

Product datasheet for **MR225625**

Prom1 (NM_001163584) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR225625 representing NM_001163584
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCTCGTCTTCAGTGCCCTGCTGTTACTGGGGCTGTGTGGAAGATCTCTTCAAGAGTCAGCCTG
 CATTCCATAACACTCCTGGGGCTATGAATTATGAATTGCCTACCACCAAATATGAGACCCAAGATACCTT
 CAATGCTGGGATTGTTGGCCCTCTCTACAAAATGGTGACATCTTCTCAACGTGGTCCAGCCGAATGAC
 TTCCCTCTAGATTTGATCAAAAACTCATACAGAACAAGAAGCTTTGACATCTCAGTTGATTTCCAAGGAGA
 TTGCCCTCTATGAGATCGGAGTCCTTATCTGCGCCATCCTGGGACTGCTGTTTATTATCCTCATGCCTCT
 GGTGGGCTGCTTCTTTGTATGTGCCGTTGCTGCAACAAATGCGGCGGAGAGATGCACCAGCGGCAGAAG
 CAGAATGCGCCATGCAGGAGGAAGTCTTGGGCCCTCTCCCTCTGGTATTTGTCTGCTCATGAGCCTTG
 GCATTATATATGGCTTTGTGGCTAACCAGCAGACCAGGACTCGGATCAAAGGGACCCAGAAACTGGCAA
 GAGCAATTTAGAGACTTTCAAACACTCCTGACTGAAACACCAAAGCAAATTTGACTATGTAGTGGAGCAG
 TACACCAACACCAAGAACAAGGCATTCTCAGACCTGGATGGCATCGGCTCCGTGCTGGGAGGCAGAATAA
 AGGACCAACTAAAACCCAAAGTAACTCCTGTCCCTCGAAGAGATTAAAGCCATGGCGACAGCCATCAAACA
 GACCAAGGATGCCTGCAGAACATGAGCAGCAGCCTGAAAAGTCTCCAAGATGCAGCCACCCAGCTCAAT
 ACCAACCTGAGCTCTGTGAGAAACAGCATCGAGAATTCGCTCAGCAGCAGTACTGTACCTCAGATCCAG
 CCAGCAAGATCTGCGATAGCATCAGACCAAGCCTAAGCAGTCTGGGGAGCAGCCTCAATTCAGTCAGCT
 CCCATCAGTGGATAGAGAATCAACACTGTTACTGAAGTCGACAAAAGTACTGAGAGAGCCTCGTCAA
 AAGGGGTATACGACAATTGATGAAATACCAATACAATACAAAACCAAAGTGGATGTCATCAAAGACG
 TCAAATAACCTTGGACTCCATTAGCTCCAACATTAAGGACATGAGCCAAAGTATTCCTATTGAGGATAT
 GCTGTTACAGGTCTCCCATACCTTAATAACAGCAACAGATACTTAAACCAGGAGCTGCCAAGCTGGAA
 GAATATGACTCGTACTGGTGGCTGGGTGGCTTGATTGTCTGCTTTCTGCTGACTCTCATTGTGACCTTCT
 TTTTCTGGGCTTGTGTGTGGTGTGTTGGCTATGACAAGCATGCCACCCCACTAGAAGAGGCTGTGT
 GTCCAACACTGGAGGCATCTTCTCATGGCTGGGGTTGGATTCCGCTTCTTTTTTGTGGATATTGATG
 ATCCTTGTGGTCTTACGTTTGTGTTGGTGCAAATGTGGAAAAGTTGCTCTGCGAACCTTATGAAAACA
 AGAAATTATTACAGTTTTGGACTCCCTATCTGCTCAAGGAACAATGGCAATTTTATCTTTCTGGCAT
 GCTATTCAATAACCCAGACATTAACATGACCTTTGAGCAAGTCTACAGGGATTGCAAAGAGGTGAGGT
 ATATATGTGCTTTTTCAGCTTGAAGTGTGTCACGTCAGTGTATTTCAACATTGACCAGATTTCTG
 AAAACATAAATACGGAGTTGAAAACCTGAATGTGAACATTGATAGCATTGAACTGTTGGATAACACAGG
 AAGGAAGAGCCTCGAGGACTTTGCACATCTGGGATAGATACAATCGATTATTCCACATACTTGAAGGAG
 ACTGAGAAATCCCTACTGAAGTGAATCTGCTGACATTTGCCTCTACCCTGGAAGCAAAGCAAACCAAGT
 TGCTGAAAGGAAAGCTGAAACAGGCCTTCTACTGGATGTACAGAATAAAGAGCCATCCACCAGCATCT
 CCTCCCTCTGTGCAGCAATCACTGAATACGTTAAGACAAAGTGTCTGGACCCCTCCAGCAAACAAGCAAC
 AAGTTGCCGGAGAAAGTGAAGAAGATCCTTGCCTTTGGACTCTGTTTCCAGCATTTCTCACCATAACG
 TTTCCCTCATCGTTATCGGGAAACGAAGAAGTTTGGGAAAACAATACTAGGCTACTTTGAACATTATCT
 GCACGGGTCTTTTATGCCATCACAGAGAAGATGACATCCTGCAAACCCATGGCCACCCGATGGACTCT
 GCTGTTAATGGCATTCTGTGTGGCTATGTTGCGGACCCCTCTGAATTTGTTCTGGTTCGGCATAGGGAAAG
 CCACGGTCTCTTACTTCCGGCTGTAATCATTGCTATCAAGCTGGCCAAGTACTATCGCAGGATGGATTC
 AGAGGATGTATACGACGACCCGCTCTCGATAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225625 representing NM_001163584
 Red=Cloning site Green=Tags(s)

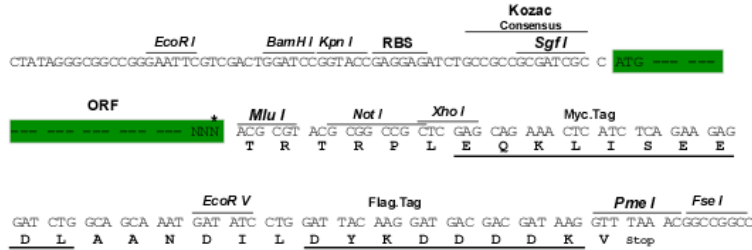
MALVFSALLLLGLCGKISSEGGPAPFHNTPGAMNYELPTTKYETQDTFNAGIVGPLYKMHIFLNVVQPNDFPLDLIKKLIQKNFDISVDSKEIALYEIGVLICAILGLLFIILMPLVGCFCCMCRCCKCGGEMHQKQKQNAPCRRKCLGLSLLVICLLMSLGIYGFVANQQTRTRIKGTQKLAKSNFRDFQTLLETETPKQIDYVVEQYTNTKNKAFSDLDGIGSVLGGRIKDQLKPKVTPVLEEIKAMATAIKQTKDALQNMSSSLKSLQDAATQLNTNLSSVRNSIENSLSSSDCTSDPASKICDSIRPSLSSLGSSLNSSLPSVDRELNTVTEVDKTDLESLVKRGYTTIDEIPNTIQNTVDVIKDVKNTLDSISSNIKDMSQSIPIEDMLLQVSHYLNNSNRYLNQELPKLEYDSYWWLGGGLIVCFLLTLIVTFFFLGLLCGVFGYDKHATPTRRGCVSNTGGIFLMAGVGFGLFCWILMILVVLTFVVGANVEKLLCEPYENKLLQVLDTPYLLKEQWQFYLSGMLFNNPDINMTFEQVYRDCKRGRGIYAAFQLENNVNSDHFNIDQISENINTELENLNVNIDSIELLDNTGRKSLEDFAHSGIDTIDYSTYLKETEKSPTEVNLLTFASTLEAKANQLPEGKPKQAFLLDVQINIRAIHQHLLPPVQQLNLRQSVWTLQQTSNKLPEKVKKILASLDSVQHFLTNNVSLIVIGETKKFGKTIILGYFEHYLHWVFYAITKMTSCKPMATAMDSAVNGILCGYVADPLNLFWFGIGKATVLLLPAVIAIAIKLAKYYRRMDSSEVYDDPSRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001163584

ORF Size: 2481 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_001163584.1](#), [NP_001157056.1](#)

RefSeq Size: 3557 bp

RefSeq ORF: 2484 bp

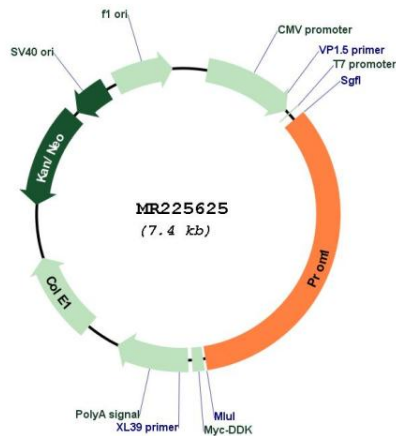
Locus ID: 19126

Cytogenetics: 5 B3

MW: 93.2 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 MR225625