

Product datasheet for **MR207743**

Adsl (NM_009634) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adsl (NM_009634) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adsl
Synonyms:	Adl; Asl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207743 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCATCCGGCGACCTGGCAGTGTGAAAGTTACCGTTCTCCGCTGGCGGCCGCTACGCCAGCC
 GCGAGATGTGTTTCTTGTTCAGCGACAGGTACAAGTTCAGACGTGGCGGACAGCTGTGGCTGGCTGGC
 GGAGGCCGAACAGACGCTGGGTTTGCTATCACAGATGAACAAATCCAGGAGATGAAGTCGAACCTGAAC
 AACATTGACTTCCAGATGGCAGCTGAGGAAGAGAAGCGCCTGCGGCACGACGTGATGGCTCACGTGCACA
 CGTTCCGGCCACTGCTGTCCGAAAGCTGCGGGCATTATTTCATCTGGGCGCCACCTCCTGCTATGTCGGAGA
 CAATACGGACCTGATTATTCTGAGAAATGCATTTGACCTACTTTTGCCAAAGCTTGCTAGAGTGATCTCG
 AGGCTTGGCGACTTTGCTAAGGATCGTGTGATCTGCCACGTTAGGTTTACACACTTTCAGCCTGCTC
 AGCTGACCACGGTTGGGAAACGATGCTGCCTTTGGATTCAAGATCTCTGCATGGATCTCCAGAACTGAA
 GCGTGTCCGGGATGAGCTGCGCTCCGAGGAGTAAAGGGCACCCTGGCACGCAGCCAGCTTCCGTCAG
 CTCTTCGAGGGGGATCACCAGAAGGTGGAGCAGCTGGACAAGATGGTGACAGAAAAGGCAGGGTTTTAAAA
 GAGCCTTCATCATCACAGGACAGACGTACACACGGAAAGTGGACATCGAAGTGCTGTCTGTGCTGGCCAG
 CTTAGGAGCATCGGTGCACAAGATTTGCACTGACATACGCCTGCTGGCAAACCTGAAGGAGATGGAGGAG
 CCCTTTGAGAAACAGCAGATTGGCTCCAGTGCATGCCGTACAAGCGGAACCCCATGCGCTCCGAACGTT
 GCTGCAGCCTGGCCCGTCACTGATGGCCCTTACCATGGACCCACTACAGACAGCGTCTGTGCAGTGGTT
 TGAACGTA CTCTGGATGACAGTGCCAACCGACGGATCTGTTTGGTGAAGCGTTTCTCACTGCAGATACT
 ATATTAACACCCTACAGAACATTTCTGAAGGATTGGTGGTGTACCCAAAGTAATTGAACGGCGCATT
 GGCAAGAGCTGCCTTTTCATGGCCACAGAGAATCATCATGGCAATGGTGAAGCCGGGGCAGCCGACA
 GGACTGCCATGAGAAAATTAGAGTGCTTTCCAGCAGGCAGCTGCTGTGGTCAAGCAGGAAGGAGGTGAC
 AATGACCTTATAGAGCGCATCCGGGCGAGATGCCTACTTACGCCCATCCACTCACAGCTGGAGCACTTGC
 TGGACCCCTCTTCTTCACTGGCCGAGCACCCAGCAGGTCCACAGATTCTGGAAGAGGAAGTGCGCC
 CCTGCTAAAGCCCTATGGGAATGAGATGGCGGTGAAAGCAGAGCTGTGTCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207743 protein sequence
 Red=Cloning site Green=Tags(s)

MAASGDPGSAESYRSPLAARYASREMCFLFS DRYKFTWRQLWLWLA EAEQTLGLPITDEIQEMKSNLN
 NIDFQMAAEEERLRHDVMAHVHTFGHCCPKAAGIIHLGATSCYVGDNTDLIILRNAFDLLLPLKARVIS
 RLADFAKDRADLPTLGFTHFQPAQLTTVGRKCLWIQDLCMDLQNLKRVDELFRGVKGTGTQASFLQ
 LFEGDHQKVEQLDKMVTEKAGFKRAFIIITGQTYTRKVDIEVLSVLASLGASVHKICTDIRLLANLKEMEE
 PFKEKQIGSSAMPYKRNPMRSERCCSLARHLMAL TMDPLQTASVQWFERTLDDSANRRICLAEFLTADT
 ILNLTQNI SEGLVVPKVIERRIRQELPFMATENIIMAMVKAGGSRQDCHEKIRVLSQQA AAVVKQEGGD
 NDLIERIRADAYFSPIHSQLEHLLDPSSFTGRAPQQVHRFLEEEV RPLLKPYGNEMAVKAE LCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_009634

ORF Size: 1455 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_009634.2](#)
RefSeq Size: 3712 bp

RefSeq ORF: 1455 bp

Locus ID: 11564

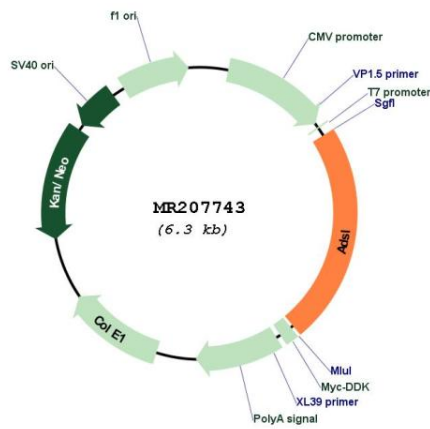
UniProt ID: [P54822](#)

Cytogenetics: 15 37.95 cM

MW: 54.9 kDa

Gene Summary: This gene encodes a protein that is involved in adenosine monophosphate (AMP) biosynthesis and maintaining AMP levels in the muscle. The encoded enzyme catalyzes the release of fumarate during AMP biosynthesis by cleaving the substrates succinylaminoimidazole carboxamide (SAICA) ribotide to give aminoimidazole carboxamide (AICA) ribotide, and adenylosuccinate to give adenylylate. In humans, this gene is associated with adenylosuccinate deficiency, a rare autosomal disorder resulting in a spectrum of neurological symptoms. A pseudogene associated with this gene is located on the X chromosome. [provided by RefSeq, Jan 2013]

Product images:



Circular map for MR207743