

Product datasheet for **RG214468**

Archaemetzincin 2 (AMZ2) (NM_001033569) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Archaemetzincin 2 (AMZ2) (NM_001033569) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMZ2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214468 representing NM_001033569 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGCAAAATACGGCACTCCGAACAGACACTAAAAACAGCTCTCATCTCAAAGAACCCAGTGCTTGTATCACAGTATGAGAAATTAATGCTGGGGAACAACGTTTAAATGAATGAAGCCTTCCAGCCAGCCAGTGATCTTTGGACCCATTACCTTGCATTCTCCATCAGATTGGATCACCTCCCACCCTGAGGCTCCCAAGACTTTGAACAGTCTTTCAGTGATCCTTACAGAAAGACACCCTCTCCAAACAAACGCAGCATTATATACAGTCCA TTGGCTCTAGGAAACACCAGAATTATCAGTGAAGAATATATTAATGGCTCACGGCTACTGTAAGCATATTTCTATGGCTTGAGAGTAAAACCTCTAGAACCCAGTTCTGTTTCTGTAACAAGATGTTCTTTAGAGTCAATGAGAACACACAACTACAAATTCATGCAGGGGACATCCTGAAGTTCTTGAAAAAGAAGAAACCTGAAGATGCCTTCTGTGTTGTGGGAATAACAATGATTGATCTTTACCAAGAGACTCGTGGAAATTTGTCTTTGGACAGGCCTTTTGACAGATGGTGTGGGGATATTCAGCTTTGCCAGGTATGGCAGTGATTTTATAGCATGCACTATAAAGGCAAAGTGAAGAAGCTCAAGAAAACATCTTCAAGTACTATTCAATTTTCGACA ACTATTATATTCCAGAAATAACTAGTGTTTACTACTTCGATCCTGTAAGACTTTAACCCATGAGATCGGACACATTTGGACTGCGACACTGCCAGTGGCTTGCATGCCTCATGCAAGGCTCCAACCACTTGGAAAGAGCTGACC GGCCCTCTAAACCTTTGCCCTATCTGTTTGCACAAGTTGCAGTGTGCTGTTGGCTTCAGCA TTGTAGAAAGATACAAAGCACTGGTGGATTGATGATGAATCTTCTGACACACCTGGAGCAACTCCAGAACACAGTACGAGGATAATGGGAATTTACCGAAACCCGTGGAAGCCTTAAGGAATGAAAGAGTGGATAATAAAATGCCTGGCTGTTCTCCAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214468 representing NM_001033569
Red=Cloning site Green=Tags(s)

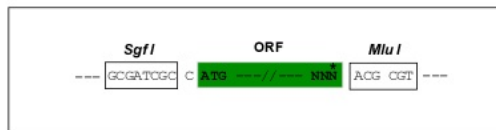
MQIIRHSEQLTKTALISKNPVLSQYEKLNAGEQRLMNEAFQPASDLFGPITLHSPSDWITSHPEAPQDF
 EQFFSDPYRKTPSPNKRSIYIQSIGSLGNTRIISEEYIKWLTGYCKAYFYGLRVKLEPVPVSVTRCSFR
 VNENTHNLQIHAGDILKFLKKKKPEDAFVVGITMIDL YPRDSWNFVFGQASLTDGVGIFSFARYGSDFY
 SMHYKGVKLLKKTSSSDYSIFDNYIPEITSVLLLRCKTLTHEIGHIFGLRHCQWLACLMOGNSHLEE
 ADDRPLNLCPICLHKLQCAVGF SIVERYKALVRWIDDESSDTPGATPEHSHEDNGNLPKPVFAFKWKEW
 IIKCLAVLQK

TRTRPLE - GFP Tag - V

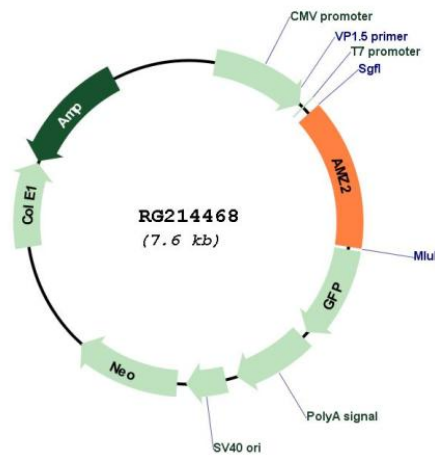
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001033569

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:	<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_001033569.1 , NP_001028741.1
RefSeq Size:	1427 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]