

## Product datasheet for **MC201305**

### **Adsl (NM\_009634) Mouse Untagged Clone**

#### **Product data:**

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Type:             | Expression Plasmids                   |
| Product Name:             | Adsl (NM_009634) Mouse Untagged Clone |
| Tag:                      | Tag Free                              |
| Symbol:                   | Adsl                                  |
| Synonyms:                 | Adl; Asl                              |
| Mammalian Cell Selection: | Neomycin                              |
| Vector:                   | PCMV6-Kan/Neo (PCMV6KN)               |
| E. coli Selection:        | Kanamycin (25 ug/mL)                  |



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**Fully Sequenced ORF:** >BC020187 sequence for NM\_009634  
 CTGGTGTCCGCCGCTCCTGGTCGCGTGTGAAAAATGGCTGCATCCGGCGACCCTGGCAGTGCTGAAAGT  
 TACCGTTCTCCGCTGGCGGCCCGCTACGCCAGCCGCGAGATGTGTTTCTTGTTCAGCGACAGGTACAAGT  
 TCCAGACGTGGCGGCAGCTGTGGCTGTGGCTGGCGGAGGCCGAACAGACGCTGGGTTTGCCTATCACAGA  
 TGAACAAATCCAGGAGATGAAGTCGAACCTGAACAACATTGACTTCCAGATGGCAGCTGAGGAAGAGAAG  
 CGCCTGCGGCACGACGTGATGGCTCACGTGCACACGTTTCGGCCACTGCTGCCGAAAGCTGCGGGCATT  
 TTCATCTGGCGGCCACCTCCTGTATGTGCGGAGACAATACGGACCTGATTATTCTGAGAAATGCATTTGA  
 CCTACTTTTGCCAAAGCTTGCTAGAGTGATCTCGAGGCTTGCCGACTTTGCTAAGGATCGTGCTGATCTG  
 CCCACGTTAGGTTTCACACACTTTCAGCCTGCTCAGCTGACCACGTTGGGAAACGATGCTGCCTTTGGA  
 TTCAAGATCTCTGCATGGATCTCCAGAACTTGAAGCGTGTCCGGGATGAGCTGCGCTTCCGAGGAGTAAA  
 GGGCACCCTGGCAGCAGGCCAGCTTCTGCAGCTTTCGAGGGGGATCACCAGAAGGTGGAGCAGCTG  
 GACAAGATGGTGACAGAAAAGGCAGGGTTTAAAAGAGCCTTCATCATCACAGGACAGACGTACACACGGA  
 AAGTGGACATCGAAGTGTGTCTGTGCTGGCCAGCTTAGGAGCATCGGTGCACAAGATTTGCACTGACAT  
 ACGCCTGTGGCAAACCTGAAGGAGATGGAGGAGCCCTTTGAGAAACAGCAGATTGGCTCCAGTGGATG  
 CCGTACAAGCGGAACCCCATGCGCTCCGAACGTTGCTGCAGCCTGGCCCGTCACCTGATGGCCCTTACCA  
 TGGACCCACTACAGACAGCGTCTGTGCAGTGGTTGAACGTAAGTCTGGATGACAGTGCCAACCGACGGAT  
 CTGTTTGGCTGAAGCGTTTCTCACTGCAGATACTATATTAACACCCCTACAGAACATTTCTGAAGGATTG  
 GTGGTGTACCCCAAAGTAATTGAACGGCGCATTCCGCAAGAGCTGCCTTTCATGGCCACAGAGAATCA  
 TCATGGCAATGGTGAAAGCCGGGGCAGCCGACAGGACTGCCATGAGAAAATTAGAGTGCTTTCCAGCA  
 GGCAGCTGCTGTGGTCAAGCAGGAAGGAGGTGACAATGACCTTATAGAGCGCATCCGGGCAGATGCCTAC  
 TTCAGCCCATCCACTCACAGCTGGAGCACTTGTGGACCCCTCTTTTCACTGGCCGAGCAGCCAGCAGC  
 AGGTCCACAGATTCTGGAAGAGGAAGTGCGCCCTGCTAAAGCCCTATGGGAATGAGATGGCGGTGAA  
 AGCAGAGCTGTGTCTGTAGAGTAGGAGAGCTGAGGAGAACCCGTTACAGTGATTAGAGCTTGTGATTA  
 CAGTGTTAGAGTTACTACTGTGTTCTGCGGCACTCCTTTACACACTCAGGAGGCAGAGGCAGGATCT  
 CTGAGTTCAAGGCCAGCCTGGTCTACAAAACAAGTTCCAGGACAGCCAGGCTACACAGAGAAAACCTGT  
 CTCAACAAAACAAACAGAGGCTGGGGACATGGCACTGACTGCTTCCAAAGTCTGAGTTCAAAT  
 CCCAGCAACCACATGGTGGCTCACAACCATCTGTAATGAGATCTGATGCCCTTCTGCTGATGAAGAC  
 AGCTACAGTGATTATACATACATAAAAATAAATGAATCTTTAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_009634

**Insert Size:** 1455 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:** [BC020187](#), [AAH20187](#)

RefSeq Size: 1875 bp

RefSeq ORF: 1455 bp

Locus ID: 11564

UniProt ID: [P54822](#)

Cytogenetics: 15 37.95 cM

**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]