

## Product datasheet for **SC328736**

### FLAD1 (NM\_001184891) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FLAD1 (NM_001184891) Human Untagged Clone
Tag:	Tag Free
Symbol:	FLAD1
Synonyms:	FAD1; FADS; LSMFLAD; PP591
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001184891, the custom clone sequence may differ by one or more nucleotides

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ATGACATCTAGGCCTCTGAACCTTCTCCGGGGCGCAGCGTGACGGCTGGCATCATCATT
GTTGGAGATGAGATCCTTAAGGGACACACTCAGGACACCAACACCTTCTTTCTGTGCCGG
ACACTGCGCTCCCTAGGGGTCCAGGTTTGCCGAGTCTCAGTTGTACCTGATGAGGTAGCC
ACCATTGCAGCTGAGGTCACTTCTTTCTCCAACCGCTTCACCCATGTCCTCACAGCAGGG
GGCATCGGCCCACTCATGATGATGTGACCTTTGAGGCAGTGGCACAGGCCTTTGGAGAT
GAGCTGAAGCCACACCCCAAGTTGGAAGCAGCCACCAAGCCCTAGGAGGGGAAGGCTGG
GAGAAGCTATCATTGGTGCCTCCTCTGCCCGCTGCATTATGGCACAGATCCTTGCACT
GGTCAACCTTTTCCAGATTCCTCTGGTCTCCGTCCGAAACGTCTACCTCTTCCCAGGCATT
CCAGAGCTGCTGCGGCGGTGCTGGAGGGGATGAAGGGACTATTCCAAAACCCAGCTGTT
CAGTTCCACTCAAAGGAGCTATATGTGGCTGCTGATGAAGCCTCCATCGCCCCATTCTG
GCTGAGGCCCAAGGCCACTTTGGACGTAGGCTTGGCCTGGGTTCCTACCTGACTGGGGC
AGCAACTACTATCAGGTGAAGCTGACTCTAGACTCAGAGGAAGAAGGACCCCTGGAGGAA
TGCTTGGCCTACCTGACTGCCGTTTGCCCCAGGGATCGCTGGTCCCCTACATGCCAAC
GCTGTGGAGCAGGCCAGTGAGGCTGTATACAACTCGTGAATCAGGGTCTTCTTTGGGG
AAAAAGGTGGCAGGTGCCCTACAGACCTTGGACCTCCCTGGCTCAGTACAGCCTCACC
CAGCTCTGTGTGGGCTTCAACGGGGCAAGACTGCACTGCCCTCCTGCACCTCTTCCAT
GCAGCTGTGCAGAGGAAATTACCTGATGTTTCAAACCCCTCCAGATCCTGTATATCCGC
AGCATCTCCCCTTCCCTGAGCTGGAACAGTTTCTACAGGACACTATCAAGAGGTATAAT
CTGCAGATGTTGGAAGCTGAGGGCAGCATGAAGCAGGCCCTGGGTGAACTGCAGGCACGG
CACCCCCAGCTGGAGGCTGTCCTTATGGGCACCCGCGGACTGACCCCTACTCCTGTAGC
CTCTGCCCTTTCAGCCCCACTGACCCAGGCTGGCCCGCATTTCATGCGCATCAACCCACTG
CTGGACTGGACCTACAGAGACATCTGGGATTTTCTGCGTCAGCTGTTTGTCCCACTGT
ATCCTGTATGACCGAGGGTAA

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Restriction Sites: Please inquire



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<b>ACCN:</b>	NM_001184891
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001184891.1, NP_001171820.1</u>
<b>RefSeq Size:</b>	1931 bp
<b>RefSeq ORF:</b>	1341 bp
<b>Locus ID:</b>	80308
<b>UniProt ID:</b>	<u>Q8NFF5</u>
<b>Cytogenetics:</b>	1q21.3
<b>Protein Pathways:</b>	Metabolic pathways, Riboflavin metabolism
<b>Gene Summary:</b>	<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 (3) differs in its 5' and 3' ends and uses a downstream start codon, compared to variant 1. The resulting protein (isoform 3) has a shorter N-terminus and a distinct and shorter C-terminus when it is compared to isoform 1.</p>