

Product datasheet for **RR213493**

Amz2 (NM_001014121) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Amz2 (NM_001014121) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Amz2
Synonyms: RGD1304846
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR213493 representing NM_001014121
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCAGGTAACGGCACTCCGAGCACACACTGAAAACAGCTCTCCTCTCAAAGAACCAGACCTCGTGT
CCCAGTACGAGAAGTTAGACGCGGGGGAGCAACGGTTAATGAATGAAGCCTTCCAGCCACGCAATAATCT
ATTCGAACCCATTACCTTGCATTACAGTCAGACTGGATCTCCTCCCACCCGAGGCTCCCAAGACTTC
GAGCAGTTTTTCTCTGACCGCTACAGGAAGGCACCCTGCCGAAGAAACACATTATCTACATTCAGCCCA
TTGGCTTTCTAGGCAACACCAGAGTTATCAGTGAGGAGTATATTAATGGCTCAAGGGCTACTGCGAAGC
CTTTTTCTACGGTTTGAAGGTGAAGTCTTAGAACCGTTTCTGTCTCTGCGACTAAGTGCTCCTTTAGA
GTGAACGAGAACACAGAACCTGCAGATCCACACAGGGCACATCCTGGCATTCTTGAAGAGGAATAAAC
CCGAAGATGCCTTCTGCATCGTGGGATAACGATGATCGACCTTACCCTAGAGACTCGTGGAACTTCGT
CTTCGGCCAGGCCTCCCTGTCAAGTGGCGTGGGCATATTCAGCTTTGCCAGGTACGGCAAGGACTTCTAC
ACTACTACATCCCTGAGATCACTAGTGTCTTGGTGTGCTGCGATCCTGTAAGACTTTAACCCACGAGATCGG
ACACATACTTGGATTGCGACACTGCCAGTGGCTTGCCTGCTTAATGCAAGGCTCCAATCACTTGGAGGAA
TCTGACCGTCTCTAAATGTCTGCCATATCTGCTTACGTAAGCTGCAGAGTGTATCGGCTTCAATA
TTGTGGAGAGATACAAAGCCCTGGTGAAGTGGATTGACGATGAGTCTTGCAGGAGTCCAGGAGCGACTCC
GAAAAGCAGCTCTGAGCATGTGTATTTGCCAAGCCTGTGGAAGCCTTCAAGGACTGGAGAGAGTGGATA
CTCAGATGCATTGCTGTTCTTGAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR213493 representing NM_001014121
 Red=Cloning site Green=Tags(s)

MQVLRHSEHTLKTALLSKNPDLVSQYEKLDAGEQRLMNEAFQPRNNLFEPITLHSQSDWISSHPEAPQDF
 EQFFSDRYRKAPCPKHHIYIQPIGFLGNTRVISEEYIKWLKGYCEAFFYGLKVKFLEPVSVSATKCSFR
 VNENTQNLQIHTGHILAF LKR NKPEDAF CIVGITMIDL YPRDSWNFVFGQASLSSGVGIFSFARYGKDFY
 TSKYEGSVKVPQRTVSSDYSIFDNYIPEITSVLLLR SCKTLTHEIGHILGLRHCQWLACL MQGSNHLEE
 SDRRPLNVCPICLRKLQSAIGFNIVERYKALVKWIDDESCGESGATPKSSSEHVYLPKPVEAFKDWREWI
 LRCIAVLEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

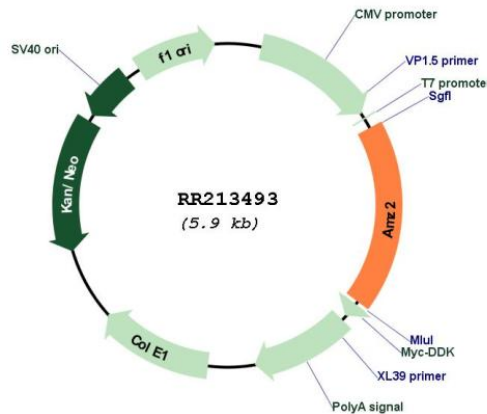
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001014121

ORF Size:	1077 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_001014121.1 , NP_001014143.1
RefSeq Size:	2963 bp
RefSeq ORF:	1080 bp
Locus ID:	360650
UniProt ID:	Q400C7
Cytogenetics:	10q32.1
MW:	41.4 kDa
Gene Summary:	Zinc metalloprotease. Exhibits activity against angiotensin-3 in vitro. Does not hydrolyze neurogranin nor angiotensin-2 (By similarity).[UniProtKB/Swiss-Prot Function]