

Product datasheet for **MG225619**

Prom1 (NM_001163581) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prom1 (NM_001163581) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prom1
Synonyms:	4932416E19Rik; AC133; CD133; Prom; Prom-1; Proml1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG225619 representing NM_001163581
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCTCGTCTTCAGTGCCCTGCTGTTACTGGGGCTGTGTGGAAGATCTCTTCAGAAGTCCAGCCTG
 CATTCCATAACACTCCTGGGGCTATGAATTATGAATTGCCTACCACCAAATATGAGACCCAAGATACCTT
 CAATGCTGGGATTGTTGGCCCTCTCTACAAAATGGTGCACATCTTCTCAACGTGGTCCAGCCGAATGAC
 TTCCCTCTAGATTTGATCAAAAACTCATACAGAACAAGAAGCTTTGACATCTCAGTTGATCCAAGGAGA
 TCGGAGTCTTATCTGCGCCATCCTGGGACTGCTGTTTATTATCCTCATGCCTCTGGTGGGCTGTTCTT
 TTGTATGTGCCGTTGCTGCAACAAATGCGGGGAGAGATGCACCAGCGCAGAAGCAGAATGCGCCATGC
 AGGAGGAAGTCTGGGCTCTCCCTCCTGGTATTTGTCTGCTCATGAGCCTTGGCATTATATATGGCT
 TTGTGGCTAACCCAGCAGACCAGGACTCGGATCAAAGGGACCCAGAACTGGCAAAGCAATTTTCAGAGA
 CTTTCAAACACTCCTGACTGAAACACCAAAGCAAATTGACTATGTAGTGGAGCAGTACACCAACACCAAG
 AACAAAGGCATTCTCAGACTGGATGGCATCGGCTCCGTGCTGGGAGGCAGAATAAAGGACCAACTAAAAC
 CCAAAGTAACTCCTGTCCTCGAAGAGATTAAGGCCATGGCGACAGCCATCAAACAGACCAAGGATGCCCT
 GCAGAACATGAGCAGCAGCCTGAAAAGTCTCCAAGATGCAGCCACCCAGCTCAATACCACTGAGCTCT
 GTGAGAAACAGCATCGAGAATTCGCTCAGCAGCAGTACTGTACCTCAGATCCAGCCAGCAAGATCTGCG
 ATAGCATCAGACCAAGCCTAAGCAGTCTGGGGAGCAGCCTCAATCAAGTCAAGGGTATACGACAATTGA
 TGAAATACCCAATACAATACAAAACCAACTGTGGATGTCATCAAAGACGTCAAAAATACCTTGGACTCC
 ATTAGCTCCAACATTAAGGACATGAGCCAAAGTATTCCTATTGAGGATATGCTGTTACAGGTCTCCCAT
 ACCTTAAACAGCAACAGATACTTAAACCAGGAGCTGCCAAGCTGGAAGAATATGACTCGTACTGGTG
 GCTGGGTGGCTTGATTGTCTGCTTCTGCTGACTCTCATTGTGACCTTCTTTTTCTGGGCTTGCTGTGT
 GGTGTGTTGGCTATGACAAGCATGCCACCCAACTAGAAGAGGCTGTGTGTCCAACACTGGAGGCATCT
 TCCTCATGGCTGGGGTTGGATTCGGCTTCTTTTTGCTGGATATTGATGATCCTTGTTGTTCTTACGTT
 TGTTGTTGGTGCAATGTGAAAAGTGTCTGCGAACCTTATGAAAACAAGAAATATTACAGTTTTG
 GACTCCCTATCTGCTCAAGGAACAATGGCAATTTTATCTTCTGGCATGCTATTCAATAACCCAGACA
 TTAACATGACCTTTGAGCAAGTCTACAGGGATTGCAAAGAGGTGAGGTATATGCTGCTTTTCAGCT
 TGAGAATGTCGCAACGTCAGTGATCATTTCAACATTGACCAGATTTCTGAAAACATAAATACGGAGTTG
 GAAAACCTGAATGTGAACATTGATAGCATTGAACTGTTGGATAACACAGGAAGGAAGAGCCTCGAGGACT
 TTGCACATTCTGGGATAGATAACAATCGATTATTCCACATACTTGAAGGAGACTGAGAAATCCCCTACTGA
 AGTGAATCTGCTGACATTTGCCTCTACCCTGGAAGCAAAAAGCAAACAGTTGCCTGAAGGAAAGCTGAAA
 CAGGCCTTCTTACTGGATGTACAGAATATAAGAGCCATCCACCAGCATCTCCTCCCTCCTGTGCAGCAAT
 CACTGAATACGTTAAGACAAAGTGTCTGGACCCTCCAGCAAACAAGCAACAAGTTGCCGGAGAAAGTGAA
 GAAGATCCTTGCCTCTTTGGACTCTGTTTCCAGCATTCTCACCATAACGTTTCCCTCATCGTTATCGGG
 GAAACGAAGAAGTTTGGAAAACAATACTAGGCTACTTTGAACATTATCTGCACTGGGTCTTTTATGCCA
 TCACAGAGAAGATGACATCCTGCAAACCCATGGCCACCGCATGGACTCTGCTGTTAATGGCATTCTGTG
 TGGCTATGTTGCGGACCCTCTGAATTTGTTCTGGTTCGGCATAGGGAAGCCACGGTCTTACTTCCG
 GCTGTAATCATTGCTATCAAGCTGGCCAAGTACTATCGCAGGATGGATTCAGAGGATGTATACGACGACT
 CGTCCGCTCGGGGATGTGGCATTTCACTTTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG225619 representing NM_001163581
 Red=Cloning site Green=Tags(s)

```

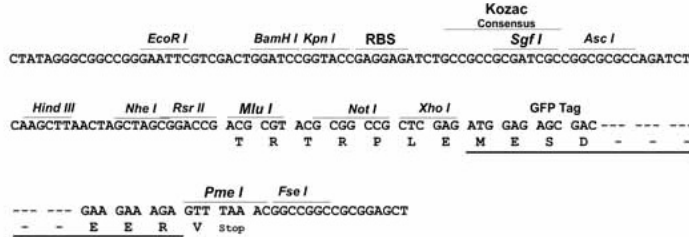
MALVFSALLLLGLCGKISSEGQPAFHNTPGAMNYELPTTKYETQDTFNAGIVGPLYKMHIFLNVVQPN
FPLDLIKKLIQKNFDISVDSKEIGVLICAILGLLFIILMPLVGCFCCMCRCCKCGGEMHQKQONAPC
RRKCLGLSLLVICLLMSLGIYGFVANQQTRTRIKGTQKLAKSNFRDFQTLLETTPKQIDYVVEQYNTK
NKAFSDLGIGSVLGGRIKQDKPKVTPVLEEIKAMATAIKQTKDALQNMSSSLKSLQDAATQLNTNLSS
VRNSIENSLSSSDCTSDPASKICDSIRPSLSSLGSSLNSSQGYTTIDEIPNTIQNQTVVDVIKDVKNTLDS
ISSNIKDMSQSIPIEDMLLQVSHYLNNSNRYLNQELPKLEEYDSYWVLGGLIVCFLLTLIVTFFFLGLLC
GVFGYDKHATPTRRGCVSNTGGIFLMAGVGFGLFCWILMILVVLTFFVVGANVEKLLCEPYENKLLQVL
DTPYLLKEQWQFYLSGMLFNNPDINMTFEQVYRDCKRGRGIYAAFQLENVVNVSDHFNIDQISENINTEL
ENLNVNIDSIELLDNTGRKSLEDFAHSGIDTIDYSTYLKETEKSPTENVLLTFASTLEAKANQLPEGKLL
QAFLLDVQNIQRAIHQHLPPVQQLNLRQSVWTLQQTSNKLPEKVKKILASLDSVQHFLTNNVSLIVIG
ETKKFGKTIILGYFEHYLHWVFYAITEKMTSCKPMATAMDSAVNGILCGYVADPLNLFWFVGIGKATVLLLP
AVIIAIAIKLAKYYRRMDSYDDSSVSGMWHFTL
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



- ACCN:** NM_001163581
- ORF Size:** 2412 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_001163581.1](#), [NP_001157053.1](#)

RefSeq Size: 2638 bp

RefSeq ORF: 2415 bp

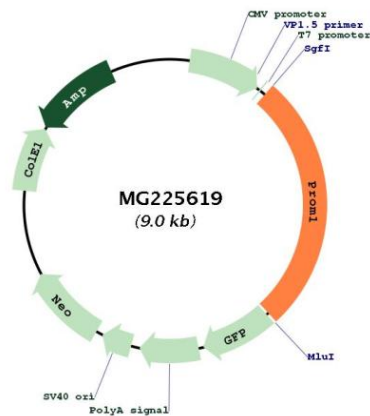
Locus ID: 19126

UniProt ID: [O54990](#)

Cytogenetics: 5 B3

Gene Summary: May play a role in cell differentiation, proliferation and apoptosis. Binds cholesterol in cholesterol-containing plasma membrane microdomains and may play a role in the organization of the apical plasma membrane in epithelial cells. During early retinal development acts as a key regulator of disk morphogenesis (PubMed:19228982). Involved in regulation of MAPK and Akt signaling pathways. In neuroblastoma cells suppresses cell differentiation such as neurite outgrowth in a RET-dependent manner.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225619