

Product datasheet for **MC222150**

Prom1 (NM_008935) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prom1 (NM_008935) 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: >MC222150 representing NM_008935
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCTCGTCTTCAGTGCCCTGCTGTTACTGGGGCTGTGTGGAAGATCTCTTCAAGGTCAGCCTG
 CATTCCATAACACTCCTGGGGCTATGAATTATGAATTGCCTACCACCAAATATGAGACCCAAGATACCTT
 CAATGCTGGGATTGTTGGCCCTCTCTACAAAATGGTGACATCTTCTCAACGTGGTCCAGCCGAATGAC
 TTCCCTCTAGATTTGATCAAAAACTCATACAGAACAAGAAGCTTTGACATCTCAGTTGATTTCCAAGGAGA
 TTGCCCTCTATGAGATCGGAGTCTTATCTGCGCCATCCTGGGACTGCTGTTTATTATCCTCATGCCTCT
 GGTGGGCTGCTTCTTTGTATGTGCCGTTGCTGCAACAAATGCGGCGGAGAGATGCACCAGCGGCAGAAG
 CAGAATGCGCCATGCAGGAGGAAGTCTTGGCCCTCTCCCTCTGGTATTTGTCTGCTCATGAGCCTTG
 GCATTATATATGGCTTTGTGGCTAACCAGCAGACCAGGACTCGGATCAAAGGGACCCAGAAACTGGCAA
 GAGCAATTTAGAGACTTTCAAACACTCCTGACTGAAACACCAAAGCAAATTTGACTATGTAGTGGAGCAG
 TACACCAACACCAAGAACAAGGCATTCTCAGACCTGGATGGCATCGGCTCCGTGCTGGGAGGCAGATAA
 AGGACCAACTAAAACCCAAAGTAACTCCTGTCCCTCGAAGAGATTAAAGCCATGGCGACAGCCATCAAACA
 GACCAAGGATGCCCTGCAGAACATGAGCAGCAGCCTGAAAAGTCTCCAAGATGCAGCCACCCAGCTCAAT
 ACCAACCTGAGCTCTGTGAGAAACAGCATCGAGAATTCGCTCAGCAGCAGTACTGTACCTCAGATCCAG
 CCAGCAAGATCTGCGATAGCATCAGACCAAGCCTAAGCAGTCTGGGGAGCAGCCTCAATTCAGTCAGCT
 CCCATCAGTGGATAGAGAAGTCAACACTGTTACTGAAGTCGACAAAAGTACTGAGGAGCCTCGTCAA
 AGGGGGTATACGACAATTGATGAAATACCAATACAATACAAAACCAAAGTGGATGTCATCAAAGATC
 TCAAAAATACCTTGGACTCCATTAGCTCCAACATTAAGGACATGAGCCAAAGTATTCCTATTGAGGATG
 GCTGTTACAGGCTCCCATACCTTAATAACAGCAACAGATACTTAAACAGGAGCTGCCAAGCTGGAA
 GAATATGACTCGTACTGGTGGCTGGGTGGCTTATTGTCTGCTTTCTGCTGACTCTCATTGTGACCTTCT
 TTTTCTGGGCTTGTGTGGTGTGTTGGCTATGACAAGCATGCCACCCCACTAGAAGAGGCTGTGT
 GTCCAACACTGGAGGCATCTTCTCATGGCTGGGGTTGGATTTCGGCTTCTTTTTTGTGGATATTGATG
 ATCCTTGTGGTCTTACGTTTGTGTTGGTGCAAAATGTGAAAAGTTGCTCTGCGAACCTTATGAAAACA
 AGAAATATTACAGGTTTTGGACTCCCTATCTGCTCAAGGAACAATGGCAATTTATCTTTCTGGCAT
 GCTATTCAATAACCCAGACATTAACATGACCTTTGAGCAAGTCTACAGGGATTGCAAAGAGGTGAGGT
 ATATATGTGCTTTTCAGCTTGAATGTGCTCAACGTCAGTATCATTCAACATTGACCAGATTTCTG
 AAAACATAAATACGGAGTTGAAAACCTGAATGTGAACATTGATAGCATTGAACTGTTGGATAACACAGG
 AAGGAAGAGCCTCGAGGACTTTGCACATCTGGGATAGATACAATCGATTATCCACATACTTGAAGGAG
 ACTGAGAAATCCCTACTGAAGTGAATCTGCTGACATTTGCCTCTACCCTGGAAGCAAAGCAAACCAAGT
 TGCTGAAAGGAAAGCTGAAACAGGCCTTCTACTGGATGTACAGAATAAAGAGCCATCCACCAGCATCT
 CCTCCCTCTGTGCAGCAATCACTGAATACGTTAAGACAAAGTGTCTGGACCCTCCAGCAAACAAGCAAC
 AAGTTGCCGGAGAAAGTGAAGAAGATCCTTGCCTTTGGACTCTGTTTCCAGCATTTCTCACCAATAACG
 TTTCCCTCATCGTTATCGGGAAACGAAGAAGTTGGGAAAACAATACTAGGCTACTTTGAACATTATCT
 GCACTGGGTCTTTATGCCATCACAGAGAAGATGACATCCTGCAAACCCATGGCCACCCGATGGACTCT
 GCTGTTAATGGCATTCTGTGTGGCTATGTTGCGGACCCTCTGAATTTGTTCTGGTTCGGCATAGGGAAAG
 CCACGGTCTCTTACTTCCGGCTGTAATCATTGCTATCAAGCTGGCCAAGTACTATCGCAGGATGGATTC
 AGAGGATGTATACGACGATGTTGAGACTGTGCCATGAAAAATTTGAAAATCGGTAGTAATGGTTATCAT
 AAAGATCATTTATATGTTGTTCAATCCTGTTATGACAAGCCCGTCTCGATACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_008935
Insert Size: 2577 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_008935.2 , NP_032961.2
RefSeq Size:	3739 bp
RefSeq ORF:	2577 bp
Locus ID:	19126
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 (1) lacks an alternative in-frame exon in the 5' coding region, compared to variant 2. The resulting isoform (s1) lacks a 9 aa segment near the N-terminus, compared to isoform s2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>