

Product datasheet for **MR210921**

Prom1 (NM_001163585) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prom1 (NM_001163585) 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:

>MR210921 representing BC028286
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCTCGTCTTCAGTGCCCTGCTGTTACTGGGGCTGTGTGGAAGATCTCTTCAAGAGTCAGCCTG
 CATTCCATAACACTCCTGGGGCTATGAATTATGAATTGCCTACCACCAAATATGAGACCCAAGATACCTT
 CAATGCTGGGATTGTTGGCCCTCTCTACAAAATGGTGCACATCTTCTCAACGTGGTCCAGCCGAATGAC
 TTCCCTCTAGATTTGATCAAAAACTCATACAGAACAAGAAGTTTACATCTCAGTTGATTTCCAAGGAGC
 CAGAAATCATAGTCTTGGCTCTGAAGATTGCCCTCTATGAGATCGGAGTCCTTATCTGCGCCATCTGGG
 ACTGCTGTTTATTATCCTCATGCCTCTGGTGGGCTGCTTCTTTTGTATGTGCCGTTGCTGCAACAAATGC
 GGCGGAGAGATGCACCAGCGGCAGAAGCAGAATGCGCCATGCAGGAGGAAGTGTGGGCCCTCTCCCTCC
 TGGTGATTTGTCTGCTCATGAGCCTTGGCATTATATATGGCTTTGTGGCTAACACGAGACCAGGACTCG
 GATCAAAGGGACCCAGAACTGGCAAAGAGCAATTTAGAGACTTCAAACACTCCTGACTGAAACACCA
 AAGCAAATGACTATGTAGTGGAGCAGTACACCAACACCAAGAACAAGGCATTCTCAGACCTGGATGGCA
 TCGGCTCCGTGCTGGGAGGCAGAATAAAGGACCAACTAAAACCCAAAGTAACTCCTGTCCTCGAAGAGAT
 TAAGGCCATGGCGACAGCCATCAAACAGACCAAGGATGCCCTGCAGAACATGAGCAGCAGCCTGAAAAGT
 CTCCAAGATGCAGCCACCCAGCTCAATACCAACCTGAGCTCTGTGAGAAACAGCATCGAGAATTCGCTCA
 GCAGCAGTGACTGACCTCAGATCCAGCCAGCAAGATCTGCGATAGCATCAGACCAAGCCTAAGCAGTCT
 GGGGAGCAGCCTCAATCAAGTCAGCTCCCATCAGTGGATAGAGAAGTCAACACTGTTACTGAAGTCGAC
 AAACTGATCTGGAGAGCCTCGTCAAAAGGGGGTATACGACAATTGATGAAATACCAATACAATACAAA
 ACCAAACTGTGGATGTCATCAAAGACGTCAAAAATACCTTGACTCCATTAGCTCAACACTAAGGACAT
 GAGCCAAAGTATTCCTATTGAGGATATGCTGTTACAGGTCTCCCATACCTTAATAACAGCAACAGATAC
 TTAACCAGGAGCTGCCAAGCTGGAAGAATATGACTCGTACTGGTGGCTGGGTGGCTTGATTGTCTGCT
 TTCTGCTGACTCTCATTGTGACCTTCTTTTTCTGGGCTTGCTGTGTGGTGTGTTGGCTATGACAAGCA
 TGCCACCCCAACTAGAAGAGGCTGTGTGCCAACACTGGAGGCATCTTCTCATGGCTGGGGTTGGATTC
 GGCTTCTTTTTTGTGGATATTGATGATCCTTGTGGTCTTACGTTTGTGTTGGTGAATGTGGAAA
 AGTTGCTCTGCGAACCTTATGAAAACAAGAAATATTACAGGTTTTGGACTCCCTATCTGCTCAAGGA
 ACAATGGCAATTTTATCTTTCTGGCATGCTATTCAATAACCCAGACATTAACATGACCTTTGAGCAAGTC
 TACAGGGATTGAAAAGAGGTGAGGTATATATGCTGCTTTTACGCTTGAAGATGTCGTCACAGTCAGTG
 ATCATTTC AACATTGACCAGATTTCTGAAAACATAAATACGGAGTTGGAAAACCTGAATGTGAACATTGA
 TAGCATTGAAGTGTGGATAACACAGGAAGGAAGGCCTCGAGGACTTTGCACATTCTGGGATAGATACA
 ATCGATTATCCACATACTTGAAGGAGACTGAGAAATCCCCTACTGAAGTGAATCTGCTGACATTTGCCCT
 CTACCCTGGAAGCAAAGCAAACAGTTGCCTGAAGGAAAGCTGAAACAGGCCTTCTTACTGGATGTACA
 GAATATAAGAGCCATCCACCAGCATCTCCTCCCTCCTGTGCAGCAATCACTGAAATTTGTGAGGGTGAGG
 AATACGTTAAGACAAAGTGTCTGGACCTCCAGCAAACAAGCAACAAGTTGCCGGAGAAAGTGAAGAAGA
 TCCTTGCTCTTTGGACTCTGTTTCAGCATTTCTCACCAATAACGTTTCCCTCATCGTTATCGGGGAAAC
 GAAGAAGTTTGGGAAAACAATACTAGGCTACTTTGAACATTATCTGCACCTGGGTCTTTTATGCCATCACA
 GAGAAGATGACATCCTGCAAACCCATGGCCACCGCATGGACTCTGCTGTTAATGGCATTCTGTGTGGCT
 ATGTTGCGGACCTCTGAATTTGTTCTGGTTCGGCATAGGGAAAGCCACGGTGTCTTACTTCCGGCTGT
 AATCATTGCTATCAAGCTGGCCAAGTACTATCGCAGGATGGATTAGAGGATGTATACGACGACCCGTCT
 CGATAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001163585

ORF Size: 2526 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_001163585.1](#), [NP_001157057.1](#)

RefSeq Size: 3602 bp

RefSeq ORF: 2529 bp

Locus ID: 19126

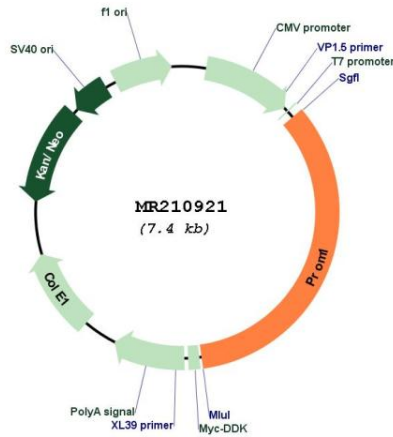
Cytogenetics: 5 B3

MW: 94.9 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 MR210921