

## Product datasheet for **MC222439**

### **Ptchd1 (NM\_001093750) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ptchd1 (NM_001093750) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptchd1
Synonyms:	9630036J22Rik; AI848149; Gm387
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >MC222439 representing NM\_001093750  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCGGCAGGTTCTGCACAGGGCTTGAGGACGTGTTTCTCCCGGCTTGCCACTTCATTGCCAGTC  
 ACCCGGTCTTCTTTGCTTCGGCGCCGGTCTCATCTCCATCCTGCTCGGGCCAGCTTCAGCCGCTACCA  
 GGTCSAAGAGAGCGTGGAGCACCTGCTGGCGCCCCAGCACAGCCTAGCCAAGATCGAGCGCAACCTAGTC  
 AACAGCCTCTTCCCGGTCAACCGCTCCAAGCACCGGCTCTACTCGGACCTGCAGACCCCTGGGCGCTACG  
 GCCGGTCAATTGTACCTCCTACCAGAAAGCCAACATGCTAGACCAACATCACACGGACCTGATCTTAAA  
 GTTGCTACTGCAGTGACCAAGATCCAGGTTCCAAGGCTGGCTTAACTATACATTTGCTCACATATGT  
 GTCCTGAATAATGATAAGACTTGCATTGTGGATGACATAGTACACGTCTGGAAGAGCTAAAGAATGCTC  
 GGGCCACCAATCGGACCAATTTTGTATCACATATCCGATCACTCACTTAAAAGATGGAAGGGCTGTGTA  
 TAATGGGCACCAACTCGGAGGTGCTACTGTGCACAGCAAGGATCGGGTGAATCTGCAGAGGCCATTGAG  
 CTTACCTACTATCTGCAATCAATCAACAGTCTCAATGACATGGTAGCTGAGAGGTGGGAGTCCAGCTTCT  
 GTGACACTGTCAAATATTCCAGAAATCCAACAGCAAAGTCAAAAATATACCCGTACACATCCTCATCACT  
 GAGGGAAGATTTCCAGAAGACCAGCCGTGATCAGAACGTTACCTGGTACCAGCCTGATCCTGGTAGTC  
 ACCATGGCTATTCTGTGCTGCTATGCAGGACTGTGTCGCAGCAAACCTGGTTAGGCCTACTTGGGT  
 TGGTGACCATAAGCCTAGCCACTCTCACTGCAGCCGGAATCATCAATCTCACTGGTGAAATAACAACCTC  
 CACCTTCTGGGAGTCCCTTTGCTATGCTAGGTATGGATTATACGGGACTTTTGAATGTTATCCTCG  
 TGGAGGAAAAGTAGAGAGGACCAACATGTTAAAGAGCGAACTGCAGAAGTCTATGCAGACTGCTCT  
 CCTTCTCTCACCACTGCCATGACTTGGTCACTTCGGCATCGGGGCCAGCCCTTTCACAAACATTTGA  
 GGCAGCCAGGATTTTCTGCTGCAACTCCTGTATTGCAATCCTCTTCAACTACCTCTATGTACTCTATTT  
 TATGGTCCAGCCTTGTGTTCACTGGCTACATAGAAAACAATTACCAGCATAGTATATTCTGTAGAAAAG  
 TTCCGAAGCCTGATGTATTACAGGAGAAGCCAGCATGGTATAGGTTTCTTCTGACGGCTAGATTCACTGA  
 GGAAACAGCTGAAGGTGAGGAAGCAAACACTTATGAGAGTCACTTATTGGTATGTTTCTCAAACGCTAT  
 TACTGTGACTGGATAACCAACACCTATGTCAAGCCTTTTGTAGTCTCTTTTACCTATTTATATTTCT  
 TTGCCTAATGGGCTATCTGCAGGTGAGTGAAGGGTCAAGCCTTAGTAACATCGTAGCAACTGCAACACA  
 AACCATGAGTACACTACTGCCACAAAAGTACTTTAACTACAGTCTGTTATTGGGTTTTACATA  
 TATGAGTCCATAGAATATTGGAAGTCTAGTGTCCAAGAAGATGTTCTAGAGTACACTAAGGGTTTTGTGC  
 GGATATCCTGGTTTGAAGCTATTTAAATTATCTTCGGAAGTCAATGTGTCCACTGACTTGCCTAAGAA  
 AAATTTACAGACATGTTGAGGAATTCCTTCTGAAAACCTCTCAATTTTACATTTTCAAGAGGACATC  
 ATCTTCTCAAAAAGTACAATGATGAGGTTGATGTAGTGGCTCTAGAATGTTTTTGGTGGCCAAGACTA  
 TGGAAACAAACAGAGAAGAACTTATGATCTCTTGGAGACTCTGAGGAGGCTTTCAGTCACTCCAAGGT  
 GAAGTTCATTGTCTTAAATCCGCTCTTTGTGTACATGGATCGATATGCCTCCTCTCTGGGAGCCCCCTG  
 CACAATCCTGCATCAGTGCTTTGTTCTGTCTCTTCTCGGCATTCTGGTAGCAGATTTCGCTGATCA  
 ACGTCTGGATCACTCTCACGTTGTGTCTGTGGAGTTGGAGTATAGGCTTTCATGACATTATGGAAGT  
 CGAACTGGATTGCATTTCTGTGCTATGCTTAATTTATGGAATTAACACACAATTGACAAGTGTGCTCCA  
 CTGTTATCCACATTTGTTCTAGGCAAGGATTTTACAAGAATAAATGGGTTAAAAATGCCCTGGAAGTGC  
 ATGGGGTAGCTATTTTACAGAGTTACCTCTGTTATATTGTTGGTCTATTTCTCTTGCAGCTGTGCCTTC  
 AAATCTGACCTGTACACTGTTCAAGTGCTGTTTTTAAATAGCATTGTACCTTCTTCACTGCTTTGCC  
 ATTTTACCTGTGATACTTACTTCTGCCACCCTTAAGAAAAAAGGAAAGAGAAGAAAAATCCTGAAA  
 ACCGGGAGGAAATTGAGTGTGTAGAAATGGTAGATATTGATAGTACTCGAGTGGTTGACCAATAACAC  
 AGTGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001093750

<b>Insert Size:</b>	2667 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<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>	<a href="#">NM_001093750.1</a> , <a href="#">NP_001087219.1</a>
<b>RefSeq Size:</b>	6489 bp
<b>RefSeq ORF:</b>	2667 bp
<b>Locus ID:</b>	211612
<b>UniProt ID:</b>	<a href="#">Q14B62</a>
<b>Cytogenetics:</b>	X F3
<b>Gene Summary:</b>	Required for the development and function of the thalamic reticular nucleus (TRN), a part of the thalamus that is critical for thalamocortical transmission, generation of sleep rhythms, sensorimotor processing and attention.[UniProtKB/Swiss-Prot Function]