

## Product datasheet for **RC237717**

### Archaemetzincin 2 (AMZ2) (NM\_001289056) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Archaemetzincin 2 (AMZ2) (NM_001289056) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Archaemetzincin 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237717 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

RCATGCAAATAATACGGCACTCCGAACAGACACTAAAAACAGCTCTCATCTCAAAGAACCCAGTGCTTGT  
ATCACAGTATGAGAAATTAGATGCTGGGAACAACGTTTAAATGAATGAAGCCTCCAGCCAGCCAGTGAT  
CTCTTTGGACCCATTACCTTGCATTCTCCATCAGATTGGATCACCTCCCACCCTGAGGCTCCCAAGACT  
TTGAACAGTTCCTCAGTGATCCTTACAGAAAGACACCCTCTCAAACAAACGCAGCATTTATATACAGTC  
CATTGGCTCTCTAGGAAACACCAGAATTATCAGTGAAGAATATATAAATGGCTCACGGGCTACTGTAAA  
GCATATTTCTATGGCTTGAGAGTAAAACCTCTAGAACCAGTTCCTGTTTCTGTAACAAGATGTTCTTTTA  
GAGTCAATGAGAACACACACAACCTACAAATTCATGCAGGGGACATCCTGAAGTTCTGAAAAAGAAGAA  
ACCTGAAGATGCCTTCTGTGTTGTGGGAATAACAATGATTGATCTTTACCCAAGAGACTCGTGGAATTTT  
GTCTTTGGACAGGCCTCTTTGACAGATGGTGTGGGGATATTCAGCTTTGCCAGGTATGGCAGTGATTTTT  
ATAGCATGCACTATAAAGGCAAAGTGAAGAAGCTCAAGAAAACATCTCAAGTGACTATTCAATTTTCGA  
CAACTATTATATCCAGAAATAACTAGTGTCTTACTACTCGATCCTGTAAGACTTTAACCCATGAGATC  
GGACACATATTTGGACTGCGACACTGCCAGTGGCTTGCATGCCTCATGCAAGGCTCAACCCTTGAAG  
AAGCTGACCGGCCCTCTAAACCTTTGCCCTATCTGTTTGCACAAGTTGCAGTGTGCTGTTGGCTTCAG  
CATTGTAGAAAGATACAAAGCACTGGTGAGGTGGATTGATGATGAATCTTCTGACACACCTGGAGCAACT  
CCAGAACACAGTCACGAGGATAATGGGAATTTACCGAAACCCGTGGAAGCCTTTAAGGAATGAAAGAGT  
GGATAATAAAATGCCTGGCAGTTCTCAAAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237717 protein sequence  
Red=Cloning site Green=Tags(s)

XCK\*YGTPNRH\*KQLSSQRTQCLYHSMRN\*MLGNNV\*\*MKPSSQPVISLDPLPCILHQIGSPPTLRLPKT  
 LNSSSVILTERHPLQTNAAFIYSPLAL\*ETPELSVKNILNGSRATVKHISMA\*E\*NS\*NQFLFL\*QDVPL  
 ESMRTHTTYKFMQGTS\*SS\*KRRNLKMPVSLWE\*Q\*LIFTQETRGILSLDRPL\*QMVWGYSALPGMAVIF  
 IACTIKAK\*RSSRKLQVTIQFSTTIIIFQK\*LVFYFDPVRL\*PMRSDTYLDCDTASGLHASCAPTITWK  
 KLTGAL\*TFALSVCTSCSVLLASAL\*KDKT\*HW\*GGLMMNLLTHLEQLQNTVTRIMGIYRNPWKPLRNGKS  
 G\*\*NAWQFSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6550\\_d09.zip](https://cdn.origene.com/chromatograms/mk6550_d09.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001289056

**ORF Size:** 1080 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\\_001289056.1](#), [NP\\_001275985.1](#)

**RefSeq Size:** 1498 bp

**RefSeq ORF:** 1083 bp

**Locus ID:** 51321

**UniProt ID:** [Q86W34](#)

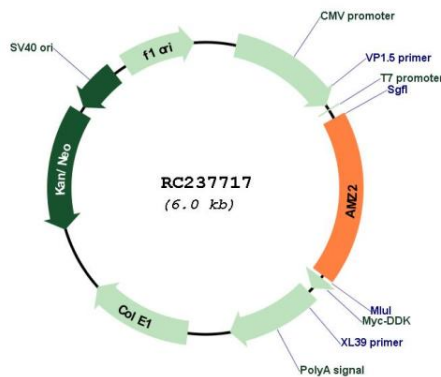
**Cytogenetics:** 17q24.2

**Protein Families:** Druggable Genome

**MW:** 41.3 kDa

**Gene Summary:** The protein encoded by this gene is a zinc metalloprotease that displays some activity against angiotensin-3. The encoded protein is inhibited by the aminopeptidase inhibitor amastatin, as well as by the general inhibitors o-phenanthroline and batimastat. Defects in this gene may be associated with lung tumorigenesis. [provided by RefSeq, Oct 2016]

**Product images:**



Circular map for RC237717