

Product datasheet for **RG216705**

EGFLAM (NM_182798) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EGFLAM (NM_182798) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EGFLAM
Synonyms:	AGRINL; AGRNL; PIKA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG216705 representing NM_182798
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATCCAGGCCCTGAGGAGGCGGAAGTGGCCGCTATGGACCCGTTATATCACCGACATGGGAGCTG
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

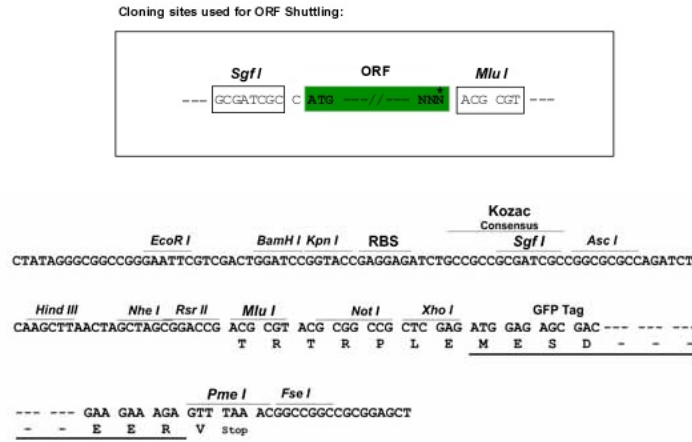
Protein Sequence: >RG216705 representing NM_182798
 Red=Cloning site Green=Tags(s)

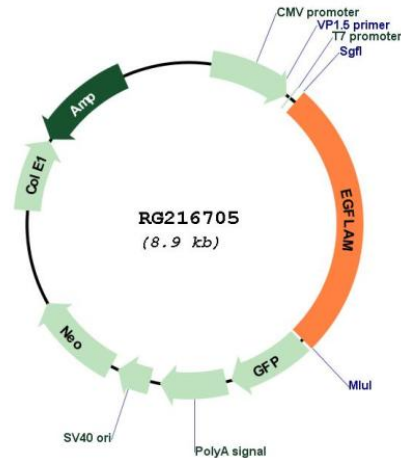
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 KGGESCSEDIVIQYPQFFGHSHYVTFEPLKNSYQAFQITLFRFAEAEDGLLLYCGENEHGRGDFMSLAIIR
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 ADSYICLCPGLGFKGRHCEDAFTLTIPQFRESLRSYAATPWPLEPQHYSFMFEFITFRPDSGDGVLLYSY
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 FTQIKCNTDIFIGGVPNYDDVKKNSGVLKPFSGSIQKIIINDRTIHVKHDFTSGVNVENAAHPCVRAPCA
 HGGSCRPRKEGYDCDCPLGFEGHLHCQKAIIEAIEIPQFIGRSYLYDNPDIKRVSGSRSNVFMRFKTTA
 KDGLLLWRGDSMPMRPNSDFISLGLRDGALVFSYNLGSVASIMVNGSFNDGRWHRVKA VRDQSGKITVD
 DYGARTGKSPGMMRQLNINGALYVGGMKEIALHTNRQYMRGLVGCISHFTLSTDYHISLVEDAVDGNKIN
 TCGAK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_182798

ORF Size: 2325 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_182798.3](#)

RefSeq Size: 4142 bp

RefSeq ORF: 2328 bp

Locus ID: 133584

UniProt ID: [Q63HQ2](#)

Cytogenetics: 5p13.2-p13.1

Protein Families: Transmembrane

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]