

Product datasheet for **RG218533**

HOOK2 (NM_001100176) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOOK2 (NM_001100176) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOOK2
Synonyms:	HK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG218533 representing NM_001100176
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAGCGTGGACAAAGCTGAGCTATGCGGGTCTCTGCTCACCTGGTTACAGACGTTCCACGTTCCGTCTC
 CCTGTGCCAGCCCTCAGGACCTGAGCAGCGGCCTTGCCGTAGCCTATGTGCTGAACCAGATAGACCCTC
 CTGTTTCAACGAGGCATGGCTCCAGGCATCTCGGAAGATCCAGGTCCCAACTGGAAGCTGAAGGTCAGC
 AATCTGAAGATGGTCTTACGGAGCCTAGTAGAGTACTCCAGGATGTCTGGCGCATCTGTGTGAGAAG
 AGCATCTCCAGATGTGAGCCTCATTGGAGAGTTCTCAGACCCGGCAGAGCTCGGCAAGCTGCTTCAGCT
 GGTGCTGGGCTGTGCCATCAGTTGCGAGAAAAAGCAGGACCACATCCAGAGAATCATGACGCTGGAAGAA
 TCGTTTACAGATGTGGTATGGAAGCCATCCAAGAGCTCATGACCAAAGACACTCCTGACTCCCTGTCAC
 CAGAGACGTATGGCAACTTTGACAGCCAGTCCCGCAGTACTATTTCTAAGTGAGGAGGCTGAGGAGGG
 GGACGAATTACAGCAGCGCTGTCTGGATCTGGAGCGGCAGCTGATGCTCCTGTGAGAGGAGAAGCAGAGC
 CTGGCGCAAGAGAATGCAGGGCTGCGGGAGCGGATGGGCCGGCCTGAAGGCGAGGGTACCCAGGTCTCA
 CTGCCAAGAAGCTGCTGTGCTGCAATCCAGCTGGAGCAGTTGCAGGAGGAGAAGTTACAGGCTGGAGAG
 TGGCAGGGAGGATGAGCGCCTGCGCTGTGCCGAGCTGGAGAGGGAGGTTGCGGAGCTGCAGCACCAGAAC
 CAGGCGCTGACTAGCCTGGCCCAGGAGGCACAGGCCCTGAAGGATGAGATGGATGAAGTACGGCAGTCTT
 CGGAGCGTGCTGGGCAGCTGGAGGCCACGCTGACCAAGTTGCCGGCGCCGCTTGGGCGAGCTGAGGAGCT
 GCGGCGGCAGGTGCGGCAGCTGGAGGAACGCAACGCCGCCACGCCGAGCGCACGCGACAAGTGGAGGAT
 GAGCTACGCCGAGCGGGTCCCTGCGCGCCAGCTGGAGGCGCAGCGGCGCAGGTGCAGGAAGTGCAGG
 GCCAGCGCAGGAGGAGGCCATGAAGGCCGAGAAATGGCTATTTGAATGCCCAAGCTGGAGGAAAAGTA
 TGAGTCGGTGACAAAGGAGAAGGAGCGGCTGTTGGCGGAGCGGACTCCTTGCGGGAGGCCAATGAGGAG
 CTGCGCTGCGCCAGCTGCAGCCGCGGGGTTGACCCAGGCCGATCCCTACTGGATCCACCTCCACAC
 CCGTGGATAACTTAGCCGAGAGATCCTGCCTGCGGAGCTCAGGGAGACGCTCCTGCGGCTTCAGCTGGA
 GAACAAGCGGCTGTGCAGGCAGGAGGCGGCCGACCGGAGCGGCAGGAGGAGCTGCAGCGCCACCTGGAG
 GATGCCAACCAGCGCGGCCACGGGTTGGAGACGACGACCGGCTGAACCAGCAGCAGCTATCCGAGCTGC
 GGGCCAGGTGGAGGACCTGCAGAAAGCCCTGCAGGAGCAGGGGGCAAGACTGAAGATTCCATTTTGT
 GAAAAGGAAGCTGGAGGAACATTTGCAGAAGCTTCATGAGGCAGATCTGGAGTTGCAGAGGAAGCGGGAG
 TACATTGAGGAGCTGGAGCCACCACTGACAGCAGCACAGCCCGCGGATCGAGGAGCTGCAGCATAACT
 TGAGAAGAAGGACGCGGACTTGCGGGCCATGGAGGAGCGATACCGCCGCTACGTGGACAAGGCCCGCAT
 GGTTCATGCAGACCATGGAACCAAGCAGCGGCCAGCTGCGGGGGCACCTCCAGAAGTCCATTCCCTGAGG
 ACACAGCTCCGAGAACGGGATGTCCGATCCGACACCTGGAGATGGACTTTGAGAAAAGCCGAAGTCAGC
 GGGAGCAGGAAGAAAAGCTGCTCATCAGTGCCTGGTATAATATGGGCATGGCCTTGACAGCAGCGAGCTGG
 GGAGGAGCGGGCGCTGCCATGCCAGTCATTCTGGCACAGCAGCGGCTGGCAACCAATTCTCGCCGT
 GGACCTTGGGACGCCTGGCATCTCTGAACCTTCGCCCCACTGACAAGCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG218533 representing NM_001100176
 Red=Cloning site Green=Tags(s)

MSVDKAEKCGSLLTWLQTFHVPSPCASPQDLSSGLAVAYVLNQIDPSWFNEAWLQGISDPGNWKLKVS
 NLKMLVRLSLVEYSQDVL AHPVSEEHLPDVSLIGFSDPAELGKLLQLVLGCAISCEKKQDHIQRIMTLEE
 SVQHVVMEAIQELMTKDPDSLSPETYGNFDSQSRYYFLSEEAEEDDELQQRCLDLERQLMLLSEEKQS
 LAQENAGLRERMGRPEGETPGLTAKKLLLLQSLEQLQEENFRLESGREDERLRCAELEREVAELQHRN
 QALTSLAQEAQALKDEMDELQSSERAGQLEATLTSCRRLGELRELRRQVRQLEERNAGHAERTRQLED
 ELRRAGSLRAQLEAQRQVQELQQRQEEAMKAEKWLFECRNLEEKYESVTKEKERLLAERDSLREANEE
 LRCAQLQPRGLTQADPSLDPTSTPVDNLAAEILPAELRETLLRLQLENKRLCRQEAADRERQEELQRHLE
 DANRARHGLETHRLNQQQLSELRAQVEDLQKALQEQQGKTEDSILLKRKLEHLQKLHEADLELQRKRE
 YIEELEPTDSSSTARRIEELQHNQKKDADLRAMEERYRRYVDKARMVMQTMPEKQRPAAAGAPPELHSLR
 TQLRERDVRIHLEMDFEKSRSQREQEEKLLISAWYNMGMALQQRAGEERAPAAHAQSFLAQQLATNSRR
 GPLGRLASLNLRPDKH

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001100176

ORF Size: 2151 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_001100176.2](#)

RefSeq Size: 2622 bp

RefSeq ORF: 2154 bp

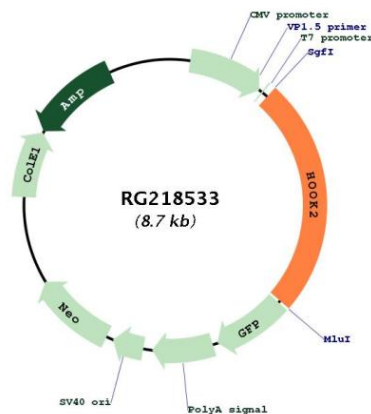
Locus ID: 29911

UniProt ID: [Q96ED9](#)

Cytogenetics: 19p13.13

Gene Summary: Hook proteins are cytosolic coiled-coil proteins that contain conserved N-terminal domains, which attach to microtubules, and more divergent C-terminal domains, which mediate binding to organelles. The Drosophila Hook protein is a component of the endocytic compartment.[supplied by OMIM, Apr 2004]

Product images:



Circular map for RG218533