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Product datasheet for SC306533

NAGS (NM_153006) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NAGS (NM_153006) Human Untagged Clone
Tag:	Tag Free
Symbol:	NAGS
Synonyms:	AGAS; ARGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>SC306533 representing NM_153006.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGACGGCGCTGATGGCTGTGGTTCTGCGGGCAGCTGCTGTAGCCCCGAGGCTGAGAGGCCGGGGA
GGCACTGGGGGCGCCCGAAGGCTGAGCTGTGGCGCGCGGCGGCGGGCGGCGAGGGGCACCAGCCCGGGG
CGCCGGCTCAGCACCGCCTGGTCGCAGCCCCAGCCCCCGCCCGAGGAGTACGCGGGCGCGGACGACGTC
TCCCAGTCGCCCGTCGCCGAGGAGCCGTCGTGGGTGCCGAGTCCCAGGCCCCCGGTGCCCCACGAGTCC
CCAGAGCCTCCTTCGGGCCGCTCGCTGGTGCAGCGGGACATCCAGGCCTTCCTGAACCAGTGCGGGGCC
AGCCCTGGGGAGGCGCGCCACTGGCTCACGCAGTTCCAGACCTGCCATCACTCCGCGGACAAGCCCTTC
GCCGTCATCGAGGTGGACGAGGAGGTGCTCAAGTGCCAGCAGGGCGTATCCAGTCTGGCCTTTGCCCTG
GCCTTCTTGCAGCGCATGGACATGAAGCCGCTGGTGGTCCTGGGGCTGCCGGCCCCTACGGCTCCCTCG
GGCTGTCTTTCCTTCTGGGAGGCCAAGGCGCAGCTGGCCAAGAGCTGCAAGGTGCTGGTAGACGCGCTT
CGACACAACGCCGCCGCTGCTGTGCCATTTTTTGGCGGCGGGTCTGTGCTACGCGCTGCCGAGCCGGCT
CCCCATGCCAGCTACGGCGGCATCGTCTCGGTGGAGACAGACCTGCTGCAGTGGTGCCTGGAGTCGGGC
AGCATCCCCATCCTGTGCCCCATCGGGGAGACGGCCGCGCCGCCTCCGTGCTTCTCGACTCCCTGGAG
GTGACCGCGTCGCTGGCCAAGGCGCTGCGGCCCACCAAAATCATCTTCCTCAATAACACAGGCGGCCTG
CGCGACAGCAGTCATAAGGTCCTGAGTAACGTGAACCTGCCCGCCGACCTGGACCTGGTGTGCAACGCC
GAGTGGGTGAGCACAAAAGAACGGCAGCAGATGCGGCTCATCGTGGACGTGCTCAGCCGCCTGCCCCAC
CACTCCTCGGCCGTCATCACCGCCGCTAGCACGCTGCTCACTGAGCTCTTTAGCAACAAGGGGTCCGGG
ACCCTGTTCAAGAACGCCGAGCGAATGCTACGGGTGCGCAGCCTGGACAAGCTGGACCAGGGCCGTCTA
GTGGACCTGGTCAACGCCAGCTTCGGCAAGAAGCTCAGGGACGACTACCTGGCCTCGCTGCGCCCGCGG
CTGCACTCCATCTACGTCTCCGAGGGGTACAACGCCGCCGCCATTCTGACCATGGAGCCCGTCCTGGGG
GGCACCCCGTACCTGGACAAATTTGTGGTGAGCTCCAGCCGCCAGGGCCAAGGCTCCGGCCAGATGCTG
TGGGAGTGCCTGCGGCGGGACCTTCAGACACTTTTCTGGCGCTCCCGGGTCACCAACCCCATCAATCCC
TGGTACTTCAAACACAGTGATGGCAGCTTCTCCAACAAGCAGTGGATCTTCTTCTGGTTTGGCCTGGCT
GATATCCGGGACTCCTATGAGTTGGTCAACCACGCCAAGGGACTGCCAGACTCCTTTCACAAGCCAGCT
TCTGACCCAGGCAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:

ACCN: NM_153006

Insert Size: 1605 bp

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_153006.2
RefSeq Size:	2086 bp
RefSeq ORF:	1605 bp
Locus ID:	162417
UniProt ID:	Q8N159
Cytogenetics:	17q21.31
Protein Pathways:	Arginine and proline metabolism, Metabolic pathways
MW:	58.2 kDa
Gene Summary:	The N-acetylglutamate synthase gene encodes a mitochondrial enzyme that catalyzes the formation of N-acetylglutamate (NAG) from glutamate and acetyl coenzyme-A. NAG is a cofactor of carbamyl phosphate synthetase I (CPSI), the first enzyme of the urea cycle in mammals. This gene may regulate ureagenesis by altering NAG availability and, thereby, CPSI activity. Deficiencies in N-acetylglutamate synthase have been associated with hyperammonemia. [provided by RefSeq, Jul 2008]