

## Product datasheet for **MG216189**

### **Ficd (NM\_001010825) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ficd (NM_001010825) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ficd
Synonyms:	D5Ertd40e; Hype
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG216189 representing NM\_001010825  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATACTCATGCCAATGGCGTCGGTGGTGGCAGTGGCCGAACCCAAATGGGTCTCCGTCTGGGGCCGTT  
 TCCTGTGGATGGCGCTGCTGAGCATGGCTCTGGGGTCGCTGCTGGCTCTGCTGCTGCCGCTGGGAGTTGT  
 GGAAGAGCATTGCCTGGCTGTGCTCAGAGGTTTCCACCTGCTCAGGAGCAAACCTGGACAGGGCACAGCCT  
 GTGGTCCCAAGTGCACCAGCCTATGCACAGAGCTCAGTGTCTCCTCCAGGGATGCAGGGCTGCTGACAG  
 TCAAGACTACGGCGTCTCCAGCAGGGAAGCTGGAAGCCAAGGCCGCCCTAAACCAAGCCCTGGAGATGAA  
 GCGTCAAGGCAAGAGAGGGAAAGCCACAAGCTTCTCCTGCACGCCCTCAAGATGGACCCCGCTTTGTA  
 GACGCACTGAATGAGTTCGGCATCTTCTCCGAAGAAGACAAGGACATCATCCAGGCTGACTATTATACA  
 CCAGGGCCCTGACCATCTCGCCCTCCACGAGAAAGCCCTGGTCAACCGGGATCGGACACTGCCCTCGT  
 GGAGGAAATCGACCAGAGGTACTTCAGCGTCATCGACAGCAAAGTGAAGAAGGTCATGTCCATCCCAAAG  
 GGGAGCTCAGCGCTGCGCAGGGTCATGGAGGAGACCTACTACCACCACATCTACCACACGGTGGCCATCG  
 AGGGCAACACCCTCACCTCTCGGAGATCAGGCACATCCTGGAGACCCGCTACGCCGTGCCAGGGAAGAG  
 CCTGGAAGAGCAGAACGAGGTGATCGGCATGCACGCGGCCATGAAGTACATCAACACCACCCTGGTCTCC  
 CGCATCGGGTCTGTACCATGGACGACATGCTGGAGATCCACAGGAGGGTACTGGGGTATGTGGATCCAG  
 TGGAGGCGGGCAGGTTCCGGAGGACCCAGGTCCTGGTGGGCCACCACATCCCACCCACCCCGGGATGT  
 GGAGAAGCAGATGCAGGAGTTACACAGTGGCTCAATTCAGAGGACGCCATGAACCTGCACCCAGTCCGAG  
 TTCGCGGCCCTGGCCATTACAACTGGTGTACATCCACCCTTTCATCGACGGCAACGGGAGGACCTCCC  
 GTCTGTGATGAACCTGATTTTGTGATGCAGGCGGGATACCCGCCATCACCATCCGCAAGGAGCAGAGGTC  
 CGAGTACTACCATGTACTGGAAGTCGCCAACGAGGGTGACGTGCGGCCTTTCATCCGCTTCATAGCCAAG  
 TGTACGGAGGTCACACTGGACACGTTGCTCCTTGGCACCACCGAGTACTCGGTGGCACTGCCAGAAGCCC  
 AGCCCAACCATTCTGGGTTCAAGGAGACGCTCCCTGTGAGGCC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG216189 representing NM\_001010825  
 Red=Cloning site Green=Tags(s)

MILMPMASVVVAEPAKWSVWGRFLWMALLSMALGSLALLLPLGVVEEHCLAVLRGFHLLRSKLDRAQP  
 VVPKCTSLCTELSVSSRDAGLLTVKTTASPAGKLEAKAALNQALEMKRQKRGKAHKLFLHALKMDPGFV  
 DALNEFGIFSEEDKDI IQADYL YTRAL TISPFHEKALVNRDRTLPLVEEIDQRYFSVIDSKVKKVMSIPK  
 GSSALRRVMEETYHHIYHTVAIEGNLTLSEIRHILETRYAVPGKSLEEQNEVIGMHAAMKYINTTLVS  
 RIGSVTMDDMLEIHRRLVGYVDPVEAGRFRRTQVLVGHHPHPRDVEKQMQEFTQWLNSDAMNLHPVE  
 FAALAHYKLVYIHPFIDGNGRTSRLMNLILMQAGYPPITIRKEQRSEYHVLEVANEGDVRPFIRFIAK  
 CTEVTLDTLLLATTEYSVALPEAQPNSGFKETLPVRP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI



<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><a href="#">NM_001010825.3</a></u> , <u><a href="#">NP_001010825.2</a></u>
<b>RefSeq Size:</b>	3192 bp
<b>RefSeq ORF:</b>	1377 bp
<b>Locus ID:</b>	231630
<b>UniProt ID:</b>	<u><a href="#">Q8BIX9</a></u>
<b>Cytogenetics:</b>	5 55.55 cM
<b>Gene Summary:</b>	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]