

Product datasheet for **RG215380**

Asparagine synthetase (ASNS) (NM_133436) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asparagine synthetase (ASNS) (NM_133436) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Asparagine synthetase
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:

>RG215380 representing NM_133436
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGTGGCATTGGGCGCTGTTTGGCAGTGATGATTGCCTTTCTGTTTCAGTGTCTGAGTGCATGAAGA
 TTGCACACAGAGTCCAGATGCATTCCGTTTTGAGAATGTCAATGGATACACCAACTGCTGCTTTGGATT
 TCACCGGTTGGCGGTAGTTGACCCGCTGTTTGGAAATGCAGCCAATTCGAGTGAAGAAATATCCGATTTG
 TGGCTCTGTTACAATGGTAAATCTACAACCATAAGAAGATGCAACAGCATTGAAATTTGAATACCAGA
 CCAAAGTGGATGGTGAATAATCCTTCACTTTATGACAAAGGAGGAATTGAGCAAACAATTTGTATGTT
 GGATGGTGTGTTGCATTTGTTTTACTGGATACTGCCAATAAGAAAGTGTTCCTGGGTAGAGATACATAT
 GGAGTCAGACCTTTGTTAAAGCAATGACAGAAGATGGATTTTTGGCTGTATGTTCAGAAGCTAAAGGTC
 TTGTTACATTGAAGCACTCCGCGACTCCCTTTTTAAAAGTGGAGCCTTTCTTCTGGACACTATGAAGT
 TTTGGATTTAAAGCCAAATGGCAAAGTTCATCCGTGGAATGGTTAAATATCATCACTGTCGGGATGAA
 CCCTGCACGCCCTCTATGACAATGTGGAGAACTCTTTCCAGGTTTTGAGATAGAACTGTGAAGAACA
 ACCTCAGGATCCTTTTTAATAATGCTGTAAGAAACGTTTGTATGACAGACAGAAGGATTGGCTGCCTTTT
 ATCAGGGGGCTTGGACTCCAGCTTGGTTGCTGCCACTCTGTTGAAGCAGCTGAAAGAAGCCCAAGTACAG
 TATCCTCTCCAGACATTTGCAATTGGCATGGAAGACAGCCCCGATTTACTGGCTGCTAGAAAGGTGGCAG
 ATCATATTGGAAGTGAACATTATGAAGTCTTTTTAACTCTGAGGAAGGCATTACGGCTCTGGATGAAGT
 CATATTTTCTTGGAACTTATGACATTACAACAGTTCGTGCTTCAGTAGGTATGATTTAATTTCCAAG
 TATATTCCGAAGAACACAGATAGCGTGGTATCTTCTCTGGAGAAGGATCAGATGAACTTACGCAGGGTT
 ACATATATTTTACAAGGCTCCTTCTCTGAAAAAGCCGAGGAGAGAGTGAAGGCTTCTGAGGGAAC
 CTATTTTGTGATGTTCTCCGCGCAGATCGAACTACTGCTGCCCATGGTCTTGAAGTGAAGTCCCATTT
 CTAGATCATCGATTTTCTTCTTACTTGTCTCTGCCACCAGAAATGAGAATTCCAAAGATGGGATAG
 AAAACATCTCCTGAGAGAGACGTTTGGAGATTCCAATCTGATACCCAAAGAGATTCTCTGGCGACCAAA
 AGAAGCCTTCAGTGATGGAATAACTTCAGTTAAGAATTCTGGTTTAAGATTTTACAGGAATACGTTGAA
 CATCAGGTTGATGATGCAATGATGGCAAATGCAGCCCAGAAATTTCCCTTCAATACTCTAAAACCAAAG
 AAGGATATTACTACCGTCAAGTCTTTGAACGCCATTACCCAGGCCGGGCTGACTGGCTGAGCCATTACTG
 GATGCCAAAGTGATCAATGCCACTGACCCTTCTGCCCGCAGCTGACCCACTACAAGTCAGCTGTCAA
 GCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215380 representing NM_133436
 Red=Cloning site Green=Tags(s)

MCGIWFVSGDDCLSVQCLSAMKIAHRGPDAFRFENVNGYTNCCFGFHRLAVVDPLFGMQPIRVKKYPYL
 WLCYNGEIYNHKKMQHFHFEYQTKVDGEIILHLYDKGGIEQTI CMLDGVFAFVLLDTANKKVFLGRD
 YGVRPLFKAMTEDGFLAVCSEAKGLVTLKHSATPFLKVEPFLPGHYEVLDLKPNGKVASVEMVKYHHRDE
 PLHALYDNVEKLFPGFEIETVKNNLRILFNNAVKKRLMTRRIGCLL SGGLDSSLVAATLLKQLKEAQVQ
 YPLQTF AIGMEDSPDLLAARKVADHIGSEHYEVLFNSEEGIQALDEVIFSL ETYDITTVRASVGMYLISK
 YIRKNTDSVVIFSGEGSDEL TQYIYFHKAPSPEKAEESERLLRELYLFDVLRADRTTAAHGLELRVPF
 LDHRFSSYYLSLPPEMRIPKNGIEKHLRET FEDSNLIPKEILWRPKEAFSDGITSVKNSWFKILQEYVE
 HQVDDAMMANAAQKFPFNTPKTEGYYRQVFERHYPGRADWLSHYWMPKWINATDPSARTLTHYKSAVK
 A

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_133436

ORF Size: 1683 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

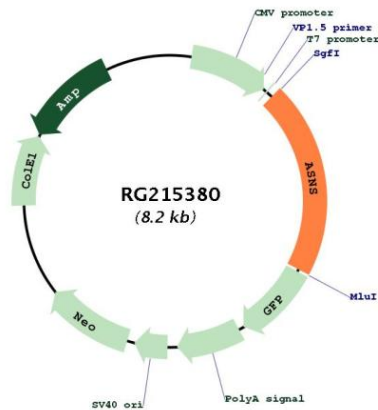
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_133436.1, NP_597680.1
RefSeq Size:	2348 bp
RefSeq ORF:	1686 bp
Locus ID:	440
UniProt ID:	P08243
Cytogenetics:	7q21.3
Domains:	GATase_2, Asn_synthase
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]

Product images:



Circular map for RG215380