

Product datasheet for **RG214585**

Archaemetzincin 2 (AMZ2) (NM_001033572) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Archaemetzincin 2
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PSI00010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214585 representing NM_001033572
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGCAAATAATACGGCACTCCGAACAGACACTAAAAACAGCTCTCATCTCAAAGAACCCAGTGCTTGTAT
CACAGTATGAGAAATTAATGCTGGGAACAACGTTTAAATGAATGAAGCCTTCAGCCAGCCAGTGATCT
CTTTGGACCCATTACCTTGCACTTCTCCATCAGATTGGATCACCTCCACCCCTGAGGCTCCCCAAGACTTT
GAACAGTTCTTCAGTGATCCTTACAGAAAGACACCCTCTCCAAACAAACGAGCATTATATACAGTCCA
TTGGCTCTCTAGGAAACACCAGAATTATCAGTGAAGAATATATTAATGGCTCACGGGCTACTGTAAAGC
ATATTTCTATGGCTTGAGAGTAAACTCCTAGAACCAGTTCCTGTTTCTGTAACAAGATGTTCTTTTGA
GTCAATGAGAACACACACAACCTACAAATTCATGCAGGGGACATCCTGAAGTTCTTGAAAAAGAAGAAAC
CTGAAGATGCCTTCTGTGTTGTGGGAATAACAATGATTGATCTTTACCAAGAGACTCGTGGAAATTTGT
CTTTGGACAGGCCTCTTTGACAGATGGTGTGGGATATTGAGCTTTGCCAGGTATGGCAGTGATTTTAT
AGCATGCACTATAAAGGCAAAGTGAAGAAGCTCAAGAAACATCTCAAGTGACTATTCAATTTTCGACA
ACTATTATATTCCAGAAATAACTAGTGTCTTACTACTTCGATCCTGTAAGACTTTAACCATGAGATCGG
ACACATATTTGGACTGCGACACTGCCAGTGGCTTGCATGCCTCATGCAAGGCTCCAACCACTTGAAGAA
GCTGACCGGCGCCCTCTAACCTTTGCCATCTGTTTGCACAAGTTGCAGTGTGCTGTTGGCTTCAGCA
TTGTAGAAAAGATACAAAGCACTGGTGAGGTGGATTGATGATGAATCTTCTGACACACCTGGAGCAACTCC
AGAACACAGTCACGAGGATAATGGGAATTTACCGAAACCCGTGGAAGCCTTTAAGGAATGAAAGAGTGG
ATAATAAAATGCCTGGCTGTTCTCCAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG214585 representing NM_001033572

Red=Cloning site Green=Tags(s)

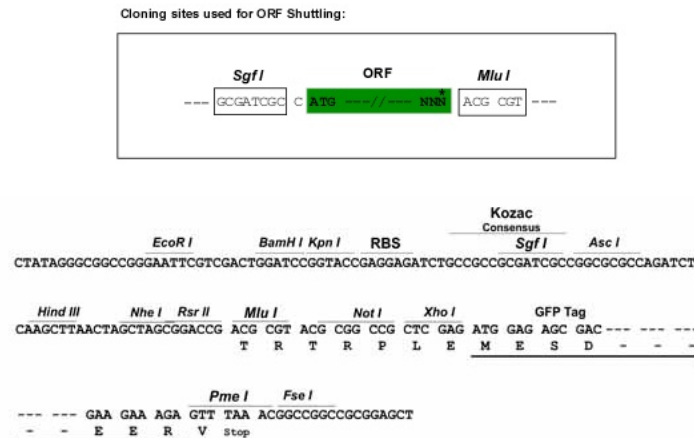
MQIIRHSEQTLKLTALISKNPVLVSQYEKLNAGEQRLMNEAFQASDLFGPITLHSPSDWITSHPEAPQDF
EQFFSDPYRKTPSPNKRSIYIQSIGSLGNTRIIEEYIKWLTGYCKAYFYGLRVKLLPVPVSVTRCSFR
VNENTHNLQIHAGDILKFLKKKKPEDAFVVGITMIDLYPRDSWNFVFGQASLTDGVGIFSFARYGSDFY
SMHYKGKVKLKTSSSDYSIFDNYIPEITSVLLLRCKTLTHEIGHIFGLRHCQWLACLMOGSNHLLE
ADRRPLNLCPICLHKLQCAVGFSIVERYKALVRWIDDESDTPGATPEHSHEDNGNLPKPVFAFKWKEW
IIKCLAVLQK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001033572

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:

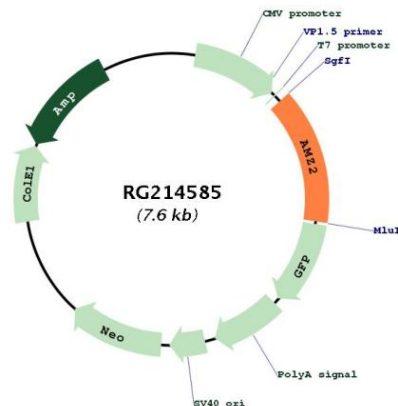
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001033572.1 , NP_001028744.1
RefSeq Size:	1395 bp
RefSeq ORF:	1083 bp
Locus ID:	51321
UniProt ID:	Q86W34
Cytogenetics:	17q24.2
Protein Families:	Druggable Genome
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 RG214585