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Product datasheet for MR227010

Ptch1 (NM_008957) Mouse Tagged ORF Clone

Product data:

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

ORF Nucleotide Sequence:

>MR227010 representing NM_008957
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCGGCTGGTAACGCCGCCGGGGCCCTGGGCAGGCAGGCCGGCGGCGGGAGGCGCAGACGGACCG
GGGGACCGCACCGCGCCGCGCCGGACCGGGACTATCTGCACCGGCCCAGCTACTGCGACGCCGCCTTCGC
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TTTCTTGCTCTTGGTGTTGGTGTGGATGATGTCTTCCTCCTGGCCCATGCATTCAGTGAAACAGGACAGA
ATAAGAGGATTCCATTTGAGGACAGGACTGGGGAGTGCCTCAAGCGCACCGGAGCCAGCGTGGCCCTCAC
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Protein Sequence:

>MR227010 representing NM_008957
Red=Cloning site Green=Tags(s)

MASAGNAAGALGRQAGGGRRRRTGGPHRAAPDRDYLHRPSYCDAAFALEQISKGKATGRKAPLWLRAKFQ
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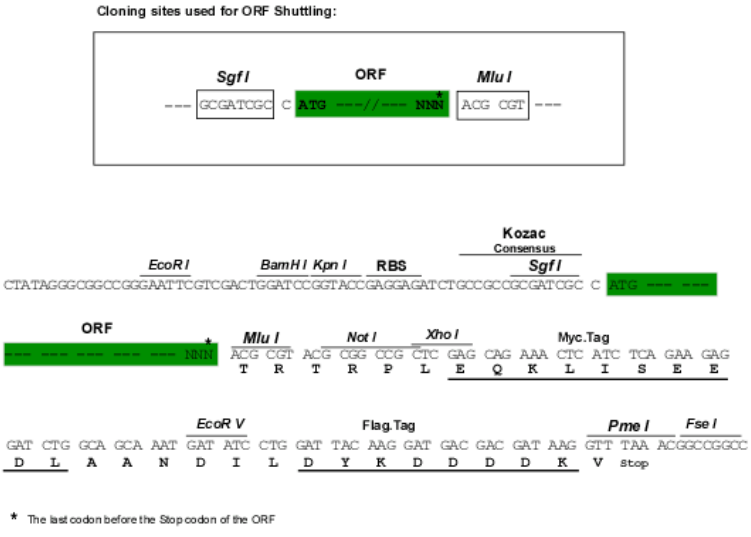
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9001_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

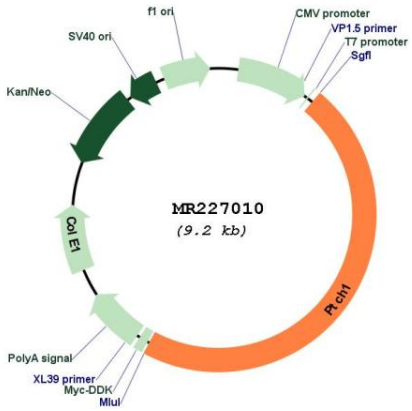


ACCN: NM_008957

ORF Size: 4302 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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_008957.3
RefSeq Size:	4305 bp
RefSeq ORF:	4305 bp
Locus ID:	19206
UniProt ID:	Q61115
Cytogenetics:	13 32.8 cM
MW:	159.7 kDa
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]

Product images:



Circular map for MR227010