

## Product datasheet for **RG229845**

### FLAD1 (NM\_001184892) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FLAD1 (NM\_001184892) 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)  
**ORF Nucleotide Sequence:** >RG229845 representing NM\_001184892  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGCAGCCATCATCTTCAACCCCTCCCCTTCATCCCTACAGTACTGATGGCCTCATCTTCCCCTTCAACC  
CCCAGGGACACTCAGGACACCAACACCTTCTTTCTGTGCCGGACTGCGCTCCCTAGGGGTCCAGGT  
TTGCCGAGTCTCAGTTGTACCTGATGAGGTAGCCACCATTCAGCTGAGGTCACCTTTCTCCAACCGC  
TTCACCCATGTCCTCACAGCAGGGGCATCGGCCCACTCATGATGATGTGACCTTTGAGGCAGTGGCAC  
AGGCCTTTGGAGATGAGCTGAAGCCACACCCCAAGTTGGAAGCAGCCACCAAGCCCTAGGAGGGGAAGG  
CTGGGAGAAGCTATCATTGGTGCCTCCTCTGCCCGCTGCATTATGGCAGATCCTTGCAGTGGTCAA  
CCTTTCAGATTCCCTCTGGTCTCCGTCCGAAACGTCTACCTTCCCAGGCATTCAGAGCTGCTGCGGC  
GGGTGCTGGAGGGGATGAAGGGACTATCCAAAACCCAGCTGTTTCAGTCCACTCAAAGGAGCTATATGT  
GGCTGCTGATGAAGCCTCCATCGCCCCATTCTGGCTGAGGCCAGGCCACTTTGGACGTAGGCTTGGC  
CTGGGTTCCCTACCTGACTGGGGCAGCAACTACTATCAGGTGAAGCTGACTTAGACTCAGAGGAAGAAG  
GACCCCTGGAGGAATGCTTGGCCTACCTGACTGCCCGTTGCCAGGGATCGCTGGTCCCCTACATGCC  
CAACGCTGTGGAGCAGGCCAGTGAAGGCTGTATACAACTCGCTGAATCAGGTAGGGACCTTATGGAGGAG  
GGCATTATGCCCAAAGCCATTGGTGGCACCCAGATCTCAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229845 representing NM\_001184892  
 Red=Cloning site Green=Tags(s)

MQPSSSTPPLHPYSTDGLIFPFNPQGHTQDTNTFFLCRTLRLSLGVQVCRVSVVPDEVATIAAEVTSFSNR  
 FTHVLTAGGIGPTHDDVTFEAVAQAFGDELKPHPKLEAATKALGGEGWEKLSLVPSSARLHYGTDPCGTGQ  
 PFRFPLVSVRNVYLFPGIPELLRRVLEGMKGLFQNPVQVFHSKELYVAADEASIAPI LAEAQAHFGRRLG  
 LGSYPDWGSNYQVKLTLDSEEEGPLLEECLAYLTARLPQGS LVPYMPNAVEQASEAVYKLAESGRDLMEE  
 GHYAQSHWWHPRSQ

TRTRPLE - GFP Tag - V

**Restriction Sites:**

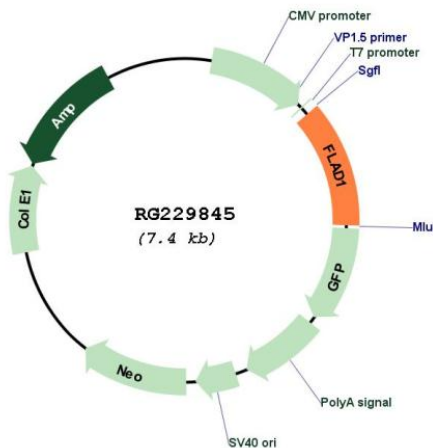
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001184892

**ORF Size:** 882 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001184892.2</a>
<b>RefSeq Size:</b>	1911 bp
<b>RefSeq ORF:</b>	885 bp
<b>Locus ID:</b>	80308
<b>UniProt ID:</b>	<a href="#">Q8NFF5</a>
<b>Cytogenetics:</b>	1q21.3
<b>Protein Pathways:</b>	Metabolic pathways, Riboflavin metabolism
<b>Gene Summary:</b>	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]