

Product datasheet for **RG206868**

HHIP (NM_022475) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HHIP (NM_022475) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HHIP
Synonyms:	HIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG206868 representing NM_022475
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGAAGATGCTCTCCTTTAAGCTGCTGCTGCTGGCCGTGGCTCTGGGCTTCTTTGAAGGAGATGCTA
 AGTTTGGGGAAAGAAACGAAGGGAGCGGAGCAAGGAGGAGAAGGTGCCTGAATGGGAACCCCGAAGCG
 CCTGAAAAGGAGAGACAGGAGGATGATGTCCAGCTGGAGCTGCTGAGTGGGGGAGAGATGCTGTGCGGT
 GGCTTCTACCCTCGGCTGTCTGCTGCCTGCGGAGTGACAGCCCGGGGCTAGGGCGCTGGAGAATAAGA
 TATTTTCTGTTACCAACAACACAGAATGTGGGAAGTTACTGGAGGAAATCAAATGTGCACCTTTGCTCTCC
 ACATTCTCAAAGCCTGTTCCACTCACCTGAGAGAGAAGTCTTGGAAAGAGACCTAGTACTTCTCTGCTC
 TGCAAAGACTATTGCAAAGAATCTTTTACACTTGCCGAGGCCATATTCCAGGTTTCTTCAAACAAGT
 CGGATGAGTTTTGCTTTTACTATGCAAGAAAAGATGGTGGGTTGTGCTTCCAGATTTTCAAAGAAAACA
 AGTCAGAGGACCAGCATCTAACTACTTGGACCAGATGGAAGAATATGACAAAGTGAAGAGATCAGCAGA
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 ATAGTGGGGATGGCTCGCAACGTCTCTTATTCTGAAAAAGAAGGTTATGTGAAGATACTTACCCTGA
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 GAAAGAGGACTGCTAAGCCTCGCATTCCATCCCAATTACAAGAAAAATGGAAAGTTGTATGTGTCCTATA
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 CAGAAAAATCCACCAAGTTGATTTGAGAACAGCCAGAGTCTTTCTTGAAGTTGCAGAAGTCCACAGA
 AAGCATCTGGGAGGACAAGTCTCTTTGGCCCTGACGGCTTTTGTACATCATTCTTGGTATGGGATGA
 TTACTACTGGATGATATGGAAGAAATGGATGGGTTAAGTGATTTTACAGGCTCAGTGTCTACGGCTGGATGT
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 CCCCCGAAGTGTGCTCATGGGCTCCAGATCCAGGCAGATGTGCTGTGGATAGACATCCCCTGATA
 TAAACATCAATTTAACGATACTGTGTTCCAGACTCCAATGGAAAAACAGATCATCAGCCAGAATTCTACA
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 GTAATGGGAATTTCTAACTCTCCAGCAAAGTCTGTGACAAAGCAGTGGCAAGAAAAACCACTCTGTCT
 CGGCACTAGTGGTCTGTAGAGGCTACTTTTCCGGTCACATCTTGGGATTTGGAGAAGATGAACTAGGT
 GAAGTTTACATTTATCAAGCAGTAAAAGTATGACCCAGACTCACAATGGAAAACCTACAAAATTTGTAG
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 GTGCTCCAGGCTCTGTCGAAACGGCTACTGCACCCCCACGGGAAAGTGTGCTGCAGTCCAGGCTGGGAG
 GGGGACTTCTGCAGAAGTCAAAATGTGAGCCAGCATGTCGTCATGGAGGTGTCTGTGTTAGACCGAAACA
 AGTGCCTCTGTA AAAAGGATATCTTGGTCTCAATGTGAACAAGTGGACAGAAACATCCGCAGAGTGAC
 CAGGGCAGGATTTCTTGATCAGATCATTGACATGACATCTTACTTGTGGATCTAACAAGTTACATTGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206868 representing NM_022475
Red=Cloning site Green=Tags(s)

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MLKMLSFKLLLLAVALGFFEGDAKFGERNESGARRRRCLNGNPPKRLKRRDRRMSQLELLSGGEMLCG
GFYPRLSCCLRSDSPGLGRLENKIFSVTNTECGKLEEKALCSPHSQSLFHSPEREVLERDLVPLL
CKDYCKEFFYTCRGHIGFLQTTADEF CFYYARKDGLCFDFPRKQVRGPASNYLDQMEEYDKVEEISR
KHKHNCFCIQEVVSGLRQPVGALHSGDGSQRLF ILEKEGYVKIL TPEGEIFKEPYLDIHKLVSQGIKGGD
ERGLLSLAFHPNYKNGKLYVSYTTNQRWAIGPHDHILRVVEYTVSRKNPHQVDLRTARVFLEVAELHR
KHLGGQLLFPGDFLYIILGDGMITLDDMEEMDGLSDF TGSVLRLDVDTM CNVPYSPRNPFPNSTNQ
PPEVFAHGLHDPGRCAVDRHPTDININLTILCSDSNGKNRSSARILQIIKGDYESEPSLLEFKPFSNGP
LVGGFVYRGCQSERLYGSYVFGDRNGNFLTQQSPVTKWQEKPLCLGTSGSCRGYFSGHILGFGEDELG
EYVILSSKSMTQTHNGKLYKIVDPKRPLMPEECRATVQPAQTLTSECSRLCRNGYCTPTGKCCSPGWE
GDFCRTAKCEPACRHGGVCVRPNKCLCKKGYLGPQCEQVDRNIRRVTFRAGILDQIIDMTSYLLDLTSYIV
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022475

ORF Size: 2100 bp

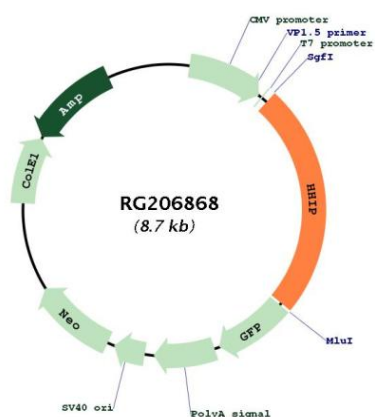
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_022475.3
RefSeq Size:	3530 bp
RefSeq ORF:	2103 bp
Locus ID:	64399
UniProt ID:	Q96QV1
Cytogenetics:	4q31.21
Domains:	EGF
Protein Families:	Secreted Protein
Protein Pathways:	Basal cell carcinoma, Hedgehog signaling pathway, Pathways in cancer
Gene Summary:	<p>This gene encodes a member of the hedgehog-interacting protein (HHIP) family. The hedgehog (HH) proteins are evolutionarily conserved protein, which are important morphogens for a wide range of developmental processes, including anteroposterior patterns of limbs and regulation of left-right asymmetry in embryonic development. Multiple cell-surface receptors are responsible for transducing and/or regulating HH signals. The HHIP encoded by this gene is a highly conserved, vertebrate-specific inhibitor of HH signaling. It interacts with all three HH family members, SHH, IHH and DHH. Two single nucleotide polymorphisms (SNPs) near this gene are significantly associated with risk of chronic obstructive pulmonary disease (COPD). A single nucleotide polymorphism in this gene is also strongly associated with human height.[provided by RefSeq, Feb 2011]</p>

Product images:



Circular map for RG206868