

Product datasheet for **RG202517**

HOOK1 (NM_015888) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOOK1 (NM_015888) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOOK1
Synonyms:	HK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG202517 representing NM_015888
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGAGGAGACGACGCCGCCGCCGAGCCTAAGCTGCCCTGTGCGACAGCCTCATGATCTGGCTGCAGA
 CATTCAACTACTGCCTCACCTTGTCAAGATGTCAACACAGCTGACTAGTGGAGTTGCCATGGCACAAGTTCT
 TCATCAAATTGATGCAGCTTGGTTTAACGAATCTTGGTTAAGCCGAATTAAGAGGATGTTGGGGACAAC
 TGGAGAATAAAGGCCAGTAATGTAAAGAAGTCTTCAAGGAATTATGAGTTATTATCATGAGTTTTTGG
 GGCAGCAGATTTCAGAAGCACTTATCCCTGATTTAAACCAATAACCGAATGTTCCAGATCCAGTGGAGCT
 TGGGAGGTTGCTCCAGCTTATTTAGGTTGTGCGATCACTGTGAAAAGAAGCAAGAATATTCAAAT
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 TCAGGAAGCACTAGCAGAAAAAGAAGAGCTGAGGCAAGATGTGAAGAATTGGATATGCAGGTGACTACA
 CTTCAAGATGAAAAGAATTCAGTGGTTTCTGAAAATGAGATGATGAATGAAAACCTTGACCAGTTGGATG
 GCTCTTTTGATGATCAAACACAGTGGTTGCAAAAAAGTATTTTCATGCACAATTACAACAGAACAAAT
 ACAGGAAGAAAACCTTCAGGCTTGAAGCTGCAAAAGATGATTACCGTGTTCACTGTGAAGAAGTGAAGAG
 CAGCTAATCGAATTCAGCATAGGAATGATGAATTGACTAGTCTTGCAAGAAGAAACAAGGCCCTGAAAG
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 ATGCATAATACAGTCAGCTTAGAAGAAGAATTAAGCAAGCAATGCAGCAGTACACAATTAGAAACAT
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 TGAAATGAAGCGGCTTGAAGAAAAACATGAAGCTTTACTTAAGGAAAAAGAGAGACTAATTGAGCAGCGT
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 AAGAGCGTATTAGAGAATTGCAGCAGCAGATTGAGGACCTCCAGAAATCTTACAGGAACAAGGTTCCAA
 GTCTGAAGGCGAAAGTTCCAGCAAATTAAGCAGAAGTTGGAAGCTCATATGGAAAACTCACAGAGGTC
 CATGAAGAATTACAGAAGAAACAAGAACTATTGAAGATCTTCAGCCAGATATAAATCAAATGTACAAA
 AGATCAATGAAGTGAAGCTGCTCTTCAGAAGAAAGATGAAGATATGAAAGCAATGGAGGAAAGATATAA
 AATGTACTTGGAGAAAGCCAGAAATGTAATAAAAACTTTGGATCCCAAGTTAAATCCAGCATCAGCTGAA
 ATAATGCTACTAAGAAAGCAGTTGGCAGAGAAAGAGAGAAGAAATTGAGATTCTGGAGAGTGAATGCAAG
 TAGCAAAATCCGTGATTATGAAGAAAACTCATTGTTTCTGCGTGGTATAATAAGAGTCTAGCATTCCA
 GAACTGGGGATGGAATCTAGACTTGTGAGCGCGGCTGGTGCCTGCAGTGACACTGGTGCCTGCACTCCT
 GCGCGTCTTTCTTAGCGCAGCAACGGCACATCACCAACACCAGAAGAAATCTCTGTAAAGTCCCTG
 CTACAACATCTGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG202517 representing NM_015888
 Red=Cloning site Green=Tags(s)

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MEETQPPQPKLPLCDSLMIWLQTFNTASPCQDVKQLTSGVAMAQVLHQIDAAWFNESWLSRIKEDVGDN
WRIKASNVKKVLQGIMSYHFLGQQISEALIPDLNQITECSDPVELGRLLQLILGCAINCEKKQEHQIN
IMTLEESVQHVMTAIQELMSKEILSSPPNDVAGELEQQLKRALEELQEALAEKEELRQRCEELDMQVTT
LQDEKNSLVSENNEMNEKLDQLDGSFDDPNTVVAKKYFHAQLQLEQLQEENFRLEAAKDDYRVHCEELEK
QLIEFQHRNDELTS LAEETRALKDEIDVLRATSDKANKLESTVEIYRQKLQDLNDRKQVKTLQETNMMY
MHNTVSL EEELKKANAARTQLETYKRQVQDLHVKLSSSKRADTLAFEMKRLEEKHEALLKEKERLIEQR
DTLKETNEELRCSQVQDHLNQTDASATKSYENLAAEIMPVEYREVFIRLQHENKMLRLQQEGSENERIE
ELQEQLQKHKRMNELETEQRLSKERIRELQQQIEDLQKSLQEQQSGKSEGESSSKLKQKLEAHMEKLTEV
HEELQKKQELIEDLQPDINQNVQKINELEAALQKKDEDMKAMEERYKMYLEKARNVIKTLDPKLNPAASAE
IMLLRKQLAEKERRIEILESECKVAKFRDYEEKLIVSAWYNKSLAFQKLGMESRLVSGGGACSDTGACTP
ARSFLAQQRHITNTRNLSVKVPATTS
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TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_015888.6](#)

RefSeq Size: 5865 bp

RefSeq ORF: 2187 bp

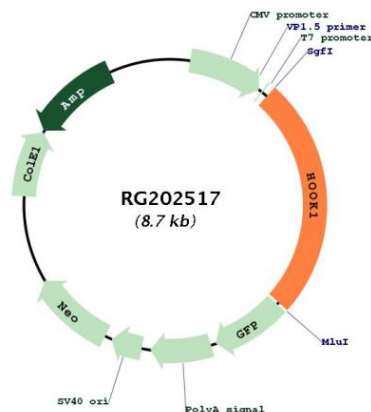
Locus ID: 51361

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]

Product images:



Circular map for RG202517