

Product datasheet for **MG225616**

Prom1 (NM_001163578) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prom1 (NM_001163578) 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:

>MG225616 representing NM_001163578
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCTCGTCTTCAGTGCCCTGCTGTTACTGGGGCTGTGTGGAAGATCTCTTCAGAAGTCCAGCCTG
 CATTCCATAACACTCCTGGGGCTATGAATTATGAATTGCCTACCACCAAATATGAGACCCAAGATACCTT
 CAATGCTGGGATTGTTGGCCCTCTCTACAAAATGGTGCACATCTTCTCAACGTGGTCCAGCCGAATGAC
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 GGTGGGCTGCTTCTTTGTATGTGCCGTTGCTGCAACAAATGCGGCGGAGAGATGCACCAGCGGCAGAAG
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 TACACCAACACCAAGAACAAGGCATTCTCAGACCTGGATGGCATCGGCTCCGTGCTGGGAGGCAGATAA
 AGGACCAACTAAAACCCAAAGTAACTCCTGTCCCTCGAAGAGATTAAAGCCATGGCGACAGCCATCAAACA
 GACCAAGGATGCCTGCAGAACATGAGCAGCAGCCTGAAAAGTCTCCAAGATGCAGCCACCCAGCTCAAT
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 GCACTGGGTCTTTATGCCATCACAGAGAAGATGACATCCTGCAAACCCATGGCCACCCGATGGACTCT
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 CCACGGTCTCTTACTTCCGGCTGTAATCATTGCTATCAAGCTGGCCAAGTACTATCGCAGGATGGATTC
 AGAGGATGTATACGACGACTCGTCCGTCTCGGGATGTGGCATTTCACCTTA

ACGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG225616 representing NM_001163578
 Red=Cloning site Green=Tags(s)

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MALVFSALLLLGLCGKISSEGQPAFHNTPGAMNYELPTTKYETQDTFNAGIVGPLYKMHIFLNVVQPN
FPLDLIKKLIQKNFDISVDSKEIALYEIGVLICAILGLLFIILMPLVGCFCCMCRCCKCGGEMHQ
QNAPCRRKCLGLSLLVICLLMSLGIYGFVANQQTRTRIKGTQKLAKSNFRDFQTLLETETPKQIDY
VTNTKNKAFSDLDGIGSVLGGRIKQDKPKVTPVLEEIKAMATAIKQTKDALQNMSSSLKSLQDAAT
TNLSSVRNSIENSLSSSDCTSDPASKICDSIRPSLSSLGSSLNSSLPSVDRELNTVTEVDKTDLES
RGYTTIDEIPNTIQNTVDVIKDVKNTLDSISSNIKDMSQSIPIEDMLLQVSHYLNNSRYLNQELPK
EYDSYWWLGGILVCFLLTLIVTFFFLGLLCGVFGYDKHATPTRRGCVSNTGGIFLMAGVGFGLFC
WILMILVVLTFVVGANVEKLLCEPYENKLLQVLDTPYLLKEQWQFYLSGMLFNNPDINMTFEQY
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LGYFEHYLHWVFYAIKTEKMTSCKPMATAMDSAVNGILCGYVADPLNLFWFGIGKATV
LLLLPAVIAIAIKLAKYYRRMDSSEVYDDSSVSGMWHFTL
  
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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_001163578.1](#), [NP_001157050.1](#)

RefSeq Size: 2728 bp

RefSeq ORF: 2505 bp

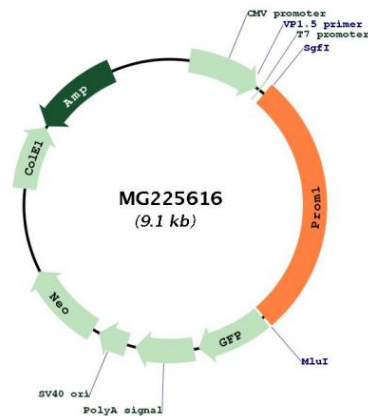
Locus ID: 19126

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 MG225616