

## Product datasheet for SC116640

### S100A11 (NM\_005620) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	S100A11 (NM_005620) Human Untagged Clone
Tag:	Tag Free
Symbol:	S100A11
Synonyms:	HEL-S-43; MLN70; S100C
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116640 sequence for NM_005620 edited (data generated by NextGen Sequencing)

```
ATGGCAAAAATCTCCAGCCTACAGAGACTGAGCGGTGCATCGAGTCCCTGATTGCTGTG
TTCCAGAAAGTATGCTGGAAAGGATGTTATAACTACACTCTCCAAGACAGAGTTCCTA
AGCTTCATGAATACAGAACTAGCTGCCTTCACAAAGAACCAGAAGGACCCCTGGTGTCTT
GACCGCATGATGAAGAACTGGACACCAACAGTATGGTCAGCTAGATTTCTCAGAATTT
CTTAATCTGATTGGTGGCCTAGCTATGGCTTGCCATGACTCCTTCTCAAGGCTGTCCCT
TCCAGAAAGCGGACCTGA
```

Clone variation with respect to NM\_005620.1

5' Read Nucleotide Sequence: >OriGene 5' read for NM\_005620 unedited

```
GGCCGCGAATTCGGCACGAGCCCGCACGCGCGCACAGAGCTCTCAGCGCCGCTCCCA
GCCACAGCCTCCCGCGCCTCGCTCAGCTCCAACATGGCAAAAATCTCCAGCCTACAGAG
ACTGAGCGGTGCATCGAGTCCCTGATTGCTGTCTTCCAGAAGTATGCTGGAAAGGATGGT
TATAACTACACTCTCCAAGACAGAGTTCCTAAGCTTCATGAATACAGAACTAGCTGCC
TTCACAAAGAACCAGAAGGACCCCTGGTGTCTTGACCGCATGATGAAGAACTGGACACC
AACAGTATGGTCAGCTAGATTTCTCAGAATTTCTTAATCTGATTGGTGGCCTAGCTATG
GCTTGCCATGACTCCTTCTCAAGGCTGTCCCTTCCAGAAAGCGGACCTGAGGACCCCTT
GGCCCTGGCCTTCAAACCCACCCCTTTCTTCCAGCCTTTCTGTGCATCATCTCCACAGC
CCACCCATCCCCTGAGCACACTAACCACCTCATGCAGGCCCCACCTGCCAATAGTAATAA
AGCAATGTCACTTTTTTAAAACATGAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCG
GCCGCGGTATAGCTGTTTCTGAAACAGATCCCGGGTGGCATCCCTGTGACCCCTNCCCA
GTGCCTCTCTGGCCCTGGGAGTTGCCACTCCAGTGCCACCAGCCTTGTCCCTAATAAAT
TAAGTTGCATCATTTTGTCTGACTA
```



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005620 unedited NTAATTCTGGACCGCNGGCCGATTTNAGNATNCGAGTTTTTTTTTTTTTTTTTATGT TTTAAAAAATGACATTGCTTTTACTATTGGCAGGTGGGGCCTGCATGAGGTGGTTAGT GTGCTCAGGGGATGGGTGGGCTGTGGAGATGATGACAGAAAGGCTGGAAGGAAAGGGGT GGGTTTGAAGGCCAGGGCCAAGGGTCTCAGGTCCGCTTCTGGGAAGGGACAGCCTTGA GGAAGGAGTCATGGCAAGCCATAGCTAGGCCACCAATCAGATTAAGAAATTCTGAGAAAT CTAGCTGACCATCACTGTTGGTGTCCAGTTTCTCATCATGCGGTCAAGGACACCAGGGT CCTTCTGGTTCTTTGTGAAGGCAGCTAGTTCTGTATTTCATGAAGCTTAGGAACTCTGTCT TGGAGAGAGTGTAGTTATAACCATCCTTTCCAGCATACTTCTGGAAGACAGCAATCAGGG ACTCGATGCACCGCTCATTCTCTGTAGGGCTGGCAAATTTCCCTTCGCTGAACTAACCC ATGCCCCAGAAGCTTTGCCTGGCATCCGCCTTTACAACCTCTTTCCCTCCCGAATCCCCT CTCTTCTCCCATTTTTCTCTCTCTTACTCACTACTACCCCTATTCTCTCCCCC TTACCTATTCCCCCCCCCTACATCCCCCTCCCCTCCCCTCCCCTCTCGTACCCGG CCTACACCCTACCGCCGCGCTATCCTGCAACCTGTCACCTCCCCCAACCCACTCC CCCGCCATTCCACACCTACTAATCCCTCCACCTTCTACTTTTACGCCCCCACTCCTT TCTCTCCGCGATCTTCCGTTCCCTATTGACGTGACACCCGTAGTCTACCCGCACCCAC GCACCCCCCCCCCTATTCTCCCTACTCAGTGTCCCCTGTCGTCCCTCTCCCACCCAG TCTNACGCCGACCAGTACCCACACCTAGCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005620
<b>Insert Size:</b>	550 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_005620.1</a></u> , <u><a href="#">NP_005611.1</a></u>
<b>RefSeq Size:</b>	595 bp
<b>RefSeq ORF:</b>	318 bp
<b>Locus ID:</b>	6282
<b>UniProt ID:</b>	<u><a href="#">P31949</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 may function in motility, invasion, and tubulin polymerization. Chromosomal rearrangements and altered expression of this gene have been implicated in tumor metastasis. [provided by RefSeq, Jul 2008]