

Product datasheet for **MG201253**

Alox5ap (NM_009663) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Alox5ap (NM_009663) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Alox5ap
Synonyms: Flap
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201253 representing NM_009663
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATCAAGAGGCTGTGGCAACGTTGTGCTCCTGGCCCTTGTCACCCTCATCAGCGTGGTCCAGAATG
 CGTTCTTTGCCACAAGGTGGAGCATGAAAGCAAGGCGCATAATGGGAGAAGCTTCAGAGGACCGGGAC
 TCTTGCCCTTGAGCGGTCTACTGCAACCAGAAGTGCCTGATGCGTACCCCACTTTCCTTGTGTA
 CTCTGGACTGCAGGACTACTTGCAGCCAAGTCCCTGCCGCTTCGCCGACTGATGTACCTGTTTGTGA
 GGCAAAAATACTTGTGCGCTATCTGGGAGAGAGAACTCAGAGCACCCCTGGCTACATCTTCGGCAAGCG
 GATCATCTGTTTCTGTTCTCATGTCTTCGCCGGGATACTCAACCATTACCTCATCTTCTTCGGA
 AGCGACTTTGAGAACTACATCAGAACGGTAAGCACGACGATCTCCCCGCTGCTTCTCATCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201253 representing NM_009663
 Red=Cloning site Green=Tags(s)

MDQEAVGNVLLALVTLISVVQNAFFAHKVEHESKAHNGRSFQRTGTLAFERVYTANQNCVDAYPTFLV
 LWTAGLLCSQVPAAFAGLMLYLFVRQKYFVGYLGERTQSTPGYIFGKRIILFLFLMSFAGILNHYLIFFFG
 SDFENYIRTVSTTISPLLLIP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_009663

ORF Size: 483 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_009663.1](#), [NP_033793.1](#)

RefSeq Size: 872 bp

RefSeq ORF: 486 bp

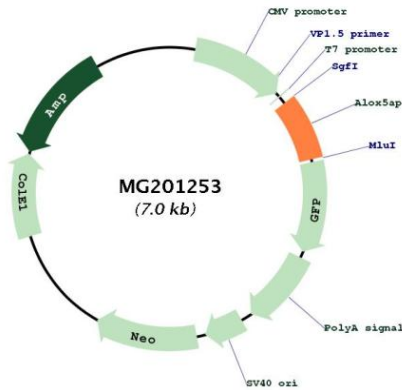
Locus ID: 11690

UniProt ID: [P30355](#)

Cytogenetics: 5 G3

Gene Summary: Required for leukotriene biosynthesis by ALOX5 (5-lipoxygenase). Anchors ALOX5 to the membrane. Binds arachidonic acid, and could play an essential role in the transfer of arachidonic acid to ALOX5. Binds to MK-886, a compound that blocks the biosynthesis of leukotrienes (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG201253