

Product datasheet for **SC320331**

ASS1 (NM_054012) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASS1 (NM_054012) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASS1
Synonyms:	ASS; CTLN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_054012.3
 CTTATAACCTGGGATGGGCACCCCTGCCAGTCCTGCTCTGCCGCCTGCCACCGCTGCCCC
 AGCCCCAGCCTATGTCCAGCAAAGGCTCCGTGGTTCTGGCCTACAGTGGCGGCCTGGACA
 CCTCGTGCATCCTCGTGTGGCTGAAGGAACAAGGCTATGACGTCATTGCCTATCTGGCCA
 ACATTGGCCAGAAGGAAGACTTCGAGGAAGCCAGGAAGAAGGCACTGAAGCTTGGGGCCA
 AAAAGGTGTTTCATTGAGGATGTCAGCAGGGAGTTTGTGGAGGAGTTCATCTGGCCGGCCA
 TCCAGTCCAGCGCACTGTATGAGGACCGCTACCTCCTGGGCACCTCTCTTGCCAGGCCCT
 GCATCGCCCGCAAACAAGTGAAATCGCCACGGGAGGGGGCCAAGTATGTGTCCACG
 GCGCCACAGGAAAGGGGAACGATCAGGTCGGTTTGTAGCTCAGCTGCTACTCACTGGCCC
 CCCAGATAAAGGTCATTGCTCCCTGGAGGATGCCTGAATTCTACAACCGTTCAAGGGCC
 GCAATGACCTGATGGAGTACGCAAAGCAACACGGGATTCCCATCCCGTCACTCCCAAGA
 ACCCGTGGAGCATGGATGAGAACCTCATGCACATCAGCTACGAGGCTGGAATCCTGGAGA
 ACCCCAAGAACCAAGCGCTCCAGTCTCTACACGAAGACCCAGGACCCAGCCAAAGCCC
 CCAACACCCTGACATTCTCGAGATCGAGTTCAAAAAAGGGTCCCTGTGAAGGTGACCA
 ACGTCAAGGATGGCACCACCCACCAGACCTCCTTGGAGCTCTTACGTACCTGAACGAAG
 TCGCGGGCAAGCATGGCGTGGGCGTATTGACATCGTGGAGAACCCTTCAATTGGAATGA
 AGTCCCGAGGTATCTACGAGACCCAGCAGGCACCATCCTTTACCACGCTCATTTAGACA
 TCGAGGCCTTACCATGGACCGGAAAGTGCGAAAATCAAACAAGGCCTGGGCTTGAAT
 TTGCTGAGCTGGTGTATACCGGTTTCTGGCACAGCCCTGAGTGTGAATTTGTCCGCCACT
 GCATCGCAAGTCCCAGGAGCGAGTGGAAGGAAAAGTGCAGGTGTCCGTCTCAAGGGCC
 AGGTGTACATCCTCGCCGGGAGTCCCCACTGTCTCTACAATGAGGAGCTGGTGAGCA
 TGAACGTGCAGGGTATTATGAGCCAACCTGATGCCACCGGGTTCATCAACATCAATTCCC
 TCAGGTGAAGGAATATCATCGTCTCCAGAGCAAGGTCCTGCCAAATAGACCCGTGTAC
 AATGAGGAGCTGGGGCCTCCTCAATTTGCAGATCCCCAAGTACAGGCGCTAATTGTTGT
 GATAATTTGTAATTGTGACTTGTCTCCCGGCTGGCAGCGTAGTGGGGTGCCAGGCC
 CAGCTTTGTTCCCTGGTCCCCTGAAGCCTGCAAACGTTGTATCGAAGGGAAGGGTGGG
 GGGCAGCTGCGGTGGGGAGCTATAAAAATGACAATTAAGAGACTAGTCTTTTATT
 CTAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_054012
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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:	<ol style="list-style-type: none">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:	<u>NM_054012.3, NP_446464.1</u>
RefSeq Size:	1801 bp
RefSeq ORF:	1239 bp
Locus ID:	445
UniProt ID:	<u>P00966</u>
Cytogenetics:	9q34.11
Domains:	Arginosuc_synth
Protein Families:	Druggable Genome
Protein Pathways:	Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, Metabolic pathways
Gene Summary:	<p>The protein encoded by this gene catalyzes the penultimate step of the arginine biosynthetic pathway. There are approximately 10 to 14 copies of this gene including the pseudogenes scattered across the human genome, among which the one located on chromosome 9 appears to be the only functional gene for argininosuccinate synthetase. Mutations in the chromosome 9 copy of this gene cause citrullinemia. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2012]</p> <p>Transcript Variant: This variant (2) lacks an exon in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.</p>