

## Product datasheet for **RN208777**

### Shh (NM\_017221) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Shh (NM_017221) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Shh
Synonyms:	ShhNC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN208777 representing NM\_017221  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCTGCTGCTGCCAGATGTTTTCTGGTGGCCCTTGCTTCCTCGCTGCTGGTGTGCCCGGACTGG  
 CCTGTGGGCCCGGCAGGGGGTTTGGAAAGAGGCAGCACCCCAAAAAGCTGACCCCTTTAGCCTACAAGCA  
 GTTTATCCCCAACGTAGCCGAGAAGACCCTAGGGGCCAGCGCCGATATGAAGGGAAGATCACAAAGAAAC  
 TCCGAACGATTTAAGGAACTCACCCCAATTACAACCCGACATCATATTTAAGGATGAGGAAAACACTG  
 GAGCAGACCGGCTGATGACTCAGAGGTGCAAAGACAAGTTAAATGCCTTGGCCATCTCCGTGATGAACCA  
 GTGGCCTGGAGTGAAGCTTCGAGTACTGAGGGCTGGGATGAGGACGGCCATCATTAGAGGAGTCTCTA  
 CACTATGAGGGTCGAGCAGTGGACATCACACGTCTGACAGGGACCGCAGCAAGTATGGCATGCTGGCTC  
 GCCTGGCTGTGGAGGCTGGATTCGACTGGGTCTACTATGAATCCAAGCTCGCATCCACTGCTCTGTGAA  
 AGCAGAGAACTCCGTGGCGGCCAAATCTGACGGGTGCTCCCGGGATCAGCCACAGTGCACCTGGAGCAG  
 GGTGGCACCAAGTTAGTGAAGGATCTAAGTCCCGGGGACCGCGTCTGGCGGCTGACGACCAGGGCCGGC  
 TGCTGTACAGCGACTTCTCACCTTCTGGACCGCAGCAAGGTGCCAAGAAGGTCTTCTACGTGATCGA  
 GACGCGGGAGCCGCGGGAGCGTCTGCTGCTCACTGCCGCGCACCTGCTCTTCGTGGCGCCGACAAACGAC  
 TCCGGGCCACTCCGGGACCGAGCCCACTTTCGCCAGCCGCGTGCCTCCGGGGCAGCGCGTGTACGTGG  
 TGGCTGAACGCGGGCGGGACCGCGGCTGCTGCCCGCGCGGTGCACAGCGTAACGCTACGAGAGGAGGC  
 GGCGGGTGCCTACGCGCCGCTCACGGCGGACGGCACCAATTCTCATCAACCGGGTCTCGCCTCGTGTAC  
 GCAGTCATCGAGGAGCACAGCTGGGCACACCGGGCCTTCGCGCCCTCCGCTGGCGCACGCGCTGCTGG  
 CCGCGCTGGCACCCGCCCGCACGGACGGCGGGGGCGGGGCGAGCATCCCTGCCCCGAATCTGTAGCGGA  
 AGCGAGGGGCGCAGGGCCGCTGCGGGCATCCACTGGTACTCGCAGCTGCTGTACCAATTGGCACCTGG  
 CTGTTGGACAGCGAGACCCTGCATCCCTTGGGAATGGCAGTCAAGTCCAGC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_017221

**Insert Size:** 1314 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](mailto: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\\_017221.1](#), [NP\\_058917.1](#)

**RefSeq Size:** 1715 bp

**RefSeq ORF:** 1314 bp

**Locus ID:** 29499

**UniProt ID:** [Q63673](#)

**Cytogenetics:** 4q11

**Gene Summary:** plays a role in neurogenesis; regulates proliferation of adult hippocampal neural stem cells [RGD, Feb 2006]