

Product datasheet for **RR208777**

Shh (NM_017221) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR208777 representing NM_017221
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCTGCTGCTGCCAGATGTTTTCTGGTGGCCCTTGCTTCCTCGTGCTGGTGTGCCCGGACTGG
 CCTGTGGGCCCGCAGGGGGTTTGGAAAGAGGCAGCACCCAAAAAGCTGACCCCTTTAGCCTACAAGCA
 GTTTATCCCCAACGTAGCCGAGAAGACCCTAGGGGCCAGCGCCGATATGAAGGGAAGATCACAAAGAAAC
 TCCGAACGATTTAAGGAACTCACCCCAATTACAACCCGACATCATATTTAAGGATGAGGAAAACACTG
 GAGCAGACCGGCTGATGACTCAGAGGTGCAAAGACAAGTTAAATGCCTTGGCCATCTCCGTGATGAACCA
 GTGGCCTGGAGTGAAGCTTCGAGTACTGAGGGCTGGGATGAGGACGGCCATCATTAGAGGAGTCTCTA
 CACTATGAGGGTCGAGCAGTGGACATCACACGTCTGACAGGGACCGCAGCAAGTATGGCATGCTGGCTC
 GCCTGGCTGTGGAGGCTGGATTCGACTGGGTCTACTATGAATCCAAGCTCGCATCCACTGCTCTGTGAA
 AGCAGAGAACTCCGTGGCGGCCAAATCTGACGGCTGCTCCCGGGATCAGCCACAGTGCACCTGGAGCAG
 GGTGGCACCAAGTTAGTGAAGGATCTAAGTCCCGGGGACCGCTGCTGGCGGCTGACGACCAGGGCCGGC
 TGCTGTACAGCGACTTCCTCACCTTCTGGACCGCAGCAAGGTGCCAAGAAGGTCTTCTACGTGATCGA
 GACGCGGGAGCCGCGGGAGCGTCTGCTGCTCACTGCCGCGCACCTGCTCTTCGTGGCGCCGACAAACGAC
 TCCGGGCCCACTCCGGGACCGAGCCCACTTTCGCCAGCCGCGTGCCTCCGGGGCAGCGCGTGTACGTGG
 TGGCTGAACGCGGGCGGGACCGCGGCTGCTGCCCGCCGCGGTGCACAGCGTAACGCTACGAGAGGAGGC
 GGCGGGTGCCTACGCGCCGCTCACGGCGGACGGCACCAATTCTCATCAACCGGGTGCCTCGCCTCGTGTAC
 GCAGTCATCGAGGAGCACAGCTGGGCACACCGGGCCTTCGCGCCCTCCGCTGGCGCACGCGCTGCTGG
 CCGCGCTGGCACCCGCCCGCACGGACGGCGGGGGCGGGGCGAGCATCCCTGCCCGCAATCTGTAGCGGA
 AGCGAGGGGCGCAGGGCCGCTGCGGGCATCCACTGGTACTCGCAGCTGCTGTACCACATTGGCACCTGG
 CTGTTGGACAGCGAGACCCTGCATCCCTTGGGAATGGCAGTCAAGTCCAGC

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208777 representing NM_017221
 Red=Cloning site Green=Tags(s)

MLLLLARCFLVALASSLLVCPGLACGPGRGFGKRQHPKLLTPLAYKQFIPNVAEKTLGASGRYEGKITRN
 SERFKELTPNYNPDIIIFKDEENTGADRLMTQRCKDKNALAI SVMNQWPGVKLRVTEGWDEDGHHSEESL
 HYEGRAVDITTSRDRSKYGMRLARLAVEAGFDWVYYESKARIHCSVKAENSVAAKSDGCFPGSATVHLEQ
 GGTKLVKDLSPGDRVLAADDQGRLLYSDFLTFLLDRDEGAKKVFYVIETREPRERLLLTAHLLFVAPHND
 SGPTPGSPPLFASRVPRGQRYVVAERGGDRLLPAAVHSVTLREEAAGAYAPLTADGTILINRVLASCY
 AVIEEHSWAHRAFAPFRLAHALLAALAPARTDGGGGGSIAPAPQSVAEARGAGPPAGIHWYSQLLYHIGTW
 LLDSETLHPLGMAVKSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_017221

ORF Size: 1311 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](#)

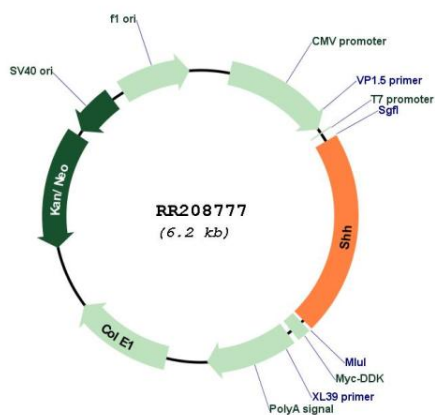
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_017221.1](#), [NP_058917.1](#)

RefSeq Size:	1715 bp
RefSeq ORF:	1314 bp
Locus ID:	29499
UniProt ID:	Q63673
Cytogenetics:	4q11
MW:	47.6 kDa
Gene Summary:	plays a role in neurogenesis; regulates proliferation of adult hippocampal neural stem cells [RGD, Feb 2006]

Product images:


Circular map for RR208777