

Product datasheet for **MC221754**

Prom1 (NM_001163582) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prom1 (NM_001163582) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC221754 representing NM_001163582
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCTCGTCTTCAGTGCCCTGCTGTTACTGGGGCTGTGTGGAAGATCTCTTCAAGAGTCAGCCTG
 CATTCCATAACACTCCTGGGGCTATGAATTATGAATTGCCTACCACCAAATATGAGACCCAAGATACCTT
 CAATGCTGGGATTGTTGGCCCTCTCTACAAAATGGTGCACATCTTCTCAACGTGGTCCAGCCGAATGAC
 TTCCCTCTAGATTTGATCAAAAACTCATACAGAACAAGAAGCTTTGACATCTCAGTTGATTTCCAAGGAGA
 TTGCCCTCTATGAGATCGGAGTCTTATCTGCGCCATCCTGGGACTGCTGTTTATTATCCTCATGCCTCT
 GGTGGGCTGCTTCTTTGTATGTGCCGTTGCTGCAACAAATGCGGCGGAGAGATGCACCAGCGGCAGAAG
 CAGAATGCCCATGCAGGAGGAAGTCTTGGGCCCTCTCCCTCTGGTGATTTGTCTGCTCATGAGCCTTG
 GCATTATATATGGCTTTGTGGCTAACCAGCAGACCAGGACTCGGATCAAAGGGACCCAGAAACTGGCAA
 GAGCAATTTAGAGACTTTCAAACACTCCTGACTGAAACACCAAAGCAAATTTGACTATGTAGTGGAGCAG
 TACACCAACACCAAGAACAAGGCATTCTCAGACCTGGATGGCATCGGCTCCGTGCTGGGAGGCAGAATAA
 AGGACCAACTAAAACCCAAAGTAACTCCTGTCCCTCGAAGAGATTAAGGCCATGGCGACAGCCATCAAACA
 GACCAAGGATGCCCTGCAGAACATGAGCAGCAGCCTGAAAAGTCTCCAAGATGCAGCCACCCAGCTCAAT
 ACCAACCTGAGCTCTGTGAGAAACAGCATCGAGAATTCGCTCAGCAGCAGTGACTGTACCTCAGATCCAG
 CCAGCAAGATCTGCGATAGCATCAGACCAAGCCTAAGCAGTCTGGGGAGCAGCCTCAATTCAGTCAGGG
 GTATACGACAATTGATGAAATACCAATACAATACAAAACCAAAGTGTGGATGTCATCAAAGACGTCAA
 AATACCTTGGACTCCATTAGCTCCAACATTAAGGACATGAGCCAAAGTATTCTATTGAGGATATGCTGT
 TACAGGCTCTCCATTACCTTAATAACAGCAACAGATACTTAAACCAGGAGCTGCCAAGCTGGAAGATA
 TGACTCGTACTGGTGGCTGGGTGGCTTGATTGTCTGCTTTCTGCTGACTCTCATTGTGACCTTCTTTTTTC
 CTGGGCTTGTGTGGTGTGTTTGGCTATGACAAGCATGCCACCCCAACTAGAAGAGGCTGTGTGTCCA
 ACACTGGAGGCATCTTCTCATGGCTGGGGTTGGATTCCGCTTCTTTTTTGTGGATATTGATGATCCT
 TGTGGTCTTACGTTTGTGTTGGTGCAAATGTGGAAAAGTTGCTCTGCGAACCTTATGAAAACAAGAAA
 TTATTACAGGTTTTGGACTCCCTATCTGCTCAAGGAACAATGGCAATTTTATCTTTCTGGCATGCTAT
 TCAATAACCCAGACATTAACATGACCTTTGAGCAAGTCTACAGGGATTGCAAAGAGGTCGAGGTATATA
 TGCTGCTTTTTCAGCTTGAGAATGTCGTCACGTCAGTGATCATTCAACATTGACCAGATTTCTGAAAAC
 ATAAATACGGAGTTGAAAACCTGAATGTGAACATTGATAGCATTGAACTGTTGGATAACACAGGAAGGA
 AGAGCCTCGAGGACTTTGCACATTCTGGGATAGATACAATCGATTATTCCACATACTTGAAGGAGACTGA
 GAAATCCCTACTGAAGTGAATCTGCTGACATTTGCCTCTACCCTGGAAGCAAAGCAAACCCAGTTGCCT
 GAAGGAAAGCTGAAACAGGCCTTCTTACTGGATGTACAGAATATAAGAGCCATCCACCAGCATCTCCTCC
 CTCCTGTGCAGCAATCACTGAATACGTTAAGACAAAGTGTCTGGACCCTCCAGCAAACAAGCAACAAGTT
 GCCGGAGAAAGTGAAGAAGATCCTTGCCTCTTTGGACTCTGTTCCAGCATTTCTCACCAATAACGTTTCC
 CTCATCGTTATCGGGAAACGAAGAAGTTTGGGAAAACAATACTAGGCTACTTTGAACATTATCTGCACT
 GGGTCTTTTATGCCATCACAGAGAAGATGACATCCTGCAAACCCATGGCCACCGCATGGACTCTGCTGT
 TAATGGCATTCTGTGTGGCTATGTTGCGGACCCCTGAATTTGTTCTGGTTCGGCATAGGAAAGCCACG
 GTGCTCTTACTTCCGGCTGTAATCATTGCTATCAAGCTGGCCAAGTACTATCGCAGGATGGATTACAGAGG
 ATGTATACGACGACTCGTCCGTCTCGGGGATGTGGCATTTCACCTTATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001163582
Insert Size: 2430 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_001163582.1 , NP_001157054.1
RefSeq Size:	2653 bp
RefSeq ORF:	2430 bp
Locus ID:	19126
UniProt ID:	O54990
Cytogenetics:	5 B3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) lacks multiple alternative in-frame exons in the 5' coding region and has multiple differences in the presence and absence of exons at its 3' end, compared to variant 2. The resulting isoform (s5) has a shorter N-terminus and a shorter and distinct C-terminus, compared to isoform s2. The full structure of the 5' UTR for this variant has not been determined.</p>