

## Product datasheet for **MC216196**

### Ficd (NM\_001010825) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ficd (NM_001010825) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ficd
Synonyms:	D5Ertd40e; Hype
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216196 representing NM\_001010825  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATACTCATGCCAATGGCGTCGGTGGTGGCAGTGGCCGAACCCAAATGGGTCTCCGTCTGGGGCCGTT  
 TCCTGTGGATGGCGCTGCTGAGCATGGCTCTGGGGTCGCTGCTGGCTCTGCTGCTGCCGCTGGGAGTTGT  
 GGAAGAGCATTGCCTGGCTGTGCTCAGAGGTTTCCACCTGCTCAGGAGCAAAGTGGACAGGGCACAGCCT  
 GTGGTCCCAAGTGCACCAGCCTATGCACAGAGCTCAGTGTCTCCTCCAGGGATGCAGGGCTGCTGACAG  
 TCAAGACTACGGCGTCTCCAGCAGGGAAGCTGGAAGCCAAGGCCGCCCTAAACCAAGCCCTGGAGATGAA  
 GCGTCAAGGCAAGAGAGGGAAAGCCCACAAGCTTTCCTGCACGCCCTCAAGATGGACCCCGCTTTGTA  
 GACGCACTGAATGAGTTCGGCATCTTCTCCGAAGAAGACAAGGACATCATCCAGGCTGACTACTTATACA  
 CCAGGGCCCTGACCATCTCGCCCTCCACGAGAAAGCCCTGGTCAACCGGGATCGGACACTGCCCTCGT  
 GGAGGAAATCGACCAGAGGTACTTCAGCGTCATCGACAGCAAAGTGAAGAAGGTCATGTCCATCCCAAAG  
 GGGAGCTCAGCGCTGCGCAGGGTCATGGAGGAGACCTACTACCACCACATCTACCACACGGTGGCCATCG  
 AGGGCAACACCCTCACCTCTCGGAGATCAGGCACATCCTGGAGACCCGCTACGCCGTGCCAGGGAAGAG  
 CCTGGAAGAGCAGAACGAGGTGATCGGCATGCACGCGGCCATGAAGTACATCAACACCACCCTGGTCTCC  
 CGCATCGGGTCTGTACCATGGACGACATGCTGGAGATCCACAGGAGGGTACTGGGGTATGTGGATCCAG  
 TGGAGGCGGGCAGGTTCCGGAGGACCCAGGTCTGGTGGGCCACCACATCCCACCCACCCCGGGATGT  
 GGAGAAGCAGATGCAGGAGTTCACACAGTGGCTCAATTACAGGACGCCATGAACCTGCACCCAGTCCGAG  
 TTCGCGGCCCTGGCCATTACAACTGGTGTACATCCACCCTTTCATCGACGGCAACGGGAGGACCTCCC  
 GTCTGTGATGAACCTGATTTTGTGATGCAGCGGGGATACCCGCCATCACCATCCGCAAGGAGCAGAGGTC  
 CGAGTACTACCATGTACTGGAAGTCGCCAACGAGGGTGACGTGCGGCCTTTCATCCGCTTATAGCCAAG  
 TGTACGGAGTCCACTGGACACGTTGCTCCTTGCACCACCGAGTACTCGGTGGCACTGCCAGAAGCCC  
 AGCCCAACCATTCTGGGTTCAAGGAGACGCTCCCTGTGAGGCC**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001010825

**Insert Size:** 1377 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:	<a href="#">NM_001010825.3</a> , <a href="#">NP_001010825.2</a>
RefSeq Size:	3192 bp
RefSeq ORF:	1377 bp
Locus ID:	231630
UniProt ID:	<a href="#">Q8BIX9</a>
Cytogenetics:	5 55.55 cM
Gene Summary:	<p>Protein that can both mediate the addition of adenosine 5'-monophosphate (AMP) to specific residues of target proteins (AMPylation), and the removal of the same modification from target proteins (de-AMPylation), depending on the context (By similarity). The side chain of Glu-231 determines which of the two opposing activities (AMPylase or de-AMPylase) will take place (By similarity). Acts as a key regulator of the ERN1/IRE1-mediated unfolded protein response (UPR) by mediating AMPylation or de-AMPylation of HSPA5/BiP (By similarity). In unstressed cells, acts as an adenylyltransferase by mediating AMPylation of HSPA5/BiP at 'Thr-518', thereby inactivating it (By similarity). In response to endoplasmic reticulum stress, acts as a phosphodiesterase by mediating removal of ATP (de-AMPylation) from HSPA5/BiP at 'Thr-518', leading to restore HSPA5/BiP activity (By similarity). Although it is able to AMPylate RhoA, Rac and Cdc42 Rho GTPases in vitro, Rho GTPases do not constitute physiological substrates (By similarity).[UniProtKB/Swiss-Prot Function]</p>