

## Product datasheet for **RG208536**

### **ADSS1 (NM\_152328) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ADSS1 (NM_152328) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADSS1
Synonyms:	ADSSL1; MPD5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208536 representing NM\_152328  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGGGGACCCGAGCCTCCAACGACCGCCCCCGCGCAGGGCGGTCAAGCGGGGGCGGTGCAGC  
 AGGAGGCGGCGGCGACCGCTCCCGCTGACGGTGGTGTCTGGCGCGCAGTGGGGGACGAGGGCAAAGG  
 CAAGGTGGTGGACCTGCTGGCCACGACCGGACATCATCAGCCGCTGCCAGGGGGCAACAACGCCGGC  
 CACACGGTGGTGGATGGAAAGAGTACGACTTCCACCTGCTGCCAGCGGCATCATCAACACCAAGG  
 CCGTGTCTTCATTGGCAACGGGGTGGTATCCACTTCCAGGCTTGTGGAGGAAGCAGAGAAGAATGA  
 AAAGAAAGGCCTGAAGGACTGGGAGAAGAGGCTCATCATCTGACAGAGCCACCTTGTGTTTATTTT  
 CACCAGGTGTCGACGGACTTCAGGAAGTGCAGCGCCAGGCACAAGAGGGGAAGAATATAGGCACCACCA  
 AGAAGGGAAATCGACCAACCTACTTCCAAAGCTGCCCGACAGGCCTCCGCATCTGCGACCTCCTGTC  
 AGATTTTATGATGATTTTCTCCAGATTCAGAACCTGGCCACCAGCACCAGTCGATGTTCCCCACCTG  
 GAAATAGACATTGAAGGCCAACTCAAAGGCTCAAGGGCTTTGCTGAGCGGATCAGACCCATGGTCCGAG  
 ATGGTGTACTTTATGTATGAGGCACTCCACGGCCCCCAAGAAGATCCTGGTGGAGGGTGCACACGC  
 CGCCCTCCTCGACATTGACTTCGGGACCTACCCCTTTGTACTTCATCCAACCTGCACCGTGGGCGGTGTG  
 TGCACGGGCTGGGCATCCCCCGCAGAACATAGGTGACGTGTATGGCGTGGTGAAGCCTATACCACAC  
 GTGTGGGCATCGGGCCCTCCCCACCGAGCAGATCAACGAGATTGGAGGCTGCTGCAGACCCGCGGCCA  
 CGAGTGGGAGTGACCACAGGCAGGAAGAGGCGCTGCGGCTGGCTCGACCTGATGATTCTAAGATATGCT  
 CACATGGTCAACGGATTCAGTGCCTGGCCCTGACGAAGCTGGACATCCTGGACGTACTGGGTGAGGTTA  
 AAGTCGGTGTCTCATAACAAGCTGAACGGGAAAAGGATCCCTATTTCCAGCTAACCCAGGAGATGCTTCA  
 GAAGGTCGAAGTTGAGTATGAAACGCTGCCTGGGTGAAAAGCAGACACCACAGGCCCCAGGAGGTGGGAG  
 GACCTGCCCCACAGGCCAGAACTACATCCGCTTTGTGGAGAATCACGTGGGAGTCGCAGTCAAATGGG  
 TTGGTGTGGCAAGTCAAGAGAGTCGATGATCCAGCTGTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208536 representing NM\_152328  
 Red=Cloning site Green=Tags(s)

MSGTRASNDRPPGAGGVKRRLQQEAAATGSRVTVVLGAQWDEGKGVVDLLATDADIISRCQGGNNAG  
 HTVVVDGKEYDFHLLPSGIINTKAVSFIGNGVVIHLPLGFEEAEKNEKGLKDWEKRLIISDRAHLVDFD  
 HQAVDGLQEVQRQAQEGKNIGTTKKGIGPTYSSKAARTGLRICDLLSDFDEFSSRFKNLAHQHSMFPTL  
 EIDIEGQLKRLKGAERIRPMVRDGVYFMYEALHGPPKILVEGANAALLDIDFGTYPFVTSNCTVGGV  
 CTGLGIPPQNIQDVYGVVKAYTTRVIGAFPTEQINEIGLLQTRGHEWGVTTGRKRRCGWLDLMILRYA  
 HVMNGFTALALTKLDILDVLGEVKVGVSYKLNKRIPIYFPANQEMLQKVEVEYETLPGWKADTTGARRWE  
 DLPPQAQNYIRFVENHVGAVKVVGVGKSRESMIQLF

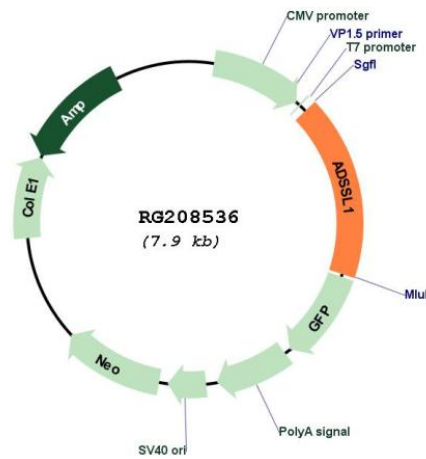
**TR**TRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**Plasmid Map:**

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_152328.5</a>
<b>RefSeq Size:</b>	1769 bp
<b>RefSeq ORF:</b>	1374 bp
<b>Locus ID:</b>	122622
<b>UniProt ID:</b>	<a href="#">Q8N142</a>
<b>Cytogenetics:</b>	14q32.33
<b>Domains:</b>	Adenylsucc_synt
<b>Protein Pathways:</b>	Alanine, aspartate and glutamate metabolism, Metabolic pathways, Purine metabolism
<b>Gene Summary:</b>	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]