

## Product datasheet for **MG218383**

### Hhat (NM\_144881) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hhat (NM_144881) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hhat
Synonyms:	2810432O22Rik; AI462858; AP-2CRE; Skn; Tg(TFAP2A-cre)1Will
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG218383 representing NM\_144881  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGCCCGGTGGAACTGACTCTCTGCCTGCTTGTTCCTTGGGTTTCCACTCCGCTCTTTCTATG  
 AAGTTTACAAAGTCTCCAGAGAGCATGAAGAGGAAGTGGATCAAGAATTTGAGCTGGAGATGGACTCT  
 ATTTGGAGGACTGAAGAAGGACCCGACTGATTTTGTGGAAGTCTGGATGGAATGGGGGAAGCGGAGG  
 CTGGTGTGGCTCTTCAATGGCCATATGGCTGTGTCTCAGTTGGCCAGTTACTCACAAGAAGCACAGAC  
 CCTGGATTGTCATGGTCTATGGAATGTGGGCTGCTGGTGTGTCTGGGGCGCCAGGCGTGGTCTGGT  
 CCTTCTCCACAGCACCATCGCTTCTGCGTGGCTCAGTTCGATCCGTGCTCCTGTCTGGCTGTGTCT  
 CTCCTTCTGCTCTCCACCCTAAGGCTGCAAAGTGTGGAGGAAGTAAAGAGAAGGTGTTACAAGACAGAGA  
 ACGAGTATTACCTGCTCCAGTTTACGCTACTGTTGCTGCTGTACTACACCAGCTTCAGCCTGGAGCT  
 GTGCCGCGAGCCTCCGTCTGCACAACCTACTCCATCTGCGCAAGGTGCCTCCCATTCCTACCCGTGGCTG  
 CTGACCTACGTCTTCTATTATCCCGTCTCCACAACGGGCCATCCTTAACTTCCCGGAGTCTTTCAGAC  
 AGATGCAGCAGCCAGAGCTCAACTCTCTGCAGCACAGCCTCTGCATTGTAGCCAAGGGCCTGGGTGCTCT  
 GCTCTGCTGGTGGTGGCTGGCTGAACTGATGGTACACCTCATGTACATGCATGCCCTCTACAGCAGCGCC  
 CCCCTCTGGAGAGCGTTTCTGCTGGACCTTAGGAGGACTGGCGCTGGCCCAAGTGTCTTCTTCTATG  
 TGAAGTACCTGGTGTCTTTGGTGTCCCGGCTCTGCTCATGCGCCTGGATGGACTCACGCCACCACCTCT  
 TCCCGCTGCGTGAGCACCATGTTCAAGTTTACCGGATGTGGAGGATTTTGTGTTGGACTACACAAT  
 TTCTTAATCAGGTATGTGTACATCCACTGGCGGGTCCAGCATGGCCTGTTGGGGACTGCTTTCTA  
 CTGCAACAACGTTTGCCTTGTGAGTACTGGCATGGTAGCTATGAGGACCTCTGGTGGCTGGCAGCGCT  
 CAACTGGCTGGGAGTCACTGTGGAGAGTGGGGTCCGGAGGCTGCTAGAGACACCCTGTGTCCGGGAGCT  
 TTGGCCCGCACCTCTCCCCACAAGCCACCATCGACTGCACGCTCTGCTTGGCCCTGCTACCTCCA  
 TGCTCATCTCTTCAACCTGGTGTCTCTCGGGGAATTCAAGTTGGGAAAACCTACTGGAACAGGATCTT  
 CCTGCAAGGGTGGCCATGGGTGACTCTGTCTGTCTGGGATTCTGTACTGCTATTCTCACGTGGACATT  
 GCTTGGGCTCAGACATACACAGTTCTT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG218383 representing NM\_144881  
 Red=Cloning site Green=Tags(s)

MLPGWELTLCLLVSLGFHFRSFYEVYKVSREHEEELDQEFLEMDTLFGGLKKDPTDFEWNFWMWEGKRR  
 LVWLFIGHMAVSQALATLLTKKHPWIVMVYGMWACWCVLGGAPGVVMVLLHSTIAFCVAQFRSVLLSWLCS  
 LLLLSTLRLQSVVEVKRRWYKTENEYLLQFTLTVRCLYYTSFSLERQPPSAQPTPSAQGASHSYPWL  
 LTYVYFYPVFHNGPILNFPEFFRQMQPELNSLQHSCLIVAKGLGRLLCWWWLAELMVHLMYMHALYSSA  
 PLLESVSCWTLGGLALAQVLFYVYKLVLFVGPALLMRLDGLTPPPLPRCVSTMFSTGMWRYFDVGLHN  
 FLIRYVYIPLGGSQHGLLGLTLLSTATTFAFVSYWHGSYEDLWCWAALNWLGVTVESGVRRLLETPCVRET  
 LARHLSQAHRHLHALLAACSTSMILFNLFVGGIQVGKTYWNRIFLQGWVWTLVSLGFLYCYSHVDI  
 AWAQTYTVL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_144881

**ORF Size:** 1497 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:** [NM\\_144881.4](#), [NP\\_659130.2](#)

**RefSeq Size:** 2835 bp

**RefSeq ORF:** 1500 bp

**Locus ID:** 226861

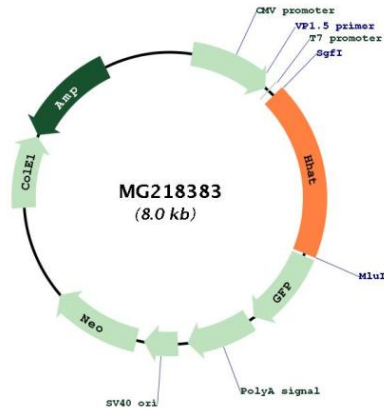
**UniProt ID:** [Q8BMT9](#)

**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]

**Product images:**



Circular map for MG218383