

Product datasheet for **RG208912**

HOOK3 (NM_032410) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOOK3 (NM_032410) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOOK3
Synonyms:	HK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG208912 representing NM_032410
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTCAGCGTAGAGTCGCTGGAGCGGGCGGAGCTGTGCGAGAGCCTCCTCACTTGGATCCAGACATTTA
 ATGTGGATGCACCATGCCAGACCGTGGAAGATTTAACGAATGGGGTTGTGATGGCCAGGTTCTTCAAAA
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 CTAAGATAAGCAATTTAAAGAAAATTTTAAAGGAATCTTGGATTATAATCATGAGATTTTAGGACAGC
 AAATTAATGACTTTACCTTCTCTGATGTGAACCTTATTGGGGAGCATTCTGATGCAGCAGAGCTTGAAG
 GATGCTTCAGCTCATCTTAGGCTGTGCTGTGAACCTGTGAACAGAAGCAAGAGTACATCCAAGCCATTATG
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 CAAAGAGTCAGAGAGAGATGGAAGAGAAATATATTGTTAGTGCCTGGTACAATATGGGAATGACCTTGCA
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 GCGACCAGCAGCAGAAGATCATACCCAGGCCACGTGCAGCCGGCCACAGCAAGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

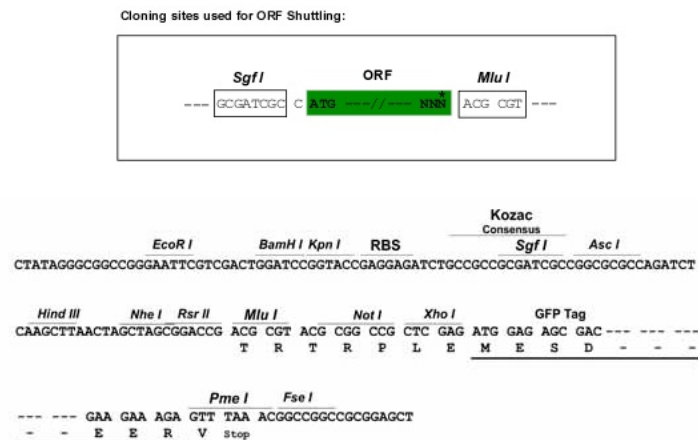
Protein Sequence: >RG208912 representing NM_032410
 Red=Cloning site Green=Tags(s)

MFSVESLERAELCESLLTWIQTFNVDAPCQTVEDLTNGVVMAQVLQKIDPAYFDENWLNRIKTEVGDNWR
 LKISNLKKILKGILDYNHEILGQQINDFTLPDVNLIGEHSAAELGRMLQLILGCAVNCEQKQEYIQAIM
 MMEEVQHVMTAIQELMSKESPVSAAGNDAYVDLDRQLKKTTEELNEALSAKEEIAQRCHELDMQVAALQ
 EEKSSLLAENQVLMERLNQSDSIEDPNPAGRRHLQLQTQLEQLQEETFRLEAAKDDYRIRCEELEKEIS
 ELRQQNDELTTLADEAQLKDEIDVLRHSSDKVSKLEGQVESYKKKLEDLGDLRQVKKLEEKNTMYMQN
 TVSLEELLRKANAARSQLETYKRQVVELQNRLSEESKKADKLDFFEYKRLKEKVDLSQKEKDRLRTERDSL
 KETIEELRCVQAQEGQLTTQGLMPLGSQESSDSLAAEIVTPEIREKLIRLQHENKMLKLNQEGSDNEKIA
 LLQSLDDANLRKNELETENRLVNQRLLEVQSQVEELQKSLQDQGSKAEDSVLLKKKLEEHLEKLHEANN
 ELQKKRAIIEDEPRFNNSSLKIEELQEALRKKEEEMKQMEERYKKYLEKAKSVIRTLDPKQNQGAPEI
 QALKNQLQERDLFHSLEKEYEKTQSREMEEKYIVSAWYNMGMTLHKKAAEDRLASTGSGQSFLARQRQ
 ATSSRRSYPGHVQPATAR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032410

ORF Size: 2154 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_032410.4](#)

RefSeq Size: 3685 bp

RefSeq ORF: 2157 bp

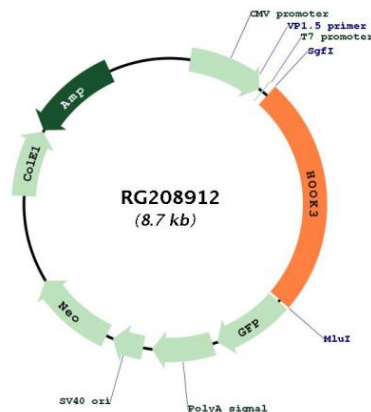
Locus ID: 84376

UniProt ID: [Q86VS8](#)

Cytogenetics: 8p11.21

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 RG208912