

Product datasheet for **MG210233**

Hook2 (NM_133255) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hook2 (NM_133255) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hook2
Synonyms:	A630054I03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG210233 representing NM_133255
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGTGGACAAGGCCGAGCTATGCGGGTCTCTGCTCACCTGGTTGCAGACGTTCCAAGTTTCACCCC
 CCTGTGCCAGTCCCAGGACCTGAGCAGCGGACTCGCCATAGCCCATGTGCTGAATCAAATAGACCCTTC
 CTGGTTCAACGACGAATGGCTCCAGGGCATCTCAGAGGACTCAAGCCCCAGCTGGAGGTTGAAGGTCAGG
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 GGAAGAGCACGCTCCTGCCATGCCAGTCCTTGGCACAGCAAAGACTGGCCACCAATGCTCGCCGT
 GGACCCCTGGGACGCCAGGCTCTGAGCCTCCGCCCACTGACAAGCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210233 representing NM_133255
 Red=Cloning site Green=Tags(s)

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MSVDKAEKCGSLLTWLQTFQVSPPCASPDQLSSGLAIAHVLNQIDPSWFNDEWLQGISDSSPSWRLKVR
KLEKILQSLVEYSKNVLGHPVSDQHLDPVSLIGFNSNPAELGKLLQLVLGCAISCEKKQEYIQRIMTLEE
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YIEELEPPTDSSARRIEELQDSLQKKDADLRAMEERYRYYVDKARTVIQTLEPKQRPTVVSPEFHTLR
SQLWERNLRIRQMEMDYEKSRRRQEKEKLLISAWYSMGMALEHRAGEEHAPAHAAQSFLAQQLATNARR
GPLGRQALSLRPTDKH
  
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TRTRPLE - GFP Tag - V

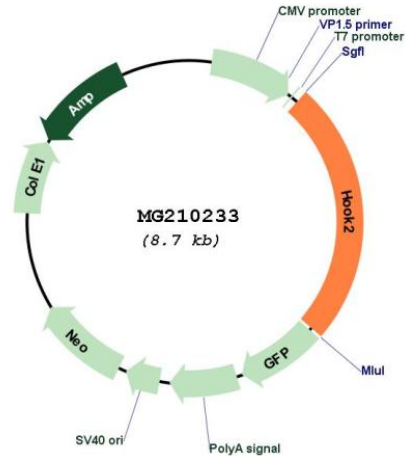
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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.

RefSeq: [NM_133255.1](#), [NP_573518.1](#)

RefSeq Size: 2617 bp

RefSeq ORF: 2151 bp

Locus ID: 170833

UniProt ID: [Q7TMK6](#)

Cytogenetics: 8 C3

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]