

Product datasheet for **MG225625**

Prom1 (NM_001163584) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prom1 (NM_001163584) 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)



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ORF Nucleotide Sequence:

>MG225625 representing NM_001163584
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCTCGTCTTCAGTGCCCTGCTGTTACTGGGGCTGTGTGGAAGATCTCTTCAGAAGTCCAGCCTG
 CATTCCATAACACTCCTGGGGCTATGAATTATGAATTGCCTACCACCAAATATGAGACCCAAAGATACCTT
 CAATGCTGGGATTGTTGGCCCTCTCTACAAAATGGTGCACATCTTCTCAACGTGGTCCAGCCGAATGAC
 TTCCCTCTAGATTTGATCAAAAACTCATACAGAACAAGAAGCTTTGACATCTCAGTTGATTTCCAAGGAGA
 TTGCCCTCTATGAGATCGGAGTCTTATCTGCGCCATCCTGGGACTGCTGTTTATTATCCTCATGCCTCT
 GGTGGGCTGCTTCTTTGTATGTGCCGTTGCTGCAACAAATGCGGCGGAGAGATGCACCAGCGGCAGAAG
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 AGGACCAACTAAAACCCAAAGTAACTCCTGTCCCTCGAAGAGATTAAAGCCATGGCGACAGCCATCAAACA
 GACCAAGGATGCCTGCAGAACATGAGCAGCAGCCTGAAAAGTCTCCAAGATGCAGCCACCCAGCTCAAT
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 GCACTGGGTCTTTATGCCATCACAGAGAAGATGACATCCTGCAAACCCATGGCCACCCGATGGACTCT
 GCTGTTAATGGCATTCTGTGTGGCTATGTTGCGGACCCTCTGAATTTGTTCTGGTTCGGCATAGGGAAAG
 CCACGGTCTCTTACTCCGGCTGTAATCATTGCTATCAAGCTGGCCAAGTACTATCGCAGGATGGATTC
 AGAGGATGTATACGACGACCCGCTCTCGATAC

ACGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG225625 representing NM_001163584
 Red=Cloning site Green=Tags(s)

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MALVFSALLLLGLCGKISSEGQPAFHNTPGAMNYELPTTKYETQDTFNAGIVGPLYKMHIFLNVVQPN
FPLDLIKKLIQKNFDISVDSKEIALYEIGVLICAILGLLFIILMPLVGCFCCMCRCCKCGGEMHQ
QNAPCRRKCLGLSLLVICLLMSLGIYGFVANQQTRTRIKGTQKLAKSNFRDFQTLTETPKQIDYV
YTNTKNKAFSDLDGIGSVLGGRIKDQLKPKVTPVLEEIKAMATAIKQTKDALQNMSSSLKSLQDA
ATQLNTNLSSVRNSIENSLSSDCTSDPASKICDSIRPSLSSLGSSLNSSLPSVDRELNTVTEVDK
TDLESLVKRGYTTIDEIPNTIQNTVDVIKDVKNTLDSISSNIKDMSQSIPIEDMLLQVSHYLNNS
RNYLNQELPKLE EYDSYWWLGGLIVCFLLTLIVTFFFLGLLCGVFGYDKHATPTRRGCVSNTGG
IFLMAGVGFGLFCWILM ILVVLTFVVGANVEKLLCEPYENKLLQVLDTPYLLKEQWQFYLSGML
FNNPDINMTFEQVYRDCKRGRG IYAAFQLENNVNSDHFNIDQISENINTELENLNVNIDSIELLD
NTGRKSLEDFAHSGIDTIDYSTYLKE TEKSPTEVNLLTFASTLEAKANQLPEGKLNKQAFLLD
VQNIQIRAIHQHLLPPVQQLNLRQSVWTLQQTSN KLPEKVKKILASLDSVQHFLTNNVSLI
VIGETKKFGKTIILGYFEHYLHWVFYAITKMTSCKPMATAMDS AVNGILCGYVADPLNLFWF
GIGKATVLLLPAVIAIAIKLAKYYRRMDSSEVYDDPSRY
  
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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_001163584.1](#), [NP_001157056.1](#)

RefSeq Size: 3557 bp

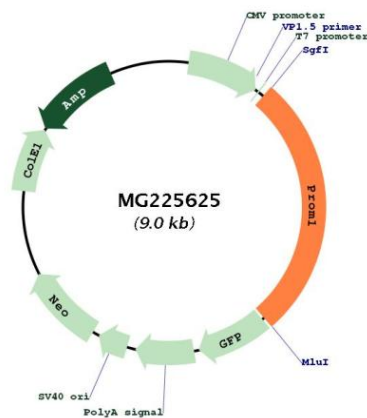
RefSeq ORF: 2484 bp

Locus ID: 19126

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 MG225625