

Product datasheet for **RN207685**

Lta4h (NM_001030031) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lta4h (NM_001030031) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Lta4h
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >RN207685 representing NM_001030031
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCTGAGGTCGCGGATACTTGTTCCTTGGCTTCTCCAGCCTCGGTCTGCCGAACCCAGCACCTCCATC
 TTCGCTGCAGCGTCGACTTCGCTCGCCGGGCACTGACCGGGACCGCCGCGCTCACGGTCCAGTCACAGGA
 GGATAATCTGCGCAGCCTGACTTTGGATACAAAAGACCTTACGATAGAAAAAGTGGTGATCAACGGACAA
 GAAGTCAAATACACTCTTGGAGAAAGCCAGGGTTACAAAGGATCGCCGATGGAATCTCCCTTCCCATCG
 CTCTGAGCAAAAATCAAGAGGTCGTTATAGAGATTTCTTCGAGACATCTCCAAGTCTCGGCCCTTCA
 GTGGCTCACTCCCGAGCAGACTTCAGGAAAGCAGCATCCATACCTCTTCAGTCAGTGCCAGGCCATCCAC
 TGCAGGGCAATCCTCCCTGCCAAGACTCCTTCTGTGAAGTTAACCTACCCGAGAGGTATCTGTCC
 CCAAAGAAGTGGTGGCTCTCATGAGTCCATCCGTGATGGAGAAGCCCTGACCCAGAAGACCCAGCAG
 GAAGATATACAGATTTAACAGAGGGTCCCATACCGTGTACCTGATTGCTTTAGTCGTTGGCGCTTTA
 GAAAGCAGGCAAATTTGGCCCAAGAAGTCTGGTGTGGTCTGAGAAAAGAGCAGGTGGAGAAGTCTGCTTATG
 AATTCTCTGAGACTGAATCCATGCTTAAAATTGCAGAAGATCTGGGGGGACCCATGTTTGGGGACAGTA
 CGACCTGTTGGTCTGCCCCATCCTTCCCGTACGGAGGCATGGAGAATCCTTGTCTCACATTCGTAACC
 CCTACTCTATTGGCAGGTGACAAGTCACTCTCTAATGTTATTGCACACGAAAATACGCATAGCTGGACAG
 GGAACCTAGTGACTAACAAAGACTTGGGATCACTTCTGGTTAAACGAAGGACATACCGTCTATTTAGAGCG
 CCACATTTGTGGCGGTTGTTTGGGGAAAAATTCAGACATTTCCACGCTTTAGGAGGATGGGGAGAGCTA
 CAGAACACGATAAAGACTTTCGGGGAGTCCCATCCCTTACCAAGCTCGTGGTCGATCTGAAGGACGTAG
 ACCCCGATGTGGCCTACTCCTCCATCCCTACGAGAAGGGCTTCGCCTTGCTCTTACCTGGAACAACT
 TCTTGGGGGACCGAGGTGTTTCTAGGATTCCTAAAGGCTTATGTGGAGAAGTTTTCTACCAGAGCGTA
 ACCACTGATGACTGGAAGAGTTTCTGTATGCTCACTTTAAAGATAAGGTGGATCTTCTCAATCAAGTTG
 ATTGGAATGCCTGGCTCTATGCTCCTGGCTGCCTCCTGTCAAACCCAATTACGATGTGACTCTCACGAA
 TGCCTGCATCGCCTTAAGTCAAAGATGGGTCACTGCCAAAGAGGAAGATTTAAATTCATTAGCATCGAA
 GACCTGAAGGACCTCTCGTCCCATCAGCTGAATGAGTTCTGGCACAGGTGCTTCAGAAGGCACCTCTTC
 CCTTGGGGCACATAAAGCGAATGCAAGAGGTGTACAATCAATGCCATTAACAATTCTGAAATACGATT
 CAGATGGTTACGGCTCTGCATTCATCGAAGTGGGAAGAAGCAATTCCTTTGGCCCTAAAGATGGCAACT
 GAACAAGGAAGGATGAAATTTACAGACCTCTATTCAAGGACCTCGCTGCCTTCGACAAATCCCACGATC
 AAGCTGTCCGCACCTACCAGGAACATAAAGCCTGTATGCATCCCGTGACCGCCATGCTGGTGGGGAAAGA
 TCTGAAAGTGGAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001030031
- Insert Size:** 1836 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).

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_001030031.1](#), [NP_001025202.1](#)

RefSeq Size: 2083 bp

RefSeq ORF: 1836 bp

Locus ID: 299732

UniProt ID: [Q499P2](#)

Cytogenetics: 7q13

Gene Summary: Bifunctional zinc metalloenzyme that comprises both epoxide hydrolase (EH) and aminopeptidase activities (By similarity). Acts as an epoxide hydrolase to catalyze the conversion of LTA4 to the proinflammatory mediator leukotriene B4 (LTB4) (PubMed:1544505). Has also aminopeptidase activity, with high affinity for N-terminal arginines of various synthetic tripeptides. In addition to its proinflammatory EH activity, may also counteract inflammation by its aminopeptidase activity, which inactivates by cleavage another neutrophil attractant, the tripeptide Pro-Gly-Pro (PGP), a bioactive fragment of collagen generated by the action of matrix metalloproteinase-9 (MMP9) and prolylendopeptidase (PREPL). Involved also in the biosynthesis of resolvin E1 and 18S-resolvin E1 from eicosapentaenoic acid, two lipid mediators that show potent anti-inflammatory and pro-resolving actions (By similarity).[UniProtKB/Swiss-Prot Function]