

## Product datasheet for **MC220647**

### Prom1 (NM\_001163585) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prom1 (NM_001163585) 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:** >MC220647 representing NM\_001163585  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCTCGTCTTCAGTGCCCTGCTGTTACTGGGGCTGTGTGGAAGATCTCTTCAGAAGTCCAGCCTG  
 CATTCCATAAACACTCCTGGGGCTATGAATTATGAATTGCCTACCACCAAATATGAGACCCAAGATACCTT  
 CAATGCTGGGATTGTTGGCCCTCTCTACAAAATGGTGCACATCTTCTCAACGTGGTCCAGCCGAATGAC  
 TTCCCTCTAGATTTGATCAAAAACTCATACAGAACAAGAAGCTTTGACATCTCAGTTGATTTCCAAGGAGC  
 CAGAAATCATAGTCTTGGCTCTGAAGATTGCCCTCTATGAGATCGGAGTCTTATCTGCGCCATCTGGG  
 ACTGCTGTTTATTATCCTCATGCCTCTGGTGGGCTGCTTCTTTTGTATGTGCCGTTGCTGCAACAAATGC  
 GGGGAGAGATGCACCAGCGGCAGAAGCAGAATGCGCCATGCAGGAGGAAGTGTGGGCCCTCTCCCTCC  
 TGGTGATTTGTCTGCTCATGAGCCTTGGCATTATATATGGCTTTGTGGCTAACCCAGCAGACCAGGACTCG  
 GATCAAAGGGACCCAGAACTGGCAAAGAGCAATTTAGAGACTTCAAACACTCCTGACTGAAACACCA  
 AAGCAAATGACTATGTAGTGGAGCAGTACACCAACACCAAGAACAAGGCATTCTCAGACCTGGATGGCA  
 TCGGCTCCGTGCTGGGAGGCAGAATAAAGGACCAACTAAAACCCAAAGTAACTCCTGTCCTCGAAGAGAT  
 TAAGGCCATGGCGACAGCCATCAAACAGACCAAGGATGCCCTGCAGAACATGAGCAGCAGCCTGAAAAGT  
 CTCCAAGATGCAGCCACCCAGCTCAATACCAACCTGAGCTCTGTGAGAAACAGCATCGAGAATTCGCTCA  
 GCAGCAGTGACTGACCTCAGATCCAGCCAGCAAGATCTGCGATAGCATCAGACCAAGCCTAAGCAGTCT  
 GGGGAGCAGCCTCAATCAAGTCAGCTCCCATCAGTGGATAGAGAAGTCAACACTGTTACTGAAGTCGAC  
 AAACTGATCTGGAGAGCCTCGTCAAAAGGGGTATACGACAATTGATGAAATACCCAATACAATACAAA  
 ACCAAAGTGTGGATGTCATCAAAGACGTCAAAAATACCTTGACTCCATTAGCTCCAACATTAAGGAGAT  
 GAGCCAAAGTATTCCTATTGAGGATATGCTGTTACAGGTCTCCCATACCTTAATAACAGCAACAGATAC  
 TTAACCAGGAGCTGCCAAGCTGGAAGAATATGACTCGTACTGGTGGCTGGGTGGCTTGATTGTCTGCT  
 TTCTGCTGACTCTCATTGTGACCTTCTTTTTCTGGGCTTGCTGTGTGGTGTGTTGGCTATGACAAGCA  
 TGCCACCCCAACTAGAAGAGGCTGTGTGCCAACACTGGAGGCATCTTCTCATGGCTGGGGTTGGATTC  
 GGCTTCTTTTTGCTGGATATTGATGATCCTTGTGGTCTTACGTTTGTGTTGGTGAATGTGGAAA  
 AGTTGCTCTGCGAACCTTATGAAAACAAGAAATTATTACAGGTTTTGGACTCCCTATCTGCTCAAGGA  
 ACAATGGCAATTTTATCTTTCTGGCATGCTATTCAATAACCCAGACATTAACATGACCTTTGAGCAAGTC  
 TACAGGGATTGCAAAAGAGGTGAGGTATATATGCTGCTTTTCAGCTTGAGAATGTCGTCACAGTCAGTG  
 ATCATTCAACATTGACCAGATTTCTGAAAACATAAATACGGAGTTGAAAACCTGAATGTGAACATTGA  
 TAGCATTGAACCTGTTGGATAAACACAGGAAGGAAGGCCTCGAGGACTTTGCACATTCTGGGATAGATACA  
 ATCGATTATCCACATACTTGAAGGAGACTGAGAAATCCCCTACTGAAGTGAATCTGCTGACATTTGCCCT  
 CTACCCTGGAAGCAAAAGCAAACAGTTGCCTGAAGGAAAGCTGAAACAGGCCTTCTTACTGGATGTACA  
 GAATATAAGAGCCATCCACCAGCATCTCCTCCCTCCTGTGCAGCAATCACTGAAATTTGTGAGGGTGAGG  
 AATACGTTAAGACAAAGTGTCTGGACCTCCAGCAAACAAGCAACAAGTTGCCGGAGAAAGTGAAGAAGA  
 TCCTTGCTCTTTGGACTCTGTTTCAGCATTTCCTACCAATAACGTTTCCCTCATCGTTATCGGGGAAAC  
 GAAGAAGTTTGGGAAAACAATACTAGGCTACTTTGAACATTATCTGCACCTGGGTCTTTTATGCCATCACA  
 GAGAAGATGACATCCTGCAAAACCATGGCCACCGCATGGACTCTGCTGTTAATGGCATTCTGTGTGGCT  
 ATGTTGCGGACCTCTGAATTTGTTCTGGTTCGGCATAGGGAAAGCCACGGTGTCTTACTTCCGGCTGT  
 AATCATTGCTATCAAGCTGGCCAAGTACTATCGCAGGATGGATTAGAGGATGTATACGACGACCCGCTCT  
 CGATACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001163585  
**Insert Size:** 2529 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001163585.1</a></u> , <u><a href="#">NP_001157057.1</a></u>
<b>RefSeq Size:</b>	3602 bp
<b>RefSeq ORF:</b>	2529 bp
<b>Locus ID:</b>	19126
<b>Cytogenetics:</b>	5 B3
<b>Gene Summary:</b>	<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 (8) lacks an alternative in-frame exon 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 (s8) lacks a 9 aa segment near the N-terminus and has a shorter C-terminus, compared to isoform s2. The full structure of the 5' UTR for this variant has not been determined.</p>