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Product datasheet for RG214526

Archaemetzincin 2 (AMZ2) (NM_001033570) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Archaemetzincin 2 (AMZ2) (NM_001033570) 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:

>RG214526 representing NM_001033570
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAAATAATACGGCACTCCGAACAGACACTAAAAACAGCTCTCATCTCAAAGAACCCAGTGCTTGTAT
CACAGTATGAGAAATTAAATGCTGGGGAACAACGTTTAATGAATGAAGCCTTCCAGCCAGCCAGTGATCT
CTTTGGACCCATTACCTTGCATTCTCCATCAGATTGGATCACCTCCCACCCTGAGGCTCCCCAAGACTTT
GAACAGTTCTTCAGTGATCCTTACAGAAAGACACCCTCTCCAAACAAACGCAGCATTTATATACAGTCCA
TTGGCTCTCTAGGAAACACCAGAATTATCAGTGAAGAATATATTAAATGGCTCACGGGCTACTGTAAAGC
ATATTTCTATGGCTTGAGAGTAAAACTCCTAGAACCAGTTCCTGTTTCTGTAACAAGATGTTCCTTTAGA
GTCAATGAGAACACACACAACCTACAAATTCATGCAGGGGACATCCTGAAGTTCTTGAAAAAGAAGAAAC
CTGAAGATGCCTTCTGTGTTGTGGGAATAACAATGATTGATCTTTACCCAAGAGACTCGTGGAATTTTGT
CTTTGGACAGGCCTCTTTGACAGATGGTGTGGGGATATTCAGCTTTGCCAGGTATGGCAGTGATTTTTAT
AGCATGCACTATAAAGGCAAAGTGAAGAAGCTCAAGAAAACATCTTCAAGTGACTATTCAATTTTCGACA
ACTATTATATTCCAGAAATAACTAGTGTTTTACTACTTCGATCCTGTAAGACTTTAACCCATGAGATCGG
ACACATATTTGGACTGCGACACTGCCAGTGGCTTGCATGCCTCATGCAAGGCTCCAACCACTTGGAAGAA
GCTGACCGGCGCCCTCTAAACCTTTGCCCTATCTGTTTGCACAAGTTGCAGTGTGCTGTTGGCTTCAGCA
TTGTAGAAAGATACAAAGCACTGGTGAGGTGGATTGATGATGAATCTTCTGACACACCTGGAGCAACTCC
AGAACACAGTCACGAGGATAATGGGAATTTACCGAAACCCGTGGAAGCCTTTAAGGAATGGAAAGAGTGG
ATAATAAAATGCCTGGCTGTTCTCCAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

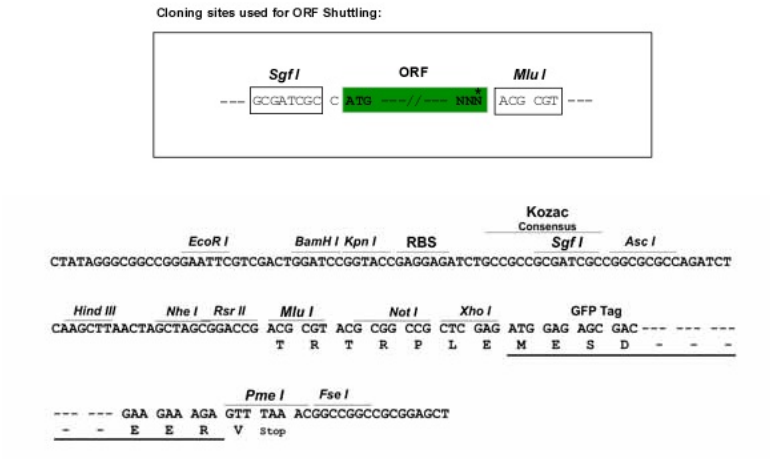
>RG214526 representing NM_001033570
Red=Cloning site Green=Tags(s)

MQIIRHSEQTLKTALISKNPVLVSQYEKLNAGEQRLMNEAFQPASDLFGPITLHSPSDWITSHPEAPQDF
EQFFSDPYRKTPSPNKRSIYIQSIGSLGNTRIISEEYIKWLTGYCKAYFYGLRVKLLEPVPVSVTRCSFR
VNENTHNLQIHAGDILKFLKKKKPEDAFCVVGITMIDLYPRDSWNFVFGQASLTDGVGIFSFARYGSDFY
SMHYKGKVKKLKKTSSSDYSIFDNYYIPEITSVLLLRSCKTLTHEIGHIFGLRHCQWLACLMQGSNHLEE
ADRRPLNLCPICLHKLQCAVGFSIVERYKALVRWIDDESSDTPGATPEHSHEDNGNLPKPVEAFKEWKEW
IIKCLAVLQK

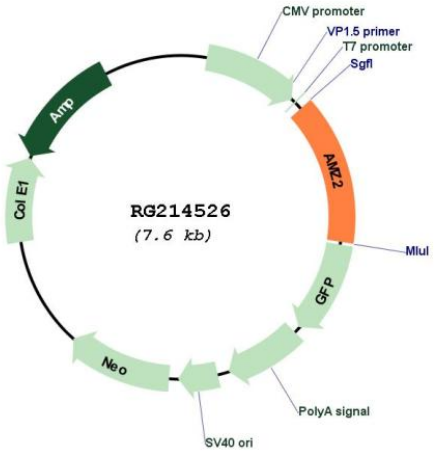
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001033570

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_001033570.1, NP_001028742.1
RefSeq Size:	1423 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]