

Product datasheet for **RR203498**

Asns (NM_013079) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asns (NM_013079) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Asns
Synonyms:	MGC93148
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR203498 representing NM_013079
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGTGGCATCTGGCCCTCTTCGGCAGCGATGACTGCCTTTCCGTGCAGTGTCTGAGTGCATGAAGA
 TTGCGCACAGGGGCCAGATGCATTCCGTTTTGAGAACGTCAATGGATACACCAACTGCTGTTTTGGCTT
 CCACCGGCTGGCGGTGGTTGACCCCTGTTTGAATGCAGCCAATAAGAGTGAGGAAATATCCTTATCTG
 TGGCTGTGTTACAACGGTAAATCTACAACCACAAGGCGCTACAACAACGTTTCGAATTTGAGTATCAGA
 CCAATGTGGACGGTGAATAATTCTCCATCTCTATGACAAAGGCGGCATCGAGAAAACCTCTGTATGTT
 GGATGGGTGTTTGCATTTACTACTGGACACTGCCAATAAGAAAGTATTCCTGGGCAGAGATACCTAT
 GGTGTCAGGCCTTTGTTAAAGCCTTGACAGAAGATGGATTTCTGGCTGTGTTCAGAAGCCAAAGGCC
 TTGTCTCCTTGAACACTCCACCACCCCTTCTAAAAGTGGAGCCCTTCTTCTCGGACACTATGAAGT
 TTTGGATTTAAAACCAATGGCAAAGTCCGCTCTGTGAAATGGTCAAATACCATCACTGTACGGATGAA
 CCACTGCATGCCATCTATGACAGTGTGGAGAACTCTTCCAGGCTTTGAGATAGAGACCGTGAAAAACA
 ATCTGCGTATCCTTTTTAACAACGCTATCAAGAAACGCTTGATGACTGACCGGAGGATTGGCTGCCTTTT
 ATCAGGAGGCCTGGACTCCAGCTTGGTTGCTGCCTCCCTGCTGAAGCAACTCAAGGAGGCCAAAGTGCC
 TATGCTCTCCAGACATTTGCTATCGGCATGGAAGACAGCCCTGATCTACTGGCTGCCAGAAAGGTGGCAA
 ATTATATTGGAAGTGAGCATCATGAAGTCTTTTTAACTCTGAAGAAGGCATTAGTCCCTGGACGAAGT
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 TATATTCGGAAGAACACAGACAGCGTGGTATCTTCTCCGAGAGGGGTGAGATGAGCTTACACAGGGCT
 ATATATTTCCACAAGGCGCTTCTCCTGAGAAGGCGGAGGAGAGAGTGAAGGCTCCTGAAGGAACT
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 CTGGATCATCGGTTTTCTTCTATTACCTGCTCTGCCACCAGAAATGAGAATTCAAAAAGATGGCATAG
 AAAACATCTCCTGAGAGAGACTTTTGAGGACTCCAACCTGCTACCCAAAGAGATTCTCTGGCGACCCAA
 GGAAGCCTTCAGTGATGGGATCACCTCAGTCAAGAAGTCTGTTCAAGATTTTACAGGACTTCGTTGAA
 CATCAGGTTGATGATGCGATGATGTCTGAGGCCTCCAGAAATTTCCCTCAATACTCCCCAACTAAAG
 AAGGCTATTACTACCGTCAGATCTTTGAACACCATTACCCCGCCGGGCTGATTGGCTGACCATTATTG
 GATGCCAAAGTGATCAATGCCACCGACCTTCTGCCCGACTCTGACCCATTACAAGTCAACTGCCAA
 GCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR203498 representing NM_013079
 Red=Cloning site Green=Tags(s)

MCGIWFVFGSDDCLSVQCLSAMKIAHRGPDARFENVNGYTNCCFGFHLAVVDPLFGMQPIRVKYPYL
 WLCYNGEIYNHKAQQRFEFYQTNVDGEIILHLYDKGGIEKTIKMLDGVFAFILLDTANKKVFLGRDYL
 GVRPLFKALTEDGFLAVCSEAKGLVSLKHSTTFLKVEPFLPGHYEVLDLKPNGKVASVEMVYHHCTDE
 PLHAIYDSVEKLFPGFEIETVKNLRLILFNNAIKKRLMTRRIGCLLSSGLDSSLVAASLLKQLKEAQP
 YALQTFAIMEDSPDLLAARKVANYIGSEHHEVLFNSEEGIQSLDEVIFSLITYDITTVRASVGMYLISK
 YIRKNTDSVVIFSGEGSDELQGYIYFHKAPSPEKAEESERLLKELYLFDVLRADRTAAHGLELRVPP
 LDHRFSSYYLSPPEMRIPKDGIEKHLRETFFEDSNLLPKEILWRPKEAFSDGITSVKNWFKILQDFVE
 HQVDDAMMSEASQKFPFNTPTQKEGYRQIFEHYHYPGRADWLTHYWMPKWINATDPSARTLTHYKSTAK
 A

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

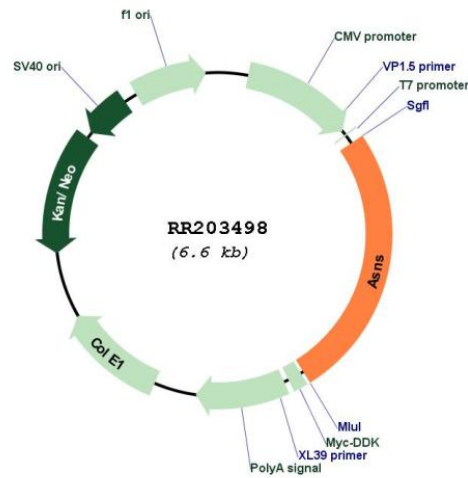
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_013079
 ORF Size: 1683 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_013079.2 , NP_037211.2
RefSeq Size:	2040 bp
RefSeq ORF:	1686 bp
Locus ID:	25612
UniProt ID:	P49088
Cytogenetics:	4q21
MW:	64.2 kDa
Gene Summary:	crucial for asparagine synthesis; may be important for progression through the G1 phase of the cell cycle [RGD, Feb 2006]