

## Product datasheet for SC114957

### S100 alpha 6 (S100A6) (NM\_014624) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** S100 alpha 6 (S100A6) (NM\_014624) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** S100 alpha 6  
**Synonyms:** 2A9; 5B10; CABP; CACY; PRA; S10A6  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_014624 edited  
 ATGGCATGCCCTGGATCAGGCCATTGGCCTCCTCGTGGCCATCTTCCACAAGTACTCC  
 GGCAGGGAGGGTGACAAGCACACCCTGAGCAAGAAGGAGCTGAAGGAGCTGATCCAGAAG  
 GAGCTCACCATTTGGCTCGAAGCTGCAGGATGCTGAAATTGCAAGGCTGATGGAAGACTTG  
 GACCGGAACAAGGACCAGGAGGTGAACTTCCAGGAGTATGTCACCTTCTGGGGCCTTG  
 GCTTTGATCTACAATGAAGCCCTCAAGGGCTGA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_014624 unedited  
 CGTTCACCATTTGTAAACGATTCACTATAGCGGCCGCGAATTCGCACGAGGCCTCGTGC  
 CGAATTCGGCAGGAGGGCTGGGCTCCCCATCCCGTCTAACC CGGAACAGCCCCGGGCA  
 GGAGGCGTGAAAAGTCGAGGGGGTAAACCGCAATGTGCGTTGTCTCAAAGCCAGCCCT  
 CAGCCATGGCATGCCCTGGATCAGGCTTTTGTCTCCTCGTGGCCATCTTCCACAAG  
 TACTCCGGCAGGGAGGGTGACAAGCACACCCTGAGCAAGAAGGAGCTGAAGGAGCTGATC  
 CAGAAGGAGCTCACCATTTGGCTCGAAGCTGCAGGATGCTGAAATTGCAAGGCTGATGAA  
 GACTTGGACCGGAACAAGGACCAGGAGGTGAACTTCCAGGAGTATGTCACCTTCTGGGG  
 GCCTTGGCTTTGATCTACAATGAAGCCCTCAAGGGCTGAAAATAAATAGGGAAGATGGAG  
 ACACCCTCTGGGGTCTCTCTGAGTCAAATCCAGTGGTGGTAATTGTACAATAAATTT  
 TTTTGGTCAAATTTAAAAAAAAAATAAAAAAAAAAACTCGACTCTAAATTGCGGCCG  
 CGGCCATACCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCATGCC  
 TCTCTGGCCCTGGAAGTTGCCACTTCCATGCCACCACCTTGTCTAATAAAAATTAAG  
 TCGCATATTTTGTCTGACTAGGTGTCCTTCTATAATATTATGCGGGCGGAGGGACGGGG  
 GTATGGACCAAGGGCAAATTTGGAAACACCACCTGAAGGCCTCGCGGGCTTTTGGG  
 ACCCACCGGGATGCACGGCACCAAAATTTGGCTCCATGCAATCTCCCTCCTGGGAT  
 CAAGGCAATTTCTG



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<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_014624 unedited            NTTTTAGCTCTGGACCCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTT            TTTAAATTTGACCAAAAAAATTTATTGTACAATTACCCACCACTGGATTGACTCAGAG            AGGACCCCGAGAGGGTGTCTCCATCTTCCCTATTTATTTTCAGCCCTTGAGGGCTTCATT            GTAGATCAAAGCCAAGGCCCCAGGAAGGTGACATACTCCTGGAAGTTCACCTCCTGGTC            CTTGTTCCGGTCCAAGTCTTCCATCAGCCTTGAATTTTCAGCATCCTGCAGCTTCGAGCC            AATGGTGAGCTCCTTCTGGATCAGCTCCTTCAGCTCCTTCTTGCTCAGGGTGTGCTTGTG            ACCCTCCCTGCCGAGTACTTGTGGAAGATGGCCACGAGGAGGCCAATGGCCTGATCCAG            GGGCATGCCATGGCTGAGGGCTGGGCTTGAGAGCAACGCACATTCGCGGTTTACCCCT            CGACTTTCCACGCCTCCTGCCCGGGCTGTTCCGGTTAGGACGGGATGGGGGAGCCAG            CCCTCGTGCCGAATTCGGCACGAGGCCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGT            CGTATTACAAAATTTGACGGTTCACTAAACGAGCTCTGCTTATATAGACCTCCACCGT            ACACGCCTACGCCCATTTGCGTCAACGGGGCGNGTTATTACGACATTTTGAAAGTCC            CGTTGATTTTGGTGCCAAAACANACTCCATTGACGTCAATGGGGTGGAGACTTGAAA            TCCCCGTGAGTCAAACCGCTATCCACGCCATTGGTGTACTGCCAAACCGCTCACATGG            TAATAGCGATGACTAATACGTANATGACTGCCAGTANGAAAGTCCNGTTAGGTCATGT            ACTGGGCATAATC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014624
<b>Insert Size:</b>	570 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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_014624.3</a> , <a href="#">NP_055439.1</a>
<b>RefSeq Size:</b>	683 bp

RefSeq ORF: 273 bp

Locus ID: 6277

UniProt ID: [P06703](#)

Cytogenetics: 1q21.3

Domains: 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 may function in stimulation of Ca<sup>2+</sup>-dependent insulin release, stimulation of prolactin secretion, and exocytosis. Chromosomal rearrangements and altered expression of this gene have been implicated in melanoma. [provided by RefSeq, Jul 2008]