

Product datasheet for **MR209403**

Lta4h (NM_008517) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lta4h (NM_008517) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lta4h
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209403 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCGAGGTCGCGGATACTTGCTCCTTGCTTCTCCAGCCTCGGTCTGCCGAACCCAGCACCTCCATC
 TTCGCTGCAGCGTCGACTTCGCTCGCCGACGCTGACCGGGACGGCCGCGCTCACGGTCCAGTCACAGGA
 GGAGAATCTGCGCAGCCTGACTTTGGACACAAAAGACCTCACAATAGAAAAAGTGGTGATCAATGGACAA
 GAAGTCAAATACACCCCTTGAGAAAAGTCAAGGTTACAAAGGGTCACCGATGGAAATCTCTCTTCCCATCG
 CCCTGAGCAAAAATCAAGAGATCGTTATAGAAATTTCTTTGAGACATCTCCAAATCCTCTGCGCTTCA
 GTGGCTCACTCCTGAACAGACGTCAGGGAAGCAGCACCCGTATCTCTCAGTCAGTGCCAGGCCATCCAC
 TGCAGGGCCATCCTCCCTTGCCAAGACTCCTCCGTGAAATTAACATACCCGAGAGGTGTCTGTCC
 CGAAAGAACTGGTGGCTCTCATGAGTCCATCCGTGATGGAGAAGCCCTGACCCAGAAGACCCAGCAG
 GAAGATTTACAGATTAACCCAGAGGGTCCCATACCATGCTACCTGATTGCTTTGGTTGTGGAGCTTTA
 GAAAGCAGACAAATTGGCCCAAGAACTCTGGTGTGGTCCGAGAAAAGAGCAGGTGGAGAAATCTGCTAATG
 AATTTTCTGAGACCGAATCCATGCTTAAAATTGCAGAAGATCTGGGGGGCCCTATGTTTGGGGGAGTA
 CGACCTCTTGGTTCTGCCCCATCCTTCCCGTACGGTGGCATGGAGAACCCTTGTCTCACGTTCTGTAACG
 CCTACGCTACTGGCAGGTGACAAGTCACTCTCCAACGTTATTGCACATGAAATATCTCATAGCTGGACAG
 GAAACCTAGTGACTAACAAAGACGTGGGATCACTTTTGGTTAAACGAAGGACATACTGTCTACTTAGAGCG
 CCACATTTGTGGACGGTGTGGTGGGAAAAGTTTCCAGATTTCCATGCTTTGGGAGGATGGGAGAGCTA
 CAGAATACGATAAAAACATTTGGGGAGTCCCACCCCTTACCAAGCTCGTGGTTGATCTGAAGGACGTAG
 ACCCCGATGTAGCCTATTCCCTCATCCCCTATGAGAAGGGCTTTGCACTACTCTTCTACCTTGAACAGCT
 TCTTGGGGGACAGAGGTGTTTCTAGGATTCCTAAAGGCTTATGTTAAGAAGTTTTCTACCAAAGTGTA
 ACGACTGATGACTGGAAGAGCTTCTATATTCCCACTTTAAAGACAAGGTGGATCTTCTCAATCAAGTTG
 ATTGGAACGCCTGGCTCTACGCTCCGGGCTGCCTCCTGTCAAGCCCAATTACGACGTGACTCTGACAAA
 TGCTTGCATTGCCTAAGTCAAAGATGGGTTACTGCCAAAGAGGAAGATTTAAGCTCATTAGCATCGCA
 GACCTGAAGGATCTCTCGTCCCATCAGCTGAATGAGTTCTGGCACAGGTGCTTCCAGAAGGCACCTCTTC
 CCTTGGGGCACATAAAGCGAATGCAAGAGGTGTACAATCAATGCCATTAACAATTCTGAAATACGATT
 CAGATGGTTACGGCTCTGCATTCAATCGAAATGGGAGGAAGCAATTCCTTTGGCCCTAAAGATGGCACT
 GAAACAAGGAAGGATGAAATTCACACGCTCCTCTATTCAAGGATCTCGCTGCCTTTGACAAATCCCATGATC
 AAGCTGTCCACACCTACCAAGAGCATAAAGCCAGCATGCATCCCGTACTGCGATGCTGGTGGGGAGAGA
 TCTGAAAGTGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209403 protein sequence
 Red=Cloning site Green=Tags(s)

MPEVADTCSLASPASVCRTQHLHLRCSVDFARRTLTGAALTVQSQEENLRSLTLDTKDLTIEKVINGQ
 EVKYTLGESQGYKSPMEISLPIALSKNQEIIVIEISFETSPKSSALQWLTPEQTSKGQHPYLFSSQCQAIH
 CRAILPCQDTPSVKLYTAEVSVPKELVALMSAIRDGEAPDPEDPSRKIYRFNRVPIPCYLIALVVGAL
 ESRQIGPRTLWVSEKEQVEKSANEFSETESMLKIAEDLGGPYVWQYDILLVPPSFPYGGMENPCLTFVT
 PTLLAGDKSLSNVIAHEISHSWTGNLVTNKTWDFWLNNEGHTVYLERHICGRLFGEKFRHFHALGGWEL
 QNTIKTFGESHPTKLVDLKDVPDVAISSIPYEKGFALLFYLEQLLGGPEVFLGFLKAYVKKFSYQSV
 TTDDWKSFLYSHFKDKVDLLNQVDWNAWLYAPGLPPVKPNYDVTLTNACIALSQRWYTAKEEDLSSFSA
 DLKDLSSHQLNEFLAQVLQKAPLPLGHIKRMQEVYFNAINNSEIRFRWLRLCIQSKWEEAIPLALKMAT
 EQGRMKFTRPLFKDLAAFDKSHDQAVHTYQEHKASMPVTAAMLVGRDLKVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_008517

ORF Size: 1836 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_008517.1](#), [NM_008517.2](#), [NP_032543.2](#)

RefSeq Size: 2066 bp

RefSeq ORF: 1836 bp

Locus ID: 16993

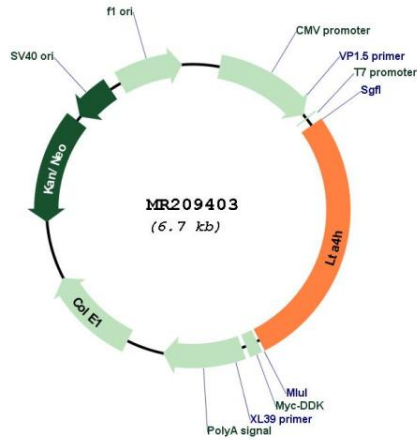
UniProt ID: [P24527](#)

Cytogenetics: 10 C2

MW: 69 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). Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR209403