

Product datasheet for MR218209

Fhdc1 (NM_001033301) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fhdc1 (NM_001033301) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fhdc1
Synonyms: 6330505N24Rik; Gm126
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR218209 representing NM_001033301
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCATGTTATGAATTGTGTCTCCCTGGCCAGCGATAAAGAAAATGGGACTCTTGCCACAGCAGCTGCAT
 TCATGACTGGGCAGACGTCACCCCTCGCATCTCCTCCACCTCCTCCTCCACCGCCTCCACCTCCACCTTG
 TCCACATTCAGGGGAGGGCTTTTCCCCCTCCCCTCCTCCTCCTGCCACCTCCACTTCTGGGGGACCT
 CCCATACCCCTCCTCCTCCTCCAGGACTCCCCTCAGTTTCTTACCTGAATGGCTACAGCTCCCTGGGTA
 AGAAGAAAACGAATGCGGAGCTTTTTCTGAAAACCAATCCAGAGGAGCAAGTTTCGAGGCAAGACCAACAT
 CTGGACCTTAGCAGCTAAGCAGCAGCATCAGTACCAGATCGACAAGAAGACCATTGAGGAGCTTTTGGG
 CAGCAAGAAGACACCTCCAAGGCTTCTTCCCAAGAGAGGAGGAGCTTTGAATTCATCCTTCAGAGATG
 CCCGGGAAGAGGTTACCGTCTTGGATGCAAAGCGAAGTGAACATTGGCATATTTCTTAAGCAGTTTAA
 AAAGTCTCCTCAGTCCATCGTAGAGGATATCTATCAAGGAAAGAGCGAGCATTACGGATCAGAGACGCTT
 CGAGAAATCCTTAAGCTTTTGGCGGAGTCAGAAGAGGTAAGAAATTAAGGCATTTAATGGCGATGTAT
 CCAAGCTCTCGCTGGCAGATTCTTTCTGCACTGCTTGATTGAGGTGCCAAACTATTCACCTCGGATTGA
 AGCCATGGTGCTAAAAAGGAGTTTTTGCATCTTGTTCTCTGTTCAAAGACATAAGGACTCTGAGA
 GCAGCTACAAAAGAGCTGATGTTATGTGAGGAGCTACATTCATTAACACTTGGTGCTCCAGGCTGGGA
 ATATCATGAATGCGGAGGGTATGCCGGCAATGCCGTAGGATTTAAACTGTCTTCTACTCAAATTTGGC
 GGACACGAAGGCAAAACAACTGGAATGAATCTTCTGCATTTTGTAGCTCAGGAAGCCCAGAAGCAAGAT
 GCCATCCTTCTAACTTCTCTGAGAAGTTGCGACGCTGCAAGAGACATCGAGATTATCTCTGGATATCA
 CCGAGGCAGAGCTGCACTCTCTTTGTGAGAACGAAATCGCTGCAGGAAAACATCCAGCTTGACCAGGA
 GCTGTGCCAGCAGATGGAAGACTTCTCCAGTTTGTGTGGAGAAGTTGGCGGAGCTGGAACCTCTGGAAA
 CGGGAGCTGCAGGTTAAGCTCACACCCTTATAGACTTTTTCTGCGAAGACAAAGAAACCATGAACTGG
 ATGAATGCTTCCAGATATTCAGAGACTTCTGTACCAGATTCACAAAGCAGTTAAGGACAATCATGACCG
 GGAGGAACAGGAGCGGAAGCAGCTACAGAGGCAGAAGGAGATGGAACAGAAGCGGTATTCCTGGTCAACT



GGGAACTCGGGAGCTTTGGCAGGAGCAGCAGTGAGAATGATGTGCAGATGCTAGCTAAGACAGGCACAG
AAGACCTGCCCTCCTTCCTGAAGCCAGGCCAACAGCCCTCCTACCGCCCCCAACACACGTCGCTC
CCGCTCTCCCTGGGATCTCTGCGGACCGGGAGCTTTTGACCTTCTGGAGAGTGCCACCAGCAGTCCA
GAGGACCCCAACAAATCAACAGTTTGGCCCGGAGCAGTCCCCGACAAGCTCGGCCACCATCGCCTGGA
TGGAAACCAGAGAACAACAGAGCCATGGCCCTAACTTTACACATGAACCTCAGGCCTCAAAGATCCAGGA
GAAAGCCCCTCCCCTGCTTGGCAAAATCAGCTCCGACAACCTGGCGGGAGGAGCCTGCTTCCCCTC
CCACTGGCTGGGCGGAGCAGGCCGAGCCTCCGAAAAAGGAACAGTGAACCTGTGGCTTGGGTCCCACAC
AAAGCCCTCCACTCTTACCATTGGATCTGGGTGTTAGGGAGCATGAGTTGGTCACAGGGCTGACCCAGTT
TGACCTCCAGAGTCCCAAGAGCCTGGAGGAAGGATCCCAACTGACTCTGAATGACTTCTGTCCCACAAAG
CTGCCATCTCCAGGGGATAGGAGCTCACAGCCCTTTGCTGCTGGCGGTGACAGTCTCCCACCAAGGACA
CAGACACCCAGGAGGTTCTCAGCCAGCTGGGAGGATGACAGGACCATCTCTGATGAACCCAGCAGTGA
GGCTCTCGTGTCTGTGGTTGTCACCGACTGAAGATAAGGATGCTGGACCTCTGTTATATGTCTCAGAT
ACCACAGACTGCTCACTGACTCTGGACTGCTCCGAGGGAATGGACTCCAGAGCCGGGGAGACAAGCAAG
AGGAAGAGAAGGAAGGGGATGGCTCAGTGTCTCTGGGGCTGGAGAGGCAGGAAGCAGCCAGGTTTCCCTC
CAACTCTGTTTCCAGCCCCCTGGGAGGTTTCTGCTCCAAAATCCAGTAAAGTGAGCTGAGCTGCCAA
GGTGGCCTTCCGAAGACAGACCCAGCAGAGGGAAGGATGCTATAGCACCAAAGGAAATTCCTTCAAAG
AGGCTTCAAGTAGGGGCTTCAAAGCCTGTGAGTGCACGGCGCAGCCAAGGGGTAACAACCAAGCCTGTGCG
AACCTTGAACCTCCGAGAACGAACATATGCGCAAAGTGGTCCCTATCTCCAAGTCCAGCAGGGGAGCC
GGGCCCTGGAAGCGGCCGGAACCGACACCCAAGGCTACCCCTCGGGAGACACCCAGCAGCACAGACACAC
CACTATCACGAAGGAGCTCAGTGAGAGGAATTCGGACTTTCGCCCAGGAGGCCCCAGGTGAGTGGATC
TGGGGCAGAGGAGCCAGGCTGCCCCGCTCGAGTGGCAGCATCAGTGGACGGCCAGGAAGGACGCCCCG
CTGCAGCCAGAGCCTCGTTCAGGAAGCCTAGCGCCAAGCCCCCAGAAACATCCCAGGCAGAAACCTG
AAGAAAACAAGTCAAGCAGCCCCAACTCTCTGACCCCGAGAGTCCCAAGGAAGAGCCCAAGGCTCCTCA
GGCTACGGGTGTCTCTCGAGCCCTTCCCCCATCCCAAGTTTTGCTCGAAATACGGTGGCTCGTCACTCT
CGGAGCCTGCGAACGGATGCTCCACCCGCGCCAGAACCCTGGCCTCACCAGGACAGTCTCCAGCGGC
AGCTTAGGGTCAAAGGTGGCTCCGAGGATTCTGCCTCCAAGGACATTGGCACTTTGAAGAGGGCCAGCAG
TGCTCGGGCCTCCAAGAAGTGTCTGAATCTGCTGGGGTTCAAGTGCCAATGTAGAAACCTCACTGAAG
GGCAGAGGGACGACGGAAGATCCTCTCTCAGACTGAAGGACTCGGGCAGGCCACCCCTCGGGAGGATCC
TCCGTCCCCTGCAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218209 representing NM_001033301
Red=Cloning site Green=Tags(s)

```
MHVMNCVSLASDKENGLATAAAFMTGQTPSPASPPPPPPPPPPPCPHSGEGFSPSPPPPLPPPLPGGP
PIPPPPPPGLPSVSYLNGYSSLGKKRMRSF FWKTIPEEQVRGKTNIWTLAAKQQHQYQIDKKTIEELFG
QQEDTSKASLPKRGALNSSFRDAREEVTVLDAKRSMNIGIFLKQFKKSPQSIVEDIYQKSEHYGSETL
REILKLLPESEEVKLKA FN GDVSKLSLADSFHLCLIQVFNYSRLIEAMVLKKEFLPSCSSLFKDIRTLR
AATKMLCEELHSILHLVLQAGNIMNAGGYAGNAVGFKLSSLK LADTKANKPGMNLHFVAQEAQKQD
AILLNFSEKLQHVQETSRLSLDI TEAELHSLFVRTKSLQENIQLDQELCQQMEDFLQFAVEKLAELWLK
RELQGEAHTLIDFFCEDKEMKLD ECFQIFRDFCTRFNKAVKDNHDREEQERKQLQRQKEMEQRYSWST
GELGSFGRSSSENDVQMLAKTGTEDLP SFLKPRPNSPSYRPPNTRRSLSLGISADRELLTFLESATSSP
EDPNKFNSLPRSSPRQARPTIAWMEPREQQSHGPNFTHEPQASKIQEKAPPPAWQNQLPTTWREEPASPL
PLAGRSRPSLRKRNSEPVGLGPTQSP LLLPLDLGVREHELVTGLTQFDLQSPKSLEEGSQLTLNDFCPTK
LPSPGDRSSQPF AAGDSLPPKDTDTQEVLS PAGEDDRTISDEPSSEALVSVVVTDTEKDAGLLVYSD
TTDCSLTLDCEGMDSRAGGDKQEE EKEGDGVS VSGAGEAGSSQVSSNSVSSPGEVPAPKSSKSELSCQ
GGLPKDRPSRGKDAIAPKRNSFKEASV GASKPVSARRSQVTTKPVRTLNSSENEHMRKVVPISKSRGA
GPWKRPEPTPKATPRETPSSTDTPL SRRSSVRGTS DTSPPRPQVSGSGAE EPRLPRSSGSI SGRP GKDAP
LQPRASFRKPSAKPLRNIPRQKPEENK VSSPNPDPE SPKEEPKAPQATGVSRALPPIPSFARNTVASSS
RSLRTDAPPAARTTGLTRTVSQRQLRVK GGS EDSASKDIGTLKRASSARASKKCPESAGGSSANVETSLK
GRGTTERRSLRLKDSGQATLGRILRPLQK
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9103_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

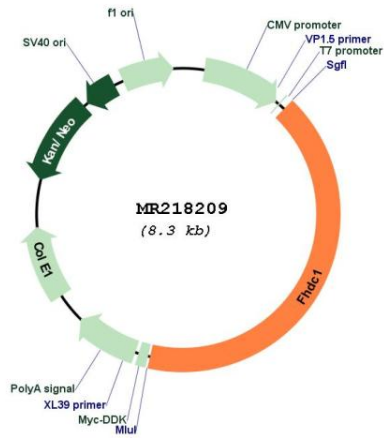


ACCN: NM_001033301

ORF Size: 3447 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: | <ol style="list-style-type: none"> 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_001033301.4 , NP_001028473.2 |
| RefSeq Size: | 5930 bp |
| RefSeq ORF: | 3450 bp |
| Locus ID: | 229474 |
| UniProt ID: | Q3ULZ2 |
| Cytogenetics: | 3 F1 |
| MW: | 125.4 kDa |
| Gene Summary: | Microtubule-associated formin which regulates both actin and microtubule dynamics. Induces microtubule acetylation and stabilization and actin stress fiber formation (PubMed:18815276). Regulates Golgi ribbon formation (PubMed:26564798). Required for normal cilia assembly. Early in cilia assembly, may assist in the maturation and positioning of the centrosome/basal body, and once cilia assembly has initiated, may also promote cilia elongation by inhibiting disassembly (PubMed:29742020).[UniProtKB/Swiss-Prot Function] |

Product images:



Circular map for MR218209