

Product datasheet for **RC230144**

Asparagine synthetase (ASNS) (NM_001178076) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asparagine synthetase (ASNS) (NM_001178076) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Asparagine synthetase
Synonyms:	ASNSD; TS11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230144 representing NM_001178076
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCAACAGCATTGTTGAATTTGAATACCAGACCAAAGTGGATGGTGAGATAATCCTTCATCTTTATGACA
 AAGGAGGAATTGAGCAAACAATTTGTATGTTGGATGGTGTGTTTGCATTTGTTTTACTGGATACTGCCAA
 TAAGAAAGTGTTCCTGGGTAGAGATACATATGGAGTCAGACCTTTGTTTAAAGCAATGACAGAAGATGGA
 TTTTTGGCTGTATGTTTCAAGCTAAAGGTCTTGTACATTGAAGCACTCCGCGACTCCCTTTTTAAAG
 TGGAGCCTTTTCTCCTGGACACTATGAAGTTTGGATTTAAAGCCAAATGGCAAAGTTGCATCCGTGGA
 AATGGTTAAATATCATCACTGTCGGGATGTACCCCTGCACGCCCTCTATGACAATGTGGAGAAACTTTT
 CCAGGTTTTGAGATAGAACTGTGAAGAACAACCTCAGGATCCTTTTTAATAATGCTGTAAGAAACGTT
 TGATGACAGACAGAAGGATTGGCTGCCTTTTATCAGGGGGCTTGGACTCCAGCTTGGTTGCTGCCACTCT
 GTTGAAGCAGCTGAAAGAAGCCCAAGTACAGTATCCTCTCCAGACATTTGCAATTGGCATGGAAGACAGC
 CCCGATTTACTGGCTGCTAGAAAGGTGGCAGATCATATTGGAAGTGAACATTATGAAGTCCTTTTAACT
 CTGAGGAAGCATTACAGCTCTGGATGAAGTCATATTTTCTTGGAAACTTATGACATTACAACAGTTTCG
 TGCTTCAGTAGGTATGTATTTAATTTCCAAGTATATTCGGAAGAACAACAGATAGCGTGGTATCTTCTCT
 GGAGAAGGATCAGATGAACCTACGCAGGGTTACATATATTTTCAAGGCTCCTTCTCCTGAAAAAGCCG
 AGGAGGAGAGTGAGAGGCTTCTGAGGAACTCTATTTGTTTGTATGTTCTCCGCGCAGATCGAACTACTGC
 TGCCCATGGTCTTGAACCTGAGAGTCCCATTCTAGATCATCGATTTTCTTCTTACTTGTCTCTGCCA
 CCAGAAATGAGAATTTCAAAGAATGGGATAGAAAAACATCTCCTGAGAGAGACGTTTGGATTCCAATC
 TGATACCCAAAGAGATTCTCTGGCGACCAAAGAAGCCTTCAGTGATGGAATAACTTCAGTTAAGAAATC
 CTGGTTTTAAGATTTTACAGGAATACGTTGAACATCAGGTTGATGATGCAATGATGGCAAATGCAGCCAG
 AAATTTCCCTTCAATACTCCTAAAACCAAAGAAGGATTTACTACCGTCAAGTCTTTGAACGCCATTACC
 CAGGCCGGGCTGACTGGCTGAGCCATTACTGGATGCCAAGTGGATCAATGCCACTGACCCTTCTGCCCG
 CACGCTGACCCACTACAAGTCAGCTGTCAAAGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230144 representing NM_001178076
 Red=Cloning site Green=Tags(s)

MQQHFEFEYQTKVDGEIILHL YDKGGIEQ TICMLDGVFAFVLLDTANKKVFLGRD TYGVRPLFKAMTEDG
 FLAVCSEAKGLVTLKHSATPFLKVEPFLPGHYEVLDLKPNGKVASVEMVKYHHCRD VPLHALYDNVEKLF
 PGFEIETVKNLRLILFNNAVKKRLM DRRIGCLLSGGLDSSLVAATLLKQLKEAQVYPLQTF AIGMEDS
 PDLLAARKVADHIGSEHYEVLFNSEEGIQALDE VIF SLETYDITTVRASVGMYLISKYIRKNTDSV VIFS
 GEGSDEL TQGYIYFHKAPSPEKAE EESERLLRELYLFDVLRADRTTAAHGLELRVPFLDHRFSSYYLSL P
 PEMRIPKNGIEKHLLRETFEDSNLIPKEILWRPKEAFSDGITSVKNSWFKILQEYVEHQVDDAMMANAAQ
 KFPFNTPKTKEGYRQVFERHYPRADWL SHYWMPKWINATDPSARTLTHYKSAVKA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

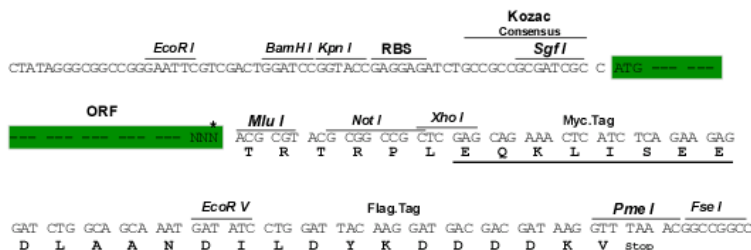
https://cdn.origene.com/chromatograms/mk8062_e06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001178076

ORF Size: 1434 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_001178076.2](#)
RefSeq ORF: 1437 bp

Locus ID: 440

UniProt ID: [P08243](#)
Cytogenetics: 7q21.3

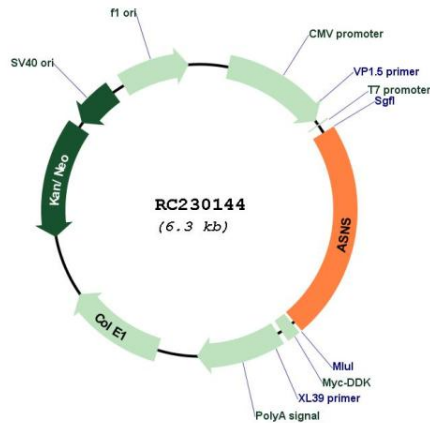
Protein Families: Druggable Genome

Protein Pathways: Alanine, aspartate and glutamate metabolism, Metabolic pathways, Nitrogen metabolism

MW: 55.3 kDa

Gene Summary: 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]

Product images:



Circular map for RC230144