

Product datasheet for **RC230250**

Asparagine synthetase (ASNS) (NM_001178075) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Asparagine synthetase (ASNS) (NM_001178075) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | ASNS |
| Synonyms: | ASNSD; TS11 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RC230250 representing NM_001178075
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGTGGCATTGGGCGCTGTTTGGCAGTGATGATTGCCTTTCTGTTCACTGTCTGAGTGCATGAAGA
 TTGCACACAGAGGTCCAGATGCATTCCGTTTTGAGAATGTCAATGGATACACCAACTGCTGCTTTGGATT
 TCACCGGTTGGCGGTAGTTGACCCGCTGTTTGGAAATGCAGCCAATTCGAGTGAAGAAATATCCGATTTG
 TGGCTCTGTTACAATGGTAAATCTACAACCATAAGAAGATGCAACAGCATTGTAATTTGAATACCAGA
 CCAAAGTGGATGGTGAATAATCCTTCACTTTATGACAAAGGAGGAATTGAGCAAACAATTTGTATGTT
 GGATGGTGTGTTGCATTTGTTTTACTGGATACTGCCAATAAGAAAGTGTCTGGGTAGAGATACATAT
 GGAGTCAGACCTTTGTTAAAGCAATGACAGAAGATGGATTTTTGGCTGTATGTTCAGAAGCTAAAGGTC
 TTGTTACATTGAAGCACTCCGCGACTCCCTTTTTAAAAGTGGAGCCTTTCTTCTGGACACTATGAAGT
 TTTGGATTTAAAGCCAAATGGCAAAGTTCATCCGTGGAATGGTTAAATATCATCACTGTCGGGATGTA
 CCCTGCACGCCCTCTATGACAATGTGGAGAACTCTTTCCAGGTTTTGAGATAGAACTGTGAAGAACA
 ACCTCAGGATCCTTTTTAATAATGCTGTAAGAAACGTTTGTATGACAGACAGAAGGATTGGCTGCCTTTT
 ATCAGGGGGCTTGGACTCCAGCTTGGTTGCTGCCACTCTGTTGAAGCAGCTGAAAGAAGCCCAAGTACAG
 TATCCTCTCCAGACATTTGCAATTGGCATGGAAGACAGCCCCGATTTACTGGCTGCTAGAAAGGTGGCAG
 ATCATATTGGAAGTGAACATTATGAAGTCTTTTTAACTCTGAGGAAGGCATTACGGCTCTGGATGAAGT
 CATATTTTCTTGGAACTTATGACATTACAACAGTTCGTGCTTCAGTAGGTATGATTTAATTTCCAAG
 TATATTCGGAAGAACACAGATAGCGTGGTATCTTCTGAGAGAAGGATCAGATGAACCTACGCAGGGTT
 ACATATATTTTACAAGGCTCCTTCTCCTGAAAAGCCGAGGAGAGAGTGAAGGCTTCTGAGGGAAC
 CTATTTGTTTGTGTTCTCCGCGCAGATCGAACTACTGCTGCCCATGGTCTTGAAGTGAAGTCCCATTT
 CTAGATCATCGATTTTCTTCTTACTTGTCTCTGCCACCAGAAATGAGAATTCCAAAGATGGGATAG
 AAAAATCTCCTGAGAGAGACGTTTGGAGATTCCAATCTGATACCCAAAGAGATTCTCTGGCGACCAAA
 AGAAGCCTTCAGTGATGGAATAACTTCAGTTAAGAATTCTGGTTTAAGATTTTACAGGAATACGTTGAA
 CATCAGGTTGATGATGCAATGATGGCAAATGCAGCCAGAAATTTCCCTTCAATACTCTAAAACCAAG
 AAGGATATTACTACCGTCAAGTCTTTGAACGCCATTACCCAGGCCGGCTGACTGGCTGAGCCATTACTG
 GATGCCAAAGTGATCAATGCCACTGACCCTTCTGCCCGCAGCTGACCCACTACAAGTCAGCTGTCAA
 GCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230250 representing NM_001178075
 Red=Cloning site Green=Tags(s)

MCGIWFVFGSDDCLSVQCLSAMKIAHRGPDARFENVNGYTNCCFGFHRLLAVVDPLFGMQPIRVKKYPYL
 WLCYNGEINYHKKMQHFHFEYQTKVDGEIILHLYDKGGIEQTI CMLDGVFAFVLLDTANKKVFLGRD
 YGVRPLFKAMTEDGFLAVCSEAKGLVTLKHSATPFLKVEPFLPGHYEVLDLKPNGKVASVEMVKYHHCRD
 VPLHALYDNVEKLFPGFEIETVKNLRLILFNNAVKKRLMTRRIGCLL SGGLDSSLVAATLLKQLKEAQVQ
 YPLQTFI GMEDSPDLLAARKVADHIGSEHYEVLFNSEEGIQALDEVIFSLETYDITTVRASVGMYLISK
 YIRKNTDSVVIFSGEGSDEL TQYIYFHKAPSPEKAEESERLLRELYLFDVLRADRTTAAHGLELRVPF
 LDHRFSSYYLSLPPEMRIPKNGIEKHLRET FDSNLIPKEILWRPKEAFSDGITSVKNSWFKILQEYVE
 HQVDDAMMANAAQKFPFNTPKTEGYYRQVFERHYGRADWLSHYWMPKWINATDPSARTLTHYKSAVK
 A

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

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| 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_001178075.1 , NP_001171546.1 |
| RefSeq Size: | 2010 bp |
| RefSeq ORF: | 1623 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: | 64.4 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] |