

Product datasheet for **MR216189**

Ficd (NM_001010825) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR216189 representing NM_001010825
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATACTCATGCCAATGGCGTCGGTGGTGGCAGTGGCCGAACCCAAATGGGTCTCCGTCTGGGGCCGT
 TCCTGTGGATGGCGTCTGAGCATGGCTCTGGGGTCTGCTGGCTCTGCTGCTGCCGCTGGGAGTTGT
 GGAAGAGCATTGCCTGGCTGTGCTCAGAGGTTTCCACCTGCTCAGGAGCAAAGTGGACAGGGCACAGCCT
 GTGGTCCCAAGTGCACAGCCTATGCACAGAGCTCAGTGTCTCCTCCAGGGATGCAGGGCTGCTGACAG
 TCAAGACTACGGCGTCTCCAGCAGGAAGCTGGAAGCCAAGGCCGCCCTAAACCAAGCCCTGGAGATGAA
 GCGTCAAGGCAAGAGAGGGAAAGCCACAAGCTTCTCAGCAGCCCTCAAGATGGACCCCGCTTTGTA
 GACGCACTGAATGAGTTCGGCATCTTCTCCGAAGAAGACAAGGACATCATCCAGGCTGACTACTTATACA
 CCAGGGCCCTGACCATCTCGCCCTCCACGAGAAAGCCCTGGTCAACCGGGATCGGACACTGCCCTCGT
 GGAGGAAATCGACAGAGGTACTTCAGCGTCATCGACAGCAAAGTGAAGAAGGTATGTCCATCCCAAAG
 GGGAGCTCAGCGCTGCGCAGGGTATGGAGGAGACCTACTACCACCACATCTACCACACGGTGGCCATCG
 AGGGCAACACCCTCACCTCTCGGAGATCAGGCACATCCTGGAGACCCGCTACGCCGTGCCAGGGAAGAG
 CCTGGAAGAGCAGAACGAGGTGATCGGCATGCACGCGGCCATGAAGTACATCAACACCACCCTGGTCTCC
 CGCATCGGGTCTGTACCATGGACGACATGCTGGAGATCCACAGGAGGGTACTGGGGTATGTGGATCCAG
 TGGAGGCGGGCAGGTTCCGGAGGACCCAGGTCTGGTGGGCCACCACATCCCACCCACCCCGGGATGT
 GGAGAAGCAGATGCAGGAGTTACACAGTGGCTCAATTCAGAGGACGCCATGAACCTGCACCCAGTGCAG
 TTCGCGGCCCTGGCCATTACAACTGGTGTACATCCACCCTTTCATCGACGGCAACGGGAGGACCTCCC
 GTCTGTGATGAACCTGATTTTGTGATGACGGCGGGATACCCGCCATCACCATCCGCAAGGAGCAGGTC
 CGAGTACTACCATGTACTGGAAGTCGCCAACGAGGGTGACGTGCGGCCTTTCATCCGCTTCATAGCCAAG
 TGTACGGAGGTCACACTGGACACGTTGCTCCTTCCACCACCGAGTACTCGGTGGCACTGCCAGAAGCCC
 AGCCCAACCATTCTGGGTTCAAGGAGACGCTCCCTGTGAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216189 representing NM_001010825
 Red=Cloning site Green=Tags(s)

MILMPMASVVVAEPKWSVWGRFLWMALLSMALGSLALLLPLGVVEEHCLAVLRGFHLLRSKLDRAQP
 VVPKCTSLCTELSVSSRDAGLLTVKTTASPAGKLEAKAALNQALEMKRQKRGKAHKLFLHALKMDPGFV
 DALNEFGIFSEEDKDIIQADYLYTRALTI SPFHEKALVNRDRTLPLVEEIDQRYFSVIDSKVKKVMSIPK
 GSSALRRVMEETYHHIYHTVAIEGNLTLSEIRHILETRYAVPGKSLEEQNEVIGMHAAMKYINTLVS
 RIGSVTMDMLEIHRRVLGYVDPVEAGFRRTQVLVGHIPPHPRDVEKQMQEFTQWLNSEDAMNLHPVE
 FAALAHYKLVYIHPFIDNGRTRSLLMNLILMQAGYPPITIRKEQRSEYHVLEVANEGDVRPFIRFIAK
 CTEVTLDTLLLATTEYSVALPEAQPNSGFKETLPVRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9017_d04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001010825

ORF Size: 1374 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_001010825.3](#), [NP_001010825.2](#)

RefSeq Size: 3192 bp

RefSeq ORF: 1377 bp

Locus ID: 231630

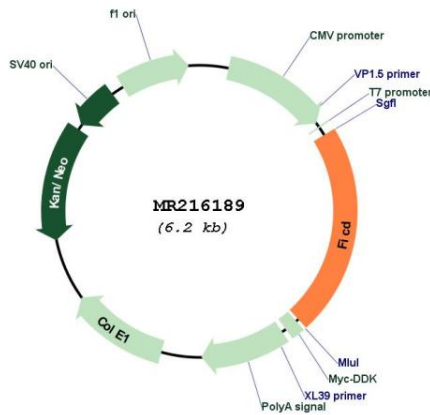
UniProt ID: [Q8BIX9](#)

Cytogenetics: 5 55.55 cM

MW: 52.2 kDa

Gene Summary: 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]

Product images:



Circular map for MR216189