

Product datasheet for **MC223858**

Ptch2 (NM_008958) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptch2 (NM_008958) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ptch2
Synonyms: ptc; ptc2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223858 representing NM_008958
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGGTTCGGCCACTGTCCCTTGGAGAGCTACCTCCCAGCTACACACCTCCAGCTCGGTCTCCGCACCTC
 ATATCCTAGCTGGGAGCCTGCAGGCTCCTCTCTGGCTTCGAGCTTACTCCAAGGTCTACTTTCTCCCT
 GGGGTGCAGGATCCAGAAACACTGCGGCAAAGTCTCTCCTGGGACTGGTGGCCTTTGGGGCTCTGGCA
 CTGGGTCTCCGAGTGGCTGTAATTGAGACAGACCTAGAACAGCTCTGGGTAGAAGTGGGCAGCAGGGTGA
 GCCAGGAGCTGCACTACACCAAGGAGAAGCTGGGGGAAGAGGCTGCGTACACCTCCCAGATGTTGATTCA
 GACTGCGCACCAGGAAGGGGAAACGTCTCACCCCGAGGCACTTGACTTGCACCTCCAGGCGGCGCTC
 ACTGCCAGTAAAGTCCAAGTATCACTCTATGGGAAATCCTGGGATTTGAACAAGATCTGCTACAAATCAG
 GGGTCCCCTTATTGAAAATGGGATGATCGAGCGGATGATTGAGAAGCTGTTCCCTGTGTGATCCTCAC
 CCCGTTGACTGCTTCTGGGAAGGAGCCAACTCCAAGGGGCTCTGCCTACTTGCCGGGCCGCCCTGAT
 ATCCAGTGGACCAACTGGACCCTCAGCAGCTGCTCGAGGAGCTGGGCCCTTTGCCTCTCTGGAGGGCT
 TCCGGGAAGTGTAGATAAGGCACAGGTGGGCCAGGCTATGTGGGGCGACCCTGTCTGGACCCTGATGA
 CCCCCACTGTCCACCTAGTGCTCCCAACCGGCACAGCAGGAGGCTCCCAATGTGGCTCAGGAGCTGAGT
 GGGGGCTGCCATGGCTTCTCCCAAGTTCATGCACTGGCAGGAGGAAGTCTACTAGGGGGCACAGCCA
 GAGATCTCCAAGGACAGCTGCTGAGGGCAGAGGCTTGCAGAGCACCTTCTGCTCATGAGTCCCCTCA
 GCTGTACGAGCACTTCCGGGGCGACTACCAGACACATGACATCGGCTGGAGCGAGGAGCAGGCCAGCATG
 GTGCTGCAGGCCCTGGCAGAGGCGCTTTGTGCAGCTAGCCAGGAGGCTCTGCCGGCAACCGTCCCAGC
 AGATCCATGCCTTCTCCTCCACCACCCTGGATGACATCCTGCGCGGTTCTCTGAAGTCAGCACCCCG
 TGTGGTAGGAGGCTATGCTTATGCTGGCCTATGCCTCGTAACAATGCTGCGGTGGGACTGCGCCAG
 TCCCAGGGTGCCGTAGGTCTTGTGGGGTGTGCTGGTGGCCCTGGCGGTGGCCTCAGGCTTTGGGCTTT
 GTGCCCTACTTGGCATCACTTTCAATGCTGCCACTACACAGGTGCTGCCCTTCTTGGCTCTGGGCATTGG
 CGTGGATGACATCTTCTGCTGGCGCATGCCTTCAAAAAGCCCCACCTGACACCCCTCTCCAGAGCGT
 ATGGGTGAGTGTGAGGAGCACGGGCACCAGCGTGGCACTCACATCCGTCAACAACATGGTTCGCTTTT



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TCATGGCTGCCCTGGTTCCCATTCTCGCTGCGGGCCTTCTCCCTGCAGGCAGCCATAGTGGTCGGCTG
 CAACTTTGACGCGGTAATGCTCGTCTTCCCTGCCATCCTCAGCCTCGACCTGCGCCGGCCACCGCCAA
 CGCCTGGACGTTCTCTGCTGTTTTCTAGCCCCGCTCCGCTCAGGTCATTAGATGCTGCCCCAGGAGC
 TAGGGGACAGAGCAGTACCAGTGGGCATTGCCACCTGACTGCCACCGTGCAAGCCTTCACCCCTGCGA
 AGCCAGCAGCCAGCATGTAGTACCATTTTGCCTCCTCAAGCCACCTGCTGTCTCCAGTTCTGACCCA
 CTGGGCTCCGAACCTATAGCCCTGGAGGGTCTACACGGGACCTTCTCAGTCAGGAGGAGGGGACAGGGC
 CACAGGGCGGCTGCAGGCCCTGCTCTGTGCCACTGGACTCTCGCCCATTTTGCCCCGCTATCAGTTTGC
 ACCTTTACTGCTCCAGACACGAGCCAAGGCCCTGGTGTGCTGTTCTTTGGGGCTCTTTGGGCCTGAGC
 CTCTATGGAGCCACCTTGGTACAAGATGGGCTGGCCCTGACAGATGTGGTCCCTAGGGGCACCAAGGAAC
 ATGCTTCTGAGCGCCAGCTCAGGTACTTCTCCCTGTACGAGGTGGCTCTAGTGACACAGGGTGGCTT
 TGACTACGCCACTCCCAACGCGCCCTCTTTGATCTGCACCAGCGCTTCACTCCCTCAAGGCTGTGCTG
 CCCCCACTGCCACCCAGGCACCCCGCACCTGGCTTCACTACTACCGCAGCTGGTACAGGGTATCCAGG
 CTGCATTTGACCAAGACTGGGCTTCTGGGCGCATCACCTGCCACTTTACCGCAACGGCTCAGAAGATGG
 CGCCCTGGCCTACAAGCTGCTCATCAAACCGGAATGCCAGGAGCCTCTGGATTTAGCCAGCTGACC
 ACAAGGAAACTGGTGGACAAGGAGGGACTCATTCCCCAGAGCTTTCTACATGGGGCTAACCGTGTGGG
 TGAGCAGCGACCCCTGGGCCTCGCAGCCTCTCAGGCCAACTTACCCCCACCTCCAGAGTGGCTTCA
 CGACAAATATGATACCACCGGGGAGAACCTTCGCATCCCGCAGCCAGCCCTTGGAGTTTGCCAGTTC
 CCCTTCTGCTGCATGGACTCCAGAAGACTGCAGACTTTGTAGAAGCCATCGAAGGGGCCAGGGCGGCAT
 GCACAGAGGCAGGCCAGGCAGGGGTGCATGCCTACCCAGTGGCTCCCCCTTCTCTTCTGGGAGCAGTA
 TCTGGGTCTTCGGCGCTGCTTCTGCTGGCAGTCTGCATCTTGTGTTGTGCACCTTCTCGTCTGTGCC
 CTGCTTCTACTCAGCCGTGGACAGTGGCCTCATAGTGTGGTCTTGGCAATGATGACTGTGGAGCTCT
 TTGGTATCATGGGATTCCTGGGCATCAAAGTGTGCTGCCATCCCCGTGGTAACTCCTCGTGGCCTATAGG
 CATTGGTGTGAATTCACAGTTCACGTGGCTCTGGGCTTCTGACCAGCCATGGTAGCCGGAACCTGCGG
 GCTGCTAGCGCTCTGGAACAGACCTTTGCCCTGTGACTGATGGAGCTGTCTCCACCTTGTGGGTCTGC
 TCATGCTTGTGGTTCTAACTTTGACTTTCATCATAAGGTATTTCTTTGTGGTGTGACGGTGTGACACT
 CTTGGGCTGCTCCATGGACTCTGCTGCTGCCTGTGCTGCTCTCTATCCTAGGCCCCCCGCCACAGGTG
 GTGCAGGTATACAAGGAGAGTCCACAGACCCTAAACTCCGCTGCTCCACAGAGAGGTGGGCTCAGGTGGG
 ACAGGCCCCCCACCTGCCCCAGAGTTTTGCCAGAGTACTACCTCCATGACTGTGGCCCTCCACCCACC
 ACCTCTGCTGGAGCATACGTCCACCCAGCCTCCGAGGAGCCACATAG

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_008958
- Insert Size:** 3549 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:

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_008958.3](#), [NP_032984.1](#)

RefSeq Size: 5119 bp

RefSeq ORF: 3549 bp

Locus ID: 19207

UniProt ID: [O35595](#)

Cytogenetics: 4 53.41 cM

Gene Summary: This gene encodes a member of the patched family of transmembrane receptor proteins. The encoded protein may be a functional receptor for the morphogen sonic hedgehog (Shh) and is reportedly involved in limb and skin development. Homozygous mutant mice for this gene exhibit hair loss and epidermal hyperplasia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).