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Product datasheet for MR225616

Prom1 (NM_001163578) Mouse Tagged ORF Clone

Product data:

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

>MR225616 representing NM_001163578
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCTCGTCTTCAGTGCCCTGCTGTTACTGGGGCTGTGTGGAAAGATCTCTTCAGAAGGTCAGCCTG
CATTCCATAACACTCCTGGGGCTATGAATTATGAATTGCCTACCACCAAATATGAGACCCAAGATACCTT
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TTGCCCTCTATGAGATCGGAGTCCTTATCTGCGCCATCCTGGGACTGCTGTTCATTATCCTCATGCCTCT
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CAGAATGCGCCATGCAGGAGGAAGTGCTTGGGCCTCTCCCTCCTGGTGATTTGTCTGCTCATGAGCCTTG
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GCTGTTAATGGCATTCTGTGTGGCTATGTTGCGGACCCTCTGAATTTGTTCTGGTTCGGCATAGGGAAAG
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AGAGGATGTATACGACGACTCGTCCGTCTCGGGGATGTGGCATTTCACTTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225616 representing NM_001163578
Red=Cloning site Green=Tags(s)

MALVFSALLLLGLCGKISSEGQPAFHNTPGAMNYELPTTKYETQDTFNAGIVGPLYKMVHIFLNVVQPND
FPLDLIKKLIQNKNFDISVDSKEIALYEIGVLICAILGLLFIILMPLVGCFFCMCRCCNKCGGEMHQRQK
QNAPCRRKCLGLSLLVICLLMSLGIIYGFVANQQTRTRIKGTQKLAKSNFRDFQTLLTETPKQIDYVVEQ
YTNTKNKAFSDLDGIGSVLGGRIKDQLKPKVTPVLEEIKAMATAIKQTKDALQNMSSSLKSLQDAATQLN
TNLSSVRNSIENSLSSSDCTSDPASKICDSIRPSLSSLGSSLNSSQLPSVDRELNTVTEVDKTDLESLVK
RGYTTIDEIPNTIQNQTVDVIKDVKNTLDSISSNIKDMSQSIPIEDMLLQVSHYLNNSNRYLNQELPKLE
EYDSYWWLGGLIVCFLLTLIVTFFFLGLLCGVFGYDKHATPTRRGCVSNTGGIFLMAGVGFGFLFCWILM
ILVVLTFVVGANVEKLLCEPYENKKLLQVLDTPYLLKEQWQFYLSGMLFNNPDINMTFEQVYRDCKRGRG
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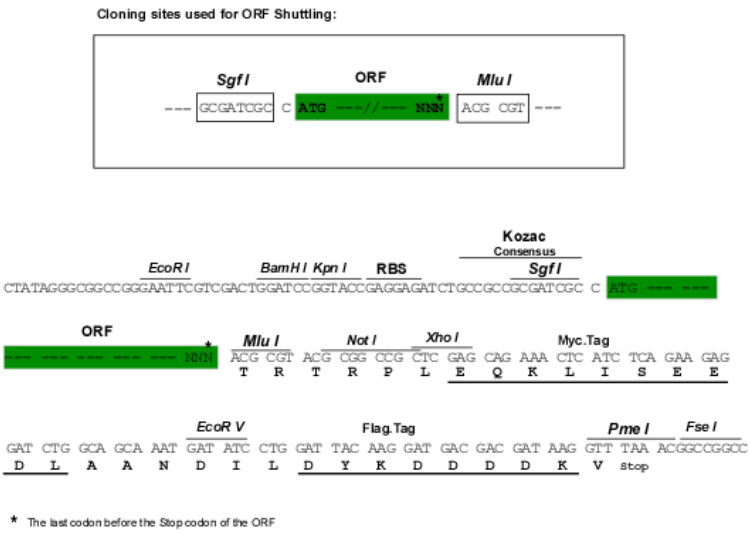
KLPEKVKKILASLDSVQHFLTNNVSLIVIGETKKFGKTILGYFEHYLHWVFYAITEKMTSCKPMATAMDS
AVNGILCGYVADPLNLFWFGIGKATVLLLPAVIIAIKLAKYYRRMDSEDVYDDSSVSGMWHFTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001163578

ORF Size: 2502 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_001163578.1, NP_001157050.1

RefSeq Size: 2728 bp

RefSeq ORF: 2505 bp

Locus ID: 19126

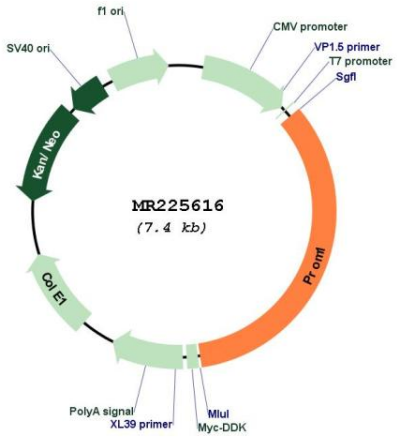
UniProt ID: O54990

Cytogenetics: 5 B3

MW: 93.9 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 MR225616