

Product datasheet for **MG210328**

Hook1 (NM_030014) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hook1 (NM_030014) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hook1
Synonyms:	A930033L17Rik; azh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210328 representing NM_030014
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAGGACCCGAGCCGCTGCCACAGTCCGAGCTGCCGCTGTGTGACAGCCTCATCATCTGGCTGCAGA
 CATTCAAGACTGCCTCACCTTGTCAGATGTCAAACAGCTGACTAATGGAGTGACCATGGCACAAGTTCT
 TCATCAAATTGATGTAGCTTGGTTCAAGCAATCTTGGTTAAGCCGAATTAAGATGATGTTGGAGACAAC
 TGGAGAATAAAGGCTAGTAACCTGAAGAAGTCTCCATGGAATTACAAGTTACTATCATGAGTTTTTGG
 GGCAGCAGATTTCTGAAGAACTTATCCCTGATTTAAATCAAATCACTGAGTGTGCAGATCTGTGGAGCT
 TGGGAGGTTGCTTCAGCTAATTTAGGATGTGCAGTCACTGTGAAAAGAAGCAAGAACATATTAATAAT
 ATAATGACCTGGAAGAATCTGTTCAACATGTGGTCATGACTGCAATTCAGGAGCTGATGAGTAAAGAAA
 TAGTGATCTCTCTGCAAGTGACACGGTGGGAGAATTAGAACAGCAGCTTAAAGGGCTTTAGAAGAGCT
 TCAGGAGGCCATAGCAGAAAAGGAGAGCTGAAGCAGAGGTGCCAGGAATGGATATGCAGGTGACTACA
 CTTGAGGATGAGAAGAATTCAGTGGTCTCTGAGAATGAGATGATGAATGAAAAGCTTGACCAGTTGGATG
 GCTCTTTTGATGATCAAATACAATGGTTGCAAAGAAATATTTTACGTACAGCTACAACAGAACAAAT
 ACAAGAAGAACTATAGGCTTGAAGCTGCAAAAGATGATTACCGTGTTCACTGTGAGGAATTTGAAAAG
 CAACTGATTGAATTTCAAGCAGGAATGATGAGCTGACGAGCCTTGCTGAAGAGACCAGAGCCCTAAAG
 ATGAGATAGATGTTCTTAGGGCTACGTGAGCAAAAGCAATAAAGTGGAGTCAACAGTGGAGGTATATCG
 TCAGAAGCTACAAGATTTAAATGACCTCCGCAACAGGTGAAATCTTTACAGGAGACAAATATGATGAT
 ATGCATAACACTGTGAGCTTGAAGAAGAGCTGAAGAAGGCCAACGCAGCTCGGGCACAGTTAGAGACCT
 ATAAGCGCCAGGTTCAAGACCTTCAACAAAGCTTTCTCTGAATCCAAAAGGGCAGATACACTAGCATT
 TGAATGAAGAGGCTTGAAGAAAAACATGAACTTTACTCAAGGAAAAAGAGCGATTGATAGAACAGCGT
 GACACTCTGAAGGAGACGAATGAGGAGCTGCGGTGCTCAAAGCACAGCAAGATCACTTAAACCAAGCTG
 ATGCATCTGCTACAAAAGTTATGAAAATCTTGCTGCTGAGATCATGCCCGTGAATACAGAGAGGTGTT
 CATTGACTCCAGCATGAAAACAAATGCTTCGCCTACAGCAAGAAGGACGGAGAATGAACGCATTGAG
 CAGCTGCAGGAGCAACTGGAGCAGAAGCACCGCAAGATGAATGAGCTGGAACCGAGCAAGGTTGAGCA
 AAGAGCGCATCGGAGAACTACAGCAGCAATTTAGGACCTCCAGAAGTCATTACAAGAACAGGGCTCTAA
 GTCTGAAGGTGAAAGTTCCAGCAAAATTAAGCAGAAGTTGGAAGCTCATATGGAAAACTAACAGAAGTC
 CATGAAGAATTACAGAAGAAACAGGAGCTCATTGAAGACCTTCAGCCAGATATAAGTCAGAATGCCCAA
 AGATCAGTGAACCTGAAGCGGCTCTTCAGAAGAAAGATGAAGACATGAAAGCAATGGAGGAGAGATACAA
 AATGTACTTAGAGAAAGCCAGGAATGTAATAAAAACTTTAGATCCCAAATTAATCCAGCATCAGCAGAA
 ATAATGTTACTCAGAAAGCAGCTGGCGGAGAAGGAAAGAAGATTGAGATTCTAGAGAGTGAATGTAAG
 TAGCAAAATTGAGGGATTATGAGGAAAACTCATTGTTTCTGCCTGGTATAACAAGAGCCTGGCGTTTCA
 GAAATTGGGCATGGAGTCTCGGCTGGTGAAGTGGTGCTAGTGCTTGCAAAGACAGCGTTGCGGCTGCTCCT
 GCACGTTCTTCTTAGCGCAGCAGCGGCACATCACCAACACCCGAAGAAACCTCTCTGTTAAGGTCCAG
 CTGCAGCATCTGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210328 representing NM_030014
 Red=Cloning site Green=Tags(s)

MEDPQPLPQSELPLCDSLIIWLQTFKTASPCQDVKQLTNGVTMAQVLHQIDVAFSESWLSRIKDDVGDN
 WRIKASNLKKVLHGITSYYHEFLGQQISEELIPDLNQITECADPVELGRLLQLILGAVNCEKKQEHKN
 IMTLEESVQHVMTAIQELMSKEIVISPASDTVGELEQQLKRALEELQEAI AEKEELKQRCQELDMQVTT
 LQDEKNSLVSENNEMNEKLDQLDGSFDDPNTMVAKKYFHVQLQLEQLQEENYRLEAAKDDYRVHCEELEK
 QLIEFQHRNDEL TSAEETRALKDEIDVLRATSDKANKLESTVEYRQKLQDLNDRKQVKSLEQETNMMY
 MHNTVSL EEEELKKANAARAQLETYKRQVQDLHTKL SSESKRADTLAFEMKRLEEKHETLLKEKERLIEQR
 DTLKETNEELRCSKAQQDHLNQADASATKSYENLAAEIMPVEYREVFIRLQHENKMLRLQQEGTENERIE
 QLQEQLQKHKRMNELETEQRLSKERIGELQQQIEDLQKSLQEQQSGKSEGESSSKLKQKLEAHMEKL TEV
 HEELQKKQELIEDLQPDISQNAQKISELEAALQKKDEDMKAMEERYKMYLEKARNVIKTLDPKLNPAASAE
 IMLLRKQLAEKERRIEILESECKVAKLRDYEELIVSAWYNKSLAFQKLGMSRLVSGASACKDSVAAAP
 ARSFLAQQRHITNTRRLSVKVPAAASD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030014

ORF Size: 2184 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_030014.2](#), [NP_084290.1](#)

RefSeq Size: 4252 bp

RefSeq ORF: 2187 bp

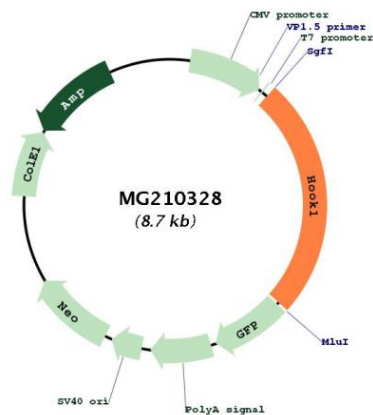
Locus ID: 77963

UniProt ID: [Q8BIL5](#)

Cytogenetics: 4 44.17 cM

Gene Summary: Required for spermatid differentiation. Probably involved in the positioning of the microtubules of the manchette and the flagellum in relation to the membrane skeleton (PubMed:12075009). 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) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210328