

## Product datasheet for **SC321218**

### Asparagine synthetase (ASNS) (NM\_001673) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Asparagine synthetase (ASNS) (NM_001673) 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\_001673.2  
 GCCGCCGTCAAGCTGTCCACATCCCTGGCCTCAGCCCGCCACATCACCTGACCTGCTT  
 ACGCCCAGATTTTCTTCAATCACATCTGAATAAATCACTTGAAGAAAGCTTATAGCTTCA  
 TTGCACCATGTGTGGCATTGGGCGCTGTTGGCAGTGATGATTGCCTTTCTGTTTCAGTG  
 TCTGAGTGCTATGAAGATTGCACACAGAGGTCCAGATGCATTCCGTTTGGAGAATGTCAA  
 TGGATACACCAACTGCTGCTTTGGATTTACCGGTTGGCGGTAGTTGACCCGCTGTTGG  
 AATGCAGCCAATTGAGTGAAGAAATATCCGTATTTGTGGCTCTGTTACAATGGTGAAT  
 CTACAACCATAAGAAGATGCAACAGCATTGAAATTTGAATACCAGACCAAAGTGGATGG  
 TGAGATAATCCTTCATCTTTATGACAAAGGAGGAATTGAGCAAACAATTTGTATGTTGGA  
 TGGTGTGTTTGCATTTGTTTACTGGATACTGCCAATAAGAAAGTGTTCCTGGGTAGAGA  
 TACATATGGAGTCAGACCTTTGTTAAAGCAATGACAGAAGATGGATTTTGGCTGTATG  
 TTCAGAAGCTAAAGTCTTGTACATTGAAGCACTCCGCGACTCCCTTTTTAAAAGTGGGA  
 GCCTTTTCTTCTGGACACTATGAAGTTTGGATTTAAAGCCAAATGGCAAAGTGCATC  
 CGTGGAATGGTTAAATATCATCACTGTGGGATGTACCCCTGCACGCCCTCTATGACAA  
 TGTGGAGAAACTTTCCAGTTTTGAGATAGAACTGTGAAGAACAACCTCAGGATCCT  
 TTTAATAATGCTGTAAAGAAACGTTTGTGACAGACAGAAGGATTGGCTGCCTTTTATC  
 AGGGGGCTTGGACTCCAGCTTGGTTGCTGCCACTCTGTTGAAGCAGCTGAAGAAGCCCA  
 AGTACAGTATCCTCTCCAGACATTTGCAATTGGCATGGAAGACAGCCCGATTTACTGGC  
 TGCTAGAAAGGTGGCAGATCATATTGGAAGTGAACATTATGAAGTCCTTTTAACTCTGA  
 GGAAGGCATTGAGGCTCTGGATGAAGTCATATTTTCTTGGAACTTATGACATTACAAC  
 AGTTCGTGCTTCAGTAGGTATGTATTTAATTTCCAAGTATATTCGGAAGAACACAGATAG  
 CGTGGTGATCTTCTCTGGAGAAGGATCAGATGAACTTACGCAGGGTTACATATATTTTCA  
 CAAGGCTCCTTCTCTGAAAAAGCCGAGGAGAGAGTGAAGGCTTCTGAGGGAACCTCA  
 TTTGTTTGTATGTTCTCCGCGCAGATCGAACTACTGCTGCCCATGGTCTTGAAGTGAAGT  
 CCCATTTCTAGATCATCGATTTTCTTCTTACTTGTCTCTGCCACCAGAAATGAGAAT  
 TCCAAAGAATGGGATAGAAAAACATCTCCTGAGAGAGACGTTTGGAGATTCCAATCTGAT  
 ACCCAAAGAGATTCTCTGGCGACCAAAAAGCCTTCAAGTATGGAATAAAGTCAAGTTAA  
 GAATTCCTGGTTAAGATTTTACAGGAATACGTTGAACATCAGGTTGATGATGCAATGAT  
 GGCAAATGCAGCCAGAAATTTCCCTTCAATACTCTAAAACCAAAGAAGGATATTACTA  
 CCGTCAAGTCTTTGAACGCCATTACCCAGGCCGGGCTGACTGGCTGAGCCATTACTGGAT  
 GCCCAAGTGGATCAATGCCACTGACCCTTCTGCCCGCACGCTGACCCACTACAAGTCAGC  
 TGTCAAAGCTTAGTGGTCTTTATGCTGTAAATGTGAAAGCAAATATTTCTTCGTGTTGGA  
 TGGGGACTGTGGGTAGATAGGGGAACAATGAGAGTCAACTCAGGCTAACTGGGTGTGAA  
 AAAAAATAAAGTCTAAATCTAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_001673

**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).

<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_001673.2</a> , <a href="#">NP_001664.2</a>
<b>RefSeq Size:</b>	1994 bp
<b>RefSeq ORF:</b>	1686 bp
<b>Locus ID:</b>	440
<b>UniProt ID:</b>	<a href="#">P08243</a>
<b>Cytogenetics:</b>	7q21.3
<b>Domains:</b>	GATase_2, Asn_synthase
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Alanine, aspartate and glutamate metabolism, Metabolic pathways, Nitrogen metabolism
<b>Gene Summary:</b>	<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 (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3, and 7 encode the same isoform (a).</p>