

Product datasheet for **SC310239**

FLAD1 (NM_025207) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FLAD1 (NM_025207) Human Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >SC310239 representing NM_025207.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGGGTGGGATTTGGGAACACGTTTATCCAGAGGCAGGAACAAAGGAGTCGTTGTCAAGGATCTGG
TTAGAGAAGACTAGGGTCTTCCCTCGAACGAGCACGCGCACGCTGCTCTCCCCATTGTCTTTCTGG
CTTCTCCAGGTTCCCTCGACCCAGGACCCCTGTTCCAGGCTATGGCCCCAGTGCCCTGTAGACCTG
GCAGGCCCCCCGTGCTTGCAGCCCTATTTGGGGTCTGGTGGCTACTGGAGGGCTTGACAGAGGGC
AGAGAAGGCAGGACCATGACATCTAGGGCTCTGAACTTCTCCGGGGCGCAGCGTGACGGCTGGCCTC
ATCATTGTTGGAGATGAGATCCTTAAGGGACACTCAGGACACCAACACCTTCTTTCTGTGCCGGACA
CTGCGCTCCCTAGGGTCCAGGTTTGGCAGTCTCAGTTGTACCTGATGAGGTAGCCACCATTGCAGCT
GAGGTCACTTCTTCTCCAACCGCTTACCCATGCTCTCACAGCAGGGGGCATCGCCCCACTCATGAT
GATGTGACCTTTGAGGCAGTGGCACAGGCTTTGGAGATGAGCTGAAGCCACACCCCAAGTTGGAAGCA
GCCACCAAGCCCTAGGAGGGGAAGGCTGGGAGAAGCTATCATTGGTGCCTCTCTGCCCGCTGCAT
TATGGCACAGATCCTTGCACTGGTCAACCTTTCAGATTCCCTCTGGTCTCCGTCCGAAACGTCTACCTC
TTCCAGGCATTCCAGAGCTGCTGCGGGGGTGTGGAGGGGATGAAGGGACTATTCAAAAACCCAGCT
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GCCAGGCCCACTTTGGACGTAGGCTTGGCTGGGTTCTACCCTGACTGGGGCAGCAACTACTATCAG
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CTCGTGAATCAGGGTCTTCTTTGGGAAAAAGGTGGCAGTGCCCTACAGACATTGAGACCTCCCTG
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CTCTTCCATGCAGCTGTGCAGAGGAAATTACCTGATGTTCCAAACCCCTCCAGATCCTGTATATCCGC
AGCATCTCCCCTTCCCTGAGCTGGAACAGTTTCTACAGGACACTATCAAGAGGTATAATCTGCAGATG
TTGAAGCTGAGGGCAGCATGAAGCAGGCCCTGGGTGAACTGCAGGCACGGCACCCCCAGCTGGAGGCT
GTCCTTATGGGCACCCGCCGACTGACCCCTACTCCTGTAGCCTCTGCCCTTTCAGCCCCACTGACCCA
GGCTGGCCCGATTATGCGCATCAACCCACTGCTGGACTGGACCTACAGAGACATCTGGGATTTCTG
CGTCAGCTGTTTGTCCATACTGTATCCTGTATGACCGAGGATACACATCACTGGGGAGTCGGGAGAT
ACCGTGGGAACCCGGCCCTGAAGTGCCTGAGCCAGGAGGACACCCACATACCGTCCAGCCTATCA
CTGGAGAACGAAGAAGAGGAGCGGAACCTCCCGCACATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_025207
- Insert Size:** 1764 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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:	<ol style="list-style-type: none">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:	<u>NM_025207.4</u>
RefSeq Size:	2260 bp
RefSeq ORF:	1764 bp
Locus ID:	80308
UniProt ID:	<u>Q8NFF5</u>
Cytogenetics:	1q21.3
Domains:	MoCF_biosynth
Protein Pathways:	Metabolic pathways, Riboflavin metabolism
MW:	65.3 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest protein (isoform 1).</p>