

## Product datasheet for **SC122289**

### S100 alpha 2 (S100A2) (BC002829) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	S100 alpha 2 (S100A2) (BC002829) Human Untagged Clone
Tag:	Tag Free
Symbol:	S100 alpha 2
Synonyms:	CAN19; MGC111539; OTTHUMP00000032968; OTTHUMP00000032969; S100 calcium-binding protein A2; S100 calcium binding protein A2; S100L
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC002829 edited CTCCCCTACCCCGGTCCAGGATGCCAGTCCCCACGACACCTCCCCTCCCCTGTGG CCTGGGTGGGCTCAGGGGCTGCCCTTGACCTGGCCTAGAGCCCTCCCCAGCTGGTGGTG GAGCTGGCACTCTCTGGGAGGGAGGGGCTGGGAGGGAATGAGTGGGAATGGCAAGAGGC CAGGGTTTGGTGGGATCAGGTTGAGGCAGGTTTGGTTTCCTTAAATGCCAAGTTGGGG CCAGTGGGGCCACATATAAATCCTCACCTGGGAGCCTGGCTGCCTTGCTCTCCTTCT GGGTCTGTCTCTGCCACCTGGTCTGCCACAGATCCATGATGTGCAGTTCTCTGGAGCAGG CGCTGGCTGTGCTGGTCACTACCTTCCACAAGTACTCCTGCCAAGAGGGCGACAAGTTCA AGCTGAGTAAGGGGAAATGAAGGAATTCTGCACAAGGAGCTGCCAGCTTTGTGGGG AGAAAGTGGATGAGGAGGGGCTGAAGAAGCTGATGGCAGCCTGGATGAGAACAGTGACC AGCAGGTGGACTTCCAGGAGTATGCTGTTTTCTGGCACTCATCACTGTCATGTGCAATG ACTTCTCCAGGGCTGCCAGACCGACCCTGAAGCAGAATCTTGACTTCTGCCATGGA TCTTTTGGGCCAGGACTGTTGATGCCTTTGAGTTTTGTATTCAATAAACTTTTTTGTG TGTTGAAAAAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC002829 unedited TGTCAAAATTGTATACGACTCCTATAGGCGGCCGNAATTCGCACGAGGCTCCCCTCAC CCCGGTCCAGGATGCCAGTCCCACGACACCTCCCACCTCCCAGTGTGGCCTGGGTGGG CTCAGGGGCTGCCCTTGACCTGGCCTAGAGCCCTCCCCAGCTGGTGGTGGAGCTGGCAC TCTCTGGGAGGGAGGGGGCTGGGAGGGAATGAGTGGGAATGGCAAGAGGCCAGGGTTGG TGGGATCAGGTTGAGGCAGGTTTGGTTTCCTTAAATGCCAAGTTGGGGCCAGTGGGGC CCACATATAAATCCTCACCTGGGAGCCTGGCTGCCTTGCTCTCCTTCTGGGTCTGTCT CTGCCACCTGGTCTGCCACAGATCCATGATGTGCAGTTCTCTGGAGCAGGCGCTGGCTGT GCTGGTCACTACCTTCCACAAGTACTCCTGCCAAGAGGGCGACAAGTTCAAGCTGAGTAA GGGGGAAATGAAGGAACTTCTGCACAAGGAGCTGCCAGCTTTGTGGGGAGAAAGTGA TGAGGAGGGGCTGAAGAAGCTGATGGGCAGCCTGGATGAGAACAGTGACCAGCAGGTGA CTTCCAGGAGTATGCTGTTTTCTGGCACTCATCACTGTCATGTGCAATGACTTCTTCCA GGGCTGCCAGACCGACCCTGAAGCAGAAGTCTTGACTTCTGCCATGGATCTTTTGGGC CCAGGACTGTTGATGCCTTNTGAGTTTGTATTCAATANACTTTTTTTGTCTGTTGAAAAA AAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTTCATAGCTGTTTCTGAACA GATCCCCGGTGGCATCCCTGTGACCCCTCCCAGTGCCTCTCTGGCCCTGNNNAGTGCAC TNCAGTGCCACCAGCCTTGTCCTATAAAATAAAGT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC002829
<b>Insert Size:</b>	758 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="#">BC002829.2</a></u> , <u><a href="#">AAH02829.3</a></u>
<b>RefSeq Size:</b>	749 bp
<b>Locus ID:</b>	6273
<b>Cytogenetics:</b>	1q21.3

**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 may have a tumor suppressor function. Chromosomal rearrangements and altered expression of this gene have been implicated in breast cancer. [provided by RefSeq, Jul 2008]