

Product datasheet for MC223750

Fhdc1 (NM_001033301) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fhdc1 (NM_001033301) 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:	>MC223750 representing NM_001033301 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCATGTTATGAATTGTGTCTCCCTGGCCAGCGATAAAGAAAATGGGACTCTTGCCACAGCAGCTGCAT
TCATGACTGGGCAGACGTCACCCTCTGCATCTCCTCCACCTCCTCCTCCACCGCCTCCACCTCCACCTTG
TCCACATTCAGGGGAGGGCTTTTCCCCCTCCCCTCCTCCTCCTCCTGCCACCTCCACTTCTGGGGGACCT
CCCATACCCCCTCCTCCTCCTCCAGGACTCCCCTCAGTTTCTTACCTGAATGGCTACAGCTCCCTGGGTA
AGAAGAAACGAATGCGGAGCTTTTTCTGAAAACCAATTCAGAGGAGCAAGTTTCGAGGCAAGACCAACAT
CTGGACCTTAGCAGCTAAGCAGCAGCATCAGTACCAGATCGACAAGAAGACCATTGAGGAGCTTTTTGGG
CAGCAAGAAGACACCTCAAGGCTTCTCTTCCCAAGAGAGGAGGAGCTTTGAATTCATCCTTCAGAGATG
CCCGGGAAGAGGTTACCGTCTTGGATGCAAAGCGAAGTATGAACATTGGCATATTTCTTAAGCAGTTTAA
AAAGTCTCCTCAGTCCATCGTAGAGGATATCTATCAAGGAAAGAGCGAGCATTACGGATCAGAGACGCTT
CGAGAAATCCTTAAGCTTTTGGCGAGTCAGAAGGTAAGAAATTAAGGCATTTAATGGCGATGTAT
CCAAGCTCTCGTGGCAGATTCCTTTGCACTGCTTGATTGAGTGCCTTCACTTCCGAACTTTCGATTGA
AGCCATGGTGCTAAAAAAGGAGTTTTTGGCATCTTGTTCCTCCTGTTCAAAGACATAAGGACTCTGAGA
GCAGCTACAAAAGAGCTGATGTTATGTGAGGAGCTACATTCAATATTACACTTGGTGCTCCAGGCTGGGA
ATATCATGAATGCCGGAGGGTATGCCGGCAATGCCGTAGGATTTAAACTGTCTTCTACTCAAATTTGGC
GGACACGAAGGCAAAACCAACCTGGAATGAATCTTCTGCATTTTGTAGCTCAGGAAGCCCAGAAGCAAGAT
GCCATCCTTCTAAACTTCTCTGAGAAGTTGCAGCAGTGCAGAGACATCGAGATTATCTCTGGATATCA
CCGAGGCAGAGCTGCACTCTCTTTGTCAGAACGAAATCGTGCAGGAAAACATCCAGCTTGACCAGGA
GCTGTGCCAGCAGATGGAAGACTTCTCCAGTTTGTGTGGAGAAGTTGGCGGAGCTGGAACCTTGAAA
CGGGAGCTGCAGGTTGAAGCTCACACCCTATAGACTTTTTCTGCGAAGACAAAGAAACCATGAACTGG
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GGAGGAACAGGAGCGGAAGCAGCTACAGAGGCAGAAGGAGATGGAACAGAAGCGGTATTCCTGGTCAACT
GGGAACTCGGGAGCTTTGGCAGGAGCAGCAGTGAAGATGATGTGCAGATGCTAGCTAAGACAGGCACAG



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AAGACCTGCCCTCCTTCCTGAAGCCAGGCCAACAGCCCTCCTACCGCCCCCAACACACGTCGCTC
CCGCCTCTCCCTGGGCATCTCTGCGGACCGGGAGCTTTTGACCTTCTGGAGAGTGCCACCAGCAGTCCA
GAGGACCCCAACAAATCAACAGTTTGGCCCGGAGCAGTCCCCGACAAGCTCGGCCACCATCGCCTGGA
TGGAACCCAGAGAACAACAGAGCCATGGCCCTAACTTTACACATGAACCTCAGGCCTCAAAGATCCAGGA
GAAAGCCCCTCCCCTGCTTGGCAAAATCAGCTCCGACAACCTGGCGGGAGGAGCCTGCTTCTCCCCTC
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CTGCCATCTCCAGGGGATAGGAGCTCACAGCCCTTTGCTGCTGGCGGTGACAGTCTCCACCCAAAGGACA
CAGACACCCAGGAGGTTCTCAGCCAGCTGGGAGGATGACAGGACCATCTCTGATGAACCCAGCAGTGA
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AGGCTTACAGTAGGGGCTTCAAAGCCTGTGAGTGCACGGCCAGCCAAGGGTAACAACCAAGCCTGTGCG
AACCTTGAACCTCCGAGAACGAACATATGCGCAAAGTGGTCCCTATCTCCAAGTCCAGCAGGGGAGCC
GGGCCCTGGAAGCGGCCGGAACCGACACCAAGGCTACCCCTCGGGAGACACCCAGCAGCACAGACACAC
CACTATACGAAGGAGCTCAGTGAGAGGAATTCGGACTTTCGCCAGGAGGCCCCAGGTGAGTGGATC
TGGGGCAGAGGAGCCAGGCTGCCCCGCTCGAGTGGCAGCATCAGTGGACGGCCAGGGAAGGACGCCCCG
CTGCAGCCAGAGCCTCGTTCAGGAAGCCTAGCGCCAAGCCCCTCAGAAACATCCCAGGCAGAAACCTG
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GGCTACGGGTGTCTCTCGAGCCCTTCCCCCATCCCAAGTTTTGCTCGAAATACGGTGGCCTCGTCATCT
CGGAGCCTGCGAACGGATGCTCCACCCGGGCCAGAACCACTGGCCTCACCAGGACAGTCTCCCAGCGGC
AGCTTAGGGTCAAAGGTGGCTCCGAGGATTCTGCCTCCAAGGACATTGGCACTTTGAAGAGGGCCAGCAG
TGCTCGGGCCTCCAAGAAGTGTCTGAATCTGCTGGGGTTCAAGTGCCAATGTAGAAACCTCACTGAAG
GGCAGAGGGACGACGAAAGATCCTCTCTCAGACTGAAGGACTCGGGCAGGCCACCCTCGGAGGATCC
TCCGTCCTGCAGAA TGA

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ACGGCTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:

Sgfl-MluI

ACCN:

NM_001033301

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).

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:	<u>NM_001033301.4, NP_001028473.2</u>
RefSeq Size:	5930 bp
RefSeq ORF:	3450 bp
Locus ID:	229474
UniProt ID:	<u>Q3ULZ2</u>
Cytogenetics:	3 F1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. 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.</p>