

Product datasheet for **MR218383**

Hhat (NM_144881) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hhat (NM_144881) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hhat
Synonyms:	2810432O22Rik; AI462858; AP-2CRE; Skn; Tg(TFAP2A-cre)1Will
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR218383 representing NM_144881
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCCCGGTGGAACTGACTCTCTGCCTGCTTGTTCCTTGGGTTTCCACTCCGCTCTTTCTATG
 AAGTTTACAAAGTCTCCAGAGAGCATGAAGAGGAAGTGGATCAAGAATTTGAGCTGGAGATGGACTCT
 ATTTGGAGGACTGAAGAAGGACCCGACTGATTTTGAAGTGAAGTCTGGATGGAATGGGGGAAGCGGAGG
 CTGGTGTGGCTCTTCAATGGCCATATGGCTGTGTCTCAGTTGGCCACGTTACTCACAAGAAGCACAGAC
 CCTGGATTGTCATGGTCTATGGAATGTGGGCTGCTGGTGTGTCTGGGGCGCCAGGCGTGGTCTGGT
 CCTTCTCCACAGCACCATCGCTTCTGCGTGGCTCAGTTCGATCCGTCCTGTCTGCTGGCTGTGTCT
 CTCCTTCTGCTCTCCACCCTAAGGCTGCAAAGTGTGGAGGAAGTTAAGAGAAGGTGTTACAAGACAGAGA
 ACGAGTATTACCTGCTCCAGTTTACGCTACTGTTGCTGCTGTACTACACCAGCTTCAGCCTGGAGCT
 GTGCCGCGAGCCTCCGCTGTCACAACCTACTCCATCTGCGCAAGGTGCCTCCCATTCCTACCCGTGGCTG
 CTGACCTACGTTCTATTATCCCGTCTCCACAACGGGCCATCCTTAACCTCCCGGAGTTCTTCAGAC
 AGATGCAGCAGCCAGAGCTCAACTCTCTGCAGCACAGCCTCTGCATTGTAGCCAAGGGCCTGGGTGCT
 GCTCTGCTGGTGGTGGCTGGCTGAACTGATGGTACACCTCATGTACATGCATGCCCTCTACAGCAGCGCC
 CCCCTCTGGAGAGCGTTTCTGCTGGACCTTAGGAGGACTGGCGCTGGCCCAAGTGTCTTCTTCTATG
 TGAAGTACCTGGTGTCTTTGGTGTCCCGGCTCTGCTCATGCGCCTGGATGGACTCACGCCACCACCTCT
 TCCCGCTGCGTGAGCACCATGTTCAAGTTTACCGGATGTGGAGGATTTTGTGTTGGACTACACAAT
 TTCTTAATCAGGTATGTGTACATCCACTGGCGGGTCCAGCATGGCCTGTTGGGGACTGCTTTCTA
 CTGCAACAACGTTTGGTTCGTTGAGTACTGGCATGGTAGCTATGAGGACCTCTGGTGGTGGCAGCGCT
 CAACTGGCTGGGAGTCACTGTGGAGAGTGGGGTCCGGAGGCTGCTAGAGACACCCTGTGTCCGGGAGACT
 TTGGCCCGCACCTCTCCCCACAAGCCACCATCGACTGCACGCTCTGCTTGGCCCTGCTACCTCCA
 TGCTCATCTCTTCAACCTGGTGTCTCTCGGGGAATTCAAGTTGGGAAAACCTACTGGAACAGGATCTT
 CCTGCAAGGGTGGCCATGGGTGACTCTGTCTGTCTGGGATTCTGTACTGCTATTCTCACGTGGACATT
 GCTTGGGCTCAGACATACACAGTTCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218383 representing NM_144881
 Red=Cloning site Green=Tags(s)

MLPGWELTLCLLVSLGFHFRSFYEYKVSREHEEELDQEFELMDTLFGGLKKDPTDFEWNFWMEWGKRR
 LVWLFIGHMAVSQLATLLTKKHPWIVMVYGMWACWCVLGAPGVVMVLLHSTIAFCVAQFRSVLLSWLCS
 LLLLSTLRLQSVEEVKRRWYKTENEYLLQFTLTVRCLYYTSFSLELCRQPPSAQPTPSAQGASHSYPWL
 LTYVFPYVFNHNGPILNFPFFRQMQPELNSLQHSCLIVAKGLGRLLCWWLAELMVHLMYMHALYSSA
 PLLESVSCWTLGGLALAQLVFFYKYLVLFGVPALLMRLDGLTPPPLPRCVSTMFSTGMWRYFDVGLHN
 FLIRYVYIPLGGSQHGLLGTLLSTATTFAFVSYWHGSYEDLWCWAALNWLGVTVESGVRRLLETPCVRET
 LARHLSPOAHRLHALLAACSTSMILFNLFVLLGGIQVGKTYWNRIFLQGWVWTLVGLFLYCYSHVDI
 AWAQTYTVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9028_h12.zip

Restriction Sites:

SgfI-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

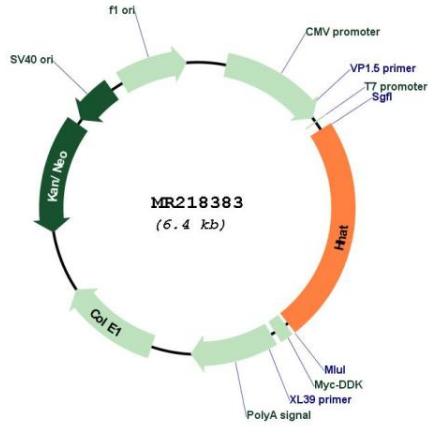
UniProt ID: [Q8BMT9](#)

Cytogenetics: 1 H6

MW: 58.3 kDa

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 MR218383