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Product datasheet for SC103599

FHDC1 (AK098403) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FHDC1 (AK098403) Human Untagged Clone
Tag:	Tag Free
Symbol:	FHDC1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AK098403, the custom clone sequence may differ by one or more nucleotides

GAATTGTGCCACCTGGGCTGCCCGATGCCCCAGGGATTCCCCAGTGCTGGATGCCTACGGTCCGATCTCA
GGGCACAGAGCTCACAGACAATAGACGCTGCTTTGCGGGGCAGGGAGGACCAGGCGCTGTCTGCAAGGCT
GCCTGACCCCCAAGTCCACTATGTGCCCTAGACAAGGCAGGGTGCCCCCACCCCGATCCATCACCCTCCC
AGCAGTGTGGGCTGGGCAGGGCAGGGCGGGGTGGGGCGGGGCAGGCCAGCCACAACCTCCCAGTGAGGGG
CGGACATCACCACTGAGGCTGGGGATTCAAGACAGGCCTGAACCGGGCACACACCAGTTTGGTGGCTCCC
CCACCAGGCCAGGCCCACACCCAGGGACACAGCGTGGCAGAGCGTCCAGCCCAGCCCTGGCATGGGGGCA
TCCAGAGAAGGCAGGTTAGGCTCACGGCTCCCGCAGGGCTGCAGATGGACACCCATGGGCCCTGCAGAGC
AGCTGGCCATCCCCTGGGCCAGACAGTGGTTCACCTGCTGTGGGCTCAGCCACCTGTCCCCCGAGGGGTG
CCGCGCCCTCCCCCATATCCCCGGGGCCACAGCTGATGCACAAATACGACTCAAGACAAGAAGTTGAAAT
GGAACAAGATGAGCACGGATGAGAGGGATGCCTGAGCCTTTCTCTTTGGAGTCCCCACCCCCGGAGGGGA
CAGCACAGGACAGGATGGGGGATGTCAGGCACCTCCAAGGGTGACAGCACAGATGGCACGTGGACATGAA
GACGCAGCAGGGACGGGACTGTGCTCTGGCAAAGCTGTGCTTGGACTCTGGAGCCATTACCTGGAGCAGA
ATCACCTCTGGCACAGCTGGGTCCACAAGAGCCCGGGCAGCCGGGAACAACCCTGGGGACGGGCAGGCAG
ACTCCGTCCAGCTACCCGGGAAGAGGCACAGGCAGCCGGAAGCAAACCCTGGGGTGGGCAGGCAGGGTTC
CGTCCAGCTGCCCAGGAAGAGGCACAGGGCAGAGGCAGCTCCCTAAGCTTTCCTGAGGACTTTGTGTTTT
CTAAGAACTTGAAACACTACAGACTGAGTTTTTAAGAGAATAAAGTACGTGGAAGAGACTGACAGGTCTG
CGGAAGGCTCCCAGACTCCCAGATGGCGTCTAAGCATTGGCACCCTGCTGAAAGGATCTTTTGATCTACT
CTCAACGTGCTGGAGCCTCAGGGTCTGCTGGATCCCCGGCTTTTTTTCAGCTTTGATCGGTGCAGCTTTG
CCCTTCCTGGGGCCTGGGTAGGGGCTGCCTAGGGGCCCGCTGGTGAGGATTCCACCTCCATCACTGATGT
CTGCCCATGCCCTGTCTGCCTGCCAGGCTAGACCCACTCCTAAGGAAGTGCTCTGTGGCCCGAGTTCCTC
CGCAGGCCCAGGGTCCGGAGGGAGCTCTGGGGAGATTAGAAATGGGGCTGGCTGGGCATAGTGGCTCCTG
CCTAGAATCCCAGCACTCTGAGAGGCCAAAGCAGGAGGAACCACTTGAGCCCTGGAGTTCAAGACCAGCC
TGGGCAGCAAAGCGTACCCGTCTCTACAAAAAAAAAAAAAAAAAAATTAGGCAGGTGCGGGAGAGTGGTGC
ATGCCTGTGGTCCCACCTCAGCCTCCTGAGAAGCTGGGACTACAGACGCGTGCCACCATGCCTGGCTAAT
TTTTAACTTTTTTTTTTGTCAAGATGGGGGTCTCCCTAGGTTGCCCAGGCTGATCTCGAACCCCTGGGCT

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CAAGAGATCCTCTCGCCTCAGCCTCCCTAAGTGCTGGGATTACAGGTGTGGGCCACGGCGCCCGGCCAAG
CGGCAGCTTCACCAATGACTTGAATGTGAAGCAGAAGGATTCCGAGAAGAAACGGAGCCGTCACAAATGC
ATTTCGACCAGTTGGGTGACTCCAGACCCAGAGCCGGGCGGACAGCACCTGTTTTCTGTCTTCTCGCGTC
AGCTGTTTCTTCGTGTCTTCAGAAGGTGGGCCCTTCTGGAATCGGGTCCAGCGTGGGCGCTTGGGCCTCC
GCTGACGAGTATGGACAGCGGCCAGGGACGCTCGCCCCTCCACTCTCATTCCAAGGCCCCCTTCCCAGGG
CCCAAAGCTGGGGCATGACAGGGTGGCAATGGGATTGGGGAGTCTCTTGGCCAACTGCAAGTGGCTTTCG
ACACCCCCAATCCCAGCTGAGTTGTCAGACCAGGCAGACTGCGTGGCCGGGAAACTGGCCCCTGGCACTG
TGGAGTGGTGCTGGGGCTGAGCACCACTGCCCCACCGGCACTGCTACCCAGGGTCTCTGCCCTCCAAGGG
ACGTGGTCCCTGACAGAGGCTGTGCCAGCCTCATCTTTGAGCCTTCACCCCTTCCAAGCCTCACCAGAAT
TTGTTGCCGAAAATCAACAACAGAAAGGCAGTGAAAGAAGACAGATCCATGATCTGCCTGTGGCCTGGCT
GCCCGTGGGCCAGGATGCCTGCTGTGACCACCAGGGAGACACAGGGACCAACGTCCTTTGTGAAGGATGC
AGGCACTGGCTTTGCAGAGCCGCCCTCCTAGCAACTTGGGGATGGAAGGGTGGTGGGAAGCAGGACCCGC
CCAGACACAGGTGTAGGCGATTGGAAGGTGTGGGCAAGGGCCCCCTATGAGGGCAGAGGGCCTGCTCCTG
GACACCCTGGCACATCCCAAATATACACCAGGCACCAGGGGAGTGGCCCACTCAACCCGTGAGGAAATGG
ACTCAGACCCGGACTCCAGAGTCCCACTGGAATTGGACCCATAATGGCCCTGTGGTCCCCGGAGTGAGCG
TCAGCTCAAACCTGGACCCAGCAGCCCTCCAGGTCTGCAGATCCACACTAGGGATGGAGCCAGTGTCTTG
GGTCCACGTTGTGGGGCTTGGGGGACAGAAGAGGCAAGGTCAGACTAACAGCACAGCCCGGTCCCCAGTG
GGCCCAACACCTGGCTCCAGTGCCTATGGAGCTCCCCAGGGTTCTCCCCAGGACCCTGACCTCCAGTCCC
CACAAGGCTGTCAGCCCCAAAGGCACACACACCCGAAGGAGCCCAAGCTGGCGCTGCGAGTCAGGCGGGA
AAGGCCCGGGCTGCAGCTGCTTGCCGGGGTCACCCTTTGACTATAATTGAAGCGCCCAGCAGGGCAGGAG
AGGACCACACAGAAGGTCAGGGCCAGAGCCACACCCAGCAGTGAGAGGAGCCCCAGGCACAGCCAGCCAG
AGCCCACAAGCTTCCGGGAGGGGAGAAAGATACCATGAACCCAAGGAGGGGACCCAGTAGAGAAGGCCCA
GCACCCAGAGTGAGAGGCAGGCTCAGTGGACCCCTGGCCCCGCCATGCAGCCGGGCCCTCCCCACCCAGG
CTGCGTGACTGAGGCCAGAGGGCCCGTGGAGAACCACTGGAGAGGCCAGTGACTGCACGAGAACGCCAGG
CAACTTACTAACTCTAGTCAGGCGGCTCAGAATCTGGCCACTTCCACATCGGCGCTGCAAGGAAACACAA
GGCTCAGTTGGAGGCAGCATGGGGTCTGAGGACTCGGGGGTGCAGAGGAGGGGGGACCACGGGCGAGCTG
CCAGGAGACCTAGAACCCTGGAGCACTCGGAGTCGGCACACAGCTGGGGCTCTAGCTCTCCCTGGACGGC
GCCTGCGGAGCCTGCCTCACTTGCGGGCCTGGAGGGAGCCAGGAGCCTGCCTCAGCTGCAGACGGCCCCC
CGCAGAGCCCGGGCAGAGTGAGTGACTGTCACTGGGGCCAGCACCGTGTGCAAGCCCAGGTTATCTAGCA
GGCGACTGAGTGCCGAGAAAATACCTGGCAGAGGTGGGCACAAGGCGGGGTCCCCACGGCAAAGACGCAC
GCCGGGAACCGGAAGGAGGTCCATACCCAACTCGTGCAATAAATAAAACTTTTATTCAAACAAGTAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAC

5' Read Nucleotide Sequence:

>OriGene 5' read for AK098403 unedited
AGGCGGCCCGCGAATTCGCACGAGGCACCAATGACTTGAATGTGAAGCAGAAGGATTCCG
AGAAGAAAACGGAGCCGTCACAAATGCATTTCGACCAGTTGGGTGACTCCAGACCCAGAG
CCGGGCGGACAGCACCTGTTTTCTGTCTTCTCGCGTCAGCTGTTTCTTCGTGTCTTCAGA
AGGTGGGCCCTTCTGGAATCGGGTCCAGCGTGGGCGCTTGGGCCTCCGCTGACGAGTATG
GACAGCGGCCAGGGACGCTCGCCCCTCCACTCTCATTCCAAGGCCCCCTTCCCAGGGCCC
AAAGCTGGGGCATGACAGGGTGGCATGGATTTGGNGGGGAGATTCTCTTGGCCAACTGCA
AGTGGCTTTCGACACCCCCAATCCCAGCTGAGTTGTCAGACCAGGCAGACTGCGTGGCCG
GGAAACTGGCCCCTGGCCTGTGGNAGTGGTTGCTGGNGGCTGAGCACCACTGCCCCACCG
GCACTGCTACCCAGGGTCTCTGCCCTCCAGGGNACGTGGTCCCTGACAGAGGCTGTGCCA
GCCTCATCTTTGAGCCTTCACCCCTTCCAAGCCTCACCAGGTAAGGGGCAGTTCAGCCCC
CTCAGCTCAAAGGGACCTGNGGGATGNNNNNGGGGTCTTTAAAGGCCTTCCCAGAAACAG
CGTCTCGGGAAGGGAGGAAGAATGGGAGCGGAAGGCANGGTGGTGGCCAGGGCAACCCAG
AGCATCTCCATCCAGTCCCCAAAGTTCAGGAGCATTTTTCTACCTAATCTTCCAGAATTT
GTTGCCGAAAATCAACACAGAAAGGCAGTGAAAGAAGACAGATCCATGATCTGCCTGTGG
CCTGGCTGGCCGTGGGCCCAGATGCCTGCTA

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3' Read Nucleotide Sequence:

>OriGene 3' read for AK098403 unedited
NCCGATCTTATGTACGCGCCGCATTCTANGATCGGTTTTTTTTTTTTTTTTTGAATAAA
AGTTTTATTTATTGCACGAGTTGGGTATGGACCTCCTTCCGGTTCCCGGCATGCGTCTTT
GCCGTGGGGGCCCCGCCTTGTGCCCACCTCTGCCAGGTATTTTCTCGGCACTCAGTCGCC
TGCTAGATAACCTGGGCTTGCACACGGTGCTGGCCCCAGTGACAGTCACTCACTCTGCCC
GGGCTCTGCGGGGGGCCGTCTGCAGCTGAGGCAGGCTCCTGGCTCCCTCCAGGCCCGCAA
GTGAGGCAGGCTCCGCAGGCGCCGTCCAGGGAGAGCCAGAGCCCCAGCTGTGTGCCGACT
CCGAGTGCTCCAGGGTTCTAGGTCTCCTGGCAGCTCGCCCGTGGTCCCCCCTCCTCTGCA
CCCCCGAGTCCTCAGACCCCATGCTGCCTCCAACTGAGCCTTGTGTTTCCTTGCAGCGCC
GATGTGGAAGTGGCCAGATTCTGAGCCGCCTGACTAGAGTTAGTAAGTTGCCTGGCGTTC
TCGTGCAGTCACTGGCCTCTCCAGTGGTTCTCCACGGGCCCTCTGGCCTCAGTCACGCAG
CCTGGGTGGGGAGGGCCCGGCTGCATGGCGGGGCCAGGGGTCCACTGAGCCTGCCTCTCA
CTCTGGGTGCTGGGCCTTCTCTACTGGGTCCCCTCCTTGGGTTCATGGTATCTTTCTCCC
CTCCCGGAAGCTTGTGGGCTCTGGCTGGCTGTGCCTGGGGCTCCTCTCACTGCTGGGTGT
GGCTCTGGCCCTGACCTTCTGTGTGGTCCTCTCCTGCCCTGCTGGGCGCTTCATTATAGT
CAAAGGTGACCCCGGCAGCAGCTGCAGCCCGGGCCTTTCCCC

Restriction Sites: NotI-NotI

ACCN: AK098403

Insert Size: 2500 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:
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: AK098403.1

RefSeq Size: 3948 bp

RefSeq ORF: 3948 bp

Locus ID: 85462

Cytogenetics: 4q31.3

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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]

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