

Product datasheet for **MR225624**

Prom1 (NM_001163583) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prom1 (NM_001163583) 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:

>MR225624 representing NM_001163583
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCTCGTCTTCAGTGCCCTGCTGTTACTGGGGCTGTGTGGAAGATCTCTTCAAGGTCAGCCTG
 CATTCCATAACACTCCTGGGGCTATGAATTATGAATTGCCTACCACCAAATATGAGACCCAAGATACCTT
 CAATGCTGGGATTGTTGGCCCTCTCTACAAAATGGTGACATCTTCTCAACGTGGTCCAGCCGAATGAC
 TTCCCTCTAGATTTGATCAAAAACTCATACAGAACAAGAAGTTTACATCTCAGTTGATTTCCAAGGAGA
 TTGCCCTCTATGAGATCGGAGTCTTATCTGCGCCATCCTGGGACTGCTGTTTATTATCCTCATGCCTCT
 GGTGGGCTGCTTCTTTGTATGTGCCGTTGCTGCAACAAATGCGGCGGAGAGATGCACCAGCGGCAGAAG
 CAGAATGCGCCATGCAGGAGGAAGTCTTGGCCCTCTCCCTCTGGTATTTGTCTGCTCATGAGCCTTG
 GCATTATATATGGCTTTGTGGCTAACCCAGCAGACCAGGACTCGGATCAAAGGGACCCAGAAACTGGCAA
 GAGCAATTTAGAGACTTTCAAACACTCCTGACTGAAACACCAAAGCAAATTGACTATGTAGTGGAGCAG
 TACACCAACACCAAGAACAAGGCATTCTCAGACCTGGATGGCATCGGCTCCGTGCTGGGAGGCAGATAA
 AGGACCAACTAAAACCCAAAGTAACTCCTGTCCCTCGAAGAGATTAAAGCCATGGCGACAGCCATCAAACA
 GACCAAGGATGCCTGCAGAACATGAGCAGCAGCCTGAAAAGTCTCCAAGATGCAGCCACCCAGCTCAAT
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 CCAGCAAGATCTGCGATAGCATCAGACCAAGCCTAAGCAGTCTGGGGAGCAGCCTCAATTCAGTCAGCT
 CCCATCAGTGGATAGAGAATCAACACTGTTACTGAAGTCGACAAAAGTACTGAGAGAGCCTCGTCAA
 AAGGGGTATACGACAATTGATGAAATACCAATACAATACAAAACCAAAGTGGATGTCATCAAAGACG
 TCAAATAACCTTGGACTCCATTAGCTCCAATTAAGGACATGAGCCAAAGTATTCCTATTGAGGATAT
 GCTGTTACAGGTCTCCCATACCTTAATAACAGCAACAGATACTTAAACCAGGAGCTGCCAAGCTGGAA
 GAATATGACTCGTACTGGTGGCTGGGTGGCTTATTGTCTGCTTTCTGCTGACTCTCATTGTGACCTTCT
 TTTTCTGGGCTTGTGTGTGGTGTGTTGGCTATGACAAGCATGCCACCCCACTAGAAGAGGCTGTGT
 GTCCAACACTGGAGGCATCTTCTCATGGCTGGGGTTGGATTGCGCTTCTTTTTTGTGGATATTGATG
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 AGAAATTATTACAGTTTTGGACTCCCTATCTGCTCAAGGAACAATGGCAATTTTATCTTTCTGGCAT
 GCTATTCAATAACCCAGACATTAACATGACCTTTGAGCAAGTCTACAGGGATTGCAAAGAGGTGAGGT
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 TGCTGAAAGGAAAGCTGAAACAGGCCTTCTACTGGATGTACAGAATAAAGAGCCATCCACCAGCATCT
 CCTCCCTCTGTGCAGCAATCACTGAATACGTTAAGACAAAGTGTCTGGACCTCCAGCAAACAAGCAAC
 AAGTTGCCGGAGAAAGTGAAGAAGATCCTTGCCTTTGGACTCTGTTTACGATTTTCTCACAATAACG
 TTTCCCTCATCGTTATCGGGAAACGAAGAAGTTTGGAAAACAATACTAGGCTACTTTGAACATTATCT
 GCATGGGTCTTTTATGCCATCACAGAGAAGATGACATCCTGCAAACCCATGGCCACCCGATGGACTCT
 GCTGTTAATGGCATTCTGTGTGGCTATGTTGCGGACCTCTGAATTTGTTCTGGTTCGGCATAGGGAAAG
 CCACGGTCTCTTACTTCCGGCTGTAATCATTGCTATCAAGCTGGCCAAGTACTATCGCAGGATGGATTC
 AGAGGATGTATACGACGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225624 representing NM_001163583
 Red=Cloning site Green=Tags(s)

MALVFSALLLLGLCGKISSEGGPAPHNTPGAMNYELPTTKYETQDTFNAGIVGPLYKMHIFLNVVQPNDFPLDLIKKLIQKNFDISVDSKEIALYEIGVLICAILGLLFIILMPLVGCFCCMCRCCKCGGEMHQKQKQNAPCRRKCLGLSLLVICLLMSLGIYGFVANQQTRTRIKGTQKLAKSNFRDFQTLLETETPKQIDYVVEQYTNTKNKAFSDLGIGSVLGGRIKDQLKPKVTPVLEEIKAMATAIKQTKDALQNMSSSLKSLQDAATQLNTNLSSVRNSIENSLSSSDCTSDPASKICDSIRPSLSSLGSSLNSSLPSVDRELNTVTEVDKTDLESLVKRGYTTIDEIPNTIQNTVDVIKDVKNTLDSISSNIKDMSQSIPIEDMLLQVSHYLNNSNRYLNQELPKLEYDSYWWLGGGLIVCFLLTLIVTFFFLGLLCGVFGYDKHATPTRRGCVSNTGGIFLMAGVGFGLFCWILMILVVLTFVVGANVEKLLCEPYENKLLQVLDTPYLLKEQWQFYLSGMLFNNPDINMTFEQVYRDCKRGRGIYAAFQLENNVNVSDHFNIDQISENINTELENLNVNIDSIELLDNTGRKSLEDFAHSGIDTIDYSTYLKETEKSPTEVNLLTFASTLEAKANQLPEGKLGKQAFLLDVQINIRAIHQHLLPPVQQLNLRQSVWTLQQTSNKLPEKVKKILASLDSVQHFLTNNVSLIVIGETKKFGKTIILGYFEHYLHWVFYAIKTEKMTSCKPMATAMDSAVNGILCGYVADPLNLFWFGIGKATVLLLPAVIAIAIKLAKYRRMDSSEDEVYDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_001163583

ORF Size: 2469 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_001163583.1](#), [NP_001157055.1](#)

RefSeq Size: 2965 bp

RefSeq ORF: 2472 bp

Locus ID: 19126

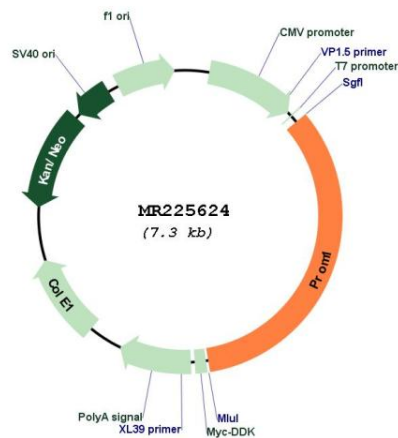
UniProt ID: [O54990](#)

Cytogenetics: 5 B3

MW: 92.7 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 MR225624