

Product datasheet for **RC207083**

FLAD1 (NM_201398) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FLAD1 (NM_201398) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FLAD1
Synonyms:	FAD1; FADS; LSMFLAD; PP591
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207083 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACATCTAGGGCCTCTGAACCTTCTCCGGGGCGCAGCGTGACGGCTGGCATCATCATTGTTGGAGATG
 AGATCCTTAAGGGACACACTCAGGACACCAACACCTTCTTTCTGTGCCGGACACTGCGCTCCCTAGGGGT
 CCAGGTTTGCCGAGTCTCAGTTGTACCTGATGAGGTAGCCACCATTGCAGCTGAGGTCACCTTCTTTCTCC
 AACCGCTTCACCCATGTCTCACAGCAGGGGGCATCGGCCCACTCATGATGATGTGACCTTTGAGGCAG
 TGGCACAGGCCTTTGGAGATGAGCTGAAGCCACACCCCAAGTTGGAAGCAGCCACCAAAGCCCTAGGAGG
 GGAAGGCTGGGAGAAGCTATCATTGGTGCCCTCTCTGCCCGCTGCATTATGGCACAGATCCTTGCACT
 GGTCAACCTTTCAGATCCCTCTGGTCTCCGTCGAAACGTCTACCTCTCCAGGCATTCCAGAGCTGC
 TCGGGCGGGTCTGGAGGGGATGAAGGGACTATCCAAAACCCAGCTGTTCCAGTCCACTCAAAGGAGCT
 ATATGTGGCTGCTGATGAAGCCTCCATCGCCCCATTCTGGCTGAGGCCAGGCCACTTTGGACGTAGG
 CTTGGCCTGGGTTCTACCTGACTGGGGCAGCAACTACTATCAGGTGAAGCTGACTCTAGACTCAGAGG
 AAGAAGGACCCCTGGAGGAATGCTTGGCCTACCTGACTGCCCGTTTGGCCAGGGATCGCTGGTCCCTA
 CATGCCAACCGCTGTGGAGCAGGCCAGTGAGGCTGTATACAAACTCGCTGAATCAGGGTCTTCTTTGGGG
 AAAAAGGTGGCAGGTGCCCTACAGACCTTGGACCTCCCTGGCTCAGTACAGCCTCACCCAGCTGTG
 TGGGCTTCAACGGGGGCAAAGACTGCACTGCCCTCTGCACCTTCCATGCAGCTGTGCAGAGGAAATT
 ACCTGATGTTCCAAACCCCTCCAGATCCTGTATATCCGCAGCATCTCCCTTTCCCTGAGCTGGAACAG
 TTTCTACAGGACACTATCAAGAGGTATAATCTGCAGATGTTGGAAGCTGAGGGCAGCATGAAGCAGGCC
 TGGGTGAAGTGCAGGCACGGCACCCCGCTGGAGGCTGCTTATGGGCACCCGCGGACTGACCCCTA
 CTCTGTAGCCTCTGCCCTTTCAGCCCCACTGACCCAGGCTGGCCCGATTTCATGCGCATCAACCCACTG
 CTGGACTGGACCTACAGAGACATCTGGGATTTCTGCGTCAGCTGTTTGTCCCATACTGTATCCTGTATG
 ACCGAGGATACACATCACTGGGGAGTCGGGAGAATACCGTGCGGAACCCGGCCCTGAAGTGCCTGAGCCC
 AGGAGGACACCCACATACCGTCCAGCCTACTACTGGAGAACGAAGAAGAGGAGCGGAAGTCCCGCACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207083 protein sequence
 Red=Cloning site Green=Tags(s)

MTSRASELSPGRSVTAGIIIVGDEILKGHTQDNTFFLCRTLRLSLGVQVCRVSVVPDEVATIAAEVTSFS
 NRFTHVLTAGGIGPTHDDVTFEAVAQAFGDELKPHPKLEAATKALGGEGWEKLSLVPSSARLHYGTDPC
 GQPFPRFPLVSVRNYYLFPGIPELLRRVLEGMKGLFQNPVAVQFHSKELYVAADEASIAPIIAEAQAHFRR
 LGLGSDWGSNYYQVKLTLDSEEEGLEECLAYLTARLPQGS�VPYMPNAVEQASEAVYKLAESGSSLG
 KKVAGALQTIETSLAQYSLTQLCVFNGGKDCTALLHLFHAAVQRKLPDVPNPLQILYIRSI SPFPELEQ
 FLQDTIKRYNLQMLEAEGSMKQALGELQARHPQLEAVLMGTRRTDPYSCSLCPFSPDPGWPAFMRINPL
 LDWYTRDIWDFLRQLFVPYICILYDRGYTSLGSDRENTVRNPALKCLSPGGHPTYRPAYLLENEEEERSRT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6334_f09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_201398

ORF Size: 1470 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_201398.3](#)
RefSeq Size: 1816 bp

RefSeq ORF: 1473 bp

Locus ID: 80308

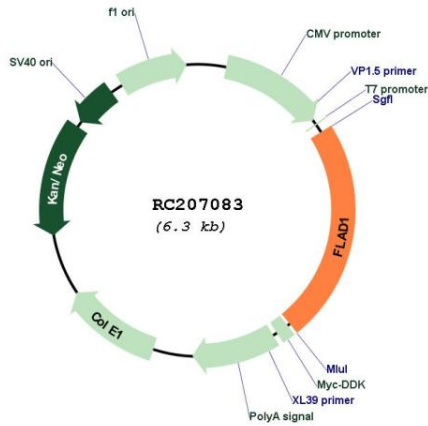
UniProt ID: [Q8NFF5](#)
Cytogenetics: 1q21.3

Protein Pathways: Metabolic pathways, Riboflavin metabolism

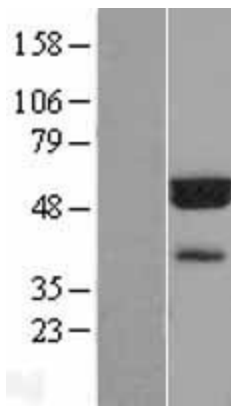
MW: 54.2 kDa

Gene Summary: This gene encodes the enzyme that catalyzes adenylation of flavin mononucleotide (FMN) to form flavin adenine dinucleotide (FAD) coenzyme. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

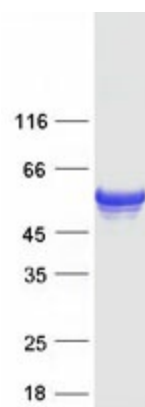
Product images:



Circular map for RC207083



Western blot validation of overexpression lysate (Cat# [LY404527]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207083 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FLAD1 protein (Cat# [TP307083]). The protein was produced from HEK293T cells transfected with FLAD1 cDNA clone (Cat# RC207083) using MegaTran 2.0 (Cat# [TT210002]).