

Product datasheet for SC120272

S100A16 (NM_080388) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	S100A16 (NM_080388) Human Untagged Clone
Tag:	Tag Free
Symbol:	S100A16
Synonyms:	AAG13; DT1P1A7; S100F
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120272 sequence for NM_080388 edited (data generated by NextGen Sequencing)

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ATGTCAGACTGCTACACGGAGCTGGAGAAGGCAGTCATTGTCCTGGTGGAAAACCTTCTAC
AAATATGTGTCTAAGTACAGCCTGGTCAAGAACAAGATCAGCAAGAGCAGCTTCCGCGAG
ATGCTCCAGAAAGAGCTGAACCACATGCTGTGCGACACAGGGAACCGGAAGGCTGCGGAT
AAGCTCATCCAGAACCTGGATGCCAATCATGATGGGCGCATCAGCTTCGATGAGTACTGG
ACCTTGATAGGCGGCATCACCGGCCCATCGCCAAACTCATCCATGAGCAGGAGCAGCAG
AGCAGCAGCTAG
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Clone variation with respect to NM_080388.1

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_080388 unedited
GATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTGCTGGAGAG
GAGGCAGACTGAGGCAGCAGGCCCGCCAGCAGGCGAAGCAGGGAGATGTCAGACTGCTA
CACGGAGCTGGAGAAGGCAGTCATTGTCCTGGTGGAAAACCTTCTACAAATATGTGTCTAA
GTACAGCCTGGTCAAGAACAAGATCAGCAAGAGCAGCTTCCGCGAGATGCTCCAGAAAGA
GCTGAACCACATGCTGTGCGACACAGGGAACCGGAAGGCTGCGGATAAGCTCATCCAGAA
CCTGGATGCCAATCATGATGGGCGCATCAGCTTCGATGAGTACTGGACCTTGATAGGCGG
CATCACCGGCCCATCGCCAAACTCATCCATGAGCAGGAGCAGCAGAGCAGCAGCTAGAG
ACCCCTTTGGCCACACCTTCCAGGCACTGGCCTGATGCCCGCCCTGGTGCTCTCCCCAG
GCTCCCTCCTCAGCCTCCTGCCACCCAGGGCCCTTTACTCTCTTCTCCCTCCAGACCTT
CCTCTGACCCCTTGTGAAGTGGGGTCCCTTTGTGAGTGTCTCAGTCTAGAGGTACCTCCC
TCCCTGNNGGGTCTCAGCTCCTGGAGTTCGANGCCCTTGGGGCCCTCTGTGAGATCTCA
ATGCTGTCTGGGGACCCTAAGAGTTTTCTCACCTGTTTCAGTCTCATCTAACCTTCCAATG
TCTGATGTTCTGCCAAATCCTGCCTGATTCTGGTCCGTCCTGACCCCTCAAGGTCAG
CTTTGGTGCTTGAGGTCTTCTGCTCTTGGTGGCAGTGGTAGCANCAACAGCAGCAGCAG
CAGCAGCAGCAGCAGCCAGAGACCTCTCCAATTTCCCTAACCCCTCTGG
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_080388 unedited</p> <pre>TTCAGCTATGNNACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTCAGGG AGTGGGAAGGTTTTAATGAGCATCCAAAGGGACCAGGGGATACAAACTCCAAATCCAGC CTTTATATCATCATTATTTCAAGCAACAGGAGGAGGCTCAGCCTTGCTTAGCTCATTCCC AGATGAAGAGGCAGCTGGAGGGAAGTCCCTGAAAGTGCCTCTCTACCCAGCAGAGGGGCT AAGGAAAAGTGGAGAGGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGTTGCTGCTAC CACTGCCACCAAGAGCAGGGAGACCTCAAGCACCAAGCTGACCTTTGGAGGTCAGGACGG ACCCAGAATCAGGCAGGAATTTGGCAGGAACATCAGACATTGGAAGGTTAGATGAGACTG AACAGGTGAGAAACTCTTAGGGTCCCCAGACAGCATTGAGATCTCACAGAGGGGCCCA AGGGCCTGCGACTCCAGGAGCTGAGACCCCCAGGGAGGGAGGTACCTCTAGACTGAGAC ACTCACAAAGGGACCCAGTTCAGCAAGGGTCAGAGGAAGGTCTGGAGGGAGAAGAGAGT AAAGGGCCCTGGGTGGCAGGAGGCTGAGGAGGGAGCCTGGGAGAGCACCAGGGCGGGG CATCAGGCCAGTGCCTGGAAGGTGTGGCCAAAGGGTCTCTAGCTGCTGCTGCTGCTGCTC CTGCTCATGGATGAGTTGGCGATGGGGCCGGTATGCCGNCATCAAGTCCAGTACTCA TCGAAGCTGATGCCCCATCATGATTGGCATCCAGTTCTGAATGAGCTTATCCCGAGCC TTTCCGTTCCCTGTGTCCGACAGCATGTGGTTTTCAGCTCCTTTCTGGAGCATCTCGCGGA AGCTGCTCTGGCTGATCTTGGTCTTGACAGGCTGTACTIONTAGACCATAT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_080388
Insert Size:	1100 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	NM_080388.1 , NP_525127.1
RefSeq Size:	1085 bp

RefSeq ORF: 312 bp

Locus ID: 140576

UniProt ID: [Q96FQ6](#)

Cytogenetics: 1q21.3

Domains: EFh

Gene Summary: Calcium-binding protein. Binds one calcium ion per monomer (PubMed:17030513). Can promote differentiation of adipocytes (in vitro) (By similarity). Overexpression in preadipocytes increases their proliferation, enhances adipogenesis and reduces insulin-stimulated glucose uptake (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, and 3 all encode the same protein.