

Specifications:

Gene:	mPtch1
Accession:	NP_032983
Insert size:	4318bp
Concentration:	10µg at 0.2µg/µL

mPatched 1/PTCH cDNA Plasmid

Ptch1 patched homolog 1 [*Mus musculus* (house mouse)]

Also known as: Ptc; mes; Ptc1;
Ptch

Summary:

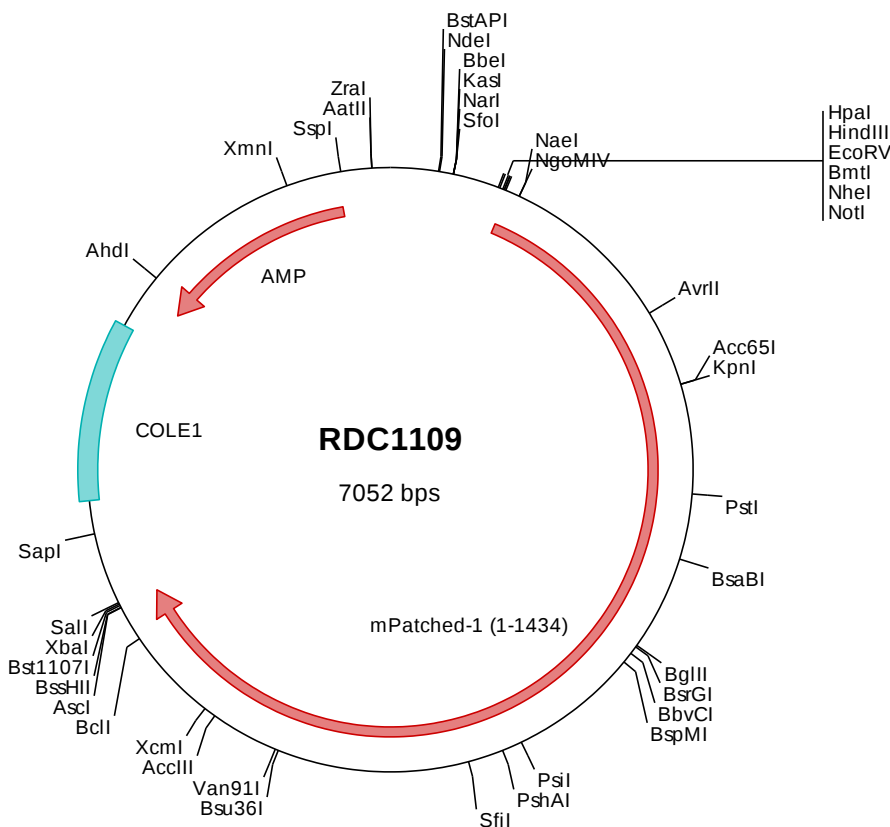
PTCH1 is a member of the patched gene family. It is the receptor for Sonic Hedgehog, a secreted molecule implicated in the formation of embryonic structures and in tumorigenesis, as well as the Desert Hedgehog and Indian Hedgehog proteins. Upon Hedgehog binding to Patched, Smoothened is released and initiates downstream signaling. Mutations in PTCH1 have been associated with basal cell nevus syndrome, esophageal squamous cell carcinoma, trichoepitheliomas, transitional cell carcinomas of the bladder, as well as holoprosencephaly.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.





> RDC1109 Plasmid DNA Sequence

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101    tcagggcgcg tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtg accatattgc gtgtgaaata
201    ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
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401    ggagacgtgt taacaagctt ggaatccgata tcgctagcgc ggccgcaccc atgtctgtca cgggcccagc tactgcgacg ccgccttgcg tctggagcag
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1301   acccagcgca ccagattgc cctgccacag cccttaacaa aaattcaacc aaacctcttg atgtggccct tgttttgaat ggttgatgtc aaggtttatc
1401   caggaagtat atgcaatggc agggagattt gatttgcgca agaatctcag agaatctcag tggaaaaact gtcagcgctc acgcccctgc aacctgttgc
1501   cagtttaatga ctcccaagca aatgtatgaa caactcaggg gctacgacta tctctctcac atcaactgga atgaagacag ggcagccgcc atcctggagg
1601   cctggcagag gacttacgtg gaggtgggtc atcaaatgtt cgccccaaac tccactcaaa aggtgcttcc cttcacaccc acgacctggg acgacatcct
1701   aaaatccttc ttctgagtga agtgcactcc agtgcactcc ggtcacctac tgatgtctgc agcaactcgc ttaacctatg tggcctggga cgttcccaag
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1901   cgacaactca ggttttgcgc tttctgtctc ttgtgtgtgg tgtgtgtat gtcctctccc tggcccatgc attcagtga acaggacaga ataagaggat
2001   tctgttactg cagcaggact gggagtgcct caagcgcaac ggagcagcg cgcctctcac ttccatcagc aatgtcaccg cctctctcat ggcgcatttg
2101   atccctatcc ctgcccctgc agcgtctctc ctccaggctg ctgtgtgtgt ggtatccaat ttgtctatgg ttctgtctat tttctctgca attctcagca
2201   tggatttata cagacgtgag gacagaagat ttgatttttt ctgtctgttc acaagccctc gtgtcagcag ggtgattcaa gttgagccac aggcctacac
2301   aggaactcac atgaacaccc ggtacagccc cccaccccac tacaccagcc cgcacgaacc atcactcaacta tgcagctccac cgttccagctc
2401   cgacacagat atgacctcoa cagcagctgt tactacacca ccgcagagcc acgctctgag atctctgtac agcctgttac cgtcacccag gacaacctca
2501   gctgtcagag tcccgagagc accagctcta ccaggagcct gctctcccac ttctcagact ccagctctca ctcgctcag ctgcctcagag cccccctgca ccaagtggac
2601   actctctctg ttctgactga agcaactatg tcotttctcc ttgaaaccca aagccaaagg tgtgttaato cttcttttcc gggggtcagc gggggtcagc
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> RDC1109 Translated Insert Sequence

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