

Product datasheet for **MG227201**

Shh (NM_009170) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Shh (NM_009170) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Shh
Synonyms: 9530036O11Rik; Dsh; Hhg1; Hx; Hxl3; M100081
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG227201 representing NM_009170
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCTGCTGCTGGCCAGATGTTTTCTGGTGATCCTTGCTTCCTCGTGCTGGTGTGCCCGGGCTGG
 CCTGTGGGCCCGCAGGGGTTTGGAAAGAGCGGCACCCCAAAAAGCTGACCCCTTAGCCTACAAGCA
 GTTTATCCCAACGTAGCCGAGAAGACCCTAGGGGCCAGCGCAGATATGAAGGGAAGATCACAAGAAAC
 TCCGAACGATTTAAGGAACACCCCAATTACAACCCCGACATCATATTAAGGATGAGGAAAACACGG
 GAGCAGACCGGCTGATGACTCAGAGGTGCAAAGACAAGTTAAATGCCTTGCCATCTCTGTGATGAACCA
 GTGGCCTGGAGTGAAGCTGCGAGTGACCGAGGGCTGGGATGAGGACGGCCATCATTAGAGGAGTCTCTA
 CACTATGAGGGTCGAGCAGTGGACATCACACGTCGACCGGGACCGCAGCAAGTACGGCATGCTGGCTC
 GCCTGGCTGTGGAAGCAGGTTTCGACTGGGTCTACTATGAATCCAAGCTCACATCCACTGTTCTGTGAA
 AGCAGAGAACCTCCGTGGCGGCCAAATCCGGCGGCTGTTCCCGGGATCCGCCACCGTGCACCTGGAGCAG
 GGCGGCACCAAGCTGGTGAAGGACTTACGTCCCGGAGACCGCGTGTGCGGGTACGACACCGGGCCGGC
 TGCTGTACAGCGACTTCTCACCTTCTGGACCGCAGCAAGGCGCAAGAAGGTTCTACGTGATCGA
 GACGCTGGAGCCGCGGAGCGCCTGCTGCTCACCGCCGCGCACCTGCTCTTCGTGGCGCCGACACAACGAC
 TCGGGGCCACGCCCAGCGCAAGCGCGCTTTTGCCAGCCGCTGCGCCCGGGCAGCGGTGTACGTGG
 TGGCTGAACGCGCGGGGACCGCCGGTCTGCTCCCGCGCGGTGCACAGCGTGACGCTGCGAGAGGAGGA
 GGCGGGCGCTACGCGCCGCTCACGCGCACGGCACCATTTCTCATCAACCGGGTGTCTCGCTCGTCTAC
 GCTGTATCGAGGAGCACAGCTGGGCACACCGGCCTTCGCGCCTTCCGCTGGCGCACGCGTCTGG
 CCGCGTGGCACCCGCCCCGACGGACGGCGGGGGCGGGGACGATCCCTGCAGCGCAATCTGCAACGGA
 AGCGAGGGGCGCGGAGCCGACTGCGGGCATCCACTGGTACTCGCAGTGTCTACCACATTGGCACCTGG
 CTGTTGGACAGCGAGACCATGCATCCCTTGGGAATGGCGGTCAAGTCCAGC

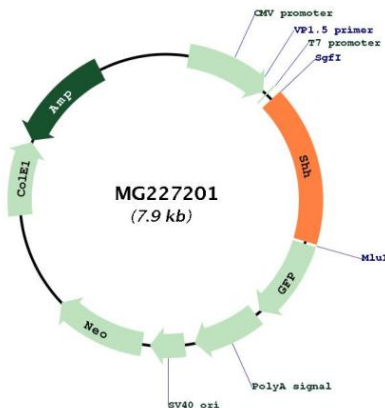
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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|-------------------------------|---|
| 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: | <ol style="list-style-type: none"> 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: | <u>NM_009170.3</u> , <u>NP_033196.1</u> |
| RefSeq Size: | 2727 bp |
| RefSeq ORF: | 1314 bp |
| Locus ID: | 20423 |
| UniProt ID: | <u>Q62226</u> |
| Cytogenetics: | 5 14.39 cM |
| Gene Summary: | Sonic hedgehog protein: The C-terminal part of the sonic hedgehog protein precursor displays an autoproteolysis and a cholesterol transferase activity (PubMed:8824192, PubMed:7891723). Both activities result in the cleavage of the full-length protein into two parts (ShhN and ShhC) followed by the covalent attachment of a cholesterol moiety to the C-terminal of the newly generated ShhN (PubMed:8824192). Both activities occur in the reticulum endoplasmic (PubMed:21357747). Once cleaved, ShhC is degraded in the endoplasmic reticulum (PubMed:21357747).[UniProtKB/Swiss-Prot Function] |

Product images:



Circular map for MG227201