

Product datasheet for **MR210328**

Hook1 (NM_030014) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hook1 (NM_030014) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hook1
Synonyms:	A930033L17Rik; azh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210328 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGACCCGAGCCGCTGCCACAGTCCGAGCTGCCGCTGTGTGACAGCCTCATCATCTGGCTGCAGA
CATTCAAGACTGCCTCACCTTGTCAGATGTCAAACAGCTGACTAATGGAGTGACCATGGCACAAGTTCT
TCATCAAATTGATGTAGCTTGGTTCAAGCAATCTTGGTTAAGCCGAATTAAGATGATGTTGGAGACAAC
TGGAGAATAAAGGCTAGTAACCTGAAGAAGTCTCCATGGAATTACAAGTTACTATCATGAGTTTTTGG
GGCAGCAGATTTCTGAAGAACTTATCCCTGATTTAAATCAAATCACTGAGTGTGCAGATCTGTGGAGCT
TGGGAGGTTGCTTCACTAATCTAGGATGTGCAGTCACTGTGAAAAGAAGCAAGAACATATTAATAAT
ATAATGACCTGGAAGAATCTGTTCAACATGTGGTCATGACTGCAATTCAGGAGCTGATGAGTAAAGAAA
TAGTGATCTCTCTGCAAGTGACACGGTGGGAGAATTAGAACAGCAGCTTAAAGGGCTTTAGAAGAGCT
TCAGGAGGCCATAGCAGAAAAGGAGAGCTGAAGCAGAGGTGCCAGGAATGGATATGCAGGTGACTACA
CTTCAGGATGAGAAGAATTCAGTGGTCTCTGAGAATGAGATGATGAATGAAAAGCTTGACCAGTTGGATG
GCTCTTTTGATGATCAAATACAATGGTTGCAAAGAAATATTTTACGTACAGCTACAACAGAACAAAT
ACAAGAAGAAACTATAGGCTTGAAGCTGCAAAAGATGATTACCGTGTTCACTGTGAGGAACCTGAAAAG
CAACTGATTGAATTTCAACACAGGAATGATGAGCTGACGAGCCTTGCTGAAGAGACCAGAGCCCTAAAG
ATGAGATAGATGTTCTTAGGGCTACGTGAGCAAAAGCAATAAAGTGGAGTCAACAGTGGAGGTATATCG
TCAGAAGCTACAAGATTTAAATGACCTCCGCAACAGGTGAAATCTTTACAGGAGACAAATATGATGTAT
ATGCATAACACTGTGAGCTTGAAGAAGAGCTGAAGAAGGCCAACGCAGCTCGGGCACAGTTAGAGACCT
ATAAGCGCCAGGTTCAAGACCTTCAACAAAGCTTTCTCTGAATCCAAAAGGGCAGATACACTAGCATT
TGAAATGAAGAGGCTTGAAGAAAAACATGAACTTTACTCAAGGAAAAAGAGCGATTGATAGAACAGCGT
GACACTCTGAAGGAGACGAATGAGGAGCTGCGGTGCTCAAAGCACAGCAAGATCACTTAAACCAAGCTG
ATGCATCTGCTACAAAAGTTATGAAAATCTTGCTGCTGAGATCATGCCCGTGAATACAGAGAGGTGTT
CATTGACTCCAGCATGAAAACAAATGCTTCGCCTACAGCAAGAAGGGACGGAGAATGAACGCATTGAG
CAGCTGCAGGAGCAACTGGAGCAGAAGCACCGCAAGATGAATGAGCTGGAACCGAGCAAGGTTGAGCA
AAGAGCGCATCGGAGAACTACAGCAGCAAATTGAGGACCTCCAGAAGTCATTACAAGAACAGGGCTCTAA
GTCTGAAGGTGAAAGTTCCAGCAAATTAAGCAGAAGTTGGAAGCTCATATGGAAAACTAACAGAAGTC
CATGAAGAATTACAGAAGAAACAGGAGCTCATTGAAGACCTTCAGCCAGATATAAGTCAGAATGCCCAA
AGATCAGTGAACCTGAAGCGGCTCTTCAGAAGAAAGATGAAGACATGAAAGCAATGGAGGAGAGATACAA
AATGTACTTAGAGAAAGCCAGGAATGTAATAAAAACTTTAGATCCCAAATTAATCCAGCATCAGCAGAA
ATAATGTTACTCAGAAAGCAGCTGGCGGAGAAGGAAAGAAGATTGAGATTCTAGAGAGTGAATGTAAG
TAGCAAAATTGAGGGATTATGAGGAAAACTCATTGTTTCTGCCTGGTATAACAAGAGCCTGGCGTTTCA
GAAATTGGGCATGGAGTCTCGGCTGGTGAAGTGGTGTAGTGCTTGCAAAGACAGCGTTGCGGCTGCTCCT
GCACGTTCTTCTTAGCGCAGCAGCGGCACATCACCAACACCCGAAGAAACCTCTCTGTTAAGGTCCAG
CTGCAGCATCTGAC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210328 protein sequence
 Red=Cloning site Green=Tags(s)

MEDPQPLPQSELPLCDSLIIWLQTFKTASPCQDVKQLTNGVTMAQVLHQIDVAFSESWLSRIKDDVGDN
 WRIKASNLKKVLHGITSYYHEFLGQQISEELIPDLNQITECADPVELGRLLQLILGCAVNCCKQEHKIN
 IMTLEESVQHVMATAIQELMSKEIVISPASDTVGELEQQLKRALEELQEAIAEKEELKQRCQELDMQVTT
 LQDEKNSLVSENNEMNEKLDQLDGSFDDPNTMVAKKYFHVQLQLEQLQEENYRLEAAKDDYRVHCEELEK
 QLIEFQHRNDELTLAEETRALKDEIDVLRATSDKANKLESTVEYRQKLQDLNDRKQVKSLEQETNMMY
 MHNTVSLSEELKKANAARAQLETYKRQVQDLHTKLSSSKRADTLAFEMKRLEEKHETLLKEKERLIEQR
 DTLKETNEELRCSKAQQDHLNQADASATKSYENLAAEIMPVEYREVFIRLQHENKMLRLQQEGTENERIE
 QLQEQLQKHKRMNELETEQRLSKERIGELQQQIEDLQKSLQEQQSGKSEGESSSKLKQKLEAHMEKLTEV
 HEELQKKQELIEDLQPDISQNAQKISELEAALQKKDEDMKAMEERYKMYLEKARNVIKTLDPKLNPAEAE
 IMLLRKQLAEKERRIEILESECKVAKLRDYEELIVSAWYNKSLAFQKLGMSRLVSGASACKDSVAAAP
 ARSFLAQQRHITNRRNLSVKVPAASD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-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

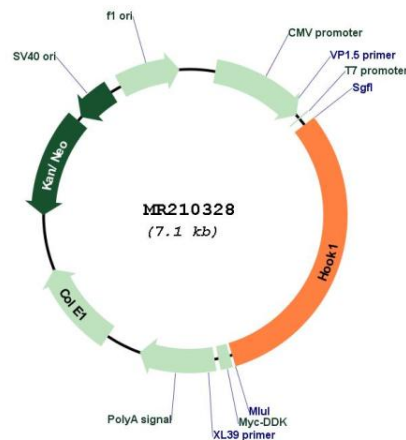
UniProt ID: [Q8BIL5](#)

Cytogenetics: 4 44.17 cM

MW: 84.4 kDa

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 MR210328