

Product datasheet for **RG210151**

Azurocidin (AZU1) (NM_001700) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Azurocidin (AZU1) (NM_001700) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | AZU1 |
| Synonyms: | AZAMP; AZU; CAP37; HBP; hHBP; HUMAZUR; NAZC |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG210151 representing NM_001700 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCGGGTGACAGTCTGGCCCTGCTGGCTGGTCTGCTGGCGTCCTCGAGGGCCGGCTCCAGCCCC
TTTTGGACATCGTTGGCGGCCGGAAGGCGAGGCCCGCCAGTCCCGTTCCTGGCCTCCATTAGAATCA
AGGCAGGCACTTCTGCGGGGTGCCCTGATCCATGCCCGTTCGTGATGACCGCGCCAGCTGCTCCAA
AGCCAGAACCCCGGGTTAGCACCGTGGTCTGGGTGCCATGACCTGAGGCGCGGGAGAGGCAGTCCC
GCCAGACGTTTTCCATCAGCAGCATGAGCGAGAATGGCTACGACCCCGCAGAACCTGAACGACCTGAT
GCTGCTTCAGCTGGACCGTGAAGCCAGCACCAGCAGCGTACGATACTGCCACTGCCTCTGCAGAAC
GCCACGGTGAAGCCGGCACCAGATGCCAGGTGGCCGGCTGGGGGAGCCAGCGCAGTGGGGGGCGTCTCT
CCCGTTTTCCAGTTTTGTCAACGTGACTGTGACCCCGAGGACCAAGTGTGCGCCCAACAACGTGTGCAC
CGGTGTGCTACCCGCGCGGTGGCATCTGCAATGGGGACGGGGCACCCCTCGTCTGCGAGGGCCCTG
GCCACGGCGTGGCCTCTTTCCCTGGGGCCCTGTGGCCGAGGCCCTGACTTCTTACCCGAGTGGCGC
TCTCCGAGACTGGATCGATGGTGTCTCAACAACCCGGGACCGGGGCCAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210151 representing NM_001700
 Red=Cloning site Green=Tags(s)

MTRLTVLALLAGLLASSRAGSSPLLDIVGGRKARPRQFPFLASIQNGRHFCCGALIHARFVMTAASCFO
 SQNPGVSTVVLGAYDLRRRERQSRQTFSSMSSENGYDPQQLNDLMLLQLDREANLTSSVTILPLPLQN
 ATVEAGTRCQVAGWGSQRSGGRLSRFPRFVNVTVPEDQCRPNVCTGVLTRRGGICNGDGGTPLVCEGL
 AHGVASFSLGPCGRGPDFFTRVALFRDWIDGVLNPNPGGPA

TRTRPLE - GFP Tag - V

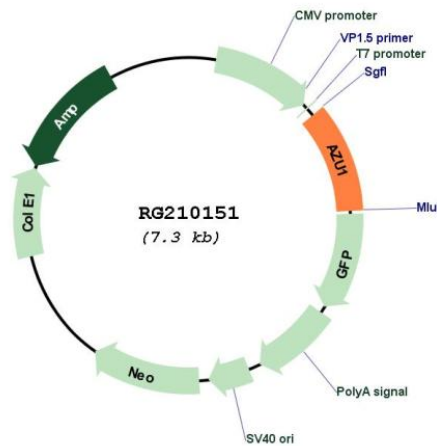
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001700

ORF Size: 753 bp

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|-------------------------------|---|
| 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_001700.5 |
| RefSeq Size: | 912 bp |
| RefSeq ORF: | 756 bp |
| Locus ID: | 566 |
| UniProt ID: | P20160 |
| Cytogenetics: | 19p13.3 |
| Domains: | Tryp_SPc |
| Protein Families: | Druggable Genome, Protease |
| Gene Summary: | Azurophil granules, specialized lysosomes of the neutrophil, contain at least 10 proteins implicated in the killing of microorganisms. This gene encodes a preproprotein that is proteolytically processed to generate a mature azurophil granule antibiotic protein, with monocyte chemotactic and antimicrobial activity. It is also an important multifunctional inflammatory mediator. This encoded protein is a member of the serine protease gene family but it is not a serine proteinase, because the active site serine and histidine residues are replaced. The genes encoding this protein, neutrophil elastase 2, and proteinase 3 are in a cluster located at chromosome 19pter. All 3 genes are expressed coordinately and their protein products are packaged together into azurophil granules during neutrophil differentiation. [provided by RefSeq, Nov 2015] |