

## Product datasheet for SC112711

### Azurocidin (AZU1) (NM\_001700) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Azurocidin (AZU1) (NM_001700) Human Untagged Clone
Tag:	Tag Free
Symbol:	Azurocidin
Synonyms:	AZAMP; AZU; CAP37; HBP; hHBP; HUMAZUR; NAZC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112711 sequence for NM_001700 edited (data generated by NextGen Sequencing)

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ATGACCCGGCTGACAGTCTGGCCCTGCTGGCTGGTCTGCTGGCGTCTCGAGGGCCGGC
TCCAGCCCCCTTTGGACATCGTTGGCGCCGGAAGGCGAGGCCCGCCAGTTCCCGTTC
CTGGCCTCCATTGAGAATCAAGGCAGGCACTTCTGCGGGGGTGCCTGATCCATGCCCGC
TTCGTGATGACCGCGCCAGCTGCTTCCAAAGCCAGAACCCTGGGGTTAGCACCGTGGT
CTGGGTGCCTATGACCTGAGGCGCGGGAGAGGCAGTCCCGCCAGACGTTTTCCATCAGC
AGCATGAGCGAGAATGGCTACGACCCCCAGCAGAACCTGAACGACCTGATGCTGCTTCAG
CTGGACCGTGAGGCCAACCTCACCAGCAGCGTGACGATACTGCCACTGCCTCTGCAGAAC
GCCACGGTGGAAGCCGGCACCAGATGCCAGGTGGCCGGCTGGGGGAGCCAGCGCAGTGG
GGCGTCTCTCCGTTTTCCAGTTTCGTCAACGTGACTGTGACCCCGAGGACCAGTGT
CGCCCCAACACGTGTGACCGGTGTGCTACCCGCCGCGGTGGCATCTGCAATGGGGAC
GGGGGCACCCCCCTCGTCTGCGAGGGCCTGGCCACGGCGTGGCCTCCTTTCCCTGGGG
CCCTGTGGCCGAGGCCCTGACTTCTTACCCGAGTGGCGCTTTCGAGACTGGATCGAT
GGTGTCTCAACAACCCGGGACCCGGGCCAGCCTAG

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Clone variation with respect to NM\_001700.3  
222 c=>t;507 t=>c



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_001700 unedited TCATATTTGTATACTATACTATAGGCGGCACGCGATTTCGGCACGAGCCGCCATGACCCGG CTGACAGTCTGGCCCTGCTGGCTGGTCTGCTGGCGTCTCGAGGGCCGGCTCCAGCCCC CTTTTGGACATCGTTGGCGGCCGGAAGGCGAGGCCCGCCAGTTCCTGCTGGCTCC ATTCTAATCAAGGCAGGCACTTCTGCGGGGTGCCCTGATCCATGCCCGCTTCGTGATG ACCGCGGCCAGCTGCTTCAAAGCCAGAACCTGGGGTTAGCACCGTGGTGTGGGTGCC TATGACCTGAGGCGCGGAGATGCAGTCCCAGACGTTTTCCATCAGCAGCATGAGC GAGAATGGCTACGACCCCATCAGAACCTGAACGACCTGATGCTGCTTCAGCTGGACCGT GAGGCCAACCTCACAGCAGCGTACGATACTGCCACTGCCTCTGCAGAACGCCACGGTG GAAGCCGGCACCATATGCCATGTGGCCGGCTGGGGATCCAGCGCAGTGGGGGGCGTCTC TCCCGTTTTCCAGGTTTCGTCAACGTGACTGTGACCCCGATGACCAGTGTGCCCAAC AACGTGTGACCCGGTGTGCTCACCCGCCGGTGGCANTCTGCATGGGGACGGAGGCACC CCCCTCGTCTGCGATGGCTGGCCACAGCGTGCCTNCTTTCCCTGGGGCCCTGTGGC CGATGCCCTGACTTCTTACCCGAGTGGCGCTCTTNCGAGACTGGATCGATGGGTGTCTC AACATCCCGGNACCCGGGCCAGCCTATGGGGCCCTGTGACCTCCATGGGAGCCCAGTCCC GCCTTCACTNCGNGCTTCGNACCCACTCCCAGNCCCGCCCTGNCCCGCTCAGNCAA ATGGGCCTGNCTGTATAANAACCCGACCTCCCTGAAAAAAAAAAAAAAAAAAAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001700
<b>Insert Size:</b>	1000 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001700.3</a> , <a href="#">NP_001691.1</a>
<b>RefSeq Size:</b>	912 bp
<b>RefSeq ORF:</b>	756 bp
<b>Locus ID:</b>	566
<b>UniProt ID:</b>	<a href="#">P20160</a>
<b>Cytogenetics:</b>	19p13.3
<b>Domains:</b>	Tryp_SPc
<b>Protein Families:</b>	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]