

Product datasheet for **RC234499**

Leukotriene A4 hydrolase (LTA4H) (NM_001256643) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Leukotriene A4 hydrolase (LTA4H) (NM_001256643) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Leukotriene A4 hydrolase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234499 representing NM_001256643
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCACAGAGAAATCTTTCTAAAAGACAAGTACCGACCATGCATATCCCAGTTAAGACTCGTCGAC
 TTCTTGACGCTTAAAGGTTTTGGATACAAAGGACCTTACAATAGAAAAAGTAGTGATCAATGGACAAGA
 AGTCAAATATGCTCTGGAGAAAGACAAAGTTACAAGGGATCGCCAATGGAAATCTCTTCTCCTATCGCT
 TTGAGCAAAAATCAAGAAATTGTATAGAAATTTCTTTGAGACCTCTCCAAAATCTTCTGCTCTCCAGT
 GGCTCACTCCTGAACAGACTTCTGGGAAGGAACCCCATATCTCTTTAGTCAGTGCCAGGCCATCCACTG
 CAGAGCAATCCTTCTTGTGAGGACTCCTTCTGTGAAATTAACCTATACTGCAGAGGTGTCTGTCCCT
 AAAGAAGTGGTGGCACTTATGAGTGCTATTCGTGATGGAGAAACACCTGACCCAGAAGACCCAAGCAGGA
 AAATATACAAATTCATCCAAAAGTTCCAATACCCTGCTACCTGATTGCTTTAGTTGTTGGAGCTTTAGA
 AAGCAGGCAAATTTGGCCAAAGAACTTTGGTGTGGTCTGAGAAAGAGCAGGTGGAAAAGTCTGCTTATGAG
 TTTTCTGAGACTGAATCTATGCTTAAAATAGCAGAAGATCTGGGAGGACCGTATGTATGGGGACAGTATG
 ACCTATTGGTCCCTGCCACCATCCTTCCCTTATGGTGGCATGGAGAATCCTTGCCTTACTTTTGTAACTCC
 TACTCTACTGGCAGGCGACAAGTCACTCTCCAATGTCAATGCACATGAAATATCTCATAGCTGGACAGGG
 AATCTAGTGACCAACAAAAGTGGGATCACTTTTGGTTAAATGAGGGACATACTGTGACTTGGAAACGCC
 ACATTTGCGGACGATTGTTTTGGTAAAAGTTTCCAGACATTTTAAATGCTCTGGGAGGATGGGGAGAAGTACA
 GAATTCGGTAAAGACATTTGGGGAGACACATCCTTCCACAACTTGTGGTTGATCTGACAGATATAGAC
 CCTGATGACTGATTATCTTCCAGTCCCTATGAGAAGGGCTTTGCTTTACTTTTTTACCTTGAACAAGTGC
 TTGGAGGACCAGAGATTTTCTAGGATTTCTAAAAGCTTATGTTGAGAAGTTTCTCATAAGAGCATAAC
 TACTGATGACTGGAAGGATTTCCCTGATTCCTATTTTAAAGATAAGGTTGATGTTCTCAATCAAGTTGAT
 TGGAAATGCCTGGCTCTACTCTCCTGGACTGCCTCCCATAAAGCCCAATTATGATGACTCTGACAAATG
 CTTGTATTGCCTTAAAGTCAAAGATGGATTACTGCCAAAGAAGATGATTTAAATCATTCAATGCCACAGA
 CCTGAAGGATCTCTTCTCATCAATGAATGAGTTTTTAGCACAGACGCTCCAGAGGACACCTCTTCCA
 TTGGGGCACATAAAGCGAATGCAAGAGGTGTACAACCTCAATGCCATTAACAATCTGAAATACGATTCA
 GATGGCTGCGGCTCTGCATTCAATCCAAGTGGGAGGACGCAATTCCTTTGGCGCTAAAGATGGCAACTGA
 ACAAGGAAGAATGAAGTTTACCCGGCCCTTATTCAAGGATCTTGTGCCTTTGACAAATCCCATGATCAA
 GCTGTCCGAACCTACCAAGAGCACAAGCAAGCATGCATCCCGTACTGCAATGCTGGTGGGAAAGACT
 TAAAAGTGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234499 representing NM_001256643
 Red=Cloning site Green=Tags(s)

MLPQRNLSKRQVPTMHIPVKTRRLAALKVLDTKDLTIEKVVINGQEVKYLGERQSYKGSMPMEISLPIA
 LSKNQEIVIEISFETSPKSSALQWLTPQTSKQHPYLFVQSQAIHCRALPCQDTPSVKLYTAEVSV
 KELVALMSAIRDGETPDPEDPSRKIYKFIQKVPIPCYLIALVVGALVSRQIGPRTLWVSEKEQVEKSAYE
 FSETESMLKIAEDLGGPYVWQYDLLVLPSPFYGGMENPCLTFVPTLLAGDKSLSNVIAHEISHSWTG
 NLVTNKTWDHFWLNEGHTVYLERHICGRLEGEKFRHFNALGGWELQNSVKTFFGETHPFTKLVDLTDID
 PDVAYSSVPYKGFALLFYLEQLLGGPEIFLGFLLKAYVEKFSYKSITDDWDFLYSYFKDKVDVNLQVD
 WNAWLSPGLPPIKPNYDMLTNACIALSQRWITAKEDDLNSFNATDLKDLSSHQLNEFLAQLRPLP
 LGHIKRMQEVYVNFNAINNSEIRFRWLRLCIQSKWEDAIPLALKMATEQGRMKFTRPLFKDLAAFDKSHDQ
 AVRTYQEHKASMPVTAMLVGKDLKVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001256643

ORF Size: 1761 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_001256643.1](#), [NP_001243572.1](#)

RefSeq Size: 2145 bp

RefSeq ORF: 1764 bp

Locus ID: 4048

UniProt ID: [P09960](#)

Cytogenetics: 12q23.1

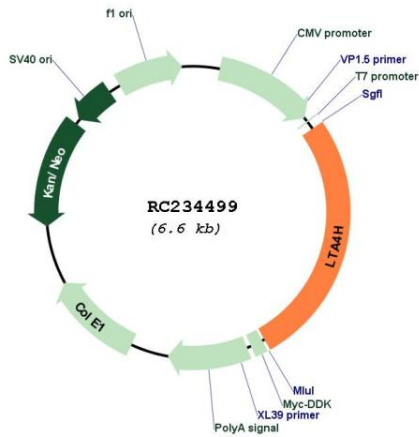
Protein Families: Druggable Genome, Protease

Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

MW: 67.3 kDa

Gene Summary: The protein encoded by this gene is an enzyme that contains both hydrolase and aminopeptidase activities. The hydrolase activity is used in the final step of the biosynthesis of leukotriene B4, a proinflammatory mediator. The aminopeptidase activity has been shown to degrade proline-glycine-proline (PGP), a neutrophil chemoattractant and biomarker for chronic obstructive pulmonary disease (COPD). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]

Product images:



Circular map for RC234499