

## Product datasheet for **SC324195**

### FLAD1 (NM\_201398) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FLAD1 (NM_201398) Human Untagged Clone
Tag:	Tag Free
Symbol:	FLAD1
Synonyms:	FAD1; FADS; LSMFLAD; PP591
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_201398.1  
 GAACAAGGAAAGAGCCGGTGAAGGGCAGAACAGGCAGGTTCCCTCGACCCAGGACCCC  
 CTGTTCCAGGCTATGGCCCCAGTGCCCTGTAGACCTGGCAGGCCCCCGTGCTTGCGA  
 CCCCTATTTGGGGTCTGGGTGGCTACTGGAGGGCCTTGACAGAGGGGCAGAGAAGGCAGG  
 ACCATGACATCTAGGGCTCTGAACTTTCTCCGGGGCGCAGCGTGACGGCTGGCATCATC  
 ATTGTTGGAGATGAGATCCTTAAGGGACACACTCAGGACACCAACACCTTCTTTCTGTGC  
 CGGACACTGCGCTCCCTAGGGTCCAGGTTTCCGAGTCTCAGTTGTACCTGATGAGGTA  
 GCCACCATTGCAGCTGAGGTCACTTCTTTCTCCAACCGCTTACCCTATGCCTCACAGCA  
 GGGGCATCGGCCCACTCATGATGATGTGACCTTTGAGGCAGTGGCACAGGCCTTTGGA  
 GATGAGCTGAAGCCACACCCCAAGTTGGAAGCAGCCACCAAAGCCCTAGGAGGGGAAGGC  
 TGGGAGAAGCTATCATTGGTGCCCTCCTCTGCCCGCTGCATTATGGCACAGATCCTTGC  
 ACTGGTCAACCTTTCAGATTCCCTCTGGTCTCCGTCCGAAACGTCTACCTCTTCCAGGC  
 ATTCAGAGCTGTGCGGCGGTGCTGGAGGGGATGAAGGGACTATCCAAAACCCAGCT  
 GTTCAGTTCACCTCAAAGGAGCTATATGTGGCTGCTGATGAAGCCTCCATCGCCCCATT  
 CTGGCTGAGGCCAGGCCACTTTGGACGTAGGCTTGGCTGGGTTCCTACCCTGACTGG  
 GGCAGCACTACTATCAGGTGAAGCTGACTCTAGACTCAGAGGAAGAAGGACCCCTGGAG  
 GAATGCTTGGCCCTACCTGACTGCCCGTTTGCCCAAGGGATCGCTGGTCCCTACATGCC  
 AACGCTGTGGAGCAGGCCAGTGAGGCTGTATACAACTCGCTGAATCAGGGTCTTCTTTG  
 GGGAAAAGGTGGCAGGTGCCCTACAGACCATTGAGACCTCCCTGGCTCAGTACAGCCTC  
 ACCCAGCTCTGTGTGGGCTTCAACGGGGCAAAGACTGCACTGCCCTCCTGCACCTCTTC  
 CATGCAGCTGTGCAGAGGAAATTACCTGATGTTCCAAACCCCTCCAGATCCTGTATATC  
 CGCAGCATCTCCCTTTCCCTGAGCTGGAACAGTTTCTACAGGACACTATCAAGAGGTAT  
 AATCTGCAGATGTTGGAAGCTGAGGGCAGCATGAAGCAGGCCCTGGGTGAACTGCAGGCA  
 CGGCACCCAGCTGGAGGCTGTCTTATGGGCACCCGCGGACTGACCCCTACTCCTGT  
 AGCCTCTGCCCTTTCAGCCCACTGACCCAGGCTGGCCCGCATTATGCGCATCAACCCA  
 CTGCTGGACTGGACCTACAGAGACATCTGGGATTTTCTGCGTCAGCTGTTTGTCCATAC  
 TGTATCCTGTATGACCGAGGATACACATCACTGGGGAGTGGGAGAATACCGTGCAGAAC  
 CCGGCCCTGAAGTGCCTGAGCCCAGGAGGACACCCACATACCGTCCAGCCTATCTACTG  
 GAGAACGAAGAAGAGGAGCGGAACTCCCGCACATGACCTCCACCCTAGGAGGGAGGGAA  
 GGACACCGTCTAGGATATAACCTGGCAATAAACCGTGCCTCTCACTGTGAAAAAAAAA  
 AAAAAAAAAAAAAAAAAA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_201398

**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:**

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\\_201398.1](#), [NP\\_958800.1](#)

**RefSeq Size:** 1774 bp

**RefSeq ORF:** 1473 bp

**Locus ID:** 80308

**UniProt ID:** [Q8NFF5](#)

**Cytogenetics:** 1q21.3

**Protein Pathways:** Metabolic pathways, Riboflavin metabolism

**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]  
Transcript Variant: This variant (2) differs in the 5' UTR and uses a downstream start codon, compared to variant 1. The resulting protein (isoform 2) has a shorter N-terminus compared to isoform 1.