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Product datasheet for RC215329

ADSS1 (NM_199165) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADSS1 (NM_199165) 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:

>RC215329 representing NM_199165
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGGGAGGAGCTGTGGGGTGGCAACCCAGAGGCAAGGAGGTGGGCAGAGGCCCACGAACCTGGCCC
TGACCCTCAGCTCGTCCCCAGCTCACAGCACAGCCCTCCCCTGGCTGCCTCCAAGGAGTCTCCAGTTACT
GAGTGGCCACTCCGTGCCAGCTCAGCCCACCCCTCACCTTCCCAGTGCCTGTGGAGGCCCAACTAGGGTG
ACGCTGGGAGAGGAGAGGGCTTGGAGGAGCCACGGGTCAAATGCAGGAGGCCACACCTGCCTGCCCAGGA
GGACTGCAGGAGCCGGATCCTTAACACCTGGAGGGGAGCGGGGGGGCAACAACGCCGGCCACACGGTGGT
GGTGGATGGGAAAGAGTACGACTTCCACCTGCTGCCCAGCGGCATCATCAACACCAAGGCCGTGTCCTTC
ATTGGCAACGGGGTGGTCATCCACTTGCCAGGCTTGTTTGAGGAAGCAGAGAAGAATGAAAAGAAAGGCC
TGAAGGACTGGGAGAAGAGGCTCATCATCTCTGACAGAGCCCACCTTGTGTTTGATTTTCACCAGGCTGT
CGACGGACTTCAGGAAGTGCAGCGCCAGGCACAAGAGGGGAAGAATATAGGCACCACCAAGAAGGGAATC
GGACCAACCTACTCTTCCAAAGCTGCCCGGACAGGCCTCCGCATCTGCGACCTCCTGTCAGATTTTGATG
AGTTTTCCTCCAGATTCAAGAACCTGGCCCACCAGCACCAGTCGATGTTCCCCACCCTGGAAATAGACAT
TGAAGGCCAACTCAAAAGGCTCAAGGGCTTTGCTGAGCGGATCAGACCCATGGTCCGAGATGGTGTTTAC
TTTATGTATGAGGCACTCCACGGCCCCCCCAAGAAGATCCTGGTGGAGGGTGCCAACGCCGCCCTCCTCG
ACATTGACTTCGGGACCTACCCCTTTGTGACTTCATCCAACTGCACCGTGGGCGGTGTGTGCACGGGCCT
GGGCATCCCCCCGCAGAACATAGGTGACGTGTATGGCGTGGTGAAAGCCTATACCACACGTGTGGGCATC
GGGGCCTTCCCCACCGAGCAGATCAACGAGATTGGAGGCCTGCTGCAGACCCGCGGCCACGAGTGGGGAG
TGACCACAGGCAGGAAGAGGCGCTGCGGCTGGCTCGACCTGATGATTCTAAGATATGCTCACATGGTCAA
CGGATTCACTGCGCTGGCCCTGACGAAGCTGGACATCCTGGACGTACTGGGTGAGGTTAAAGTCGGTGTC
TCATACAAGCTGAACGGGAAAAGGATTCCCTATTTCCCAGCTAACCAGGAGATGCTTCAGAAGGTCGAAG
TTGAGTATGAAACGCTGCCTGGGTGGAAAGCAGACACCACAGGCGCCAGGAGGTGGGAGGACCTGCCCCC
ACAGGCCCAGAACTACATCCGCTTTGTGGAGAATCACGTGGGAGTCGCAGTCAAATGGGTTGGTGTTGGC
AAGTCAAGAGAGTCGATGATCCAGCTGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215329 representing NM_199165
Red=Cloning site Green=Tags(s)

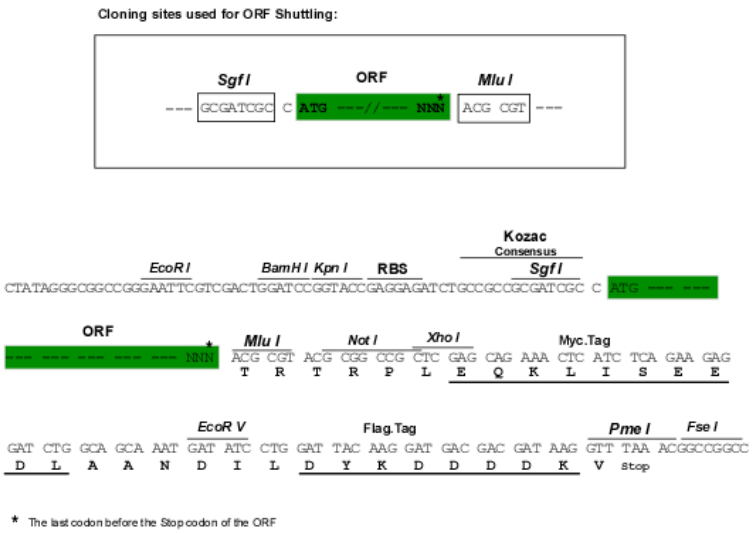
MVGRSCGVATQRQGGGQRPTNLALTLSSSPAHSTALPWLPPRSLQLLSGHSVPAQPTPHLPSACGGPTRV
TLGEERAWRSHGSNAGGHTCLPRRTAGAGSLTPGGERGGNNAGHTVVVDGKEYDFHLLPSGIINTKAVSF
IGNGVVIHLPGLFEEAEKNEKKGLKDWEKRLIISDRAHLVFDFHQAVDGLQEVQRQAQEGKNIGTTKKGI
GPTYSSKAARTGLRICDLLSDFDEFSSRFKNLAHQHQSMFPTLEIDIEGQLKRLKGFAERIRPMVRDGVY
FMYEALHGPPKKILVEGANAALLDIDFGTYPFVTSSNCTVGGVCTGLGIPPQNIGDVYGVVKAYTTRVGI
GAFPTEQINEIGGLLQTRGHEWGVTTGRKRRCGWLDLMILRYAHMVNGFTALALTKLDILDVLGEVKVGV
SYKLNGKRIPYFPANQEMLQKVEVEYETLPGWKADTTGARRWEDLPPQAQNYIRFVENHVGVAVKWVGVG
KSRESMIQLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8063_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_199165

ORF Size: 1500 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

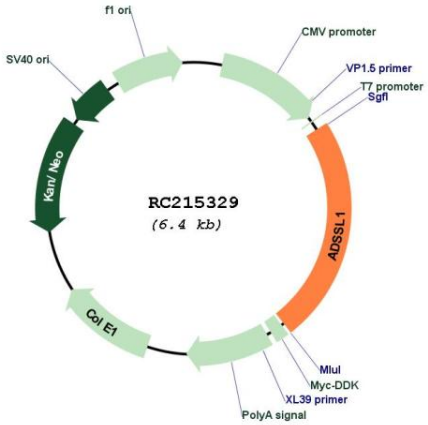
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

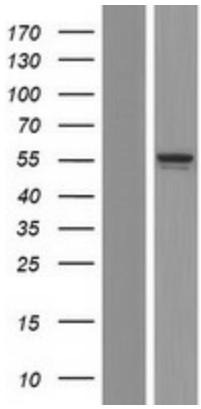
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_199165.2
RefSeq Size:	1826 bp
RefSeq ORF:	1503 bp
Locus ID:	122622
UniProt ID:	Q8N142
Cytogenetics:	14q32.33
Protein Pathways:	Alanine, aspartate and glutamate metabolism, Metabolic pathways, Purine metabolism
MW:	54.4 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 RC215329



Western blot validation of overexpression lysate (Cat# [LY404666]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215329 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).