

Product datasheet for **RC203785**

FLAP (ALOX5AP) (NM_001629) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FLAP (ALOX5AP) (NM_001629) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FLAP
Synonyms:	FLAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203785 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCAAGAACTGTAGGCAATGTTGTCCTGTTGGCCATTGTCACCCTCATCAGCGTGGTCCAGAATG
GATTCTTTGCCATAAAGTGGAGCACGAAAGCAGGACCCAGAATGGGAGGAGCTTCCAGAGGACCGGAAC
ACTTGCCCTTGAGCGGTCTACTGCAACCAGAAGTGTGTAGATGCGTACCCACTTTCTCGCTGTG
CTCTGGTCTGCGGGCTACTTTGCAGCCAAGTCTGCTGCGTTTCTGGACTGATGACTTGTGTTGTA
GGCAAAAGTACTTTGTCGTTACCTAGGAGAGAGAACGCAGAGCACCCCTGGCTACATATTTGGGAAACG
CATCATACTCTTCTGTTCTCATGTCCGTTGCTGGCATATTCAACTATTACCTCATCTTCTTTTCGGA
AGTGACTTTGAAAACACATAAAGACGATCTCCACCACCATCTCCCCTCTACTTCTATTCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC203785 protein sequence Red=Cloning site Green=Tags(s)
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MDQETVGNVLLAIVTLISVVQNGFFAHKVEHESRTQNGRSFQRTGTLAFERYVTANQNCVDAYPTFLAV
LWSAGLLCSQVPAAFAGLMYLFVRQKYFVGYLGERTQSTPGYIFGKRIILFLMSVAGIFNYLIFFFG
SDFENYIKTISTTISPLLLIP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

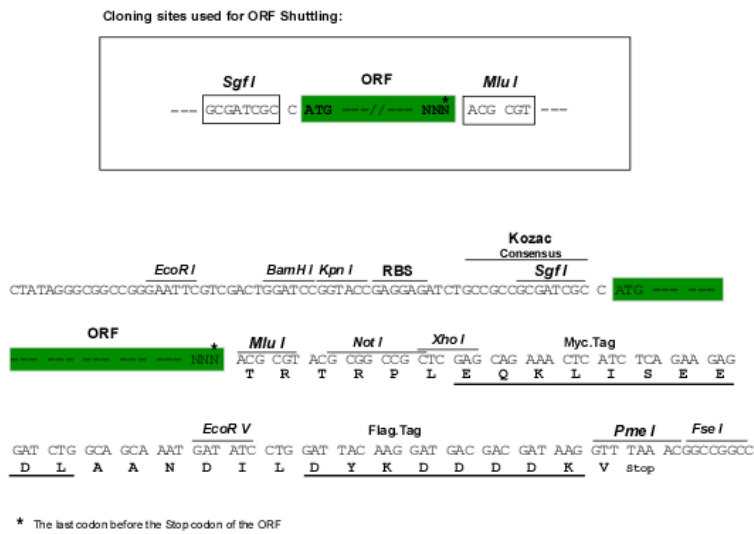
Chromatograms:	https://cdn.origene.com/chromatograms/mk6025_b02.zip
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[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001629

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_001629.4](#)

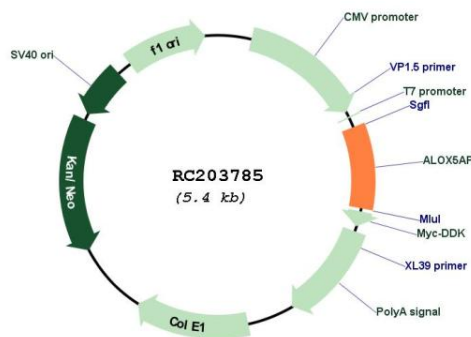
RefSeq Size: 921 bp

RefSeq ORF: 486 bp

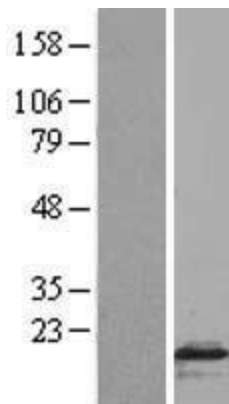
Locus ID: 241

UniProt ID:	P20292
Cytogenetics:	13q12.3
Domains:	MAPEG
Protein Families:	Druggable Genome, Transmembrane
MW:	18.2 kDa
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]

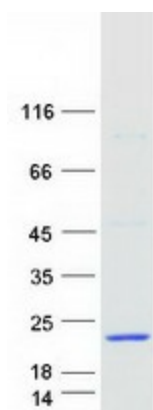
Product images:



Circular map for RC203785



Western blot validation of overexpression lysate (Cat# [LY400611]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203785 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ALOX5AP protein (Cat# [TP303785]). The protein was produced from HEK293T cells transfected with ALOX5AP cDNA clone (Cat# RC203785) using MegaTran 2.0 (Cat# [TT210002]).