

## Product datasheet for **SC307517**

### EGFLAM (NM\_182798) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EGFLAM (NM_182798) Human Untagged Clone
Tag:	Tag Free
Symbol:	EGFLAM
Synonyms:	AGRINL; AGRNL; PIKA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC307517 representing NM\_182798.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCATCCAGGCCCTGAGGAGCGGGAAGTGGCCGCTATGGACCCGTTATATCACCGACATGGGAGCT
GGTGAGGATGATGAAGGATTTGAAGACGACTTAGATTTGGATATTTCTTTGAGGAGGTTAAACCACTT
CCTGCTACCAAAGGAGGAATAAGAAATTTTGGTGAAAGCAAGAAGATGTCTATATCTAACCCAAAG
ACCATTTCTAGGCTCATCCCCCTACCTCAGCATCTCTCCCTGTGACCACGGTGGCTCCCCAGCCATT
CCCATACAGAGAAAGGGGAAGAATGGTGTGGCCATAATGTCAAGGCTCTTTGACATGCCTTGTGATGAA
ACTCTCTGCTCTGCTGACAGCTTCTGTGTCAATGACTACACCTGGGGGGGCTCGCGATGCCAGTGCACC
CTGGGCAAAGGTGGTGAAGCTGCTCAGAAGATATTGTTATCCAGTATCCTCAGTCTTTGGCCACTCC
TATGTAACGTTTGAACCTCTGAAGAATCTTATCAGGCATTTCAAATTACTCTTGAATTTAGGGCGGAG
GCAGAGGATGGCTTACTGCTCTACTGTGGGAGAACGAACACGGGAGGGGGGATTCATGTCCTGGCT
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GATGCTTTCACCTTGACCATTCTCAGTTCAGAGAGTCTCTGAGATCTTACGCTGCAACTCCCTGGCCA
CTGGAGCCCCAGCATTACCTTTCTTTCATGGAATTTGAGATCACATTTGCGCCAGACTCAGGAGATGGT
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GAGGGAATGGCAGAGGGAGGCTTACACAGATTAAGTGAACACAGACATTTTCATTGGCGGAGTCCCC
AATTATGATGATGTGAAGAAGAACTCGGGTGTCTGAAGCCTTTCAGCGGGAGCATCCAGAAGATCATC
CTGAATGACCGAACCATCCATGTGAAGCATGACTTCACTCCGGAGTGAATGTGGAGAATGCGGCCAC
CCCTGTGTGAGAGCCCTTGTGCCATGGGGCAGCTGCCGCCAGGAAGGAGGGCTATGACTGTGAC
TGCCCCCTTGGGCTTTGAGGGCTTCACTGCCAGAAAGCGATCATAGAAGCCATTGAGATCCCGCAGTTT
ATCGGCCGAGTTACCTGACGTATGACAACCCAGATATCTTGAAGAGGGTGTGAGGATCAAGATCAAAT
GTGTTTCATGAGGTTTAAACAACCTGCCAAGGATGGCCTTTTGTGTGGAGGGGAGACAGCCCCATGAGA
CCCAACAGCGACTTCATTTCTTGGGCCTTCGGGATGGAGCCCTCGTGTTTCACTATAACCTGGGCAGT
GGTGTGGCATCCATCATGGTGAATGGCTCCTTCAACGATGGTCCGGTGGCACCAGTAAAGCCGTTAGG
GATGGCCAGTCAGGAAAGATAACCGTGGATGACTATGGAGCCAGAACAGGCAAATCCCCAGGCATGATG
CGGCAGCTAACATCAATGGAGCTCTGTATGTGGGTGGAATGAAGGAAATGCTCTGCACACTAACAGG
CAATATATGAGAGGGCTCGTGGGCTGTATCTCTCACTTCAACCCTGTCCACCGATTACCACATTTCCCTC
GTGGAAGATGCCGTGGATGGGAAAAACATCAACACTTGTGGAGCCAAGTAA
ACGCGTACGCGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:** □

**ACCN:** NM\_182798

**Insert Size:** 2328 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:**

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\\_182798.2](#)

**RefSeq Size:** 4172 bp

**RefSeq ORF:** 2328 bp

**Locus ID:** 133584

**UniProt ID:** [Q63HQ2](#)

**Cytogenetics:** 5p13.2-p13.1

**Protein Families:** Transmembrane

**MW:** 84.8 kDa

**Gene Summary:** Involved in both the retinal photoreceptor ribbon synapse formation and physiological functions of visual perception. Necessary for proper bipolar dendritic tip apposition to the photoreceptor ribbon synapse. Promotes matrix assembly and cell adhesiveness (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.