

Product datasheet for **RC202517**

HOOK1 (NM_015888) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOOK1 (NM_015888) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HOOK1
Synonyms:	HK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC202517 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGAGACGCAGCCGCCGCCGAGCCTAAGCTGCCCTGTGCGACAGCCTCATGATCTGGCTGCAGA
CATTCAACTACTGCCTCACCTTGTCAAGATGTCAAACAGCTGACTAGTGGAGTTGCCATGGACAAGTTCT
TCATCAAATTGATGCAGCTTGGTTTAAACGAATCTTGGTTAAGCCGAATTAAGAGGATGTTGGGGACAAC
TGGAGAATAAAGGCCAGTAATGTAAGAAGGTCCTTCAAGGAATTATGAGTTATTATCATGAGTTTTTGG
GGCAGCAGATTTCAAGCACTTATCCCTGATTTAAACCAATAACCGAATGTTCCAGATCCAGTGGAGCT
TGGGAGGTTGCTCCAGCTTATTTTAGGTTGTGCGATCAACTGTGAAAAGAAGCAAGAACATATTCAAAAT
ATAATGACTGGAAGAGTCTGTTCAACATGTGGTCATGACTGCTATTCAAGAGTTGATGAGTAAGAAA
TATTGAGCTCTCCTCAAATGATGCTGTTGGAGAATTGGAGCAACAGCTTAAAAGAGCCTTGAAGAAGT
TCAGGAAGCACTAGCAGAAAAAGAAGAGCTGAGGCAAAGATGTGAAGAATTGGATATGCAGGTGACTACA
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GCTCTTTTGATGATCAAACACAGTGGTTGCAAAAAAGTATTTTCATGCACAATTACAACAGAACAAAT
ACAGGAAGAAAACCTCAGGCTTGAAGCTGCAAAAGATGATTACCGTGTTCAGTGTGAAGAAGTGAAGAA
CAGCTAATCGAATTCAGCATAGGAATGATGAATTGACTAGTCTTGCAGAAGAAACAAGAGCCCTGAAAG
ATGAAATAGATGTTCTTAGGGCTACCTCTGATAAAGCAAATAAAGTGGAGTCAACAGTTGAGATATATCG
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AAGAGCGTATTAGAGAATTGCAGCAGCAGATTGAGGACCTCCAGAAATCTTACAGGAACAAGGTTCCAA
GTCTGAAGGCGAAAGTTCCAGCAAATTAAGCAGAAGTTGGAAGCTCATATGGAAAACTCACAGAGGTC
CATGAAGAATTACAGAAGAAACAAGAATCATTGAAGATCTTACCCAGATATAAATCAAATGTACAAA
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ATAATGCTACTAAGAAAGCAGTTGGCAGAGAAAGAGAGAAGAATTGAGATTCTGGAGAGTGAATGCAAG
TAGCAAAATCCGTGATTATGAAGAAAACTCATTGTTTCTGCGTGGTATAATAAGAGTCTAGCATTCCA
GAACTGGGGATGGAATCTAGACTTGTGAGCGCGGTTGGTGCCTGCAGTGACACTGGTGCCTGCACTCCT
GCGCGTCTTTCTTAGCGCAGCAACGGCACATACCAACACCAGAAGAAATCTCTCTGTTAAAGTCCCTG
CTACAACATCTGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202517 protein sequence
 Red=Cloning site Green=Tags(s)

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MEETQPPPQPKLPLCDSLMIWLQTFNTASPCQDVKQLTSGVAMAQVLHQIDAAWFNESWLSRIKEDVGDN
WRIKASNVKVKVLQGIMSYHFLGQQISEALIPDLNQITECSDPVELGRLLQLILGCAINCEKKQEHIQN
IMTLEESVQHVMTAIQELMSKEILSSPPNDVAGLEQQLKRALEELQEALAEKEELRQRCEELDMQVTT
LQDEKNSLVSEENEMNEKLDQLDGSFDDPNTVVAKKYFHAQLQLEQLQEENFRLEAAKDDYRVHCEELEK
QLIEFQHRNDELTSLAEEETRALKDEIDVLRATSDKANKLESTVEIYRQKLQDLNDRKQVKTLQETNMMY
MHNTVLSLEELKKANAARTQLETYKRQVQDLHVKLSSSESKRADTLAFEMKRLEEKHEALLKEKERLIEQR
DTLKETNEELRCSQVQDHLNQTASATKSYENLAAEIMPVEYREVFIRLQHENKMLRLQQEGSENERIE
ELQEQLQKHKRMNELETEQRLSKERIRELQQQIEDLQKSLQEQQSKSEGESSSKLKQKLEAHMEKLTEV
HEELQKKQELIEDLQPDINQNVQKINELEAALQKKDEDMKAMEERYKMYLEKARNVIKTLDPKLNPAASAE
IMLLRKQLAEKERRIEIIESECKVAKFRDYEEKLIVSAWYNKSLAFQKLGMSRSLVSGGGACSDTGACTP
ARSFLAQQRHITNRRNLSVKVPATTS
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6156_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_015888

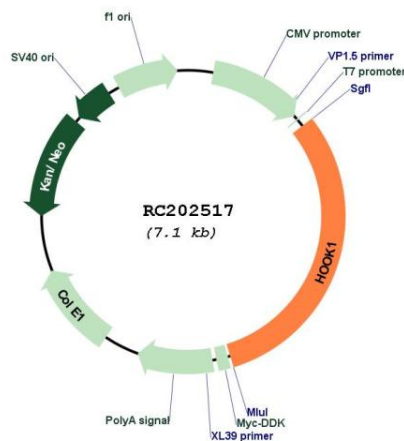
ORF Size: 2184 bp

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](#)

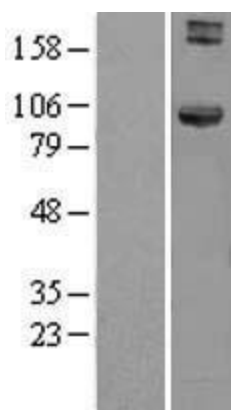
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_015888.6</u>
RefSeq Size:	5865 bp
RefSeq ORF:	2187 bp
Locus ID:	51361
UniProt ID:	<u>Q9UJC3</u>
Cytogenetics:	1p32.1
MW:	84.6 kDa
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]

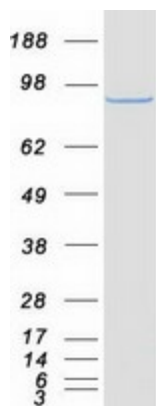
Product images:



Circular map for RC202517



Western blot validation of overexpression lysate (Cat# [LY402472]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202517 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HOOK1 protein (Cat# [TP302517]). The protein was produced from HEK293T cells transfected with HOOK1 cDNA clone (Cat# RC202517) using MegaTran 2.0 (Cat# [TT210002]).