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Product datasheet for MC229415

Fhdc1 (NM_001205355) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fhdc1 (NM_001205355) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fhdc1
Synonyms:	6330505N24Rik; Gm126
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229415 representing NM_001205355 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCATGTTATGAATTGTGTCTCCCTGGCCAGCGATAAAGAAAATGGGACTCTTGCCACAGCAGCTGCAT TCATGACTGGGCAGACGTCACCCTCTGCATCTCCTCCACCTCCTCCTCCACCGCCTCCACCTCCACCTTG TCCACATTCAGGGGAGGGCTTTTCCCCCTCCCCTCCTCCTCCTCTGCCACCTCCACTTCCTGGGGGACCT CCCATACCCCCTCCTCCTCCTCCAGGACTCCCCTCAGTTTCTTACCTGAATGGCTACAGCTCCCTGGGTA AGAAGAAACGAATGCGGAGCTTTTTCTGGAAAACCATTCCAGAGGAGCAAGTTCGAGGCAAGACCAACAT CTGGACCTTAGCAGCTAAGCAGCAGCATCAGTACCAGATCGACAAGAAGACCATTGAGGAGCTTTTTGGG CAGCAAGAAGACACCTCCAAGGCTTCTCTTCCCAAGAGAGGAGGAGCTTTGAATTCATCCTTCAGAGATG CCCGGGAAGAGGTTACCGTCTTGGATGCAAAGCGAAGTATGAACATTGGCATATTTCTTAAGCAGTTTAA AAAGTCTCCTCAGTCCATCGTAGAGGATATCTATCAAGGAAAGAGCGAGCATTACGGATCAGAGACGCTT CGAGAAATCCTTAAGCTTTTGCCGGAGTCAGAAGAGGTAAAGAAATTAAAGGCATTTAATGGCGATGTAT CCAAGCTCTCGCTGGCAGATTCCTTTCTGCACTGCTTGATTCAGGTGCCAAACTATTCACTTCGGATTGA AGCCATGGTGCTAAAAAAGGAGTTTTTGCCATCTTGTTCCTCTCTGTTCAAAGACATAAGGACTCTGAGA GCAGCTACAAAAGAGCTGATGTTATGTGAGGAGCTACATTCAATATTACACTTGGTGCTCCAGGCTGGGA ATATCATGAATGCCGGAGGGTATGCCGGCAATGCCGTAGGATTTAAACTGTCTTCTCTACTCAAATTGGC GGACACGAAGGCAAACAAACCTGGAATGAATCTTCTGCATTTTGTAGCTCAGGAAGCCCAGAAGCAAGAT GCCATCCTTCTAAACTTCTCTGAGAAGTTGCAGCACGTGCAAGAGACATCGAGATTATCTCTGGATATCA CCGAGGCAGAGCTGCACTCTCTCTTTGTCAGAACGAAATCGCTGCAGGAAAACATCCAGCTTGACCAGGA GCTGTGCCAGCAGATGGAAGACTTCCTCCAGTTTGCTGTGGAGAAGTTGGCGGAGCTGGAACTCTGGAAA CGGGAGCTGCAGGGTGAAGCTCACACCCTTATAGACTTTTTCTGCGAAGACAAAGAAACCATGAAACTGG ATGAATGCTTCCAGATATTCAGAGACTTCTGTACCAGATTCAACAAAGCAGTTAAGGACAATCATGACCG GGAGGAACAGGAGCGGAAGCAGCTACAGAGGCAGAAGGAGATGGAACAGAAGCGGTATTCCTGGTCAACT GGGGAACTCGGGAGCTTTGGCAGGAGCAGCAGTGAGAATGATGTGCAGATGCTAGCTAAGACAGGCACAG

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AAGACCTGCCCTCCTTCCTGAAGCCCAGGCCCAACAGCCCCTCCTACCGGCCCCCCAACACACGTCGCTC
CCGCCTCTCCCTGGGCATCTCTGCGGACCGGGAGCTTTTGACCTTCCTGGAGAGTGCCACCAGCAGTCCA
GAGGACCCCAACAAATTCAACAGTTTGCCCCGGAGCAGTCCCCGACAAGCTCGGCCCACCATCGCCTGGA
TGGAACCCAGAGAACAACAGAGCCATGGCCCTAACTTTACACATGAACCTCAGGCCTCAAAGATCCAGGA
GAAAGCCCCTCCCCCTGCTTGGCAAAATCAGCTTCCGACAACCTGGCGGGAGGAGCCTGCTTCTCCCCTC
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CAACTCTGTTTCCAGCCCCCCTGGGGAGGTTCCTGCTCCAAAATCCAGTAAGAGTGAGCTGAGCTGCCAA
GGTGGCCTTCCGAAGGACAGACCCAGCAGAGGGAAGGATGCTATAGCACCAAAGAGAAATTCCTTCAAAG
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AACCTTGAACTCCTCCGAGAACGAACATATGCGCAAAGTGGTCCCTATCTCCAAGTCCAGCAGGGGAGCC
GGGCCCTGGAAGCGGCCGGAACCGACACCCAAGGCTACCCCTCGGGAGACACCCAGCAGCACAGACACAC
CACTATCACGAAGGAGCTCAGTGAGAGGAACTTCGGACACTTCGCCCAGGAGGCCCCAGGTGAGTGGATC
TGGGGCAGAGGAGCCCAGGCTGCCCCGCTCGAGTGGCAGCATCAGTGGACGGCCAGGGAAGGACGCCCCG
CTGCAGCCCAGAGCCTCGTTCAGGAAGCCTAGCGCCAAGCCCCTCAGAAACATCCCCAGGCAGAAACCTG
AAGAAAACAAGGTCAGCAGCCCCAACTCTCCTGACCCCGAGAGTCCCAAGGAAGAGCCCAAGGCTCCTCA
GGCTACGGGTGTCTCTCGAGCCCTTCCCCCCATCCCAAGTTTTGCTCGAAATACGGTGGCCTCGTCATCT
CGGAGCCTGCGAACGGATGCTCCACCCGCGGCCAGAACCACTGGCCTCACCAGGACAGTCTCCCAGCGGC
AGCTTAGGGTCAAAGGTGGCTCCGAGGATTCTGCCTCCAAGGACATTGGCACTTTGAAGAGGGCCAGCAG
TGCTCGGGCCTCCAAGAAGTGTCCTGAATCTGCTGGGGGTTCAAGTGCCAATGTAGAAACCTCACTGAAG
GGCAGAGGGACGACGGAAAGATCCTCTCTCAGACTGAAGGACTCGGGGCAGGCCACCCTCGGGAGGATCC
TCCGTCCCCTGCAGAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001205355

Insert Size: 3450 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001205355.1, NP_001192284.1
RefSeq Size:	6001 bp
RefSeq ORF:	3450 bp
Locus ID:	229474
UniProt ID:	Q3ULZ2
Cytogenetics:	3 F1
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] Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.