

Product datasheet for **SC119594**

Leukotriene A4 hydrolase (LTA4H) (NM_000895) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Leukotriene A4 hydrolase (LTA4H) (NM_000895) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Leukotriene A4 hydrolase |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene ORF within SC119594 sequence for NM_000895 edited (data generated by NextGen Sequencing)

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ATGCCCGAGATAGTGGATACCTGTTGTTGGCCTCTCCGGCTTCCGTCTGCCGGACCAAG
CACCTGCACCTGCGCTGCAGCGTCGACTTTACTCGCCGGACGCTGACCGGGACTGCTGCT
CTCACGGTCCAGTCTCAGGAGGACAATCTGCGCAGCCTGGTTTTGGATACAAAGGACCTT
ACAATAGAAAAAGTAGTGATCAATGGACAAGAAGTCAAATATGCTCTTGGAGAAAGACAA
AGTTACAAGGGATCGCCAATGGAATCTCTCTTCTATCGCTTTGAGCAAAAATCAAGAA
ATTGTTATAGAAATTTCTTTTGGAGACCTCTCCAAAATCTTCTGCTCTCCAGTGGCTCACT
CCTGAACAGACTTCTGGGAAGGAACACCCATATCTCTTATGTCAGTGCCAGGCCATCCAC
TGCAGAGCAATCCTTCTTGTGTCAGGACACTCCTTCTGTGAAATTAACCTATACTGCAGAG
GTGCTGTCCCTAAAGAAGTGGTGGCACTTATGAGTGCTATTCGTGATGGAGAAACACCT
GACCCAGAAGACCAAGCAGGAAAATATACAAATTCATCCAAAAGTTCCAATACCTGC
TACCTGATTGCTTATGTTGTTGGAGCTTAGAAAGCAGGCAAATGGCCCAAGAAGTTG
GTGTGGTCTGAGAAAGAGCAGGTGGAAAAGTCTGCTTATGAGTTTTCTGAGACTGAATCT
ATGCTTAAATAGCAGAAGATCTGGGAGGACCGTATGTATGGGGACAGTATGACCTATTG
GTCTGCCACCATCCTTCCCTTATGGTGGCATGGAGAATCCTTGCCTTACTTTTGTAACT
CCTACTCTACTGGCAGGCGACAAGTCACTCTCCAATGTCATTGCACATGAAATATCTCAT
AGCTGGACAGGGAATCTAGTGACCAACAAAAGTGGGATCACTTTTGGTTAAATGAGGGA
CATACTGTGACTTGGAAACGCCACATTTGCGGACGATTGTTTGGTAAAAGTTTCAGACAT
TTTAAATGCTCTGGGAGGATGGGGAGAATACAGAATTCGGTAAAGACATTTGGGGAGACA
CATCCTTTCACCAAACTTGTGGTTGATCTGACAGATATAGACCCTGATGTAGCTTATTCT
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CCAGAGATTTTCTAGGATTTCTAAAAGCTTATGTTGAGAAGTTTTCTATAAGAGCATA
ACTACTGATGACTGGAAGGATTTCTGTATTCTATTTTAAAGATAAGGTTGATGTTCTC
AATCAAGTTGATTGGAATGCCTGGCTCTACTCTCTGGACTGCCTCCCATAAAGCCCAAT
TATGATATGACTCTGACAAATGCTTGTATTGCCTTAAGTCAAAGATGGATTACTGCCAAA
GAAGATGATTTAAATTCATTCAATGCCACAGACCTGAAGGATCTCTTCTCATCAATTG
AATGAGTTTTTAGCACAGACGCTCCAGAGGGCACCTTCCATTGGGGCACATAAAGCGA
ATGCAAGAGGTGTACAATTCATGCCATTAACAATTCTGAAATACGATTAGATGGCTG
CGGCTCTGCATTCAATCCAAGTGGGAGGACGCAATTCCTTGGCGCTAAAGATGGCAACT
GAACAAGGAAGAATGAAGTTTACCCGGCCCTTATTCAAGGATCTTGTCTGCTTTTGACAAA
TCCCATGATCAAGCTGTCCGAACCTACCAAGAGCACAAGCAAGCATGCATCCCGTGACT
GCAATGCTGGTGGGAAAGACTTAAAAGTGGATTAA

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Clone variation with respect to NM_000895.1

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000895 unedited
 TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTTGGGCTGTAGGTC
 GCTGTGCTGTGTGATCCCCAGAGCCATGCCGAGATAGTGGATACCTGTTCTGTTGGCCT
 CTCCGGCTTCCGTCTGCCGGACCAAGCACCTGCACCTGCGCTGCAGCGTCGACTTTACTC
 GCCGGACGCTGACCGGACTGCTGCTCTCACGGTCCAGTCTCAGGAGGACAATCTGCGCA
 GCCTGGTTTTGGATACAAAGGACCTTACAATAGAAAAAGTAGTGATCAATGGACAAGAAG
 TCAAATATGCTCTTGGAGAAAGACAAAGTTACAAGGGATCGCCAATGGAATCTCTCTTC
 CTATCGCTTTGAGCAAAAATCAAGAAATTGTTATAGAAATTTCTTTTGGACCTCTCCAA
 AATCTTCTGCTCTCCAGTGGCTCACTCCTGAACAGACTTCTGGGAAGGAACACCCATATC
 TCTTTAGTCAGTGCCAGGCCATCCACTGCAGAGCAATCCTTCTTGTGTCAGGACACTCCTT
 CTGTGAAATTAACCTATACTGCAGAGGTGTCTGTCCCTAAAGAACTGGTGGCACTTATGA
 GTGCTATTCGTGATGGAGAAACACCTGACCCAGAAGACCCAAGCAGGANAATATACAAAT
 TCATCCAAAAAGTTCCAATACCCTGCTACCTGATTGCTTTAGTTGTTGGAGCTTTAGAAA
 GCAGGCAAATGGCCCAAGAACNTGGGTGTGGTCTGAGAAAGAGCANGTGGAAAAGTCT
 GCTTATGAGTTTTCTGAGACTGAATCTATGCTTAAAAAGCANAAGATCTGNGAGACCGT
 ATGTATGGGGACAGTATGACCTATTGGTCTGCCACATCCTTCCCTATGTNGCATGGAGA
 TTCTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000895 unedited
 CTCAATTCTATTTTTTAAAAATACCAACAAAACATAAAAAGCCAACTAAAAAGACAGT
 TTTAATTGTGAGCTGAAGTTTTATTTTCTTTACGAATTCATTTAAAAAAGAGAAATCT
 CTAATAATCATCAATACGACAGTCTTTAATCCACTTTTAAGTCTTTCCCCACCAGCATTGC
 AGTCACGGGATGCATGCTTGTCTTTGTGCTCTTGGTAGGTTTCGGACAGCTTGATCATGGGA
 TTTGTCAAAGGCAGCAAGATCCTTGAATAAGGGCCGGTAACTTCAATCTTCTTGTTC
 AGTTGCCATCTTTAGCGCCAAAGGAATTGCGTCTCCACTTGGATTGAATGCAGAGCCG
 CAGCCATCTGAATCGATTTTCAGAATTGTTAATGGCATTGAAGCCGTACACCTCTTGAT
 TCGCTTTATGTGCCCAATGGAAGACGTGCCCTCTGGAGCGCCCGCGCTAAAAACTCATT
 CACTTGATGAGAAAAAGAACCTTCAAGTCTCGCGCATTGCATGAATCTAACACATCTC
 TTTCTGGCGAGACATCCATCTTTTCGCTCAAGGGCTAGTCGCCTCTGTCATAGCCATCTT
 ATTACTCGGCCCTTACTGTGTCGCACTCCACGGACAGTACAGTATGTCCTTCAATCCC
 CCCGCATGTGAACATGCACCTCATCCCTACACATGGACCCGGACATCTCCCCGCTACTA
 ATCATTTCGCTGCATCGGGATGCCCTCCTACCACCTCTAATAATACACTGAACACCTT
 TGTCTCTCTCTGTTTCACCGGATTCAGTAGCTACGACCGTTTTACGTGCTCTGCTTAC
 CGTTCCGTGCGCCCTTTCCGCCGACCATTCTTTTCCACTCATTATCTCCCCCG
 CCTCGCTTAACNTCGNNATCATCCATCCCAATTACCCACGCCTCGCATTGGCCAAACAT
 CCACCACATGCGCCCTCCCACTATGCCACCTCATACTCCCTGTAGCCACCATATCGCC
 T

Restriction Sites:

NotI-NotI

ACCN:

NM_000895

Insert Size:

2230 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).

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|-------------------------------|---|
| Reconstitution Method: | <ol style="list-style-type: none">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: | <u>NM_000895.1</u> , <u>NP_000886.1</u> |
| RefSeq Size: | 2060 bp |
| RefSeq ORF: | 1836 bp |
| Locus ID: | 4048 |
| UniProt ID: | <u>P09960</u> |
| Cytogenetics: | 12q23.1 |
| Domains: | Peptidase_M1 |
| Protein Families: | Druggable Genome, Protease |
| Protein Pathways: | Arachidonic acid metabolism, Metabolic pathways |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p> |