

Product datasheet for **SC321423**

Asparagine synthetase (ASNS) (NM_183356) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asparagine synthetase (ASNS) (NM_183356) Human Untagged Clone
Tag:	Tag Free
Symbol:	Asparagine synthetase
Synonyms:	ASNSD; TS11
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_183356.1
 CTGACCTGCTTACGCCAGCCTGTGGACATTTTCGCGGTCCGGTCCCTGCGGCGGACGG
 GTCGGATCGTGCTCGTGGCCAGGGCGCAGTCAGGTGTCGCGTGGTCTGATCTAGGAAGA
 GACTGCGGCTTATCACCGTCTCGGTGTCTGCTTTCACCTTCACTGACCCCTCCTCAC
 CTGGACCGCTCACCTCCTCCTCCCTCTACCCCGCCATCCCCACCAGTCCCCACCTGT
 CTCTGTAGACTGCAAGACTCATCAAGTACTTGGTGTGAGCAAACCTGCCGAGAAGAGATT
 TTCTTCAATCACATCTGAATAAATCACTTGAAGAAAGCTTATAGCTTCATTGCACCATGT
 GTGGCATTGGGCGCTGTTTGGCAGTGATGATTGCCTTTCTGTTCAAGTGTCTGAGTGCTA
 TGAAGATTGCACACAGAGGTCCAGATGCATTCCGTTTTGAGAATGTCAATGGATACACCA
 ACTGCTGCTTTGGATTTACCGGTTGGCGGTAGTTGACCCGCTGTTTGAATGCAGCCAA
 TTCGAGTGAAGAAATATCCGATTTTGGGCTCTGTTACAATGGTGAATCTACAACCATA
 AGAAGATGCAACAGCATTTTGAATTTGAATACCAGACCAAAGTGGATGGTGAATAATCC
 TTCATCTTTATGACAAAGGAGGAATTGAGCAAACAATTTGTATGTTGGATGGTGTGTTTG
 CATTTGTTTTACTGGATACTGCCAATAAGAAAGTTCCTGGGTAGAGATACATATGGAG
 TCAGACCTTTGTTAAAGCAATGACAGAAGATGGATTTTTGGCTGTATGTTGAGAAGCTA
 AAGGTCTTGTTACATTGAAGCACTCCGCGACTCCCTTTTTAAAGTGGAGCCTTTTCTTC
 CTGGACACTATGAAGTTTTGGATTTAAAGCCAAATGGCAAAGTTCATCCGTGGAATGG
 TAAATATCATCACTGTGCGGATGAACCCTGCACGCCCTATGACAATGTGGAGAAAC
 TCTTTCCAGGTTTTGAGATAGAACTGTGAAGAACAACCTCAGGATCCTTTTTAATAATG
 CTGTAAGAAACGTTTTGATGACAGACAGAAGGATTGGCTGCCTTTTATCAGGGGGCTTG
 ACTCCAGCTTGGTTGCTGCCACTCTGTTGAAGCAGCTGAAAGAAGCCCAAGTACAGTATC
 CTCTCCAGACATTTGCAATTGGCATGGAAGACAGCCCGATTTACTGGCTGCTAGAAAGG
 TGGCAGATCATATTGGAAGTGAACATTATGAAGTCCTTTTTAACTCTGAGGAAGGCATTC
 AGGCTCTGGATGAAGTCATATTTTCCTTGAAACTTATGACATTACAACAGTTCGTGCTT
 CAGTAGGTATGATTTAATTTCCAAGTATATTCGGAAGAACACAGATAGCGTGGTGATCT
 TCTCTGGAGAAGGATCAGATGAACCTACGCAGGGTTACATATATTTTACAAGGCTCCTT
 CTCCTGAAAAAGCCGAGGAGGAGAGTGAGAGGCTTCTGAGGGAACCTATTTGTTTGATG
 TTCTCCGCGCAGATCGAACTACTGCTGCCCATGGTCTTGAAGTGAAGTCCCATTCTAG
 ATCATCGATTTTCTTCTATTACTTGTCTCTGCCACCAGAAATGAGAATCCAAAGAATG
 GGATAGAAAAACATCTCCTGAGAGAGACGTTTGGAGATTCCAATCTGATACCCAAAGAGA
 TTCTCTGGCGACAAAAGAAGCCTTCAGTGATGGAATAACTTCAGTTAAGATTCCTGGT
 TTAAGATTTTACAGGAATACGTTGAACATCAGGTTGATGATGCAATGATGGCAAATGCAG
 CCCAGAAATTTCCCTTCAATACTCCTAAAACCAAAGAAGGATATTACTACCGTCAAGTCT
 TTGAACGCCATTACCCAGGCCGGGCTGACTGGCTGAGCCATTACTGGATGCCCAAGTGG
 TCAATGCCACTGACCTTCTGCCCGCAGCTGACCCACTACAAGTCAAGTGTCAAAGCTT
 AGGTGGTCTTTATGCTGTAATGTGAAAGCAAATATTTCTCGTGTGGATGGGGACTGTG
 GGTAGATAGGGGAACAATGAGAGTCAACTCAGGCTAACTGGGTGTGAAAAAATAAAG
 TCCTAAATCTAA
 AAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_183356

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:	NM_183356.1 , NP_899199.1
RefSeq Size:	2345 bp
RefSeq ORF:	1686 bp
Locus ID:	440
UniProt ID:	P08243
Cytogenetics:	7q21.3
Protein Families:	Druggable Genome
Protein Pathways:	Alanine, aspartate and glutamate metabolism, Metabolic pathways, Nitrogen metabolism
Gene Summary:	<p>The protein encoded by this gene is involved in the synthesis of asparagine. This gene complements a mutation in the temperature-sensitive hamster mutant ts11, which blocks progression through the G1 phase of the cell cycle at nonpermissive temperature. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, May 2010]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3, and 7 encode the same isoform (a).</p>