

## Product datasheet for SC116641

### S100A12 (NM\_005621) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** S100A12 (NM\_005621) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** S100A12  
**Synonyms:** CAAF1; CAGC; CGRP; ENRAGE; MRP-6; MRP6; p6  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL4](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**Fully Sequenced ORF:** >OriGene ORF within SC116641 sequence for NM\_005621 edited (data generated by NextGen Sequencing)

```
ATGACAAAACCTGAAGAGCATCTGGAGGAATTGTCAATATCTTCCACCAATACTCAGTT
CGGAAGGGGCATTTTACACCCTCTCTAAGGGTGAGCTGAAGCAGCTGCTTACAAAGGAG
CTTGCAAACACCATCAAGAATATCAAAGATAAAGCTGTCATTGATGAAATATTCCAAGGC
CTGGATGCTAATCAAGATGAACAGGTCGACTTTCAAGAATTCATATCCCTGGTAGCCATT
GCGCTGAAGGCTGCCATTACCACCCACAAAGAGTAG
```

Clone variation with respect to NM\_005621.1

#### 5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_005621 unedited
TTCGGCTTTTGTAAACAGACTCACTAAGGGCGGCACGCGATTTCGGCACGAGGTAGCTCCA
CATTCTGTGCATTGAGGGGTTAACATTAGGCTGGGAAGATGACAAAACCTGAAGAGCAT
CTGGAGGGAATTGTCAATATCTTCCACCAATACTCAGTTTCGGAAGGGGCATTTTACACC
CTCTCTAAGGGTGAGCTGAAGCAGCTGCTTACAAAGGAGCTTGCAAACACCATCAAGAAT
ATCAAAGATAAAGCTGTCATTGATGAAATATTCCAAGGCCTGGATGCTAATCAAGATGAA
CAGGTCGACTTTCAAGAATTCATATCCCTGGTAGCCATTGCGCTGAAGGCTGCCATTAC
CACACCCACAAAGAGTAGGTAGCTCTGAAGGCTTTTTACCCAGCAATGCCTCAATGA
GGGTCTTTCTTTCCCTACCAAAACCCAGCCTTGCCCGTGGGGAGTAAGAGTTAATAAA
CACACTCACGAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGTCAATAGC
TGTTTCCTGAACAGATCCCGGTGGCATCCCTGTGACCCCTCCCCAGTGCCTCTCCTGGC
CNTAGGAAGTTGCCACTCCAGTCCACCAGCCTTGTCCTAATAAAATTAAGTTGCATCA
TTTTGTCTGACTAGGTGTCTTCTATAATATATGGGGTGGGGGGGGGNNNNNNNNNNNN
NNGGNNGGGGGNGGGGNGGGGNGNNNNNNNGNNGGGNNGGGGGNNNNNNNGNNNGN
NNNGGNNNGGNNNGGNNGGGNGGGGNGGGGNNGGGGGNNGGGGGNNNNNNNGGNN
NNGGGGNNNNNNNNNNNNNGNNNGGNNGGGGGNNGGGNNGGGNNNNNNNNNNNN
NNNNGGGNNNGGNNNGGNNGGGNNGGGNNGGGGGNNGGGGGNNGGGGG
```



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005621 unedited CGGGGCCCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTTATTTTAGGACCCCGNCCGCATAC TANGATCGAGTTTTTTTTTTTTTTTTTTTTTCGTGAATGTGTTTATTAACCTTACTCCCCC GGGCAAGGCTGGGTTTTGGTGAGGGAAAGAAAAGACCCTCATTGAGGACATTGCTGGGTA AAAAGCCTTCAGAGAGCTACCTACTCTTGTGGGTGTGGTAATGGGCAGCCTTCAGCGCA ATGGCTACCAGGGATATGAATTCTTGAAGTCGACCTGTTTCATCTTGATTAGCATCCAGG CCTTGGAAATTTTCATCAATGACAGCTTTATCTTTGATATTCTTGATGGTGTTCGAAGC TCCTTTGTAAGCAGCTGCTTCAGCTCACCTTAGAGAGGGTGTCAAATGCCCTTCCGA ACTGAGTATTGGTGAAGATATTGACAATTCCTCCAGATGCTCTTCAAGTTTTGTCATC TTCCAGCCTAATGTTAACCCCTCAATGCACAGGAATGTGGAGCTACCTCGTGCCGAATT CGCGGCCGCCCTATAGTGAGTCGTATTACAAAATTCTGACGGTTCACTAAACGAGCTCTG CTTATATAGACCTCCCACCGTACACGCCTACCGNCCATTTGCGTCAACGGGCCGGNTAT TACGACATTTGGAAAGTCCCNGTGATTTTGGTGCCAAAACNAACTCCNATTGACGTCAA TGGGTTGGAGACTGGNAAATCCCGTGAGTCAAACCGCTATCCACGCCATTTGTGTACTG CCAAACCGATTACTTGGGAATAGCGATGACTAAACGTANATGACCTGCCAAGTAGAAAG TCCGTTAGTCATGTAAGGCGATATGCCAGGCGGCCATTTACCGCATGACGTAATAAGGG GCGGACTTGCAATGAACCACTTGAGCCTGCCAGTGGGCAGTTTACCGTAAAACCTCACCT TGACGTCAGGGAAGCCCTTTGCGGTCCTTTGGAACATCCTCTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005621
<b>Insert Size:</b>	480 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>	<u><a href="#">NM_005621.1</a></u> , <u><a href="#">NP_005612.1</a></u>
<b>RefSeq Size:</b>	466 bp
<b>RefSeq ORF:</b>	279 bp
<b>Locus ID:</b>	6283
<b>UniProt ID:</b>	<u><a href="#">P80511</a></u>
<b>Cytogenetics:</b>	1q21.3
<b>Domains:</b>	S_100, EFh

**Gene Summary:**

The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein is proposed to be involved in specific calcium-dependent signal transduction pathways and its regulatory effect on cytoskeletal components may modulate various neutrophil activities. The protein includes an antimicrobial peptide which has antibacterial activity. [provided by RefSeq, Nov 2014]