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Product datasheet for SC108752

FCHSD2 (NM_014824) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FCHSD2 (NM_014824) Human Untagged Clone
Tag:	Tag Free
Symbol:	FCHSD2
Synonyms:	NWK; NWK1; SH3MD3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC108752 sequence for NM_014824 edited (data generated by NextGen Sequencing)

ATGCAGCCGCCGCCGAGGAAGGTGAAAGTTACACAAGAACTGAAAAACATTCAAGTTGAG
CAGATGACAAAACTTCAAGCCAAACATCAAGCAGAATGTGATTTGCTTGAAGATATGAGG
ACATTCAGTCAGAAGAAGGCTGCTATTGAAAGAGAGTATGCACAGGGTATGCAGAAGTTG
GCTAGTCAATACCTGAAGAGAGATTGGCCTGGAGTAAAAGCTGATGATCGGAATGATTAC
AGGAGCATGTATCCCGTTTGGAAATCTTTTCTCGAGGGAACAATGCAGGTAGCCCAGTCT
CGGATGAATATATGTGAAAACTATAAAAACTTCATTTCTGAGCCTGCAAGGACAGTGAGA
AGCTTAAAAGAACAGCAACTAAAAAGGTGTGTGGACCAGTTGACAAAGATCCAAACTGAA
TTACAAGAGACAGTGAAAGATTTAGCTAAAGGCAAAAAGAAATACTTTGAGACTGAACAG
ATGGCTCATGCAGTACGAGAGAAAGCTGACATCGAGGCAAAATCTAAACTTAGTCTTTTT
CAATCAAGAATCAGTTTACAGAAGGCAAGTGTAAAGTTAAAAGCCCGGCGATCTGAGTGT
AATTCCAAAGCTACCCACGCAAGGAATGATTATCTTCTTACCCTAGCGGCAGCAAATGCA
CATCAGGATCGCTACTATCAAACAGATTTAGTTAACATTATGAAGGCTCTTGATGGAAAT
GTGTATGATCATCTCAAGGATTATTTAATAGCCTTCAGCCGGACTGAGCTAGAAACATGC
CAAGCTGTGCAGAACACATTCCAGTTTTTATTAGAAAACTCCAGCAAGGTGGTCCGGGAC
TACAATCTTCAGCTGTTTTTGCAAGAAAACGCTGTATTTCACAAACCCCAGCCCTTCCAG
TTCCAGCCTTGTGACAGTGATACTAGCCGACAGTTAGAATCAGAAACTGGGACCACAGAG
GAGCACAGTCTAAATAAGGAAGCTCGAAAATGGGCCACACGTGTGGCACGTGAGCATAAA
AACATTGTTCACCAACAACGGGTTCTAAATGATCTGGAGTGTCATGGAGCTGCTGTATCA
GAACAAAGCCGAGCAGAGCTAGAACAGAAAATAGATGAAGCTAGAGAAAATATTCGTAAA
GCAGAGATAATTAAATTGAAAGCTGAAGCCCGGTTGGACCTGCTAAAGCAGATTGGTGTT
TCTGTGGACACATGGCTAAAGAGTGCCATGAACCAAGTAATGGAAGAACTGGAAAATGAG
CGATGGGCCCGCCCTCCTGCAGTGACCAGTAATGGCACTTTACACTCGCTTAATGCAGAT
ACCGAAAGAGAAGAAGGCGAAGAGTTTGAAGATAACATGGATGTTTTCGATGACAGCAGT
TCCAGCCCTTCTGGCACCTTAAGAAATTATCCACTCACCTGCAAAGTTGTTTATTCCTAC
AAGGCTTCTCAACCAGATGAGTTGACCATTGAGGAACATGAGGTGTTAGAAGTGATTGAA
GATGGAGATATGGAAGACTGGGTAAAGGCTCGAAATAAAGTTGGCCAAGTGGGTTATGTG
CCAGAAAAGTACCTACAGTTTCCCACCTCGAACAGCCTCCTGAGCATGCTGCAGTCCCTG
GCCGCTTTGGACAGTCGGTCACACACGTCCAGCAATTCCACGGAAGCAGAACTCGTTTCA
GGCAGCCTCAACGGAGATGCCAGTGTATGTTTTGTGAAAGCACTTTATGATTATGAGGGC
CAGACAGATGATGAGTTATCTTTTCCTGAGGGAGCAATAATCCGTATCTTGAACAAAGAA
AACCAAGATGATGATGGCTTCTGGGAAGGGGAATTCAATGGGCGTATTGGAGTTTTCCCA
TCGGTGCTAGTGGAAGAACTTTCAGCCTCAGAAAATGGTGACACTCCATGGATGAGAGAG
ATTCAGATCTCTCCTTCCCCCAAGCCACACGCCTCCCTGCCTCCACTGCCGTTGTACGAC
CAGCCTCCCAGCAGCCCCTACCCCAGCCCAGATAAGAGGAGCTCCCTGTACTTTCCCCGG
TCTCCTTCAGCAAACGAAAAAAGCCTTCATGCTGAGTCACCAGGATTCTCACAGGCATCA
AGGCATACTCCTGAGACCTCATATGGCAAACTGCGACCTGTCCGGGCAGCTCCCCCTCCA
CCTACACAGAATCACCGAAGGCCAGCAGAGAAGATTGAAGATGTGGAAATCACACTGGTG
TGA

Clone variation with respect to NM_014824.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014824 unedited
GGCCGCGAATTCGGCACGAGGCTTCCCGGTGCTCCTCCCTCGTCTCCTCACACTCGCTCT
CTGGCTGGGGTCCGCCTGCCGCCCGCTGGCCTGCTCCCTCCGGGGCAAGTCTTGCTTCTT
AAGCGCTCCTTTCACACACGCGCGCGCTCGCTGGGCCGTCCCCTCCTCTCCGGCCCTCCT
CCTCCTCCTGGTCCTTGCTAACGCTGCCGTCGGGGAGGATTGATGTCCCTTCAGCATCAT
GCAGCCGCCGCCGAGGAAGGTGAAAGTTACACAAGAACTGAAAAACATTCAAGTTGAGCA
GATGACAAAACTTCAAGCCAAACATCAAGCAGAATGTGATTTGCTTGAAGATATGAGGAC
ATTCAGTCAGAAGAAGGCTGCTATTGAAAGAGAGTATGCACAGGGTATGCAGAAGTTGGC
TAGTCAATACCTGAAGAGAGATTGGCCTGGAGTAAAAGCTGATGATCGGAATGATTACAG
GAGCATGTATCCCGTTTGGAAATCTTTTCTCGAGGGAACAATGCAGGTAGCCCAGTCTCG
GATGAATATATGTGAAAACTATAAAAACTTCATTTCTGAGCCTGGCAGGACAGTGAGAAG
CTTAAAAGAACAGCACTAAAAAGGTGTGTGGACCAGTTGACAAAGATCCCAACTGGGATT
ACAGAGACAGTGAAAGATTTAGCTAAAGGCNNAAAGAAATACTNTGAGACTNGACAGATG
GCTCATGCAGTACGAGAGAAAGCTGACATCGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014824 unedited
TTTAGCTTGGACCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAATTCC
ATTTTTTTTATTATTCAACATTTTATACATAATAAATACAAACTTTTTACAGCCACTGTA
AAGAAAGCACATCTGCACAGAGGCTCCCTCCGAGCCCTGACCTGTGCACTGTGGTGCTGG
ATTCCATATCCTGGATGGAGGGGTTATTTTTTAAAAAGGAGGCATGTTTTCACAACTTTG
TTTTTTAAAATAAAATTAGCAGCTCTTCCAAAAAATATTTTAAAATACAACAAAAGATTT
CAAATAACCCTTTGAGGTTGTGGAAAACCCAAATTCAAGGACAATTTGGCTAGCTAAAGA
CAGAATACAAGACTGGGTGGCAAGAACTGCTCTATTTAATAAGCATTTGAAGATTTTTAA
TATGTTAGCAAACTTTAAAATCTTAAAAAAACCACCCTTTTAATTTCTTTTTTAAACTTA
AGAATAACTTTGATAAACACAAAAGACCTAAAATAGATCAACAGGTTAAGCAAGTGTAAT
ACACAACACCGAATAACAACCCCAACCCATGGCAAATATTCCTTACCGGCGTTTTCGTAC
CTGACGTGTTCCACGATTTACAAATTTCTTCACTCCCCACTTTACTCTTCGCCCATACTT
CCATGGCGCAATTCCCCGCACCCCCCCCACTTTCTTAATTCCCCTTCCACTTCCGCCCCC
CGCTTGTCTCCCCCCTCTCCCCCATTCCCACCCCCCCCCCCCCGGATTTCCACCACCCA
CAATATCTCGCACGGTTTACTTTTTCCCTCACCCTCTCTCACCTACAATTAGCCTACCCA
CCCCATCCACCCCTATTAACCCCTTTTACGCCACCCTTTATACACTTAACCATCCCTTTC
TCCTTTTTTTCATATACCCCCTACGCTCTTTACACCTCCATTTATCCCCACTATCCACTT
CGTATTTTTTACTCCG

Restriction Sites: NotI-NotI

ACCN: NM_014824

Insert Size: 4310 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_014824.1, NP_055639.1
RefSeq Size:	4507 bp
RefSeq ORF:	2055 bp
Locus ID:	9873
UniProt ID:	O94868
Cytogenetics:	11q13.4
Domains:	SH3
Gene Summary:	Adapter protein that plays a role in endocytosis via clathrin-coated pits. Contributes to the internalization of cell surface receptors, such as integrin ITGB1 and transferrin receptor (PubMed:29887380). Promotes endocytosis of EGFR in cancer cells, and thereby contributes to the down-regulation of EGFR signaling (PubMed:30249660). Recruited to clathrin-coated pits during a mid-to-late stage of assembly, where it is required for normal progress from U-shaped intermediate stage pits to terminal, omega-shaped pits (PubMed:29887380). Binds to membranes enriched in phosphatidylinositol 3,4-bisphosphate or phosphatidylinositol 3,4,5-trisphosphate (PubMed:29887380). When bound to membranes, promotes actin polymerization via its interaction with WAS and/or WASL which leads to the activation of the Arp2/3 complex. Does not promote actin polymerisation in the absence of membranes (PubMed:29887380).[UniProtKB/Swiss-Prot Function]