

Product datasheet for **MG207568**

Hhat (BC008159) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hhat (BC008159) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hhat
Synonyms:	MGC11697, Skn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207568 representing BC008159
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCCGGGTGGAACTGACTCTCTGCCTGCTTGTTCCTTGGGTTTCCACTCCGCTCTTTCTATG
 AAGTTTACAAAGTCTCCAGAGAGCATGAAGAGGAAGTGGATCAAGAATTTGAGCTGGAGATGGACTCT
 ATTTGGAGGACTGAAGAAGGACCCGACTGATTTTGTGGAAGTCTGGATGGAATGGGGGAAGCGGAGG
 CTGGTGTGGCTCTTCAATGGCCATATGGCTGTGTCTCAGTTGGCCAGTTACTCACAAGAAGCACAGAC
 CCTGGATTGTCATGGTCTATGGAATGTGGGCTGCTGGTGTGTCTGGGGCGCCAGGCGTGGTCTGGT
 CCTTCTCCACAGCACCATCGCTTCTGCGTGGCTCAGTCCGATCCGTGCTCCTGTCTGGCTGTGTCT
 CTCCTTCTGCTCTCCACCCTAAGGCTGCAAAGTGTGGAGGAAGTAAAGAGAAGGTGTTACAAGACAGAGA
 ACGAGTATTACCTGCTCCAGTTTACGCTACTGTTGCTGCTGTACTACACCAGCTTCAGCCTGGAGCT
 GTGCCGCGAGCCTCCGTCTGCACAACCTACTCCATCTGCGCAAGGTGCCTCCCATTCCTACCCGTGGCTG
 CTGACCTACGTCTTCTATTATCCCGTCTCCACAACGGGCCATCCTTAACCTCCCGGAGTTCTTACAGC
 AGATGCAGCAGCCAGAGCTCAACTCTCTGCAGCACAGCCTCTGCATTGTAGCCAAGGGCCTGGGTGCT
 GCTCTGCTGGTGGTGGCTGGCTGAACTGATGGTACACCTCATGTACATGCATGCCCTCTACAGCAGCGCC
 CCCCTCTGGAGAGCGTTTCTGCTGGACCTTAGGAGGACTGGCGCTGGCCCAAGTGTCTTCTTCTATG
 TGAAGTACCTGGTGTCTTTGGTGTCCCGGCTCTGCTCATGCGCCTGGATGGACTCACGCCACCACCTCT
 TCCCGCTGCGTGAGCACCATGTTCAAGTTTACCGGATGTGGAGGATTTTGTGTTGGACTACACAAT
 TTCTTAATCAGGTATGTGTACATCCACTGGGCGGGTCCAGCATGGCCTGTTGGGGACTGCTTTCTA
 CTGCAACAACGTTTGCCTGCTGAGCTACTGGCATGGTAGCTATGAGGACCTCTGGTGGCAGCGCT
 CAACTGGCTGGGAGTCACTGTGGAGAGTGGGGTCCGGAGGCTGCTAGAGACACCCTGTGTCCGGGAGACT
 TTGGCCCGCACCTCTCCCAACAAGCCACCATCGACTGCACGCTCTGCTTGGCCGCTGCTACCTCCA
 TGCTCATCTCTTCAACCTGGTGTCTCTCGGGGAATTCAAGTTGGGAAAACCTACTGGAACAGGATCTT
 CCTGCAAGCAGCCTTCAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207568 representing BC008159
 Red=Cloning site Green=Tags(s)

MLPGWELTLCLLVSLGFHFRSFYEVYKVSREHEEELDQEFELMDTLFGGLKKDPTDFEWNFWMWEGKRR
 LVWLFIGHMAVSQLATLLTKKHPWIVMVGWACWCVLGAPGVVMVLLHSTIAFCVAQFRSVLLSWLCS
 LLLLSTLRLQSVVEVKRRWYKTENEYLLQFTLTVRCLYYTSFSLELCRQPPSAQPTPSAQGASHSYPWL
 LTYVYFYPVFNHNPILNFPEFFRQMQPELNSLQHSCLIVAKGLGRLLCWWWLAELMVHLMYMHALYSSA
 PLLESVSCWTLGGLALAQLFFYVKYLVLFVGPALLMRLDGLTPPPLPRCVSTMFSTGMWRYFDVGLHN
 FLIRYVYIPLGGSQHGLLSTATTFAFVSYWHGSYEDLWCWAALNWLGVTVESGVRRLLETPCVRET
 LARHLSQAHRHLHALLAACSTSMILFNLVFLGGIQVGKTYWNRIFLQAAFR

TRTRPLE - GFP Tag - V

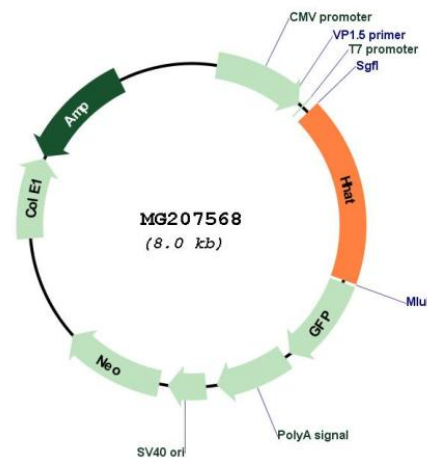
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC008159

ORF Size: 1421 bp

OTI Disclaimer: 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: [BC008159](#), [AAH08159](#)

RefSeq Size: 1832 bp

RefSeq ORF: 1421 bp

Locus ID: 226861

Cytogenetics: 1 H6

Gene Summary: Catalyzes N-terminal palmitoylation of SHH; which is required for SHH signaling during limb development. May bind GTP.[UniProtKB/Swiss-Prot Function]