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Product datasheet for RG201913

HOOK2 (NM_013312) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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:

>RG201913 representing NM_013312
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGTGGACAAAGCTGAGCTATGCGGGTCTCTGCTCACCTGGTTACAGACGTTCCACGTTCCGTCTC
CCTGTGCCAGCCCTCAGGACCTGAGCAGCGGCCTTGCCGTAGCCTATGTGCTGAACCAGATAGACCCCTC
CTGGTTCAACGAGGCATGGCTCCAGGGCATCTCGGAAGATCCAGGTCCCAACTGGAAGCTGAAGGTCAGC
AATCTGAAGATGGTCTTACGGAGCCTAGTAGAGTACTCCCAGGATGTCCTGGCGCATCCTGTGTCAGAAG
AGCATCTCCCAGATGTGAGCCTCATTGGAGAGTTCTCAGACCCGGCAGAGCTCGGCAAGCTGCTTCAGCT
GGTGCTGGGCTGTGCCATCAGTTGCGAGAAAAAGCAGGACCACATCCAGAGAATCATGACGCTGGAAGAA
TCGGTTCAGCATGTGGTGATGGAAGCCATCCAAGAGCTCATGACCAAAGACACTCCTGACTCCCTGTCAC
CAGAGACGTATGGCAACTTTGACAGCCAGTCCCGCAGGTACTATTTCCTAAGTGAGGAGGCTGAGGAGGG
GGACGAATTACAGCAGCGCTGTCTGGATCTGGAGCGGCAGCTGATGCTCCTGTCAGAGGAGAAGCAGAGC
CTGGCGCAAGAGAATGCAGGGCTGCGGGAGCGGATGGGCCGGCCTGAAGGCGAGGGTACCCCAGGTCTCA
CTGCCAAGAAGCTGCTGCTGCTGCAATCCCAGCTGGAGCAGTTGCAGGAGGAGAACTTCAGGCTGGAGAG
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GAGCTACGCCGAGCGGGCTCCCTGCGCGCCCAGCTGGAGGCGCAGCGGCGGCAGGTGCAGGAACTGCAGG
GCCAGCGGCAGGAGGAGGCCATGAAGGCCGAGAAATGGCTATTTGAATGCCGCAACCTGGAGGAAAAGTA
TGAGTCGGTGACAAAGGAGAAGGAGCGGCTGTTGGCGGAGCGGGACTCCTTGCGGGAGGCCAATGAGGAG
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ACACAGCTCCGAGAACGGGATGTCCGCATCCGACACCTGGAGATGGACTTTGAGAAAAGCCGAAGTCAGC
GGGAGCAGGAAGAAAAGCTGCTCATCAGTGCCTGGTATAATATGGGCATGGCCTTGCAGCAGCGAGCTGG
GGAGGAGCGGGCGCCTGCCCATGCCCAGTCATTCCTGGCACAGCAGCGGCTGGCAACCAATTCTCGCCGT
GGACCCTTGGGACGCCTGGCATCTCTGAACCTTCGCCCCACTGACAAGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

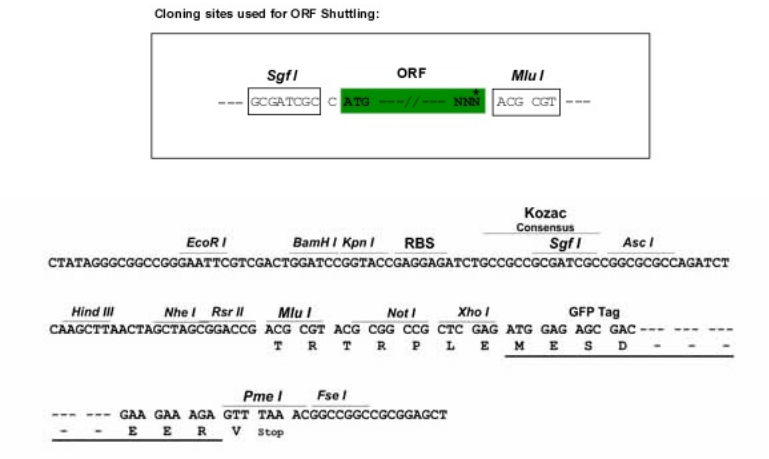
>RG201913 representing NM_013312
Red=Cloning site Green=Tags(s)

MSVDKAELCGSLLTWLQTFHVPSPCASPQDLSSGLAVAYVLNQIDPSWFNEAWLQGISEDPGPNWKLKVS
NLKMVLRSLVEYSQDVLAHPVSEEHLPDVSLIGEFSDPAELGKLLQLVLGCAISCEKKQDHIQRIMTLEE
SVQHVVMEAIQELMTKDTPDSLSPETYGNFDSQSRRYYFLSEEAEEGDELQQRCLDLERQLMLLSEEKQS
LAQENAGLRERMGRPEGEGTPGLTAKKLLLLQSQLEQLQEENFRLESGREDERLRCAELEREVAELQHRN
QALTSLAQEAQALKDEMDELRQSSERAGQLEATLTSCRRRLGELRELRRQVRQLEERNAGHAERTRQLED
ELRRAGSLRAQLEAQRRQVQELQGQRQEEAMKAEKWLFECRNLEEKYESVTKEKERLLAERDSLREANEE
LRCAQLQPRGLTQADPSLDPTSTPVDNLAAEILPAELRETLLRLQLENKRLCRQEAADRERQEELQRQLE
DANRARHGLETQHRLNQQQLSELRAQVEDLQKALQEQGGKTEDSILLKRKLEEHLQKLHEADLELQRKRE
YIEELEPPTDSSTARRIEELQHNLQKKDADLRAMEERYRRYVDKARMVMQTMEPKQRPAAGAPPELHSLR
TQLRERDVRIRHLEMDFEKSRSQREQEEKLLISAWYNMGMALQQRAGEERAPAHAQSFLAQQRLATNSRR
GPLGRLASLNLRPTDKH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013312

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:

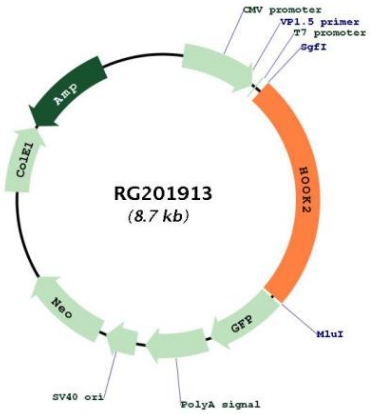
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

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

RefSeq: NM_013312.1, NP_037444.1

RefSeq Size:	2531 bp
RefSeq ORF:	2160 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 RG201913