

## Product datasheet for **MC221252**

### **Fchsd2 (NM\_001146010) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fchsd2 (NM_001146010) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC221252 representing NM\_001146010  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCAGCCGCGCCGAGGAAGGTGAAAGTTACACAAGAGCTGAGAAAACATTCAAGGTGAGCAGATGACAA  
 AACTTCAAGCCAACATCAGGCAGAATGTGACTTACTTGAAGACATGAGGACTTTCAGTCAGAAGAAGGC  
 TGCTATTGAAAGAGAGTATGCACAGGGTATCCAGAAGTTGGCTAGTCAATACCTGAAGAGAGATTGGCCT  
 GGAATAAAAACTGATGATCGAATGATTACAGGAGTATGTATCTGTGGAAATCTTTTCTCGAGGGAA  
 CAATGCAGGTAGCCAGTCTCGGATCAATATATGTGAAAACATAAAAACTTCATTTCTGAACCTGCAAG  
 AGCAGTAAGAAGCTTAAAAGAACAGCACTAAAACGGTGTGTGGATCAGTTGACAAAGATCCAAACAGAA  
 TTACAGGAAACTGTGAAAGATTTAGTGAAGGCCAAAAGAAGTACTTTGAGACTGAACAGATGGCTCATG  
 CAGTAAGAGAGAAAGCTGACATCGAAGCAAAGTCTAAACTTAGTCTTTTCAATCAAGAATCAGTTTACA  
 GAAAGCAAGTGTGAAGTTAAAAGCCCGGGATCTGAATGTAATACAAAGCTACCCATGCAAGGAATGAT  
 TACCTTCTGACGCTAGCAGCAGCTAACGCACATCAGGACCCTACTATCAAACAGACTTAGTTAACATCA  
 TGAAGGCTCTTGATGAAACGTGTATGACCACCTCAAGGATTATTTAATAGCCTTCAGCCGACCGAGCT  
 AGAAACTTGCCAAGCTATACAGAATACATTCCAGTTTTTACTAGAAAACCTCCAGCAAGGTGGTACGGGAC  
 TATAACCTTCAGCTGTTTCTACAAGAGAATGCTGTATTTACAAAGCCTCAGCCCTTCAGTTCCAGCCTT  
 GTGACAGTGATACTAGTCGACAATTAGAATCAGAAAACCTGGTACCACAGAGGAACACAGTCTAAATAAGGA  
 GGCTCGGAAATGGGCCACACGTGTGGCAGTGTGACACAAAAATTTGTTTCATCAGCAGCGGGTCTAAAT  
 GAAGTGAATGTCATGGAGTTGCTCTATCAGAACAGAGCCGAGCAGAGCTGGAACAGAAAAATAGATGAAG  
 CAAGAGAAAGTATCCGTAAGCAGAGATCATTAATTTGAAAGCTGAAGCCCGGCTAGACCTACTGAAGCA  
 GATTGGGGTTTCTGTAGATACGTGGTTAAAGAGTGCCATGAACCAAGTGATGGAGGAACATAGAAAAATGAG  
 CGGTGGGCCCGTCTCCAGCCGTGACCAGCAATGGCACTCTACACTCGCTTAATGCAAGTCTGAAAGAG  
 AAGAAGGAGAAGAGTTTGAAGACAACATGGATGTTTTTGTGACAGCAGCTCCAGCCCTTCTGGCACCTT  
 GAGAAATATCCACTCACCTGCAAAGTTGTTTATTCTATAAAGCTTCTCAACCAGATGAGTTGACCATT  
 GAGGAACATGAGGTGTTAGAAGTATTGAAGATGGAGATATGGAAGACTGGGTAAGGCTCGAAATAAG  
 TTGGCCAAGTGGGTTATGTGCCAGAAAAGTACCTACAATTTCCACCTCGAACAGCCTACTGAGCATGCT  
 ACAGTCTTTGGCTGCTTTGGACAGTCGGTCACACACATCCAGCAATTCACAGAAGCAGAACTCGTTTCA  
 GGCAGCCTGAATGGAGATGCCAGTGTCTGTTTTGTGAAAGCACTTATGATTATGAGGGCCAGACAGATG  
 ATGAGCTGCTTTCCCGAGGGAGCAATTTCCGATCTTGAACAAAGAAAACCAAGATGATGATGGCTT  
 CTGGGAAGGGGAGTTCAGTGGTCAATCGGTGTTTTCCATCGGTGCTAGTGGAAGAGCTCTCAGCCTCC  
 GAGAATGGCGACTCCATGGACAAGAGAGATCCAGATCTCTCCATCCCCAAGCCTCACACATCCCTGC  
 CTCCACTGCCTCTGTATGACCAGCCACCCAGCAGCCCGTATCCAGTCCAGATAAGAGGAGCTCCAGTT  
 CTTCCCCCGTCTCCTTCAGCCAATGAAAACAGCCTTCATGCTGAATCACCAGGATTCTCACAGGCCTCA  
 AGACAGACTCTGACACCTCATATGGCAAGCTGCGGCTGTTCCGGCGGCGCCGCCACCACCCACACAGA  
 ACCACCGCGGACAACCTGAGAAGATGGAGGACGTGGAGATCACACTGGT**GTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001146010

**Insert Size:** 2223 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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001146010.1, NP_001139482.1</u>
<b>RefSeq Size:</b>	4360 bp
<b>RefSeq ORF:</b>	2223 bp
<b>Locus ID:</b>	207278
<b>UniProt ID:</b>	<u>Q3USJ8</u>
<b>Cytogenetics:</b>	7 E2
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the mid coding region, compared to variant 1, resulting in an isoform (2) that is shorter than isoform 1.</p>