

## Product datasheet for **RG207083**

### **FLAD1 (NM\_201398) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FLAD1 (NM_201398) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FLAD1
Synonyms:	FAD1; FADS; LSMFLAD; PP591
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207083 representing NM\_201398  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACATCTAGGGCCTCTGAACCTTCTCCGGGGCGCAGCGTGACGGCTGGCATCATCATTGTTGGAGATG  
 AGATCCTTAAGGGACACACTCAGGACACCAACACCTTCTTTCTGTGCCGGACACTGCGCTCCCTAGGGGT  
 CCAGGTTTGCCGAGTCTCAGTTGTACCTGATGAGGTAGCCACCATTGCAGCTGAGGTCACCTTCTTTCTCC  
 AACCGCTTCACCCATGTCTCACAGCAGGGGGCATCGGCCCACTCATGATGATGTGACCTTTGAGGCAG  
 TGGCACAGGCCTTTGGAGATGAGCTGAAGCCACACCCCAAGTTGGAAGCAGCCACCAAAGCCCTAGGAGG  
 GGAAGGCTGGGAGAAGCTATCATTGGTGCCTCCTCTGCCCGCTGCATTATGGCACAGATCCTTGCACT  
 GGTCAACCTTTCAGATCCCTCTGGTCTCCGTCGAAACGTCTACCTCTCCAGGCATTCCAGAGCTGC  
 TCGGGCGGGTCTGGAGGGGATGAAGGGACTATCCAAAACCCAGCTGTTCCAGTCCACTCAAAGGAGCT  
 ATATGTGGCTGCTGATGAAGCCTCCATCGCCCCATTCTGGCTGAGGCCAGGCCACTTTGGACGTAGG  
 CTTGGCCTGGGTTCTACCTGACTGGGGCAGCACTACTATCAGGTGAAGCTGACTCTAGACTCAGAGG  
 AAGAAGGACCCCTGGAGGAATGCTTGGCCTACCTGACTGCCCGTTTGGCCAGGGATCGCTGGTCCCTTA  
 CATGCCAACCGCTGTGGAGCAGGCCAGTGAGGCTGTATACAACTCGCTGAATCAGGGTCTTCTTTGGGG  
 AAAAAGGTGGCAGGTGCCCTACAGACCTTACAGACCTCCCTGGCTCAGTACAGCCTCACCCAGCTGTG  
 TGGGCTTCAACGGGGGCAAAGACTGCACTGCCCTCCTGCACCTTCCATGCAGCTGTGCAGAGGAAATT  
 ACCTGATGTTCCAAACCCCTCCAGATCCTGTATATCCGAGCATCTCCCTTTCCCTGAGCTGGAACAG  
 TTTCTACAGGACACTATCAAGAGGTATAATCTGCAGATGTTGGAAGCTGAGGCAGCATGAAGCAGGCC  
 TGGGTAACTGCAGGCACGGCACCCCACTGGAGGCTGCTTATGGGCACCCGGCCGACTGACCCCTA  
 CTCTGTAGCCTCTGCCCTTTCAGCCCCACTGACCCAGGCTGGCCGCATTTCATGCGCATCAACCCACTG  
 CTGGACTGGACCTACAGAGACATCTGGATTTTCTGCGTCAGCTGTTTGTCCATACTGTATCCTGTATG  
 ACCGAGGATACACATCACTGGGGAGTCGGGAGAATACCGTGCGGAACCCGGCCCTGAAGTGCCTGAGCCC  
 AGGAGGACACCCACATACCGTCCAGCCTACTACTGGAGAACGAAGAAGAGGAGCGGAACCTCCCGACA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG207083 representing NM\_201398  
 Red=Cloning site Green=Tags(s)

MTSRASELSPGRSVTAGIIIVGDEILKHTQDNTNFFLCRTLRLSLGVQVCRVSVVPDEVATIAAEVTSFS  
 NRFTHVLTAGGIGPTHDDVTFEAVAQAFGDELKPHPKLEAATKALGGEGWEKLSLVPSSARLHYGTDPC  
 GQPFRRFPLVSVRNVYLFPGIPELLRRVLEGMKGLFQNPVAVQFHSKELYVADEASIAPIIAEAQAHFGRR  
 LGLGSYPDWGSNYQVQLTLDSEEEGLEECLAYLTARLPQGSVPYMPNAVEQASEAVYKLAESGSSLG  
 KKVAGALQTIETSLAQYSLTQLCVGFNGKDCTALLHLFHAAVQRKLPDVPNPLQIILYIRISPFPELEQ  
 FLQDTIKRYNLQMLEAEGSMKQALGELQARHPQLEAVLMGTRRTDPYSCSLCPFSPDPGWPAFMRINPL  
 LDWYRDIWDFLRQLFVPYICILYDRGYTSLGSRNTVRNPALKCLSPGGHPTYPAYLLENEEEERSRT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**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:** 1774 bp

**RefSeq ORF:** 1473 bp

**Locus ID:** 80308

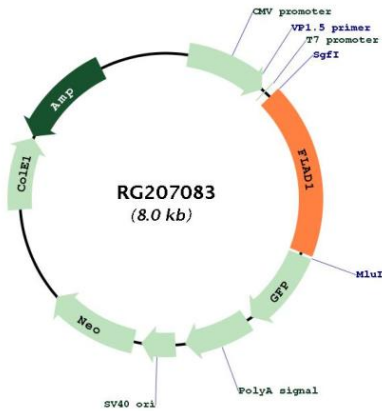
**UniProt ID:** [Q8NFF5](#)

**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]

**Product images:**



Circular map for RG207083