

## Product datasheet for **SC109749**

### **S100A4 (NM\_019554) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	S100A4 (NM_019554) Human Untagged Clone
Tag:	Tag Free
Symbol:	S100A4
Synonyms:	18A2; 42A; CAPL; FSP1; MTS1; P9KA; PEL98
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109749 sequence for NM_019554 edited (data generated by NextGen Sequencing)

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ATGGCGTGCCCTCTGGAGAAGGCCCTGGATGTGATGGTGTCCACCTTCCACAAGTACTCG
GGCAAAGAGGGTGACAAGTTCAAGCTCAACAAGTCAGAACTAAAGGAGCTGCTGACCCGG
GAGCTGCCAGCTTCTTGGGGAAAAGGACAGATGAAGCTGCTTCCAGAAGCTGATGAGC
AACTTGACAGCAACAGGGACAACGAGGTGGACTTCCAAGAGTACTGTGTCTTCTGTCC
TGCATCGCCATGATGTGTAACGAATTCTTGAAGGCTTCCAGATAAAGCAGCCAGGAAG
AAATGA
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Clone variation with respect to NM\_019554.2

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_019554 unedited CACCAGCTTTCTTGGTTTGATCCTGACTGCTGTCATGGCGTGCCCTCTGGAGAAGGCCCT GGATGTGATGGTGTCCACCTTCCACAAGTACTCGGGCAAAGAGGGTGACAAGTTCAAGCT CAACAAGTCAGAACTAAAGGAGCTGCTGACCCGGGAGCTGCCAGCTTCTTGGGGAAAAG GACAGATGAAGCTGCTTCCAGAAGCTGATGAGCAACTGGACAGCAACAGGGACAACGA GGTGGACTTCCAAGAGTACTGTGTCTTCTGCTCCTGCATCGCCATGATGTGTAACGAATT CTTGAAGGCTTCCAGATAAAGCAGCCAGGAAGAAATGAAAACCTCTGATGTGGTTG GGGGTCTGCCAGCTGGGGCCCTCCCTGTCGCCAGTGGGCACTTTTTTTTTTCCACCCTG GCTCCTTCAGACACGTGCTTGTGCTGAGCAAGTTCAATAAAGATTCTTGAAGTTTTAN
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_019554 unedited TATGGCCGCGCCGCATCTAGGATCGGTT TTTTTTTTTTTTTTAAAACCTCCAAAAATTTTTATTGAACTTGCTCAACATCAACCACGT GTCTGAAGGACCCAGGGGGGAAAAAAGTGCCCACTGGCGACAGGGAGGGCCCCAGTT GGCAAACCCCAACCACATCAGAGGAGTTTTTCATTTTTCTCTGGGCTGCTTATCTGGGA AGCCTTCAAAAAATTCGTTACACATCATGGCGATGCAGGACAGGAAAACCCAGTCCTTTT GGAAGTCCCTCGTTGCCCTGTTGCTGCCAAGTTGCTCATCACCCCTTGGAAGCAG TTTCATCTGCCCTTTTCCCAAAAAGCTGGGCAGTTCCCGGTAACAGTTCCTTTATTT CTGACTTGCGGAGCTTGAACCTGTCACCCTTTTTGCCCGAGTCTTGGAAGGGGGACC CCCTCCCCCAGGCCCTTCTCAATAGGGCCCGCCCTTGATCCCCCCCCGATCAACCCA ATAAACCTCGCCCCACCTCCCGCCCCCCTATCGTTTCTTCCCTTCCCCCTTCTACG CCCTACCCATCCCCCTTTTACCCCCATTTTTCCCCCCCCCCCCCCCCCCCCCTTTT CCCCCGGTCCCCCTTCAACCCTCTCGACCCTTACCCTTTCTTCCCCCTTACC CCCCCTCCCGCCCCCTTTCCCCCTTCCCATCCCTTCCCCCCATCTTTCTTAC CGTCTTCCGCTCCCCCCCCCTTTCATCCCCCTTCCCGCGCTCCTTCTCCCTCT CACTTCTCCCCCCCCCTTCTCCCGCTCCCCCTTCTTTTACTCCCCCCCCATTCCC CACCCCCCCCCCCCCCTCTCATTTTTCCCTCTCCCGCCCTTCCCTCTCTCTATTA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_019554
<b>Insert Size:</b>	540 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_019554.1</a></u> , <u><a href="#">NP_062427.1</a></u>
<b>RefSeq Size:</b>	507 bp
<b>RefSeq ORF:</b>	306 bp
<b>Locus ID:</b>	6275
<b>UniProt ID:</b>	<u><a href="#">P26447</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. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) represents the longer transcript. Both variants 1 and 2 encode the same isoform.