

Product datasheet for **RG233468**

FLAP (ALOX5AP) (NM_001204406) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FLAP (ALOX5AP) (NM_001204406) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FLAP
Synonyms:	FLAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233468 representing NM_001204406 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCACATTTAATCACGATGCTCCCTGGCATAACAGAAAGACTCTGAAAATTCTGAATTTGGGAAAT
CCTTTGGCACCTTGGGGCACATTGGGAACATAAGCCATCAGTGTGGCAGGTTGTGCAGCTGGAGGCAG
AGCAGTCTCTCTGGGGAGCCTGAAGCAAACATGGATCAAGAACTGTAGGCAATGTTGCTCTGTTGGCC
ATCGTCACCTCATCAGCGTGGTCCAGAATGGATTCTTTGCCATAAAGTGGAGCACGAAAGCAGGACCC
AGAATGGGAGGAGCTTCCAGAGGACCGAACACTTGCCTTTGAGCGGGTCTACACTGCCAACAGAACTG
TGTAGATGCGTACCCACTTTCCCTCGCTGTGCTCTGGTCTGCGGGGCTACTTTGCAGCCAAGTTCCTGCT
GCGTTTGTCTGGACTGATGTACTTGTGTTGTGAGGCAAAAGTACTTTGTCGGTTACCTAGGAGAGAACGC
AGAGCACCCCTGGCTACATATTTGGGAAACGCATCATACTCTTCTGTTCCCTCATGTCCGTTGCTGGCAT
ATTCAACTATTACCTCATCTTCTTTTCGGAAGTGACTTTGAAAACACTACATAAAGACGATCTCCACCACC
ATCTCCCTCTACTTCTCATTCCC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233468 representing NM_001204406
 Red=Cloning site Green=Tags(s)

MLTFNHDAPWHTQKTLKTSSEFGKSFGLGHIGNISHQCWAGCAAGGRAVLSGEPEANMDQETVGNVLLA
 IVTLISVVQNGFFAHKVEHESRTQNGRSFQRTGTLAFERVYTANQNCVDAYPTFLAVLWSAGLLCSQVPA
 AFAGLMYLFRQKYFVGYLGERTQSTPGYIFGKRILFLFLMSVAGIFNYLIFFFGSDFFENYIKITSTT
 ISPLLLIP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001204406

ORF Size: 654 bp

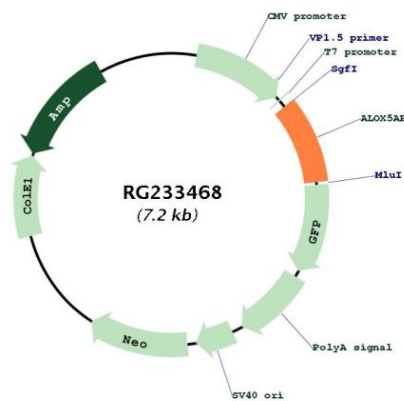
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001204406.1](#), [NP_001191335.1](#)
- RefSeq Size:** 1242 bp
- RefSeq ORF:** 657 bp
- Locus ID:** 241
- UniProt ID:** [P20292](#)
- Cytogenetics:** 13q12.3
- Protein Families:** Druggable Genome, Transmembrane
- Gene Summary:** This gene encodes a protein which, with 5-lipoxygenase, is required for leukotriene synthesis. Leukotrienes are arachidonic acid metabolites which have been implicated in various types of inflammatory responses, including asthma, arthritis and psoriasis. This protein localizes to the plasma membrane. Inhibitors of its function impede translocation of 5-lipoxygenase from the cytoplasm to the cell membrane and inhibit 5-lipoxygenase activation. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Feb 2011]

Product images:



Circular map for RG233468