

Product datasheet for **SC328888**

Asparagine synthetase (ASNS) (NM_001178075) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asparagine synthetase (ASNS) (NM_001178075) 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)



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Fully Sequenced ORF:	<p>>NCBI ORF sequence for NM_001178075, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGAAGATTGCACACAGAGGTCCAGATGCATTCCGTTTTGAGAATGTCAATGGATACACC AACTGCTGCTTTGGATTTACCCGGTTGGCGGTAGTTGACCCGCTGTTTGGAAATGCAGCCA ATTCGAGTGAAGAAATATCCGTATTTGTGGCTCTGTTACAATGGTAAAATCTACAACCAT AAGAAGATGCAACAGCATTTTGAATTTGAATACCAGACCAAAGTGGATGGTGAGATAATC CTTCATCTTTATGACAAAGGAGGAATTGAGCAAACAATTTGTATGTTGGATGGTGTGTTT GCATTTGTTTTACTGGATACTGCCAATAAGAAAAGTGTTCCTGGGTAGAGATACATATGGA GTCAGACCTTTGTTAAAGCAATGACAGAAGATGGATTTTTGGCTGTATGTTCAGAAGCT AAAGGTCTTGTTACATTGAAGCACTCCGCGACTCCCTTTTTAAAAGTGGAGCCTTTTCTT CCTGGACACTATGAAGTTTTGGATTTAAAGCCAAATGGCAAAGTTGCATCCGTGGAAATG GTTAAATATCATCACTGTCGGGATGTACCCCTGCACGCCCTCTATGACAATGTGGAGAAA CTCTTTCCAGTTTTGAGATAGAACTGTGAAGAACAACCTCAGGATCCTTTTTAATAAT GCTGTAAGAAACGTTTTGATGACAGACAGAAGGATTGGCTGCCTTTTATCAGGGGGCTTG GACTCCAGCTTGGTTGCTGCCACTCTGTTGAAGCAGCTGAAAGAAGCCCAAGTACAGTAT CCTCTCCAGACATTTGCAATTGGCATGGAAGACAGCCCGATTTACTGGCTGCTAGAAAAG GTGGCAGATCATATTGGAAGTGAACATTATGAAGTCCTTTTAACTCTGAGGAAGGCATT CAGGCTCTGGATGAAGTCATATTTTCTTGAAACTTATGACATTACAACAGTTCGTGCT TCAGTAGGTATGTATTTAATTTCCAAGTATATTCGGAAGAACACAGATAGCGTGGTGATC TTCTCTGGAGAAGGATCAGATGAACTTACGCAGGGTTACATATATTTTCAAAAGGCTCCT TCTCCTGAAAAGCCGAGGAGGAGAGTGAGAGGCTTCTGAGGGAAGTCTATTTGTTTGTAT GATCATCGATTTTCTTCTATTACTTGTCTCTGCCACCAGAAATGAGAATTCCAAAGAAAT GGGATAGAAAACATCTCCTGAGAGAGAGCTTTGAGGATTCCAATCTGATACCCAAAGAG ATTCTCTGGCGACAAAAGAAGCCTTCAGTGATGGAATAACTTCAGTTAAGAATTCCTGG TTTAAAGATTTTACAGGAATACGTTGAACATCAGGTTGATGATGCAATGATGGCAAATGCA GCCCAGAAATTTCCCTTCAATACTCCTAAAACCAAAGAAGGATATTACTACCGTCAAGTC TTTGAACGCCATTACCCAGGCCGGGCTGACTGGCTGAGCCATTACTGGATGCCCAAGTGG ATCAATGCCACTGACCCTTCTGCCCGCACGCTGACCCACTACAAGTCAGCTGTCAAAGCT TAG </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001178075
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_001178075.1, NP_001171546.1</u>
RefSeq Size:	2010 bp
RefSeq ORF:	1623 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 (4) 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 (b) is shorter than isoform a.</p>