

Product datasheet for **MR210233**

Hook2 (NM_133255) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Hook2
Synonyms:	A630054I03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence: >MR210233 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGTGTGGACAAGGCCGAGCTATGCGGGTCTCTGCTCACCTGGTTCAGACGTTCCAAGTTTCACCCC
 CCTGTGCCAGTCCCCAGGACCTGAGCAGCGGACTCGCCATAGCCCATGTGCTGAATCAAATAGACCTTC
 CTGGTTCAACGACGAATGGCTCCAGGGCATCTCAGAGGACTCAAGCCCCAGCTGGAGGTTGAAGGTCAGG
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 GGAAGAGCACGCTCTGCCCAGTCCCTTCTTGGCACAGCAAGAGCTGGCCACCAATGCTCGCCGT
 GGACCCCTGGGACGCCAGGCTCTGAGCCTCCGCCCCACTGACAAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>MR210233 protein sequence
 Red=Cloning site Green=Tags(s)

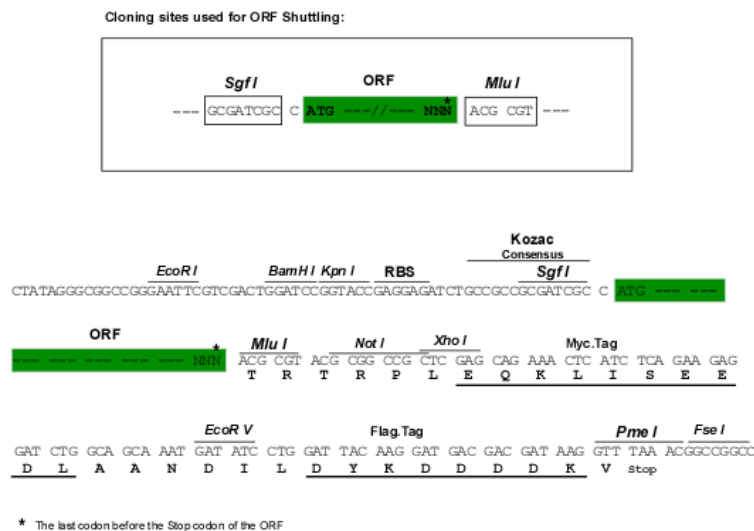
MSVDKAEKCGSLLTWLQTFQVSPPCASPQDLSSGLAIAHVLNQIDPSWFNDEWLQGISDSSPSWRKQV
 KLEKILQSLVEYSKNVLGHPVSDQHLDPVSLIGEFSPNAELGKLLQLVLGCAISCEKKQEYIQRIMTLEE
 SVQHVMEAIQELMTKDAPDSLSPENYGNFDTQSRYYFLSEEVEEGDHLQHYLDLERQLLLSEEKQN
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 QALTSLSQEAQALKDEMDLRQSSERARQLETTLNSCRRLGELQELRRQVRQLEERNAGHAERTQLEE
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 LRCAQLQPRGLAQADLSLDPTPSGLENLAAEILPAELRETLVRLQLENKRLCQQAADRERQELQRHLE
 EANRARRHGLEAQQRLNQQLSELRAQVEELQKALQEQGGKTEDPTLLKRKLEDHLQKLHEADLELQKRE
 YIEELEPPTDSSARRIEELQDSLQKKDADLRAMEERYRRYVDKARTVIQTLEPKQRPPTVVSPEFHTLR
 SQLWERNLRIRQMEMDYKSRRRQEKEKLLISAWYSMGMALEHRAGEEHAPAHQAQSFLLAQRLATNARR
 GPLGRQALSLRPTDKH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_133255

ORF Size:

2148 bp

OTI Disclaimer:

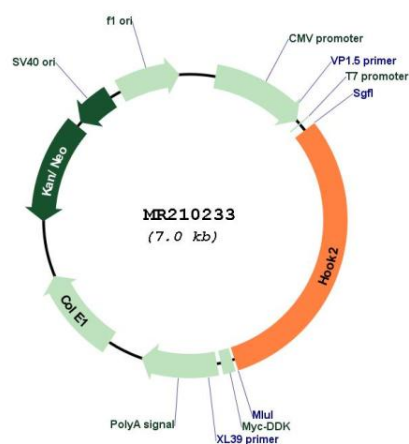
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_133255.2</u> , <u>NP_573518.2</u>
RefSeq Size:	2617 bp
RefSeq ORF:	2151 bp
Locus ID:	170833
UniProt ID:	<u>Q7TMK6</u>
Cytogenetics:	8 C3
MW:	83.4 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). Contributes to the establishment and maintenance of centrosome function. May function in the positioning or formation of aggresomes, which are pericentriolar accumulations of misfolded proteins, proteasomes and chaperones.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210233