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Product datasheet for RC208536

ADSS1 (NM_152328) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADSS1 (NM_152328) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADSS1
Synonyms:	ADSSL1; MPD5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208536 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGGGGACCCGAGCCTCCAACGACCGGCCCCCCGGCGCAGGCGGCGTCAAGCGGGGGCGGCTGCAGC
AGGAGGCGGCGGCGACCGGCTCCCGCGTGACGGTGGTGCTGGGCGCGCAGTGGGGGGACGAGGGCAAAGG
CAAGGTGGTGGACCTGCTGGCCACGGACGCCGACATCATCAGCCGCTGCCAGGGGGGCAACAACGCCGGC
CACACGGTGGTGGTGGATGGGAAAGAGTACGACTTCCACCTGCTGCCCAGCGGCATCATCAACACCAAGG
CCGTGTCCTTCATTGGCAACGGGGTGGTCATCCACTTGCCAGGCTTGTTTGAGGAAGCAGAGAAGAATGA
AAAGAAAGGCCTGAAGGACTGGGAGAAGAGGCTCATCATCTCTGACAGAGCCCACCTTGTGTTTGATTTT
CACCAGGCTGTCGACGGACTTCAGGAAGTGCAGCGCCAGGCACAAGAGGGGAAGAATATAGGCACCACCA
AGAAGGGAATCGGACCAACCTACTCTTCCAAAGCTGCCCGGACAGGCCTCCGCATCTGCGACCTCCTGTC
AGATTTTGATGAGTTTTCCTCCAGATTCAAGAACCTGGCCCACCAGCACCAGTCGATGTTCCCCACCCTG
GAAATAGACATTGAAGGCCAACTCAAAAGGCTCAAGGGCTTTGCTGAGCGGATCAGACCCATGGTCCGAG
ATGGTGTTTACTTTATGTATGAGGCACTCCACGGCCCCCCCAAGAAGATCCTGGTGGAGGGTGCCAACGC
CGCCCTCCTCGACATTGACTTCGGGACCTACCCCTTTGTGACTTCATCCAACTGCACCGTGGGCGGTGTG
TGCACGGGCCTGGGCATCCCCCCGCAGAACATAGGTGACGTGTATGGCGTGGTGAAAGCCTATACCACAC
GTGTGGGCATCGGGGCCTTCCCCACCGAGCAGATCAACGAGATTGGAGGCCTGCTGCAGACCCGCGGCCA
CGAGTGGGGAGTGACCACAGGCAGGAAGAGGCGCTGCGGCTGGCTCGACCTGATGATTCTAAGATATGCT
CACATGGTCAACGGATTCACTGCGCTGGCCCTGACGAAGCTGGACATCCTGGACGTACTGGGTGAGGTTA
AAGTCGGTGTCTCATACAAGCTGAACGGGAAAAGGATTCCCTATTTCCCAGCTAACCAGGAGATGCTTCA
GAAGGTCGAAGTTGAGTATGAAACGCTGCCTGGGTGGAAAGCAGACACCACAGGCGCCAGGAGGTGGGAG
GACCTGCCCCCACAGGCCCAGAACTACATCCGCTTTGTGGAGAATCACGTGGGAGTCGCAGTCAAATGGG
TTGGTGTTGGCAAGTCAAGAGAGTCGATGATCCAGCTGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208536 protein sequence
Red=Cloning site Green=Tags(s)

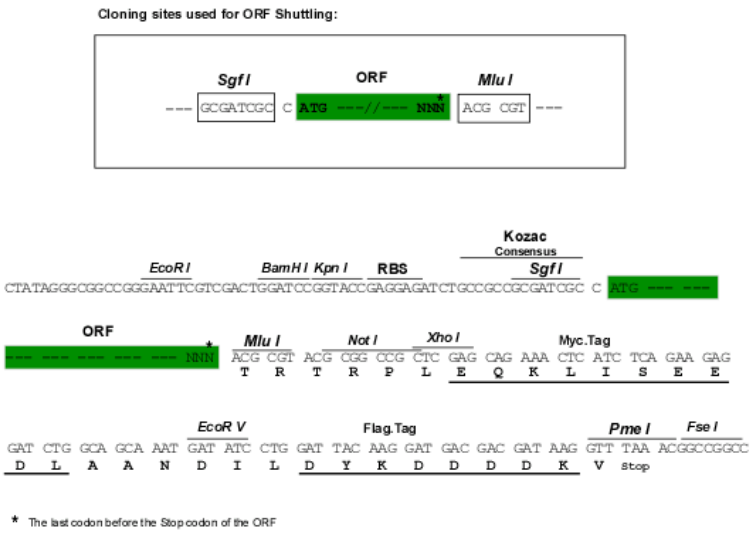
MSGTRASNDRPPGAGGVKRGRLQQEAAATGSRVTVVLGAQWGDEGKGKVVDLLATDADIISRCQGGNNAG
HTVVVDGKEYDFHLLPSGIINTKAVSFIGNGVVIHLPGLFEEAEKNEKKGLKDWEKRLIISDRAHLVFDF
HQAVDGLQEVQRQAQEGKNIGTTKKGIGPTYSSKAARTGLRICDLLSDFDEFSSRFKNLAHQHQSMFPTL
EIDIEGQLKRLKGFAERIRPMVRDGVYFMYEALHGPPKKILVEGANAALLDIDFGTYPFVTSSNCTVGGV
CTGLGIPPQNIGDVYGVVKAYTTRVGIGAFPTEQINEIGGLLQTRGHEWGVTTGRKRRCGWLDLMILRYA
HMVNGFTALALTKLDILDVLGEVKVGVSYKLNGKRIPYFPANQEMLQKVEVEYETLPGWKADTTGARRWE
DLPPQAQNYIRFVENHVGVAVKWVGVGKSRESMIQLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6532_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152328

ORF Size: 1371 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_152328.5

RefSeq Size: 1769 bp

RefSeq ORF: 1374 bp

Locus ID: 122622

UniProt ID: Q8N142

Cytogenetics: 14q32.33

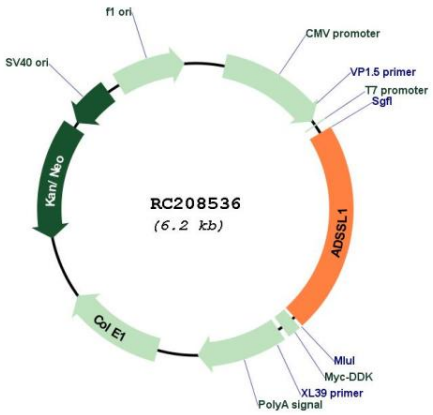
Domains: Adenylsucc_synt

Protein Pathways: Alanine, aspartate and glutamate metabolism, Metabolic pathways, Purine metabolism

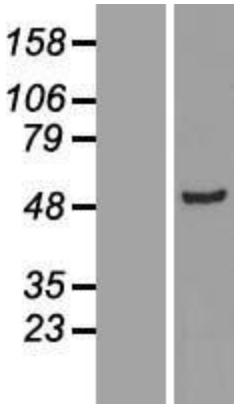
MW: 50.2 kDa

Gene Summary: This gene encodes a member of the adenylosuccinate synthase family of proteins. The encoded muscle-specific enzyme plays a role in the purine nucleotide cycle by catalyzing the first step in the conversion of inosine monophosphate (IMP) to adenosine monophosphate (AMP). Mutations in this gene may cause adolescent onset distal myopathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

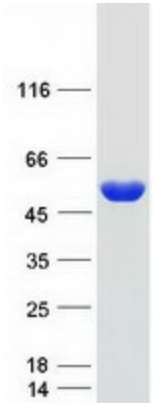
Product images:



Circular map for RC208536



Western blot validation of overexpression lysate (Cat# [LY407633]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208536 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ADSSL1 protein (Cat# [TP308536]). The protein was produced from HEK293T cells transfected with ADSSL1 cDNA clone (Cat# RC208536) using MegaTran 2.0 (Cat# [TT210002]).