OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC224450

Ptch1 (NM_008957) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptch1 (NM_008957) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptch1
Synonyms:	A230106A15Rik; mes; Ptc; Ptc1; Ptch; wig
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC224450 representing NM_008957
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCGGCTGGTAACGCCGCCGGGGCCCTGGGCAGGCAGGCCGGCGGCGGGAGGCGCAGACGGACCG
GGGGACCGCACCGCGCCGCGCCGGACCGGGACTATCTGCACCGGCCCAGCTACTGCGACGCCGCCTTCGC
TCTGGAGCAGATTTCCAAGGGGAAGGCTACTGGCCGGAAAGCGCCGCTGTGGCTGAGAGCGAAGTTTCAG
AGACTCTTATTTAAACTGGGTTGTTACATTCAAAAGAACTGCGGCAAGTTTTTGGTTGTGGGTCTCCTCA
TATTTGGGGCCTTCGCTGTGGGATTAAAGGCAGCTAATCTCGAGACCAACGTGGAGGAGCTGTGGGTGGA
AGTTGGTGGACGAGTGAGTCGAGAATTAAATTATACCCGTCAGAAGATAGGAGAAGAGGCTATGTTTAAT
CCTCAACTCATGATACAGACTCCAAAAGAAGAAGGCGCTAATGTTCTGACCACAGAGGCTCTCCTGCAAC
ACCTGGACTCAGCACTCCAGGCCAGTCGTGTGCACGTCTACATGTATAACAGGCAATGGAAGTTGGAACA
TTTGTGCTACAAATCAGGGGAACTTATCACGGAGACAGGTTACATGGATCAGATAATAGAATACCTTTAC
CCTTGCTTAATCATTACACCTTTGGACTGCTTCTGGGAAGGGGCAAAGCTACAGTCCGGGACAGCATACC
TCCTAGGTAAGCCTCCTTTACGGTGGACAAACTTTGACCCCTTGGAATTCCTAGAAGAGTTAAAGAAAAT
AAACTACCAAGTGGACAGCTGGGAGGAAATGCTGAATAAAGCCGAAGTTGGCCATGGGTACATGGACCGG
CCTTGCCTCAACCCAGCCGACCCAGATTGCCCTGCCACAGCCCCTAACAAAAATTCAACCAAACCTCTTG
ATGTGGCCCTTGTTTTGAATGGTGGATGTCAAGGTTTATCCAGGAAGTATATGCATTGGCAGGAGGAGTT
GATTGTGGGTGGTACCGTCAAGAATGCCACTGGAAAACTTGTCAGCGCTCACGCCCTGCAAACCATGTTC
CAGTTAATGACTCCCAAGCAAATGTATGAACACTTCAGGGGCTACGACTATGTCTCTCACATCAACTGGA
ATGAAGACAGGGCAGCCGCCATCCTGGAGGCCTGGCAGAGGACTTACGTGGAGGTGGTTCATCAAAGTGT
CGCCCCAAACTCCACTCAAAAGGTGCTTCCCTTCACAACCACGACCCTGGACGACATCCTAAAATCCTTC
TCTGATGTCAGTGTCATCCGAGTGGCCAGCGGCTACCTACTGATGCTTGCCTATGCCTGTTTAACCATGC
TGCGCTGGGACTGCTCCAAGTCCCAGGGTGCCGTGGGGCTGGCTGGCGTCCTGTTGGTTGCGCTGTCAGT
GGCTGCAGGATTGGGCCTCTGCTCCTTGATTGGCATTTCTTTTAATGCTGCGACAACTCAGGTTTTGCCG

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TTTCTTGCTCTTGGTGTTGGTGTGGATGATGTCTTCCTCCTGGCCCATGCATTCAGTGAAACAGGACAGA
ATAAGAGGATTCCATTTGAGGACAGGACTGGGGAGTGCCTCAAGCGCACCGGAGCCAGCGTGGCCCTCAC
CTCCATCAGCAATGTCACCGCCTTCTTCATGGCCGCATTGATCCCTATCCCTGCCCTGCGAGCGTTCTCC
CTCCAGGCTGCTGTGGTGGTGGTATTCAATTTTGCTATGGTTCTGCTCATTTTTCCTGCAATTCTCAGCA
TGGATTTATACAGACGTGAGGACAGAAGATTGGATATTTTCTGCTGTTTCACAAGCCCCTGTGTCAGCAG
GGTGATTCAAGTTGAGCCACAGGCCTACACAGAGCCTCACAGTAACACCCGGTACAGCCCCCCACCCCCA
TACACCAGCCACAGCTTCGCCCACGAAACCCATATCACTATGCAGTCCACCGTTCAGCTCCGCACAGAGT
ATGACCCTCACACGCACGTGTACTACACCACCGCCGAGCCACGCTCTGAGATCTCTGTACAGCCTGTTAC
CGTCACCCAGGACAACCTCAGCTGTCAGAGTCCCGAGAGCACCAGCTCTACCAGGGACCTGCTCTCCCAG
TTCTCAGACTCCAGCCTCCACTGCCTCGAGCCCCCCTGCACCAAGTGGACACTCTCTTCGTTTGCAGAGA
AGCACTATGCTCCTTTCCTCCTGAAACCCAAAGCCAAGGTTGTGGTAATCCTTCTTTTCCTGGGCTTGCT
GGGGGTCAGCCTTTATGGGACCACCCGAGTGAGAGACGGGCTGGACCTCACGGACATTGTTCCCCGGGAA
ACCAGAGAATATGACTTCATAGCTGCCCAGTTCAAGTACTTCTCTTTCTACAACATGTATATAGTCACCC
AGAAAGCAGACTACCCGAATATCCAGCACCTACTTTACGACCTTCATAAGAGTTTCAGCAATGTGAAGTA
TGTCATGCTGGAGGAGAACAAGCAACTTCCCCAAATGTGGCTGCACTACTTTAGAGACTGGCTTCAAGGA
CTTCAGGATGCATTTGACAGTGACTGGGAAACTGGGAGGATCATGCCAAACAATTATAAAAATGGATCAG
ATGACGGGGTCCTCGCTTACAAACTCCTGGTGCAGACTGGCAGCCGAGACAAGCCCATCGACATTAGTCA
GTTGACTAAACAGCGTCTGGTAGACGCAGATGGCATCATTAATCCGAGCGCTTTCTACATCTACCTGACC
GCTTGGGTCAGCAACGACCCTGTAGCTTACGCTGCCTCCCAGGCCAACATCCGGCCTCACCGGCCGGAGT
GGGTCCATGACAAAGCCGACTACATGCCAGAGACCAGGCTGAGAATCCCAGCAGCAGAGCCCATCGAGTA
CGCTCAGTTCCCTTTCTACCTCAACGGCCTACGAGACACCTCAGACTTTGTGGAAGCCATAGAAAAAGTG
AGAGTCATCTGTAACAACTATACGAGCCTGGGACTGTCCAGCTACCCCAATGGCTACCCCTTCCTGTTCT
GGGAGCAATACATCAGCCTGCGCCACTGGCTGCTGCTATCCATCAGCGTGGTGCTGGCCTGCACGTTTCT
AGTGTGCGCAGTCTTCCTCCTGAACCCCTGGACGGCCGGGATCATTGTCATGGTCCTGGCTCTGATGACC
GTTGAGCTCTTTGGCATGATGGGCCTCATTGGGATCAAGCTGAGTGCTGTGCCTGTGGTCATCCTGATTG
CATCTGTTGGCATCGGAGTGGAGTTCACCGTCCACGTGGCTTTGGCCTTTCTGACAGCCATTGGGGACAA
GAACCACAGGGCTATGCTCGCTCTGGAGCACATGTTTGCTCCCGTTCTGGACGGTGCTGTGTCCACTCTG
CTGGGTGTACTGATGCTTGCAGGGTCCGAATTTGATTTCATTGTCAGATACTTCTTTGCCGTCCTGGCCA
TTCTCACCGTCTTGGGGGTTCTCAATGGACTGGTTCTGCTGCCTGTCCTCTTATCCTTCTTTGGACCGTG
TCCTGAGGTGTCTCCAGCCAATGGCCTAAACCGACTGCCCACTCCTTCGCCTGAGCCGCCTCCAAGTGTC
GTCCGGTTTGCCGTGCCTCCTGGTCACACGAACAATGGGTCTGATTCCTCCGACTCGGAGTACAGCTCTC
AGACCACGGTGTCTGGCATCAGTGAGGAGCTCAGGCAATACGAAGCACAGCAGGGTGCCGGAGGCCCTGC
CCACCAAGTGATTGTGGAAGCCACAGAAAACCCTGTCTTTGCCCGGTCCACTGTGGTCCATCCGGACTCC
AGACATCAGCCTCCCTTGACCCCTCGGCAACAGCCCCACCTGGACTCTGGCTCCTTGTCCCCTGGACGGC
AAGGCCAGCAGCCTCGAAGGGATCCCCCTAGAGAAGGCTTGCGGCCACCCCCCTACAGACCGCGCAGAGA
CGCTTTTGAAATTTCTACTGAAGGGCATTCTGGCCCTAGCAATAGGGACCGCTCAGGGCCCCGTGGGGCC
CGTTCTCACAACCCTCGGAACCCAACGTCCACCGCCATGGGCAGCTCTGTGCCCAGCTACTGCCAGCCCA
TCACCACTGTGACGGCTTCTGCTTCGGTGACTGTTGCTGTGCATCCCCCGCCTGGACCTGGGCGCAACCC
CCGAGGGGGGCCCTGTCCAGGCTATGAGAGCTACCCTGAGACTGATCACGGGGTATTTGAGGATCCTCAT
GTGCCTTTTCATGTCAGGTGTGAGAGGAGGGACTCAAAGGTGGAGGTCATAGAGCTACAGGACGTGGAAT
GTGAGGAGAGGCCGTGGGGGAGCAGCTCCAACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2009_h02.zip

Restriction Sites: SgfI-MluI

ACCN: NM_008957

Insert Size: 4305 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. More info

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_008957.2, NP_032983.1

RefSeq Size: 4305 bp

RefSeq ORF: 4305 bp

Locus ID: 19206

UniProt ID: Q61115

Cytogenetics: 13 32.8 cM

Gene Summary: Acts as a receptor for sonic hedgehog (SHH), indian hedgehog (IHH) and desert hedgehog (DHH). Associates with the smoothened protein (SMO) to transduce the hedgehog's proteins signal. Seems to have a tumor suppressor function, as inactivation of this protein is probably a necessary, if not sufficient step for tumorigenesis.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longer isoform (a).