

## Product datasheet for **MC222500**

### **Ptchd4 (NM\_028474) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ptchd4 (NM_028474) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptchd4
Synonyms:	3110082D06Rik; Gm321
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC222500 representing NM\_028474  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGACGGCCGGGAGCGCCTGCGAGCTGGATCTGGTGGAGGATGCTGCGGCAGGTGCTTCGCAGAGGGC  
 TCCAGTCACTTCTGCCACAGGCTGGGCTTATGCGTGAGCCGGCACCCGGTCTTTTTCTCACCGTCCGGC  
 AGTCTGACCATCACCTTCGGCCTCAGCGCGCTCAACCGCTTCCAGACCGAGGGCGACCTGGAGCGCCTG  
 GTTGCTCCAGCCACAGCCTGGCCAAGATCGAGCGCAGCCTAGCCAGCAGCCTTTTCCCCTGGACCAGT  
 CCAAAAGCCAGCTCTATTCGGACTTACACACCCCTGGGAGGTATGGCAGGGTGTCTCTCTCTCACC  
 CGGGGACAATATTTTGTCCAGGCTGAGGGGATTCTGCAGACCCACCGAGCCGTGATGGAATGAAGGTG  
 AACCAAGGGCTATAATTATACTTTTTCCCATCTGTGTGTGTTGAGAAATCAGGATAAGAAATGCGTGC  
 TGGATGATATTATTCAGTGCTAGAGGATCTCAGGCAGGCTGCCGTCTCCAATAAGACAACGCCAGGGT  
 GCAAGTAAGGTATCCCAACTAAATTAAGGATGGGAGGAACAGTTTTATTGGACACCAGCTGGGCGGG  
 GTAGTGAAGTGCCAAACAGCAAAGACCAGCGGTCAAGTCAGCCAGAGCCATTCAAATCACTACTACC  
 TCCAGACCTATGGTTCTGCCACAAGACCTCATAGGGGAGAAGTGGGAGAATGAGTTCTGTAAGCTTAT  
 GAGGAAGCTCCAGGAGGAGCATCAAGACCTCCAAGTACTCTCTGGCATCTTTAGCCTCTGGAGAGAC  
 TTTATAAGACCAGCATCCTGACCAGAAGCAAGGTCTGGTGAGCCTAGTGTGATCCTGACCACGGCCA  
 CCCTGTCCAGCTCCATGAAGGACTGCTTGGCAGTAAGCCCTTCTGGGCTCTGGGGTGTCTCACGGT  
 CTGCATTTCCATCGCCACTGCAGCCGGGATATTCTTCACTGATGGGAAGTACAACCTCAACCTGCTG  
 GGAATCCCTTTCTCGCCATGGGTATGGAAGTAAAGGAGTATTGAGCTTCTGTCTGGATGGCGGAGAA  
 CCAAAGAGAATTTACCCTTCAAAGACAGGGTAGCAGATGCCTACTCTGATGTGATGGTCACTACACCAT  
 GACCAGTCCCTGTACTTCATCACATTTGGTATGGGTGCCAGCCCTTCAAACATAGAGGCCGTGAAG  
 ATCTTCTGTGAGAATATGTGTCTCTATTCTGTTGAACACTTCTACATTTTCTTTTCTTTGGCTCTT  
 GCCTGGTCTTTGCTGGACAACCTGAGCAAAATCGATACCACAGCATCTTTTGTGTAAGATCCCTTCTGC  
 AGAATACCTGGACCGCAAACCTGTGTGTTCCAGACAGTAATGAGTGTGGGCACCAACAGACATCGCAT  
 CATGAGACAAACCCCTACCAGCACCATTTCATTACGACTTCTTCGAGAACATTACAATGAGTGGATTA  
 CCAATATCTATGTGAAGCCATTTGTGGTATCCTGTATCTCATTACGCCTTTTCTCTCATGGGGT  
 CTTGCAGATCAGTGTGGAGCCAGCATCATCAACCTACTAGCCAGTATTCCCAAGTGTTCCTACGCC  
 ATGGTTCAGCAAAAATTTTTCAGCAACTATAGCCCTGTAATAGGATTCTACGTCTATGAACCCCTGGAGT  
 ACTGGAACAGCAGTGTCCAAGAGGATCTGCAGAGGCTCTGTAGTGGGTTCACTGCAGTGTCTGGGTAGA  
 GCAGTATTACCAGTTTCTGAAAACGAGCAACATCAGTGCCAATAACAAGACTGACTTCATCAGTGTCTG  
 CAAAGCTCGTTTTTAAAAAGCCAGAATTTCAAACACTTTCCGGAATGATATCATTTTCTCCAGAGCTGGT  
 ATGAAAACAACATCATTGCTTCTCGCTTGTATCTGGTGGCCAGGACTAGCAGGGACAAGCAGAAGGAAGT  
 CATAGAAGTCTGGACAAGTTGAGGCCCTGTCTCTCAAAGAGTATCCGGTTCATCGTGTAAATCCT  
 TCCTTTGTTTTACAGACCATTACAGTTTGTGAGTCACTGTGCCTGTTCTGATCGCAGGCTTTGGGGTCT  
 TCCTGGTGTAACTCCTGACTTTCTTCTAGTGATCCATCCTCTGGGAACTTCTGGCTAATCTTAGCGT  
 CACCTCAATTGAGCTGGGCGTTCTGGGCTTAATGACGTTGTGGAATGTCGACATGGATTGCATTTCTATC  
 TTGTGCCTTATCTACACTTTAAATTTTGGCATTGACCACTGTGCACCACTGCTTTATACATTTGTATTAG  
 CAACTGAGCACACCAGAACACAGTGTATAAAAAGCTCCCTGCAAGAGCATGGGACAGCCATTTTGA  
 CAAATCATTCTTTTCTTATTGGGTTGCTCCCCCTCTTTGTGCCTTCAAACCTGACCTTCACTGTTT  
 AAATGCTTGTGCTGACCGGGGTTGCACGCTTCTGACTGTTTTGTTATCTTACCTGTGTTCTAACCT  
 TTTTCTCTTCAAAGAGCACCACAAGAAAAGAAACGGGCCAAACGAAAGGAGAGAGGAAATTGA  
 ATGCATAGAAATCCAAGAGAACCCTGATCAGTCAACACAGTCTGA

**ACGGT**ACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_028474

<b>Insert Size:</b>	2706 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_028474.1</a></u> , <u><a href="#">NP_082750.1</a></u>
<b>RefSeq Size:</b>	6890 bp
<b>RefSeq ORF:</b>	2706 bp
<b>Locus ID:</b>	627626
<b>Cytogenetics:</b>	17 B3
<b>Gene Summary:</b>	Could act as a repressor of canonical hedgehog signaling by antagonizing the effects of SMO, as suggested by down-regulation of hedgehog target genes, including GLI1, PTCH1, and PTCH2 in PTCHD4-expressing cells.[UniProtKB/Swiss-Prot Function]