

Product datasheet for **MC221753**

Prom1 (NM_001163581) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prom1 (NM_001163581) 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: >MC221753 representing NM_001163581
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCTCGTCTTCAGTGCCCTGCTGTTACTGGGCTGTGTGGAAGATCTCTTCAGAAGTCCAGCCTG
 CATTCCATAACACTCCTGGGGCTATGAATTATGAATTGCCTACCACCAAATATGAGACCCAAAGATACCTT
 CAATGCTGGGATTGTTGGCCCTCTCTACAAAATGGTGCACATCTTCTCAACGTGGTCCAGCCGAATGAC
 TTCCCTCTAGATTTGATCAAAAACTCATACAGAACAAGAAGCTTTGACATCTCAGTTGATCCAAGGAGA
 TCGGAGTCTTATCTGCGCCATCCTGGGACTGCTGTTTATTATCCTCATGCCTCTGGTGGGCTGTTCTT
 TTGTATGTGCCGTTGCTGCAACAAATGCGGCGGAGAGATGCACCAGCGCAGAAGCAGAATGCGCCATGC
 AGGAGGAAGTCTGGGCTCTCCCTCCTGGTATTTGTCTGCTCATGAGCCTTGGCATTATATATGGCT
 TTGTGGCTAACCCAGCAGACCAGGACTCGGATCAAAGGGACCCAGAACTGGCAAAGCAATTTCCAGAGA
 CTTTCAAACACTCCTGACTGAAACACCAAAGCAAATTGACTATGTAGTGGAGCAGTACACCAACACCAAG
 AACAAAGGCATTCTCAGACTGGATGGCATCGGCTCCGTGCTGGGAGGCAGAATAAAGGACCAACTAAAAC
 CCAAAGTAACTCCTGTCCTCGAAGAGATTAAGGCCATGGCGACAGCCATCAAACAGACCAAGGATGCCCT
 GCAGAACATGAGCAGCAGCCTGAAAAGTCTCCAAGATGCAGCCACCCAGCTCAATACCACTGAGCTCT
 GTGAGAAACAGCATCGAGAATTCGCTCAGCAGCAGTACTGTACCTCAGATCCAGCCAGCAAGATCTGCG
 ATAGCATCAGACCAAGCCTAAGCAGTCTGGGGAGCAGCCTCAATCAAGTCAAGGGTATACGACAATTGA
 TGAAATACCCAATACAATACAAAACAACTGTGGATGTCATCAAAGACGTCAAAAATACCTGGACTCC
 ATTAGCTCCAACATTAAGGACATGAGCCAAAGTATTCTATTGAGGATATGCTGTTACAGGTCTCCCAT
 ACCTTAATAACAGCAACAGATACTTAAACCAGGAGCTGCCAAGCTGGAAGAATATGACTCGTACTGGTG
 GCTGGGTGGCTTGATTGTCTGCTTCTGCTGACTCTCATTGTGACCTTCTTTTTCTGGGCTTGCTGTGT
 GGTGTGTTGGCTATGACAAGCATGCCACCCAACTAGAAGAGGCTGTGTGTCCAACACTGGAGGCATCT
 TCCTCATGGCTGGGGTTGGATTCGGCTTCTTTTTGCTGGATATTGATGATCCTTGTTGTTCTTACGTT
 TGTTGTTGGTGCAATGTGAAAAGTGTCTGCGAACCTTATGAAAACAAGAAATATTACAGTTTTTG
 GACTCCCTATCTGCTCAAGGAACAATGGCAATTTTATCTTCTGGCATGCTATTCAATAACCCAGACA
 TTAACATGACCTTTGAGCAAGTCTACAGGGATTGCAAAGAGGTCGAGGTATATATGCTGCTTTTCAGT
 TGAGAATGTCGTAACGTCAGTGATCATTTCAACATTGACCAGATTTCTGAAAACATAAAATACGGAGTTG
 GAAAACCTGAATGTGAACATTGATAGCATTGAACTGTTGGATAACACAGGAAGGAAGAGCCTCGAGGACT
 TTGCACATTCTGGGATAGATAACAATCGATTATTCCACATACTGAAGGAGACTGAGAAATCCCCTACTGA
 AGTGAATCTGCTGACATTTGCCTCTACCCTGGAAGCAAAAAGCAAACAGTTGCCTGAAGGAAAGCTGAAA
 CAGGCCTTCTTACTGGATGTACAGAATATAAGAGCCATCCACCAGCATCTCCTCCCTCCTGTGCAGCAAT
 CACTGAATACGTTAAGACAAAGTGTCTGGACCCTCCAGCAAACAAGCAACAAGTTGCCGGAGAAAGTGAA
 GAAGATCCTTGCCTCTTTGGACTCTGTTGAGCATTCTCACCATAACGTTTCCCTCATCGTTATCGGG
 GAAACGAAGAAGTTTGGGAAAACAATACTAGGCTACTTTGAACATTATCTGCACTGGGTCTTTTATGCCA
 TCACAGAGAAGATGACATCCTGCAAACCCATGGCCACCGCATGGACTCTGCTGTTAATGGCATTCTGTG
 TGGCTATGTTGCGGACCCTCTGAATTTGTTCTGGTTCGGCATAGGGAAAGCCACGGTCTCTTACTCCG
 GCTGTAATCATTGCTATCAAGCTGGCCAAGTACTATCGCAGGATGGATTCAGAGGATGTATACGACGACT
 CGTCCGCTCGGGGATGTGGCATTTCACCTTTA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001163581
Insert Size: 2415 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_001163581.1 , NP_001157053.1
RefSeq Size:	2638 bp
RefSeq ORF:	2415 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 (4) 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 (s4) 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>