

Product datasheet for **MR210257**

Hook3 (NM_207659) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Hook3
Synonyms:	5830454D03Rik; AI317159; E330005F07Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR210257 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTTTAACTGGAGTCTGTGGAGCGGTGGAGCTGTGCGAGAGCCTGCTCACTTGGATCCAGACCTTTA
 ATGTGGATGCACCGTGCCAGACCGCGAGGACTTAACGAACGGCGTTGTATGTCCCAGGTTCTTCAGAA
 GATAGATCCTGTATATTTTCGACGATAATTGGCTAAACAGAATCAAACTGAAGTAGGAGACAATTGGAGG
 TTAAGATCAGCAATTTAAAGAAAATTTTAAAGGCATCTTGGATTACAATCATGAGATTTTAGGACAGC
 AGATTAATGATTTACCCCTTCTGACGTGAACCTCATTGGGGAGCATTCCGATGCAGCAGAGCTCGGAAG
 GATGCTGCAGCTCATTCTAGGCTGTCTGTGAACCTGTGAGCAGAAGCAAGAGTACATTCAAGCCATTATG
 ATGATGGAGGAATCTGTTTCAGCATGTCGTCATGACAGCCATTCAAGAGCTAATGAGTAAAGAGTCTCCTG
 TCTCTGCTGGACATGATGCCTATGTTGATCTTGATCGCCAGTTGAAGAAAACCTACCGAAGAACTAAATGA
 AGCTTTGTGAGAAAAGGAGGAAATTGCTCAAAGATGCCATGAATTGGATATGCAGGTTGCAGCACTGCAA
 GAGGAGAAAAGTAGTTTATTGGCAGAAAATCAGATACTAATGGAACGACTCAATCAATCTGATTCTATAG
 AAGATCCCAATAGCCAGCAGGAAGAAGACATTGCAACTTCAGACTCAGTTAGAACAGCTGCAAGAAGA
 AACATTCAGACTAGAAGCAGCCAAAGACGATTATCGAATCCGCTGTGAGGAGTTAGAAAAGGAAATCTCT
 GAGCTTCGGCAGCAGAACGATGAGCTGACCACTTTGGCAGACGAAGCTCAGTCTCTAAAGGATGAATAG
 ACGTTCTCAGACACTCTTCTGATAAAGTATCTAACTAGAAGGCCAAGTCGAATCTTATAAGAAAGAGCT
 GGAAGACCTTGGAGATTGAGGCGGCAGGTTAAGCTCTTGAAGAAAAGAATACGATGTACATGCAGAAC
 ACTGTCAGTCTGGAGGAAGAGTTAAGAAAAGCTAATGCCGCCCGGGACAGCTTGAGACATACAAGAGAC
 AAGTTGTAGAGCTGCAAAATAGATTATCTGACGAATCAAAGAAAGCAGATAAGTTAGATTTTGAATATAA
 GCGGCTAAAAGAAAAGTTGATGGTCTTCAGAAAAGAAAAGATAGGTTAAGAACGGAAGAGATTCTCTG
 AAGGAAACCATGAAAGATTGCGTTGTGTGACAGGCTCAGGAGGGGCAGCTCACCCTCAAGGGTTAATGC
 CTCTGGGAAGCCAGGAATCTTCAGACAGCCTTGACAGCAGAGATTGTTACACCCGAAATCAGGGAGAACT
 TATTCGTCTTCAGCATGAGAATAAAATGTTAACTCAATCAAGAGGATTCAGACAATGAGAAAATTGCC
 TTATTGCAGAGCCTTCTAGATGATGCAAACTACGCAAGAATGAGCTGGAGACGGAGAACAGGCTTGTGA
 ATCAGAGACTTCTAGAAGTACAGTCACAAGTAGAAGAACTGCAAAATCTTTCAGGATCAAGGTTCAAA
 AGCAGAAGATGCTATTTCAAGTCTTCTAAAAAGAGCTTGAAGAATCTAGAGAAGCTGCATGAAGCC
 AACAAATGAATTGCAGAAAAGAGAGCCATTATTGAAGATCTCGAGCCAAGATTTAACACAGCTCCTTAA
 GAATTGAAGAATTGCAAGAGGCTTTACGGAAGAAAGAAAGAAATGAAGCAATGGAAGAACGCTATAA
 AAAATACTTAGAGAAGGCCAAGAGTGTATCCGTACATTAGACCCTAAACAGAATCAAGGAGCAGACCA
 GAAATTCAGCTCTTAAAAATCACTGCAGGAACGGGACCGACTCTTCCACTCATTAGAGAAAGAATATG
 AGAAAACGAAGAGTCAAGAGACATGGAGGAGAAATACATTGTTAGTGCCTGGTACAATATGGGAATGAC
 TCTACATAAAAAGGCGGCTGAAGACAGACTAGCTAGCACAGGTTACGGGCAGTCATTTCTGGCTAGGCAA
 AGACAAGCAACCAGCACAGAAGATCTACCCAGGCCATGTCCAGCCAGCCACAGCAAGG

ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210257 protein sequence
Red=Cloning site Green=Tags(s)

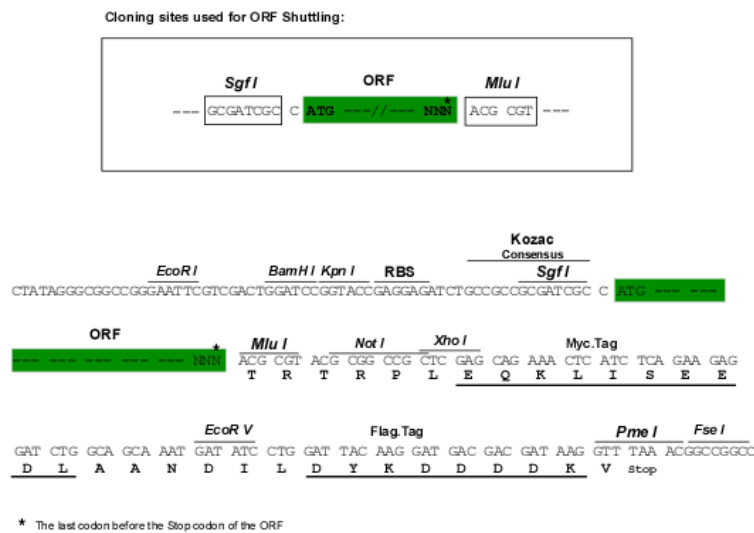
MFNVESVERVELCESLLTWIQTfNVDAPCQTAEDLTNGVVMQVLQKIDPVYFDDNWLNRKITEVGDNWR
LKISNLKKILKGILDYNHEILGQQINDFTLPDVNLIGEHSAAELGRMLQLILGCAVNCEQKQEYIQAIM
MMEESVQHVMTAIQELMSKESPVSAAGHDAYVDLDRQLKKTTEELNEALSEKEEIAQRCHELDMQVAALQ
EEKSSLLAENQILMERLNQSDSIEDPNPAGRRHLQLQTQLEQLQEETFRLEAAKDDYRIRCEELEKEIS
ELRQQNDELTTLADEAQLKDEIDVLRHSSDKVSKLEGQVESYKKKLEDLGDLRRQVKLLEEKNMTMYQN
TVSLEELRKANAARGQLETYKRQVVELQNRLSDESKADKLDfEYKRLKEKVDGLQKEKDLRLRTERDSL
KETIEELRCVQAQEGQLTTQGLMPLGSQSSDSLAAEIVTPEIREKLIRLQHENKMLKLNQEDSDNEKIA
LLQSLDDANLRKNELETENRLVNQRLLEVQSQVEELQKSLQDQGSKAEDAI SVLLKKKLEEHLEKLHEA
NNELQKKRAIIELEPRFNSSRLIEELQEALRKKEEEMKQMEERYKKYLEKAKSVIRTLDPKQNGAAP
EIQALKNQLQERDRLFHSLEKEYEKTQSQRDMEEKYIVSAWYNMGMTLHKKAAEDRLASTGSGQSFLARQ
RQATSTRRSYPGHVQPATAR

TRTRPLEQKLI SEEDLAANDIDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_207659

ORF Size:

2160 bp

OTI Disclaimer:

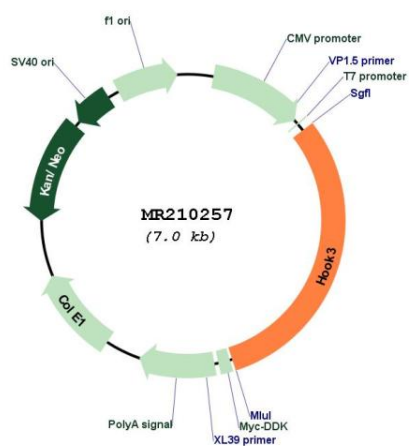
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<u>NM_207659.1</u> , <u>NM_207659.2</u> , <u>NM_207659.3</u> , <u>NP_997542.1</u>
RefSeq Size:	12836 bp
RefSeq ORF:	2157 bp
Locus ID:	320191
UniProt ID:	<u>Q8BUK6</u>
Cytogenetics:	8 A2
MW:	83.5 kDa
Gene Summary:	Component of the FTS/Hook/FHIP complex (FHF complex). The FHF complex may function to promote vesicle trafficking and/or fusion via the homotypic vesicular protein sorting complex (the HOPS complex). May regulate clearance of endocytosed receptors such as MSRI. Participates in defining the architecture and localization of the Golgi complex (By similarity). Serves as a target for the spiC protein from Salmonella typhimurium, which inactivates it, leading to a strong alteration in cellular trafficking (PubMed:12950921). Acts as an adapter protein linking the dynein motor complex to various cargos and converts dynein from a non-processive to a highly processive motor in the presence of dynactin. Facilitates the interaction between dynein and dynactin and activates dynein processivity (the ability to move along a microtubule for a long distance without falling off the track) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210257