

Product datasheet for MR220335

Amt (NM_001013814) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amt (NM_001013814) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amt
Synonyms:	EG434437
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220335 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATCGGATAGTCAGTGTGGTAGCCCTCTGGGTTTTCGCCTGCAGGCACAACCCTTGGTCCAGAGTC
GCCCACTCAGTTCTGTACAGGATGTGCTCCGAGGACTCCACTCTATGACTTCCACCTAGCTCATGGAGG
AAAAATGGTGGCGTTTGCAGGGTGGAGTCTGCCTGTACAATACCGTGACAGTCATGTTGATTCACACCTG
CACACACGCCGGCATTGCTCTCTTTGATGTGCCACATGCTACAGACCAAGATATTTGGCTGTGACC
GAGTGAAGCTGCTGGAGAGTGTAGTGGTTGGAGACATTGCGGAATAAGGCCTAACCAGGGAACACTCTC
TTTGTTTACCAACGAAGCTGGAGGCATCTAGACGACTTGATTGTAAGCAATACTTCTGAGGGGCACCTG
TATGTAGTATCCAATGCTGGCTGCCGGGACAAGGACTTGGCTCTCATGCAGGACAAGGTCAGGAGTTCC
AGAACAGGGGCCCTGGATGTAGGCCTGGAGGTGGTAGAGAAATGCCCTGTTAGCTCTGCAAGGACCCACGGC
AACACAGGTGTTACAGGCTGGGGTGACAGATGATGAAGAACTACCCTTCATGACAAGTGTGTGATG
GAGGTGTTGCGTGTGCTGGCTGTCGTGTGACCCGCTGTGGCTACACAGGAGAAGATGGTGTGAGATAT
CAGTCCCAGCAACAGGGGCAGTCCACTTGGCACTACTCTGTTGAAAAATCCAGAGGTAAGCTGGCAGG
ACTACACCTGTGGAGGGCAGCCTCAGCTGGACTGGGAAGCGCCCGCATTGCTATGGACTTCCCAG
GAGCCAAAATCATTGTTCCCAACTGAAGGGTGAGGTACAGCGGAGACGTGTGGGGCTGATATGTGAAGG
GGCTCCAGTGAGAGCACACAGTCTATTTTGAACACAGAAGGCACTGTGATAGGTACTGTGACCACTGGC
TGCCCTTACCCAGCCTGAAGAAAAATGTGGCGATGGGTATGTGCCATTTAAGTACAGTCGACCAGGGA
CACAGCTGCTGGTGAAGTCCGGCGGAAGCAGCAAATGACAGTGGTTAGCAAAAATGCCCTTTGTGCCAC
CAACTATTATACTCTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR220335 protein sequence
 Red=Cloning site Green=Tags(s)

MHRIVSVVAPLGFRLQAQPLVQSRPLSSVQDVLRRTPLYDFHLAHGGKMAFAGWSLPVQYRDSHVDSHL
 HTRRHCSLFDVSHMLQTKIFGCDRVKLLLESVVVDIAELRPNQGTLSLFTNEAGGILDDLIVSNTSEGL
 YVVSNAGCRDKDLALMQDKVKEFQNRGLDVGLEVVENALLALQGPTATQVLQAGVTDDMKKLPFMTSAVM
 EVFGVSGCRVTRCGYTGEDGVEISVPATGAVHLATTLKKNPEVKLAGLAARDSLRLEAGLCLYGNDIDEH
 TTPVEGSLSWTLGKRRRIAMDFPGAIIIVPQLKGEVQRRRVGLICEGAPVRAHSPILNTEGTVIGTVTSG
 CPSPSLKKNVAMGYVPFKYSRPGTQLLVEVRRKQQMTVVS KMPPVPTNYITLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001013814

ORF Size: 1212 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_001013814.2](#)

RefSeq Size: 1325 bp

RefSeq ORF: 1212 bp

Locus ID: 434437

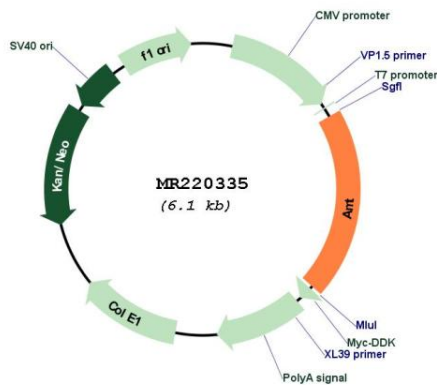
UniProt ID: [Q8CFA2](#)

Cytogenetics: 9 F1

MW: 44 kDa

Gene Summary: The glycine cleavage system catalyzes the degradation of glycine.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220335