

Product datasheet for **MC202534**

Asna1 (NM_019652) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Asna1 (NM_019652) Mouse Untagged Clone
Tag: Tag Free
Symbol: Asna1
Synonyms: 1810048H22Rik; ArsA
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC083335 sequence for NM_019652
CCGGGTCCAAGATGGCGCGGGGTGGCCGGGTGGGGGTTGAAGCAGAAGAGTTTCGAGGATGCACCTGA
TGTGGAGCCGCTGGAACCCACGCTTAGCAATATCATCGAGCAGCTAGCCTTAAGTGGATCTTCGTCGGG
GGCAAGGGTGGCGTTGGTAAGACCACCTGCAGCTGCAGCCTGGCAGTCCAGCTGTGCAAGGGACGTGAGA
GTGTTCTGATCATTTCCACAGACCCAGCTCACAACATCTCAGATGCTTTTGACCAGAAGTTCTCCAAGGT
GCCTACCAAGGTCAAAGGCTATGACAACCTCTTTGCTATGGAGATAGACCCAGCCTGGGCGTTGCAGAG
CTCCCCGACGAGTTCTTCGAGGAAGACAACATGCTGAGCATGGGCAAGAAGATGATGCAGGAGGCCATGA
GCGCCTCCCTGGCATCGATGAAGCCATGAGTTATGCTGAGGTCATGAGGCTGGTAAAGGCATGAACTT
CTCAGTGGTAGTGTTCGACACAGCACCCACCGCCATACACTCAGGCTCCTGAACTTCCCGACCATCGTG
GAGAGGGGCTGGGCGCCTGATGCAGATCAAGAACCAGATCAGCCCCTCATCTCACAGATGTGCAACA
TGCTGGGCTGGGGACATGAATGCTGACCAACTGGCCTCCAAGCTAGAAGAGACGTTGCCTGTCATCCG
ATCTGTTAGCGAACAGTTCAAGGACCCTGAACAGACAACGTTTCATCTGTGTGTCATCGCCGAATCTTG
TCCTTGTACGAGACGGAGCGGCTGATCCAGGAGCTGGCTAAGTGCAAGATCGACACCCACAACATCATCG
TCAACCAGCTTGTCTTCCCTGACCCTGAGAAACCTGCAAGATGTGTGAGGCCGACACAAGATCCAGGC
CAAGTACCTGGACCAGATGGAAGACCTATATGAAGACTTTCACATTGTAAGCTGCCACTGTTACCTCAC
GAGGTTTCGGGAGCCGACAAAGTCAACACCTTCTGCCCCCTCCTGGAGCCCTACAAGCCCCCAGCA
CCCAGTAGCCACCCCATCCCTGCTGCTGCCTTACATACCTCCTTTCCCCATGGGGCAGAGTTTGAC
AAAGTCCCCCATAATGCAGGGGGCCACTTAGGAGGTGGGAGGGGTCTGTTCCCCCTGGTGGGCGCTGGG
GAGGCTGCAATGCCCCCACCTTCTCCTGCCTCACACTCCTCAATAAAATAATCTTACACAAAAAAAAA AAAAAAAAAA

Restriction Sites: AscI-NotI
ACCN: NM_019652
Insert Size: 1047 bp



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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).
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:	BC083335 , AAH83335
RefSeq Size:	1273 bp
RefSeq ORF:	1047 bp
Locus ID:	56495
UniProt ID:	O54984
Cytogenetics:	8 C3
Gene Summary:	ATPase required for the post-translational delivery of tail-anchored (TA) proteins to the endoplasmic reticulum. Recognizes and selectively binds the transmembrane domain of TA proteins in the cytosol. This complex then targets to the endoplasmic reticulum by membrane-bound receptors, where the tail-anchored protein is released for insertion. This process is regulated by ATP binding and hydrolysis. ATP binding drives the homodimer towards the closed dimer state, facilitating recognition of newly synthesized TA membrane proteins. ATP hydrolysis is required for insertion. Subsequently, the homodimer reverts towards the open dimer state, lowering its affinity for the membrane-bound receptor, and returning it to the cytosol to initiate a new round of targeting.[UniProtKB/Swiss-Prot Function]