

Product datasheet for **MR215642**

Fchsd2 (NM_001146010) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fchsd2 (NM_001146010) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fchsd2
Synonyms:	BC034086; mKIAA0769; R74866; Sh3md3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR215642 representing NM_001146010
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGCCGCGCCGAGGAAGGTGAAAGTTACACAAGAGCTGAGAAACATTCAAGGTGAGCAGATGACAA
 AACTTCAAGCCAAACATCAGGCAGAATGTGACTTACTTGAAGACATGAGGACTTTCAGTCAGAAGAAGGC
 TGCTATTGAAAGAGAGTATGCACAGGGTATCCAGAAGTTGGCTAGTCAATACCTGAAGAGAGATTGGCCT
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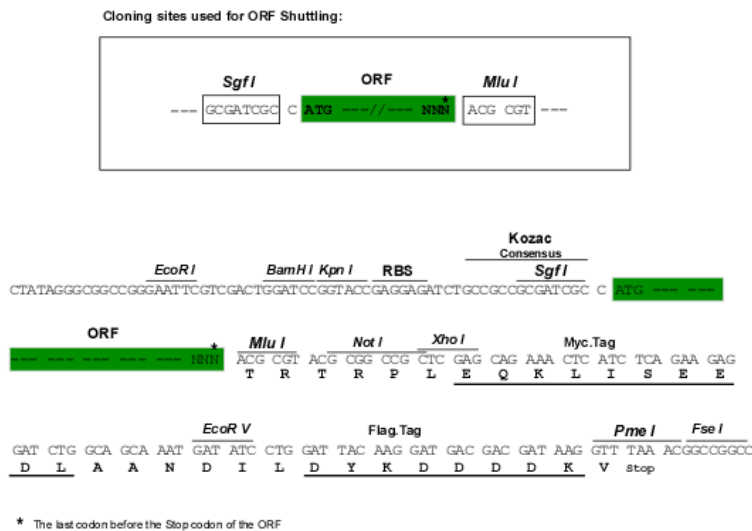
Protein Sequence: >MR215642 representing NM_001146010
Red=Cloning site Green=Tags(s)

MQPPPRKVKVTQELRNIQGEQMTKLQAKHQAECDLLEDMRTFSQKKAAIEREYAQGIQKLASOYLKRDWP
 GIKTDDRNDYRSMYPVWKSFLQEGTMQVAQSRINICENYKNFISEPARAVRSLKEQQLKRCVDQLTKIQTE
 LQETVKDLVKGKKKYFETEQMAHAVREKADIEAKSKLSLFQSRISLQKASVKLKARRSECNTKATHARND
 YLLTLAAANAHQDRYYQTDLVNIMKALDGNVYDHLKDYLIASFRTLETCQAIQNTFQFLENSKVVVRD
 YNLQLFLQENAVFHKPPQPFQFQPCDSDTSRQLESETGTTEEHSLNKEARKWATRVAREHKNIVHQQRVLN
 ELECHGVALSEQSRAELEQKIDEARESIRKAEIKLKAEARLDLLKQIGVSVDTWLKSAMNQVMEELENE
 RWARPPAVTSNGTLHSLNADAEREEGEEFEDNMDVFDSSSSPSGTLRNYPLTCKVVYSYKASQPDDELTI
 EEHEVLEVIEDGDMEDWVKARNKVGQVGYVPEKYLQFPTSNSLLSMLQSLAALDSRSHSSNSTEAEVLS
 GSLNGDASVCFVKALYDYGQTDDELSPFEGAIIRILNKENQDDDGFWEGEFSGRIGVFPVSVLVEELSSAS
 ENGDTPWTREIQISPSPKPHTSLPPLPLYDQPPSSPYSPDKRSSQFFPRSPSANENSLHAESPFGSQAS
 RQTPDTSYGKLRPVRAAPPPPTQNHRRRTTEKMEDVEITLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001146010

ORF Size: 2220 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:

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_001146010.1](#), [NP_001139482.1](#)

RefSeq Size: 4360 bp

RefSeq ORF: 2223 bp

Locus ID: 207278

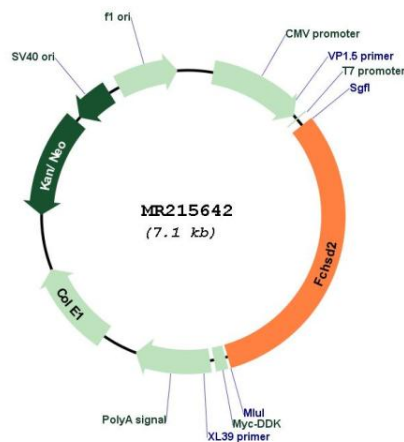
UniProt ID: [Q3USJ8](#)

Cytogenetics: 7 E2

MW: 84.7 kDa

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. Promotes endocytosis of EGFR in cancer cells, and thereby contributes to the down-regulation of EGFR signaling. 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. Binds to membranes enriched in phosphatidylinositol 3,4-bisphosphate or phosphatidylinositol 3,4,5-trisphosphate (By similarity). 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 (PubMed:23437151). Does not promote actin polymerisation in the absence of membranes (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215642