

Product datasheet for **RG234316**

Leukotriene A4 hydrolase (LTA4H) (NM_001256644) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Leukotriene A4 hydrolase (LTA4H) (NM_001256644) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Leukotriene A4 hydrolase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234316 representing NM_001256644
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCACAGAGAAATCTTTCTAAAAGACAAGTACCGACCATGCATATCCCAGTTAAGACTCGTCGAC
 TTCTTGACGCTTAAAGTTTTGGATACAAAGGACCTTACAATAGAAAAAGTAGTGATCAATGGACAAGA
 AGTCAAATATGCTCTGGAGAAAGACAAAGTTACAAGGGATCGCCAATGGAAATCTCTCTCCTATCGCT
 TTGAGCAAAAATCAAGAAATTGTTATAGAAATTTCTTTGAGACCTCTCCAAAATCTTCTGCTCTCCAGT
 GGCTCACTCCTGAACAGACTTCTGGGAAGGAACCCCATATCTCTTTAGTCAGTGCCAGGCCATCCACTG
 CAGAGCAATCCTTCTTGTGAGGACTCCTTCTGTGAAATTAACCTATACTGCAGAGGTGTCTGTCCCT
 AAAGAAGTGGTGGCACTTATGAGTGCTATTCGTGATGGAGAAACACCTGACCCAGAAGACCCAAGCAGGA
 AAATATACAAATTCATCCAAAAGTTCCAATACCCTGCTACCTGATTGCTTTAGTTGTTGGAGCTTTAGA
 AAGCAGGCAAATTTGGCCAAAGACTTTGGTGTGGTCTGAGAAAGAGCAGGTGGAAAAGTCTGCTTATGAG
 TTTTCTGAGACTGAATCTATGCTTAAAAATAGCAGAAGATCTGGGAGGACCGTATGTATGGGGACAGTATG
 ACCTATTGGTCCCTGCCACCATCCTTCCCTTATGGTGGCATGGAGAATCCTTGCCTTACTTTTGTAACTCC
 TACTCTACTGGCAGGCGACAAGTCACTCTCCAATGTCAATGCACATGAAATATCTCATAGCTGGACAGGG
 AATCTAGTGACCAACAAAAGTGGGATCACTTTTGGTTAAATGAGGGACATACTGTGTACTTGGAAACGCC
 ACATTTGCGGACGATTGTTTGGTAAAAGTTTCCAGCATTTTAAATGCTCTGGGAGGATGGGGAGAAGTACA
 GAATTCGGTAAAGACATTTGGGGAGACACATCCTTCCACAACTTGTGGTTGATCTGACAGATATAGAC
 CCTGATGACTTATTCTCAGTCCCTATGAGAAGGGCTTTGCTTACTTTTTACCTGAACAAGTGC
 TTGGAGGACCAGAGATTTCTAGGATTCTAAAAGCTTATGTTGAGAAGTTTTCTATAAGCAATGATGAT
 TACTGATGACTGGAAGGATTTCCCTGATTTCTTAAAGATAAGGTTGATGTTCTCAATCAAGTTGAT
 TGGAAATGCCTGGCTCTACTCTCCTGGACTGCCTCCATAAAGCCCAATTATGATGACTCTGACAAATG
 CTTGTATTGCCTTAAAGTCAAAGATGGATTACTGCCAAAGAAGATGATTTAAATCATTCAATGCCACAGA
 CCTGAAGGATCTCTTCTCATCAATTGAATGAGTTTTTAGCACAGACGCTCCAGAGGATGGCTGCGGCT
 CTGCATCAATCCAAGTGGGAGGACGCAATTCCTTGGCGCTAAAGATGGCAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234316 representing NM_001256644
 Red=Cloning site Green=Tags(s)

MLPQRNLSKRQVPTMHIPVKTRRLLAALKVLDTKDLTIEKVVINGQEVKYALGERQSYKGSMPMEISLPIA
 LSKNQEIVIEISFETSPKSSALQWLTPQTSQKEHPYLFSQLQAIHCRAILPCQDTPSVKLYTAEVSV
 KELVALMSAIRDGETPDPEDPSRKIYKFIQKVPIPCYLIALVVGALSRQIGPRTLWVSEKEQVEKSAYE
 FSETESMLKIAEDLGGPYVWQYDLLVLPSPFPYGGMENPCLTFVPTLLAGDKSLSNVIAHEISHSWTG
 NLVTNKTWDHFWLNEGHTVYLERHICGRLEFGEKFRHFNALGGWELQNSVKTFFGETHPFTKLVDLTDID
 PDVAYSSVPYEKGFALLFYLEQLLGGPEIFLGFLLKAYVEKFSYKSIITDDWKDFLYSYFKDKVDVNLQVD
 WNAWLYSPGLPPIKPNYDMLTNACIALSQRWITAKEDDLNSFNATDLKDLSSHQLNEFLAQLQRMAAA
 LHSIQVGGGRNSFGAKDGN

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001256644

ORF Size: 1524 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_001256644.1](#), [NP_001243573.1](#)

RefSeq Size: 2062 bp

RefSeq ORF: 1527 bp

Locus ID: 4048

UniProt ID: [P09960](#)

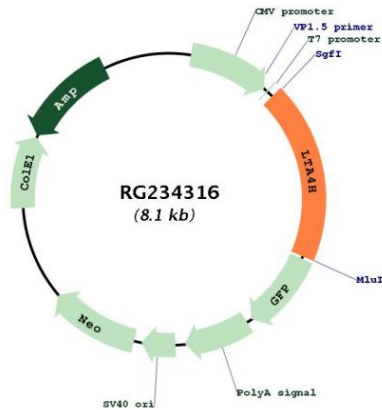
Cytogenetics: 12q23.1

Protein Families: Druggable Genome, Protease

Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

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 RG234316