

Product datasheet for **MC222259**

Prom1 (NM_001163577) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prom1 (NM_001163577) 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: >MC22259 representing NM_001163577
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCTCGTCTTCAGTGCCCTGCTGTTACTGGGGCTGTGTGGAAGATCTCTTCAAGAAGTCAGCCTG
 CATTCCATAACACTCCTGGGGCTATGAATTATGAATTGCCTACCACCAAATATGAGACCCAAGATACCTT
 CAATGCTGGGATTGTTGGCCCTCTCTACAAAATGGTGCACATCTTCTCAACGTGGTCCAGCCGAATGAC
 TTCCCTCTAGATTTGATCAAAAACTCATACAGAACAAGAAGCTTTGACATCTCAGTTGATTTCCAAGGAGC
 CAGAAATCATAGTCTTGGCTCTGAAGATTGCCCTCTATGAGATCGGAGTCCTTATCTGCGCCATCTGGG
 ACTGCTGTTTATTATCCTCATGCCTCTGGTGGGCTGCTTCTTTTGTATGTGCCGTTGCTGCAACAAATGC
 GGCGGAGAGATGCACCAGCGGCAGAAGCAGAATGCGCCATGCAGGAGGAAGTGTGGGCCCTCTCCCTCC
 TGGTGATTTGTCTGCTCATGAGCCTTGGCATTATATATGGCTTTGTGGCTAACACGAGACCAGGACTCG
 GATCAAAGGGACCCAGAACTGGCAAAGAGCAATTTAGAGACTTCAAACACTCCTGACTGAAACACCA
 AAGCAAATGACTATGTAGTGGAGCAGTACACCAACACCAAGAACAAGGCATTCTCAGACCTGGATGGCA
 TCGGCTCCGTGCTGGGAGGCAGAATAAAGGACCAACTAAAACCCAAAGTAACTCCTGTCCTCGAAGAGAT
 TAAGGCCATGGCGACAGCCATCAAACAGACCAAGGATGCCCTGCAGAACATGAGCAGCAGCCTGAAAAGT
 CTCCAAGATGCAGCCACCCAGCTCAATACCAACCTGAGCTCTGTGAGAAACAGCATCGAGAATTCGCTCA
 GCAGCAGTGACTGACCTCAGATCCAGCCAGCAAGATCTGCGATAGCATCAGACCAAGCCTAAGCAGTCT
 GGGGAGCAGCCTCAATCAAGTCAGCTCCCATCAGTGGATAGAGAAGTCAACACTGTTACTGAAGTCGAC
 AAACTGATCTGGAGAGCCTCGTCAAAAGGGGGTATACGACAATTGATGAAATACCCAATACAATACAAA
 ACCAAACTGTGGATGTCATCAAAGAGCTCAAAAATACCTTGGACTCCATTAGCTCCAACATTAAGGATAC
 GAGCCAAAGTATTCCTATTGAGGATATGCTGTTACAGGTCTCCCATACCTTAATAACAGCAACAGATAC
 TTAACCAGGAGCTGCCAAGCTGGAAGAATATGACTCGTACTGGTGGCTGGGTGGCTTATTGTCTGCT
 TTCTGCTGACTCTCATTGTGACCTTCTTTTCTGGGCTTGTGTGTGGTGTGTTTGGCTATGACAAGCA
 TGCCACCCCAACTAGAAGAGGCTGTGTGCCAACACTGGAGGCATCTTCTCATGGCTGGGGTTGGATTC
 GGCTTCTTTTTTGTGGATATTGATGATCCTTGTGGTCTTACGTTTGTGTTGGTGAATGTGGAAA
 AGTTGCTCTGCGAACCTTATGAAAACAAGAAATATTACAGGTTTTGGACTCCCTATCTGCTCAAGGA
 ACAATGGCAATTTATCTTTCTGGCATGCTATTCAATAACCCAGACATTAACATGACCTTTGAGCAAGTC
 TACAGGGATTGAAAAGAGGTGAGGTATATATGCTGCTTTTTCAGCTTGAAGATGTCGTCACGTCAGTG
 ATCATTCAACATTGACCAGATTTCTGAAAACATAAATACGGAGTTGAAAACCTGAATGTGAACATTGA
 TAGCATTGAAGTGTGGATAAACACAGGAAGGAAGGCCTCGAGGACTTTGCACATTCTGGGATAGATACA
 ATCGATTATCCACATACTTGAAGGAGACTGAGAAATCCCCTACTGAAGTGAATCTGCTGACATTTGCC
 CTACCCTGGAAGCAAAGCAAACAGTTGCCTGAAGGAAAGCTGAAACAGGCCTTCTTACTGGATGTACA
 GAATATAAGAGCCATCCACCAGCATCTCCTCCCTCCTGTGCAGCAATCACTGAATACGTTAAGACAAAGT
 GTCTGGACCCTCCAGCAAACAAGCAACAAGTTGCCGGAGAAAGTGAAGAAGATCCTTGCCTCTTTGGACT
 CTGTTTCAGCATTCTCCACCAATAACGTTTCCCTCATCGTTATCGGGGAAACGAAGAAGTTGGGAAAAC
 AATACTAGGCTACTTTGAACATTATCTGCACCTGGTCTTTTATGCCATCACAGAGAAGATGACATCCTGC
 AAACCCATGGCCACCGCATGGACTCTGCTGTTAATGGCATTCTGTGTGGCTATGTTGCGGACCCTTGA
 ATTTGTTCTGGTTCGGCATAGGGAAAGCCACGGTCTTACTTCCGGCTGTAATCATTGCTATCAAGCT
 GGCCAAGTACTATCGCAGGATGGATTAGAGGATGTATACGACGATGTTGAGACTGTGCCATGAAAAAT
 TTGAAAATCGGTAGTAATGGTTATCATAAAGATCATTTATATGGTGTTCACAATCCTGTTATGACAAGCC
 CGTCTCGATAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001163577
Insert Size: 2604 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:	<u>NM_001163577.1</u> , <u>NP_001157049.1</u>
RefSeq Size:	3766 bp
RefSeq ORF:	2604 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 (2) represents the longest transcript and encodes the longest 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>