcholine. Serine protease inhibitor which inhibits thrombin, neuropsin and chymotrypsin but not trypsin, tissue type plasminogen activator and elastase. Inhibits the kinase activity of RAF1 by inhibiting its activation and by dissociating the RAF1/MEK complex and acting as a competitive inhibitor of MEK phosphorylation (By similarity).[UniProtKB/Swiss-Prot Function]