

Product datasheet for **SC114574**

HOOK1 (NM_015888) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOOK1 (NM_015888) Human Untagged Clone
Tag:	Tag Free
Symbol:	HOOK1
Synonyms:	HK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114574 sequence for NM_015888 edited (data generated by NextGen Sequencing)

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ATGGAGGAGACGCAGCCGCCGCCGACGCTAAGCTGCCCTGTGCGACAGCCTCATGATC
TGGCTGCAGACATTCAATACTGCCTCACCTTGCAAGATGTCAAACAGCTGACTAGTGGA
GTTGCCATGGCACAAGTTCTTCATCAAATTGATGCAGCTTGGTTTAACGAATCTTGGTTA
AGCCGAATTAAGAGGATGTTGGGGACAACCTGGAGAATAAAGGCCAGTAATGTAAAGAAG
GTCCTTCAAGGAATTATGAGTTATTATCATGAGTTTTTGGGGCAGCAGATTTCAGAAGCA
CTTATCCCTGATTTAAACCAAATAACCGAATGTTCAAGATCCAGTGGAGCTTGGGAGGTTG
CTCCAGCTTATTTTAGGTTGTGCGATCAACTGTGAAAAGAAGCAAGAACATATTCAAAT
ATAATGACACTGGAAGAGTCTGTTCAACATGTGGTCATGACTGCTATTCAAGAGTTGATG
AGTAAAGAAATATTGAGCTCTCCTCCAAATGATGCTGTTGGAGAATTGGAGCAACAGCTT
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ACAGTGGTTGCAAAAAAGTATTTTCATGCACAATTACAACAGAACAAATACAGGAAGAA
AACTTCAGGCTTGAAGCTGCAAAAGATGATTACCGTGTTCACTGTGAAGAAGCTTGAAGG
CAGCTAATCGAATTCAGCATAGGAATGATGAATTGACTAGTCTTGCAGAAGAAACAAGA
GCCCTGAAAGATGAAATAGATGTTCTTAGGGCTACCTCTGATAAAGCAAAATAACTGGAG
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CGGCTTGAAGAAAAACATGAAGCTTTACTTAAGGAAAAAGAGAGACTAATTGAGCAGCGT
GATACCTTTGAAAGAAACAAATGAAGAGCTTCGATGTTTCAAGTACAACAGGACCACCTA
AACCAACAGATGCATCTGCTACAAAAAGTTATGAGAATCTTGCTGCTGAGATTATGCCA
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CAAGAAGGCTCTGAGAATGAACGTATTGAGGAAGCTTCAGGAGCAGCTAGAACAGAAACAC
CGTAAATGAATGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG
CAGCAGCAGATTGAGGACCTCCAGAAATCTTTACAGGAACAAGGTTCCAAGTCTGAAGGC
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CATGAAGAATTACAGAAGAAACAAGAACTATTGAAGATCTTCAGCCAGATATAAATCAA
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GCAATGGAGGAAAGATATAAAATGTACTTGGAGAAAGCCAGAAATGTAATAAAAAAGTTG
GATCCCAAGTTAAATCCAGCATCAGCTGAAATAATGCTACTAAGAAAGCAGTTGGCAGAG
AAAGAGAGAAGAAATTGAGATTCTGGAGAGTGAATGCAAAGTAGCAAAATTCGGTGATTAT
GAAGAAAACTCATTGTTTCTGCGTGGTATAATAAGAGTCTAGCATTCCAGAACTGGGG
ATGGAATCTAGACTTGTGAGCGGCGGTGGTGCCTGCAGTGACACTGGTGGTGCAGTCTCT
GCGCGGTCTTTCTTAGCGCAGCAACGGCACATCACCAACACCAGAAGAAATCTCTCTGTT
AAAGTCCCTGCTACAACATCTGATTAA

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Clone variation with respect to NM_015888.4

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_015888 unedited CGCGAATTCGGCACGAGGCGCGTGAGCTGCGCGGGTCGTGCCTGGTACCGAGCTTTGCTG GGGGCTAGCAGGTCGTGGACGCCGGCTCCTGGAGGAGAGCCGGTAGGAGGGAGGTGAAGG TGTCCGCGGCGTCGTGACAGCGCGCCGGCCATGGAGGAGACGACGCCGCCGCCGAGC CTAAGCTGCCCTGTGCGACAGCCTCATGATCTGGCTGCAGACATTCAATACTGCCTCAC CTTGTCAGATGTCAAACAGCTGACTAGTGGAGTTGCCATGGCACAAGTTCTTCATCAAA TTGATGCAGCTTGGTTTAAACGAATCTTGGTTAAGCCGAATTAAGAGGATGTTGGGGACA ACTGGAGAATAAAGGCCAGTAATGTAAAGAAGGTCCTTCAAGGAATTATGAGTTATTATC ATGAGTTTTTGGGCGAGCAGATTTCAAGCACTTATCCCTGATTTAAACCAAATAACCG AATGTTTCAGATCCAGTGGAGCTTGGGAGTTGCTCCAGCTTATTTAGGTTGTGCGATCA ACTGTGAAAAGAAGCAAGAACATATTCAAAATATAATGACACTGGAAGAGTCTGTTCAAC ATGTGGTCATGACTGCTATTCAAGAGTTGATGAGTAAAGAAATATTGAGCTCTCTCCAA ATGATGCTGTTGGAGAATTGGAGCAACAGCTTAAAGAGCCTTGAAGAAGTTCAGGAAG CACTAGCAGAAAAAGAAG
3' Read Nucleotide Sequence:	>OriGene 3' genomic read for NM_015888 unedited TTCCCCGTTAAATCTGAGNNACCGCGCCGAATCTANGATCGAGTTTTTTTTTTTTTT TTTTATTGATAATGGACAATCATTTATTTAAATAATATCCTAAATACTTACAAAAATAA ATCAAATATTGGTTTTATTTTTCAAGTGTCAAAGTCTTTGCCATAGAAAATAGAAAGACC TTTTTATAGCTAAACATTACATTTTGTGCTACATCATTTAATAAACTCCACACTCTTTA GGGTTNNGGCCTTACAAAATTTCCAAACTACCTCTTACCATTGTCCAGGTGGCCCATTA AAAAGGTTTGCCTAACCTTACATACCCCATTTTTTTCATAAGGAAAAGTTTCCCATTA ACCCCTTTTGGAACTTAAACACGAACCCCTGGTGGGCAAGGCGCCCTCCACCCCCC GGGGCCAAATTCCTTAAAAAAAAGTTTGAAATGGGGAAACCTTTTTAACATTTAAAT TACCCCTCCTTTTTCAAAAAAGAGCCCTTGGGGAAACCCCTTTTTATTTTTTAA AAAAAAGTGCTTATTCTTCTAAAAAATTTGAGCCCCCTTTTCCCCAAAAA CCCAATTTTTCCCCCCCCAAAGTTTTATCCCCCAAAAAAACCTGGGGCGGTGTCC CCCCCTCTTTTTTTTTAAAAAAGAATTTTTCTTCTAACCAGCGGTCCAACCG AAAAACATCTCCAAAGGTGGGCGGGTTCCCTTTAAACCCCGGGACATTTTCT TCCTTAAAAAACACAAACCGAAAAACCTCCTGGGGGATTATCTCCCCCCCCCTCTT AACACCAGTTGTGTAACATCGTGTACAAGAGAAATTGTTAATATGCCTTACCACCC ACGGGGTGGTCAACTCCCTACATTAACCAGA
Restriction Sites:	NotI-NotI
ACCN:	NM_015888
Insert Size:	6930 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_015888.3](#), [NP_056972.1](#)

RefSeq Size: 2480 bp

RefSeq ORF: 2187 bp

Locus ID: 51361

UniProt ID: [Q9UJC3](#)

Cytogenetics: 1p32.1

Gene Summary: This gene encodes a member of the hook family of coiled-coil proteins, which bind to microtubules and organelles through their N- and C-terminal domains, respectively. The encoded protein localizes to discrete punctuate subcellular structures, and interacts with several members of the Rab GTPase family involved in endocytosis. It is thought to link endocytic membrane trafficking to the microtubule cytoskeleton. Several alternatively spliced transcript variants have been identified, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Jul 2008]