

Product datasheet for **MR225619**

Prom1 (NM_001163581) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prom1 (NM_001163581) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prom1
Synonyms:	4932416E19Rik; AC133; CD133; Prom; Prom-1; Proml1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225619 representing NM_001163581
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCTCGTCTTCAGTGCCCTGCTGTTACTGGGGCTGTGTGGAAGATCTCTTCAAGGTCAGCCTG
 CATTCCATAACACTCCTGGGGCTATGAATTATGAATTGCCTACCACCAAATATGAGACCCAAGATACCTT
 CAATGCTGGGATTGTTGGCCCTCTCTACAAAATGGTGCACATCTTCTCAACGTGGTCCAGCCGAATGAC
 TTCCCTCTAGATTTGATCAAAAACTCATACAGAACAAGAAGCTTTGACATCTCAGTTGATCCAAGGAGA
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 TTGTATGTGCCGTTGCTGCAACAAATGCGGCGGAGAGATGCACCAGCGCAGAAGCAGAATGCGCCATGC
 AGGAGGAAGTCTGGGCTCTCCCTCCTGGTATTTGTCTGCTCATGAGCCTTGGCATTATATATGGCT
 TTGTGGCTAACCCAGCAGACCAGGACTCGGATCAAAGGGACCCAGAACTGGCAAAGCAATTTTCAGAGA
 CTTTCAAACACTCCTGACTGAAACACCAAAGCAAATTGACTATGTAGTGGAGCAGTACACCAACACCAAG
 AACAAAGGCATTCTCAGACTGGATGGCATCGGCTCCGTGCTGGGAGGCAGAATAAAGGACCAACTAAAAC
 CCAAAGTAACTCCTGTCCTCGAAGAGATTAAGGCCATGGCGACAGCCATCAAACAGACCAAGGATGCCCT
 GCAGAACATGAGCAGCAGCCTGAAAAGTCTCCAAGATGCAGCCACCCAGCTCAATACCACTGAGCTCT
 GTGAGAAACAGCATCGAGAATTCGCTCAGCAGCAGTACTGTACCTCAGATCCAGCCAGCAAGATCTGCG
 ATAGCATCAGACCAAGCCTAAGCAGTCTGGGGAGCAGCCTCAATCAAGTCAAGGGTATACGACAATTGA
 TGAATACCCAATACAATACAAAACCAACTGTGGATGTCATCAAAGACGTCAAAAATACCTGGACTCC
 ATTAGCTCCAACATTAAGGACATGAGCCAAAGTATTCCTATTGAGGATATGCTGTTACAGGTCTCCCAT
 ACCTTAAACAGCAACAGATACTTAAACCAGGAGCTGCCAAGCTGGAAGAATATGACTCGTACTGGTG
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 GGTGTGTTGGCTATGACAAGCATGCCACCCAACTAGAAGAGGCTGTGTGTCCAACACTGGAGGCATCT
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 TTAACATGACCTTTGAGCAAGTCTACAGGGATTGCAAAGAGGTGAGGTATATATGCTGCTTTTCAGCT
 TGAGAATGTCGTCACGTCAGTGATCATTTCAACATTGACCAGATTTCTGAAAACATAAATACGGAGTTG
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 CAGGCCTTCTTACTGGATGTACAGAATATAAGAGCCATCCACCAGCATCTCCTCCCTCCTGTGCAGCAAT
 CACTGAATACGTTAAGACAAAGTGTCTGGACCCTCCAGCAAACAAGCAACAAGTTGCCGGAGAAAGTGAA
 GAAGATCCTTGCTCTTTGGACTCTGTTTCAGCATTTCCTACCAATAACGTTTCCCTCATCGTTATCGGG
 GAAACGAAGAAGTTTGGGAAAACAATACTAGGCTACTTTGAACATTATCTGCACTGGGTCTTTTATGCCA
 TCACAGAGAAGATGACATCCTGCAAACCCATGGCCACCGCATGGACTCTGCTGTTAATGGCATTCTGTG
 TGGCTATGTTGCGGACCCTCTGAATTTGTTCTGGTTCGGCATAGGGAAGCCACGGTCTTACTTCCG
 GCTGTAATCATTGCTATCAAGCTGGCCAAGTACTATCGCAGGATGGATTCAGAGGATGTATACGACGACT
 CGTCCGCTCGGGGATGTGGCATTTCACCTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225619 representing NM_001163581
 Red=Cloning site Green=Tags(s)

MALVFSALLLLGLCGKISSEGQPAFHNTPGAMNYELPTTKYETQDTFNAGIVGPLYKMHIFLNVVQPND
 FPLDLIKKLIQKNFDISVDSKEIGVLICAILGLLFIILMPLVGCFCCMCRCCKCGGEMHQKQONAPC
 RRKCLGLSLLVICLLMSLGIYGFVANQQTRTRIKGTQKLAKSNFRDFQTLLETETPKQIDYVVEQYTNK
 NKAFLDLGIGSVLGGRIKQDKPKVTPVLEEIKAMATAIKQTKDALQNMSSSLKSLQDAATQLNTNLSS
 VRNSIENSLSSSDCTSDPASKICDSIRPSLSSLGSSLNSSQGYTTIDEIPNTIQNQTVVDVIKDVKNTLDS
 ISSNIKMSQSIPIEDMLLQVSHYLNNSNRYLNQELPKLEEYDSYWVLGGLIVCFLLTLIVTFFFLGLLC
 GVFGYDKHATPTRRGCVSNTGGIFLMAGVGFGLFCWILMILVVLTFFVVGANVEKLLCEPYENKLLQVL
 DTPYLLKEQWQFYL SGMLFNNPDINMTFEQVYRDCKRGRGIYAAFQLENNVNVSDHFNIDQISENINTEL
 ENLNVNIDSIELLDNTGRKSLEDFAHSGIDTIDYSTYLKETEKSPTENVLLTFASTLEAKANQLPEGKLLK
 QAFLLDVQNIQRAIHQHLPPVQQLNLRQSVWTLQQTSNKLPEKVKKILASLDSVQHFLTNNVSLIVIG
 ETKKFGKTIILGYFEHYLHWVFYAITEKMTSCKPMATAMDSAVNGILCGYVADPLNLFWFVGIGKATVLLLP
 AVIIAIAIKLAKYRRMDSYDDSSVSGMWHFTL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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_001163581.1](#), [NP_001157053.1](#)

RefSeq Size: 2638 bp

RefSeq ORF: 2415 bp

Locus ID: 19126

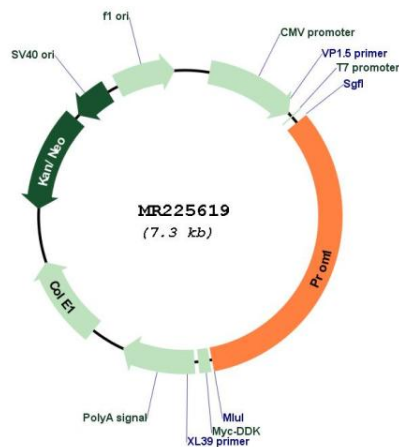
UniProt ID: [O54990](#)

Cytogenetics: 5 B3

MW: 90.5 kDa

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 MR225619