

Product datasheet for **RG220450**

EGFLAM (NM_152403) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: EGFLAM (NM_152403) 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: >RG220450 representing NM_152403
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATTTAATCCGAGGCGTCTTGCTCCGGCTCCTGCTCCTGGCTTCCAGCCTCGGACCCGGCGGGTGT
 CGCTCCGAGCGGCCATCCGAAAACAGGCAAGGTAGGGCTCCTCTTGACATCAAGCTGGGCGCATTGAA
 CTGTACGGCTTTCAGCATCCAGTGGAAAATGCCAAGGCATCCTGGAAGTCCCATCCTTGGGTACACTGTC
 TTTTACTCTGAGGTTGGCGCAGATAAATCCCTGCAGGAGCAGTTGCACAGCGTGCCTCTCAGCCGGGACA
 TCCCGACCACGGAGGAAGTGATTGGAGATTTGAAACAGGCACTGAATATCGTGTGAGCATAGCAGCTTA
 CAGCCAGGCTGGCAAAGGGCGGCTGAGCTCTCCTCGGCATGTCACCACTTGTCCCAAGATTCCTGCCTG
 CCTCCTGCAGCTCCCCAGCAGCCACATGTCATTGTGGTTTCGGATTCTGAGGTGGCCCTGTCTTGAAAC
 CTGGAGCGAGTGAAGGAAGCGCCCTATTCACTACTATTCTGTGGAATTCATCAGGCCAGATTCGACAA
 GAAGTGGACCTCAATCCATGAGCGGATCCAGATGGACTCCATGGTTATCAAGGGCCTCGATCCAGATACC
 AACTACCAGTTTGGCGTGAGGGCAATGAATCCCATGGCCCCAGCCCCGAGCTGGCCAGTGACATCA
 TCCGGACCCTCTGCCCTGAGGAGCGGGAAGTGGCCGCTATGGACCCGTTATATCACCGACATGGGAGC
 TGGTGAGGATGATGAAGGATTTGAAGACGACTTAGATTTGGATATTTCTTTGAGGAGGTTAAACCACTT
 CCTGCTACCAAAGGAGGAATAAGAAATTTTGGTGGAAAGCAAGAAGATGCTATATCAACCCAAAGA
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 CATAACAGAAAAGGGAAGAATGGTGTGCCAATATGTCAAGGCTCTTTGACATGCCTTGTGATGAAACT
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 GCAAAGGTGGTGAGAGCTGCTCAGAAGATATTGTTATCCAGTATCCTCAGTTCTTTGGCCACTCCTATGT
 AACGTTTGAACCTCTGAAGAATTCTATCAGGCATTTCAAATTACTCTTGAATTTAGGGCGGAGGCAGAG
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 GACGCTCCCTGCAGTTCAGGTTTAAATTGTGGAACCTGGGTTGCCATCATCGTAAGTGAGACCAAAATCAA
 ACTAGGGGTTGGCACACGGTTATGCTCTACAGAGATGGGCTGAACGGGCTGCTGCAGCTGAACAATGGC



ACCCAGTGACAGGCCAGTCTCAGGGCCAATACAGTAAAATTACTTTCCGGACACCTCTCTATCTTGGTG
 GCGCTCCCAGCGCTTACTGGTTGGTTAGAGCAACAGGGACAAACCGAGGCTTCAAGGCTGTGTGCAGTC
 GCTCGTGTGAATGGGAGGAGAATTGACATGAGGCCCTGGCCCTGGGAAAAGCACTCAGTGGGGCTGAT
 GTGGGGGAATGCAGCAGTGAATCTGTGATGAGGCCTCGTGATCCATGGTGGCACCTGCACAGCAATCA
 AAGCCGACTCTACATTTGCCTCTGTCCCTTGGGTTTAAAGTGCACACTGTGAAGATGCTTTCACCTT
 GACCATTCCTCAGTTCAGAGAGTCTCTGAGATCTTACGCTGCAACTCCCTGGCCACTGGAGCCCCAGCAT
 TACCTTTCCCTTATGGAATTTGAGATCACATTTTCGGCCAGACTCAGGAGATGGTGTCTCCTGTACAGCT
 ATGACACAGGCAGCAAGACTTCTGTCCATCAACTTGGCAGGGGGCCAGTGGAGTTCGCTTTGACTG
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 GAACTCGGGTGTCTGAAGCCTTTCAGCGGGAGCATCCAGAAGATCATCTGAATGACCGAACCATCCAT
 GTGAAGCATGACTTACCTCCGGAGTGAATGTGGAGAATGCGGCCACCCCTGTGTGAGAGCCCCTGTG
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 GACAACCCAGATATCTTGAAGAGGGTGTGAGGATCAAGATCAAATGTGTTTCATGAGGTTTAAAACA
 CCAAGGATGGCCTTTTGTGTGGAGGGGAGACAGCCCATGAGACCCAACAGCGACTTCATTTCTTGGG
 CCTTCGGGATGGAGCCCTCGTGTTCAGCTATAACCTGGGCACTGGTGTGGCATCCATCATGGTGAATGGC
 TCCTTCAACGATGGTTCGGTGGCACCAGTAAAGGCCGTTAGGGATGGCCAGTCAAGAAAGATAACCGTGG
 ATGACTATGGAGCCAGAACAGGCAAAATCCCAGGCATGATGCGGCAGCTTAACATCAATGGAGCTCTGTA
 TGTGGGTGGAATGAAGGAAATGCTCTGCACACTAACAGGCAATATAGAGAGGGCTCGTGGGCTGTATC
 TCTCACTTACCCTGTCCACCGATTACCACATTTCCCTCGTGAAGATGCCGTGGATGGGAAAAACATCA
 ACATTGTGGAGCCAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG220450 representing NM_152403
 Red=Cloning site Green=Tags(s)

MDLIRGVLLRLLLLASSLGPVAVSLRAAIRKPGKVGPPDLIKLGNLCTAFSIQWKMPRHPGSPILGYTV
 FYSEVADKSLQQLHSVPLSRDIPTEEVIGDLKPGTEYRVSIAAYSQAGKGRLLSPRHVTLSQDSCL
 PPAAPQQPHVIVVSDSEVALSWKPGASEGSAPIQYYSVEFIRPDFDKWTSIHERIQMDSMVIKGLDPDT
 NYQFAVRAMNSHGSPRSWPSDIIRTLCPPEAGSGRYGPRYITDMGAGEDDEGFEDDLDLDISFEEVKPL
 PATKGGNKKFLVESKKMSISNPKTISRLLIPPTSASLPVTTVAPQPIPIQRKNGVAIMSRLFDMPCDET
 LCSADSFVNDYTWGSRQCCTLGKGGESCEDIVIQYPQFFGHSYVTFEPLKNSYQAFQITLFRFAEAE
 DGLLL YCGENEHGRGDFMSLAIIRRSLLQFRFNCGTGVAIIVSETKIKLGGWHTVMLYRDGLNLLQLNNG
 TPVTGQSQGYSKITFRTPLYLGGAPSAWLV RATGTNRGFQGCVQSLAVNGRRIDMRPWPLGKALSGAD
 VGECSGICDEASCIHGGTCTAIKADSYICLPLGFKGRHCEDAFTLTIPQFRESLSRYAATPWPLEPQH
 YLSFMEFEITFRPDSGDVLLYSYDTGSKDFLSINLAGGHVEFRFDCGSGTGVLRSEDPLTLGNWHELRY
 SRTAKNGILQVDKQKIVEGMAEGGFTQIKCNTDIFIGGVPNYDDVKNSGVLKPFSGSIQKIILNDRTH
 VKHDFTSVNVENAAHPCVRAPCAHGGSCRPRKEGYDCDPLGFEGHLCQKAIIEAIEIPQFIGRSYLT
 DNPDILKRVSGSRNVFMRFKTTAKDGLLLWRGDSMPRPNSDFISLGLRDGALVFSYNLGSVASIMVNG
 SFNDGRWHRVKAVRDQSGKITVDDYGARTGKSPGMMRQLNINGALYVGGMKEIALHTNRQYMRGLVGI
 SHFTLSTDYHISLVEDAVDGKNINTCGAK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_152403

ORF Size: 3027 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:

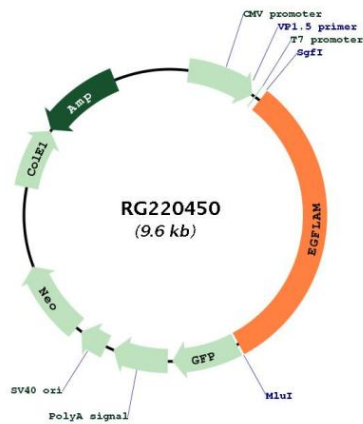
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_152403.4](#)

RefSeq Size: 3952 bp

RefSeq ORF: 3030 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]

Product images:



Circular map for RG220450