

Product datasheet for **MR207892**

Flad1 (NM_177041) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Flad1 (NM_177041) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Flad1
Synonyms:	A930017E24Rik; Pp591
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207892 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCATCTAGGGCCTCTGAAGTCCCCAGGATCAGGGCGCAGCGTGACAGCAGGCATCATATTGTTG
 GAGATGAGATCCTTAAGGGACACACGCAAGATACCAACTTACTTTCTTTGCCGGACCCTGCGCTCCCT
 GGGGGTCCAGTTTGCCGAGTCTCTGTTGTGCCTGATGAAGTAGCCACCATTGCATCCGAGGTCAACTCA
 TTCTCCAGGCGCTTCACTCACGTCTCACCGGGGGGCATCGGCCCACTCATGATGATGTTACCTTTG
 AGGCAGTGGCACAGGCTTTGGGAGGAGCTCAAACCACACCCTGAGCTCCAAGCAGCCATCAAACCCCT
 AGGAGGGGAGGGTTGGGAGAAGCTGTCGATGGTGCCTCCTCTGCCCGCCTGCATTACGGTACAGATCCT
 CGAACCGGCCACCCCTTCAGATCCCGTGGTCTCTGTCCGAAATGTCTACCTCTCCAGGAATCCGG
 AGCTTCTGCGACGAGTTTGGAGGGACTGAAAGGGCTGTCCAAAACACAGCTGTGCAGTCCACCTGAA
 GGAGTTGTATGTGGCCGCTCAGAGGGCTCTATCGCCCCATCCTGTCCGAGGCTCAGGCCCACTTTGGG
 CGTAGGCTTAGCCTGGGTTCTACCTGACTGGAGCAGCAACTACTTTCAAGTGAAGCTGATTCTAGACT
 CCGAGGAAAAAGAGCCCTTGGAGGAATGTCTGGCCTATCTGACTGCACGTCTGCCCAAGGATCACTGGT
 CCCCTACCAGCCCGATGCTGTTGAGAAGGCTGGTGAAGGCTGTGTACAAACTCGCGGAGTCAGGCTTTGT
 CTGGGGAAGAAGGTAGCAGGTGCCTACAGACCATCGAGACTGCCTGGCTCAGTACCATCTCTCCAGC
 TCTGCGTGGGCTTCAATGGGGCAAGGACTGCACCGCACTCTGCACCTTTCCATGCAGCCGTGCAGAG
 AAAATTTCTGATGTTCCAAAACCTCTCCAGATCCTGTACATTCGTAGCATCTCGCCCTCCCTGAGTTG
 GAACAGTTTCTGCAGGACACCATCAAGAGGTATAATCTCCAGGTGTTAGAAGCCGAGGGTAACATGAAGC
 AGCCCTGGGTGAGCTTCAGGAAAAGCACCCCACTGGAGGCTGTCTGATGGGCACTGCAGCCGATCA
 CCCTACTCCTGTAGCCTCAGCCATTTAGTCCCACCGACCCTGGCTGGCCTTATTGATGAGAATCAAC
 CCGCTGCTGGACTGGACCTACAGAAACATCTGGGAGTTTCTGCGGCAGCTGTTTGTCCATACTGCATCC
 TATATGACAGAGGGTACACATCCCTGGGAGTCGGGAAAAACAACGCAGAAATCCGGCCCTGAAGTGCT
 GAGCCCAGGAGACACCCTGTCTACCGTCCAGCATACCTACTGGAGAATGAGGATGAGGAGAGAAATTC
 AGAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207892 protein sequence
 Red=Cloning site Green=Tags(s)

MASRASELPPGSGRSVTAGIIIVGDEILKHTQDTNTYFLCRTLRSLGVQVCRVSVVPDEVATIASEVNS
 FSRRFTHVLTAGGIGPTHDDVTFEAVAQAFGEELKPHPELQAAIKTLGGEGWEKLSMVPSSARLHYGTDP
 RTGHPFRFPLVSVRNLYLFPPIPELLRRVLEGLKGLFQNTAVQFHLKELYAAASEGSIAPILSEAQAHFG
 RRLSLGSYPDWSSNYFQVKLILDSEEKEPLEECLAYLTARLPQGSVPYQPDAVEKAGEAVYKLAESGSC
 LGKKVAGALQTIETALAQYHLSQLCVGFNNGKDCALLHLFHAAVQRKFPDVPKPLQILYIRSISPFPEL
 EQFLQDTIKRYNLQVLEAEGNMKQALGELQEKHPQLEAVLMGTRRTDPYSCSLSHFSPTDPGWPSFMRIN
 PLLDWTYRNIWEFLRQLFVPYCILYDRGYTSLGSRNTTQNPALKCLSPGGHPVYRPAYLLENEDEERNS
 RM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_177041

ORF Size: 1479 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_177041.4](#)

RefSeq Size: 2223 bp

RefSeq ORF: 1479 bp

Locus ID: 319945

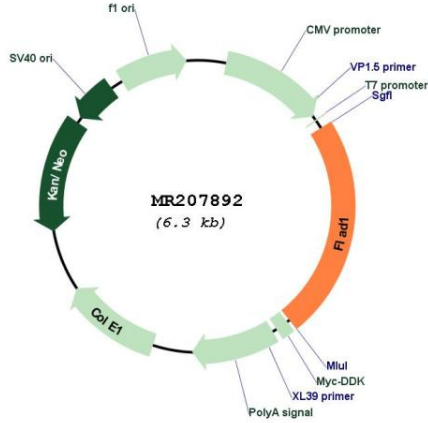
UniProt ID: [Q8R123](#)

Cytogenetics: 3 F1

MW: 54.8 kDa

Gene Summary: Catalyzes the adenylation of flavin mononucleotide (FMN) to form flavin adenine dinucleotide (FAD) coenzyme.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207892