

## Product datasheet for **RC202990**

### AGMAT (NM\_024758) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AGMAT (NM_024758) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AGMAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202990 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGAGGCTGCTGGCGTCCGGTGC GCCCGGGGCCGGGGCCCGGCGTGGGCGCGCTCTGCCGAG  
GGCTCTTTTCATCCGGGGCGCCCGCAGAGCCGCCAGGCTTCGATGCGCCCCGGAACCCAGCCCCAGCCC  
CGAGTTCGTGGCCCGCCGGTGGCGTCTGCTCCATGATGCGCCTGCCGGTGCAGACCTCCCCGAGGGG  
CTGGACGCTGCCTTCATCGGGTGCCTTGATACTGGACCTCAACCCGGCTGGGGCAGATTCCGAC  
CTCGCCGATCCGGGAAGAATCAGTGATGCTTCGGACAGTCAATCTAGCACGGGGCCCTCCCCTTCCA  
GTCCCTCATGGTTGCAGACCTAGGCGATGTGAATGTCAATCTTTACAACCTTCAGGACAGCTGCCGCGCA  
ATTCAAGAGGCCTATGAGAAAATTGTAGCAGCTGGCTGTATTCCTCTGACCTGGGTGGAGATCACACAA  
TCACATATCCCATATTGCAAGCGATGGCAAAAAGCATGGCCAGTGGGCTGCTGCACGTGGATGCGCA  
CACGGACACGACCACAAGGCCCTAGGAGAGAAGCTCTACCACGGGGCGCCCTCCGCGGTGTGTGGAT  
GAGGGTCTCTGGACTGTAAGCGTGTGGTGCAGATTGGCATCCGGGGCTCTCCACGACCTTGGATCCCT  
ACAGATAACCCGAGCCAGGGCTTCCGGTAGTCTGGCTGAAGACTGCTGGATGAAGTCGCTGGTTCC  
TCTGATGGGGAAAGTCAGGCAGCAGATGGGAGGCAAACCCATTTATATCAGCTTTGATATTGACGCTCTG  
GATCCTGCCTATGCGCCAGGGACAGGGACCTGAAATTGCTGGTCTCACTCCTAGTCAGGCTCTGGAGA  
TCATCAGGGTTGTCAAGCCTGAACGTGATGGGCTGTGATCTTGTGCAAGTTTCACCACCGTATGATCT  
TTCTGGGAACACAGCCCTGCTGGCGCTAACCTGCTGTTTGAGATGCTATGTGCTCTCCCAAAGTGACA  
ACCGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC202990 protein sequence  
Red=Cloning site Green=Tags(s)

MLRLLASGCARGPGPGVGARPAAGLFHPGRRQSRQASDAPRNQPPSPEFVARPVGVCSMMRLPVQTSPEG  
 LDAAFIGVPLDTGTSNRPGARFGPRRIEESVMLRTVNPSTGALPFQSLMVADLGDVNVNLYNLQDSCRR  
 IQEAYEKIVAAGCIPLTLGGDHTITYPILQAMAKKHGVPGLLHVDAHTDTTDKALGEKLYHGAPFRRCVD  
 EGLLDCKRVVQIGIRGSSTTLDPYRYNRSQGFVLAEDCWMKSLVPLMGEVRQQMGGKPIYISFDIDAL  
 DPAYAPGTGTPEIAGLTPSQALEIIRGCQGLNVMGCDLVEVSPPYDLSGNTALLAANLLFEMLCALPKVTV

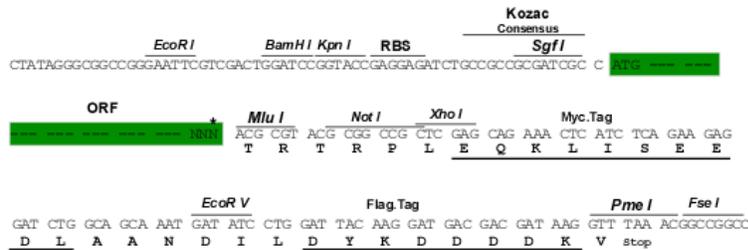
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6412\\_d02.zip](https://cdn.origene.com/chromatograms/mk6412_d02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_024758

**ORF Size:** 1056 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:**

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\\_024758.5](#)

**RefSeq Size:** 3154 bp

**RefSeq ORF:** 1059 bp

**Locus ID:** 79814

**UniProt ID:** [Q9BSE5](#)

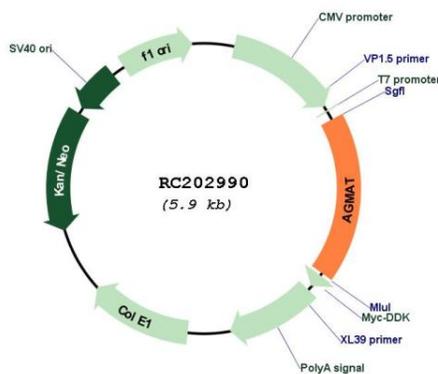
**Cytogenetics:** 1p36.21

**Domains:** arginase

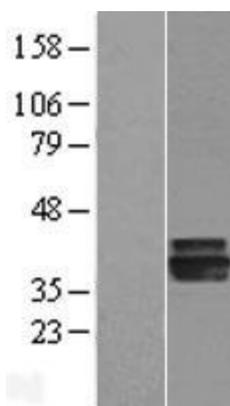
**Protein Pathways:** Arginine and proline metabolism, Metabolic pathways

**MW:** 37.8 kDa

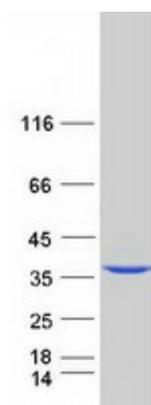
### Product images:



Circular map for RC202990



Western blot validation of overexpression lysate (Cat# [LY411072]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202990 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AGMAT protein (Cat# [TP302990]). The protein was produced from HEK293T cells transfected with AGMAT cDNA clone (Cat# RC202990) using MegaTran 2.0 (Cat# [TT210002]).