

Product datasheet for **SC328783**

Asparagine synthetase (ASNS) (NM_001178077) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Asparagine synthetase (ASNS) (NM_001178077) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | ASNS |
| Synonyms: | ASNSD; TS11 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001178077, the custom clone sequence may differ by one or more nucleotides |

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ATGCAACAGCATTGGAATTTGAATACCAGACCAAGTGGATGGTGGAGATAATCCTTCAT
CTTTATGACAAAGGAGGAATTGAGCAAACAATTTGTATGTTGGATGGTGTGTTTGCATTT
GTTTTACTGGATACTGCCAATAAGAAAGTGTTCCTGGGTAGAGATACATATGGAGTCAGA
CCTTTGTTTAAAGCAATGACAGAAGATGGATTTTTGGCTGTATGTTCAGAAGCTAAAGGT
CTTGTTACATTGAAGCACTCCGCGACTCCCTTTTTAAAAGTGGAGCCTTTTCTTCTGGA
CACTATGAAGTTTTGGATTTAAAGCCAAATGGCAAAGTTGCATCCGTGGAAATGGTTAA
TATCATCACTGTCGGGATGTACCCCTGCACGCCCTCTATGACAAATGTGGAGAACTCTTT
CCAGGTTTTGAGATAGAACTGTGAAGAACAACCTCAGGATCCTTTTTAATAATGCTGTA
AAGAAACGTTTTGATGACAGACAGAAGGATTGGCTGCCCTTTATCAGGGGGCTTGGACTCC
AGCTTGGTTGCTGCCACTCTGTTGAAGCAGCTGAAAGAAGCCCAAGTACAGTATCCTCTC
CAGACATTTGCAATTGGCATGGAAGACAGCCCGATTTACTGGCTGCTAGAAAGGTGGCA
GATCATATTGGAAGTGAACATTATGAAGTCCTTTTTAACTCTGAGGAAGGCATTCAGGCT
CTGGATGAAGTCATATTTTCCCTTGGAACTTATGACATTACAACAGTTCGTGCTTCAGTA
GGTATGTATTTAATTTCCAAGTATATTCGGAAGAACACAGATAGCGTGGTGATCTTCTCT
GGAGAAGGATCAGATGAACCTACGCAGGGTTACATATATTTTACAAGGCTCCTTCTCCT
GAAAAAGCCGAGGAGGAGAGTGTGAGGCTTCTGAGGGAAGTCTATTTGTTGATGTTCTC
CGCGCAGATCGAACTACTGCTGCCATGGTCTTGAAGTGGAGGATCCCATTTCTAGATCAT
CGATTTTCTTCTATTACTTGTCTCTGCCACCAGAAATGAGAATTCCAAAGAATGGGATA
GAAAAACATCTCCTGAGAGAGACGTTTGGAGATTCCAATCTGATACCCAAAGAGATTCTC
TGGCGACCAAAAAGAAGCCTTCAGTGATGGAATAACTTCAGTTAAGAATTCCTGGTTAAG
ATTTTACAGGAATACGTTGAACATCAGGTTGATGATGCAATGATGGCAAATGCAGCCAG
AAATTTCCCTTCAATACTCCTAAAACCAAGAAGGATATTACTACCGTCAAGTCTTTGAA
CGCCATTACCCAGGCCGGGCTGACTGGCTGAGCCATTACTGGATGCCAAGTGGATCAAT
GCCACTGACCCTTCTGCCCGCAGCTGACCCACTACAAGTCAAGTGTCAAAGCTTAG

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| Restriction Sites: | Please inquire |
| ACCN: | NM_001178077 |
| 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_001178077.1</u> , <u>NP_001171548.1</u> |
| RefSeq Size: | 1709 bp |
| RefSeq ORF: | 1437 bp |
| Locus ID: | 440 |
| UniProt ID: | <u>P08243</u> |
| 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 (6) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (c) is shorter than isoform a. Variants 5 and 6 encode the same isoform (c).</p> |