

Product datasheet for **RG230144**

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:	TurboGFP
Symbol:	ASNS
Synonyms:	ASNSD; TS11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230144 representing NM_001178076
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCAACAGCATTGTTGAATTTGAATACCAGACCAAAGTGGATGGTGGAGATAATCCTTCATCTTTATGACA
 AAGGAGGAATTGAGCAAACAATTTGTATGTTGGATGGTGTGTTTGCATTTGTTTTACTGGATACTGCCAA
 TAAGAAAGTGTTCTGGGTAGAGATACATATGGAGTCAGACCTTTGTTTAAAGCAATGACAGAAAGATGGA
 TTTTGGCTGTATGTTTCAAGCTAAAGGTCTTGTACATTGAAGCACTCCGCGACTCCCTTTTTAAAG
 TGGAGCCTTTTCTTCTGGACACTATGAAGTTTGGATTAAAGCCAAATGGCAAAGTTGCATCCGTGGA
 AATGGTTAAATATCATCACTGTCGGGATGTACCCCTGCACGCCCTCTATGACAATGTGGAGAAACTCTT
 CCAGGTTTTGAGATAGAACTGTGAAGAACAACCTCAGGATCCTTTTTAATAATGCTGTAAGAAACGTT
 TGATGACAGACAGAAGGATTGGCTGCCTTTTATCAGGGGGCTTGGACTCCAGCTTGGTTGCTGCCACTCT
 GTTGAAGCAGCTGAAAGAAGCCCAAGTACAGTATCCTCTCCAGACATTTGCAATTGGCATGGAAGACAGC
 CCCGATTTACTGGCTGCTAGAAAGGTGGCAGATCATATTGGAAGTGAACATTATGAAGTCCTTTTAACT
 CTGAGGAAGCATTACAGCTCTGGATGAAGTCATATTTTCTTGGAAACTTATGACATTACAACAGTTTCG
 TGCTTCAGTAGGTATGTATTTAATTTCCAAGTATATTCGGAAGAACACAGATAGCGTGGTATCTTCTCT
 GGAGAAGGATCAGATGAACCTACGCAGGGTTACATATATTTTCAAGGCTCCTTCTCTGAAAAAGCCG
 AGGAGGAGAGTGAGAGGCTTCTGAGGAACTCTATTTGTTTGTATGTTCTCCGCGCAGATCGAACTACTGC
 TGCCCATGGTCTTGAACCTGAGAGTCCCATTCTAGATCATCGATTTTCTTCTTACTTGTCTCTGCCA
 CCAGAAATGAGAATTTCAAAGAATGGGATAGAAAAACATCTCCTGAGAGAGACGTTTGGAGATTCCAATC
 TGATACCCAAAGAGATTCTCTGGCGACCAAAGAAGCCTTCAGTGATGGAATAACTTCAGTTAAGAATTC
 CTGGTTTTAAGATTTTACAGGAATACGTTGAACATCAGGTTGATGATGCAATGATGGCAAATGCAGCCAG
 AAATTTCCCTTCAATACTCCTAAAACAAAGAAGGATATTACTACCGTCAAGTCTTTGAACGCCATTACC
 CAGGCCGGGCTGACTGGCTGAGCCATTACTGGATGCCAAGTGGATCAATGCCACTGACCCTTCTGCCCG
 CACGCTGACCCACTACAAGTCAGCTGTCAAAGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230144 representing NM_001178076
 Red=Cloning site Green=Tags(s)

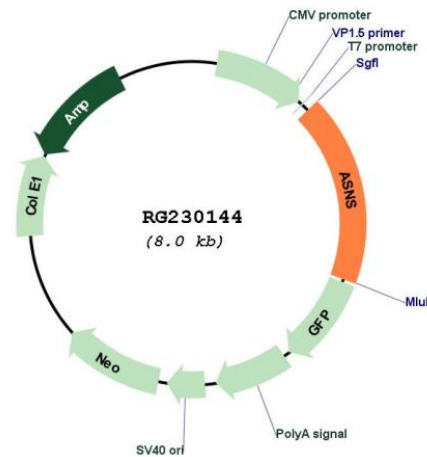
MQQHFEFEYQTKVDGEIILHL YDKGGIEQ TICMLDGVFAFVLLDTANKKVFLGRD TYGVRPLFKAMTEDG
 FLAVCSEAKGLVTLKHSATPFLKVEPFLPGHYEVLDLKPNGKVASVEMVKYHHCRDVPLHALYDNVEKLF
 PGFEIETVKNLRLILFNNAVKKRLMDDRRIGCLLSSGLDSSLVAATLLKQLKEAQYQYPLQTF AIGMEDS
 PDLLAARKVADHIGSEHYEVLFNSEEGIQALDEVIFSL ETYDITTVRASVGMYLISKYIRKNTDSVVIFS
 GEGSDEL TQGYIYFHKAPSPEKAEESERLLRELYLFDVLRADRTTAAHGLELRVPFLDHRFSSYYLSLP
 PEMRIPKNGIEKHLLRETFEDSNLIPKEILWRPKEAFSDGITSVKNSWFKILQEYVEHQVDDAMMANAAQ
 KFPFNTPKTKEGYRQVFERHYPRADWL SHYWPKW INATDPSARTLTHYKSAVKA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Plasmid Map:


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:	<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_001178076.2
RefSeq Size:	1776 bp
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
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]