

Product datasheet for **RG233191**

EGFLAM (NM_001205301) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EGFLAM (NM_001205301) 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)
ORF Nucleotide Sequence:	>RG233191 representing NM_001205301 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTTAATCCGAGGCGTCTTGCTCCGGCTCCTGCTCCTGGCTTCCAGCCTCGGACCCGGCGGGTGT
CGCTCCGAGCGGCCATCCGAAAACAGGCAAGGTAGGGCTCCTCTTGACATCAAGCTGGGCGCATTGAA
CTGTACGGCTTTCAGCATCCAGTGGAAAATGCCAAGGCATCCTGGAAGTCCCATCCTTGGGTACTGTC
TTTTACTCTGAGGTTGGCGCAGATAAATCCCTGCAGGAGCAGTTGCACAGCGTGCCTCTCAGCCGGGACA
TCCCGACCACGGAGGAAGTGATTGGAGATTTGAAACAGGCACTGAATATCGTGTGAGCATAGCAGCTTA
CAGCCAGGCTGGCAAAGGCGGCTGAGCTCTCCTCGGCATGTCAACACTTGTCCCAAGATTCCTGCCTG
CCTCCTGCAGCTCCCCAGCAGCCACATGTATTGTGGTTTCGGATTCTGAGGTGGCCCTGTCTTGAAAC
CTGGAGCGAGTGAAGGAAGCGCCCTATTCACTACTATTCTGTGGAATTCATCAGGCCAGATTCGACAA
GAAGTGGACCTCAATCCATGAGCGGATCCAGATGGACTCCATGGTTATCAAGGCGCTCGATCCAGATACC
AACTACCAGTTTGCCTGAGGGCAATGAATCCCATGGCCCCAGCCCCGAGCTGGCCAGTGACATCA
TCCGGACCCTCTGCCCTGAGGAGCGGGAAGTGGCCGCTATGGACCCGTTATATCACCGACATGGGAGC
TGGTGAGGATGATGAAGGATTTGAAGACGACTTAGATTTGGATATTTCTTTGAGGAGGTTAAACCACTT
CCTGCTACCAAAGGAGGAATAAGAAATTTTGGTGGAAAGCAAGAAGATGTCTATCTAACCCAAAGA
CCATTTCTAGGCTCATCCCCCTACCTCAGCATCTCTCCCTGTGACCACGGTGGCTCCCCAGCCATTCC
CATAACAGAAAAGGGAAGAATGGTGTGCCAATATGTCAAGGCTCTTTGACATGCCTTGTGATGAAACT
CTCTGCTCTGCTGACAGCTTCTGTGCAATGACTACACCTGGGGGGCTCGCGATGCCAGTGACCCCTGG
GCAAAGGTGGTGAGAGCTGCTCAGAAGATATTGTTATCCAGTATCCTCAGTTCTTTGGCCACTCCTATGT
AACGTTTGAACCTCTGAAGAATTCTATCAGGCATTTCAAATTACTCTTGAATTTAGGGCGGAGGCAGAG
GATGGCTTACTGCTCTACTGTGGGAGAACGAACAGGGAGGGGGATTTTCATGTCCTGGCTATCATCC
GACGCTCCCTGCAGTTCAGGTTTAAATTGTGGAACCTGGGTTGCCATCATCGTAAGTGAGACAAAATCAA
ACTAGGGGTTGGCACACGGTTATGCTCTACAGAGATGGGCTGAACGGGCTGCTGCAGCTGAACAATGGC



[View online >](#)

ACCCCAGTGACAGGCCAGTCTCAGGGCCAATACAGTAAAATTACTTTCCGGACACCTCTCTATCTTGGTG
 GCGCTCCCAGCGCTTACTGGTTGGTTAGAGCAACAGGGACAAACCGAGGCTTTCAAGGCTGTGTGCAGTC
 GCTCGCTGTGAATGGGAGGAGAATTGACATGAGGCCCTGGCCCTGGGAAAAGCACTCAGTGGGGCTGAT
 GTGGGGGAATGCAGCAGTGAATCTGTGATGAGGCCTCGTGATCCATGGTGGCACCTGCACAGCAATCA
 AAGCCGACTCTACATTTGCCTCTGTCCCTTGGGTTTAAAGTGCACACTGTGAAGATGCTTTACCTT
 GACCATTCCTCAGTTCAGAGAGTCTCTGAGATCTTACGCTGCAACTCCCTGGCCACTGGAGCCCCAGCAT
 TACCTTTCTTTCATGGAATTTGAGATCACATTTTCGCCCAGACTCAGGAGATGGTGTCTCCTGTACAGCT
 ATGACACAGGCAGCAAAGACTTCTGTCCATCAACTTGGCAGGGGGCCAGTGGAGTTCCGCTTTGACTG
 TGGCTCTGGGACCGGTGTCTCAGGAGTGAAGATCCCCTCACCTGGGCAACTGGCACGAGCTTCGTGTA
 TCTCGCACAGCAAAGAATGGAATCTTACAGGTGGATAAGCAGAAGATAGTGGAGGAATGGCAGAGGGAG
 GCTTCACACAGATTAAGTGAACACAGACATTTTCATTGGCGGAGTCCCCAATTATGATGATGTGAAGAA
 GAACTCGGGTGTCTGAAGCCTTTCAGCGGGAGCATCCAGAAGATCATCTGAATGACCGAACCATCCAT
 GTGAAGCATGACTTACCTCCGGAGTGAATGTGGAGAATGCGGCCACCCCTGTGTGAGAGCCCCTGTG
 CCCATGGGGCAGCTGCCGGCCAGGAAGGAGGCTATGACTGTGACTGCCCTTGGGCTTTGAGGGGCT
 TCACTGCCAGAAAGAGTGTGGAACTACTGCCTCAATACGATCATAGAAGCCATTGAGATCCCGCAGTTT
 ATCGGCCCGAGTTACCTGACGTATGACAACCCAGATATCTTGAAGAGGGTGTGAGATCAAGATCAAATG
 TGTTTCATGAGGTTTAAAACAACCTGCCAAGGATGGCCTTTTGTGTGGAGGGGAGACGCCCATGAGACC
 CAACAGCGACTTCATTTCTTGGGCCTTCGGGATGGAGCCCTCGTGTTCAGCTATAACCTGGGCAGTGGT
 GTGGCATCCATCATGGTGAATGGCTCCTTCAACGATGGTCCGTGGCACCAGTAAAGCCGTTAGGGATG
 GCCAGTCAGGAAAGATAACCGTGGATGACTATGGAGCCAGAACAGGCAAAATCCCCAGGCATGATCGCGCA
 GCTTAACATCAATGGAGCTCTGTATGTGGGTGGAATGAAGGAAATGCTCTGCACACTAACAGGCAATAT
 ATGAGAGGGCTCGTGGGCTGTATCTCTCACTTACCCTGTCCACCGATTACCACATTTCCCTCGTGAAG
 ATGCCGTGGATGGGAAAAACATCAACACTTGTGGAGCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG233191 representing NM_001205301
 Red=Cloning site Green=Tags(s)

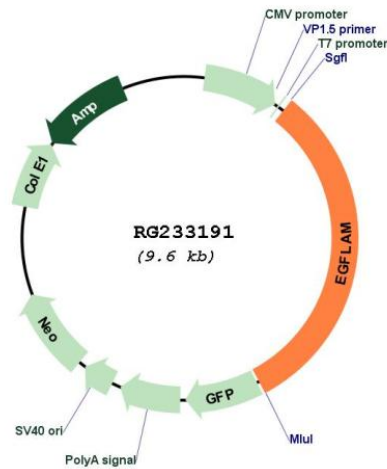
MDLIRGVLLRLLLLASSLGPVAVSLRAAIRKPGKVGPPDLIKLGNLCTAFSIQWKMPRHPGSPILGYTV
 FYSEVADKSLQQLHSVPLSRDIPTEEVIGDLKPGTEYRVSIAAYSQAGKGRLLSPRHVTTLSQDSCL
 PPAAPQQPHVIVVSDSEVALSWKPGASEGSAPIQYYSVEFIRPDFDKWTSIHERIQMDSMVIKGLDPT
 NYQFAVRAMNSHGSPRSWPSDIIRTLCPPEAGSGRYGPRYITDMGAGEDDEGFEDDLDLDISFEEVKPL
 PATKGGNKKFLVESKKMSISNPKTISRLLIPPTSASLPVTTVAPQPIPIQRKKGNGVAIMSRLFDMPCDET
 LCSADSFVNDYTWGSRQCCTLGKGGESCEDIVIQYPQFFGHSYVTFEPLKNSYQAFQITLFRFAEAE
 DGLLL YCGENEHGRGDFMSLAIIRSLQFRFNCGTGVAIIVSETKIKLGGWHTVMLYRDGLNLLQLNNG
 TPVTGQSQGYSKITFRTPLYLGGAPSAWLV RATGTNRGFQGCVQSLAVNGRRIDMRPWPLGKALSGAD
 VGECSGICDEASCIHGGTCTAIKADSYICLPLGFKGRHCEDAFTLTIPQFRESLSRYAATPWPLEPQH
 YLSFMFEITFRPDSGDVLLYSYDTGSKDFLSINLAGGHVEFRFDCGSGTGVLRSEDPLTLGNWHELRY
 SRTAKNGILQVDKQKIVEGMAEGGFTQIKCNTDIFIGGVPNYDDVKNSGVLKPFSGSIQKIILNDRTH
 VKHDFTSVNVENAAHPCVRAPCAHGGSCRPRKEGYDCDCPLGFEGHLCQKECGNYCLNTIIEAIEIPQF
 IGRSYLTYDNPDLKRVSGRSNVFMRFKTTAKDGLLLWRGDSMPMRNSDFISLGLRDGALVFSYNLGS
 VASIMVNGSFNDGRWHRVKA VRDQSGKITVDDYGARTGKSPGMMRQLNINGALYVGGMKEIALHTNRQY
 MRGLVGCISHFTLSTDYHISLVEDAVDGKNINTCGAK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001205301

ORF Size: 3051 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:	<ol style="list-style-type: none">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:	<u>NM_001205301.2</u>
RefSeq Size:	4894 bp
RefSeq ORF:	3054 bp
Locus ID:	133584
UniProt ID:	<u>Q63HQ2</u>
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]