

Product datasheet for **SC103258**

SERAC1 (NM_032861) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERAC1 (NM_032861) Human Untagged Clone
Tag:	Tag Free
Symbol:	SERAC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_032861, the custom clone sequence may differ by one or more nucleotides

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ATGTCCCTGGCTGCTTATTGCGTCATCTGTTGCAGAAGAATAGGAACCTCTACTTCCCCACCAAAAAGTG
GCACACACTGGAGAGATATCAGAAATATAATAAAGTTTACTGGATCACTTATTTTAGGAGGTTCTTTATT
TCTTACATATGAAGTTCTGGCCCTGAAGAAGGCTGTGACATTAGATACTCAAGTGGTAGAACGAGAAAAA
ATGAAGTCATATATATATGTGCACACAGTTTCTTTAGACAAAGGAGAAAAATCATGGTATTGCCTGGCAGG
CAAGAAAAGAAGTTCACAAAGCAGTAAGAAAAGTATTGGCAACATCAGCCAAGATACTGCGGAATCCATT
TGCTGATCCTTTTAGTACAGTTGATATAGAAGATCATGAGTGTGCTGTGTGGCTGCTCTACGGAAGAGC
AAGTCAGATGACAAAACACGCGACTCGAGGCTGTGCGGGAATGTCGGAGACCCATCACTGGCATGATT
ACCAATATAGGATAATTGCTCAAGCCTGTGATCCGAAAACCTTTATTGGTTTGGCACGAAGCAAGAGAG
TGATCTTCGCTTTTTTCTCCTACCACCTCTTTGCCATCTTTAAAAGAAGATTCTTCCACTGAAGAAGAG
CTCAGACAGTTGCTGGCTTCCTTACCTCAAACAGAGCTAGATGAGTGTATCCAGTATTTTACATCTTTGG
CTCTTAGTGAAAGCAGTCAGAGTCTAGCTGCTCAGAAGGGTGGTTTATGGTGTTTTGGAGGAAATGGACT
TCCTTATGCTGAAAGTTTGGAGAAGTTCCTTCAGCAACAGTGGAAATGTTCTGTTTAGAAGCTATAGTA
AAACATTCTGAGATATCCACACATTGTGATAAAATCGAAGCAAATGGAGGCCCTGCAGCTACTTCAGAGGC
TGTACCGACTTCACAAGGACTGCCCTAAAGTACAGAGAAATATAATGCGTGTCTTGGAAATATGGCTTT
GAATGAACATCTTCATTCTTCTATAGTTCGCTCAGGCTGGGTTTCCATCATGGCAGAAGCAATGAAATCT
CCCCACATTATGGAGTCTCACACGCTGCCAGAATCCTGGCAAATCTAGACCGAGAACTGTGCAAGAAA
AATATCAGGATGGCGTATATGTGCTGCATCCCCAATATCGAACAAGTCAGCCATTAAAGCAGATGTCCT
TTTTATTCATGGCCTTATGGGAGCAGCATTCAAAACATGGCGCCAGCAGGACAGTGAGCAGGCTGTAAAT
GAAAAACCTATGGAGGATGAAGACAGATATACGACGTGCTGGCCCAAGACATGGTTAGCAAAAGACTGTC
CTGCTCTCCGAATTATATCTGTGGAGTATGACACCAGCCTCAGCGACTGGAGAGCAAGGTGCCCTATGGA
AAGAAAGTCCATTGCATTAGAAGCAACGAACCTCTTAGGAAGCTCAGAGCTGCTGGTGTGGGGATAGG
CCAGTGGTTTGGATATCATAGCATGGGAGGTCTTCTTGTCAAAAAGATGCTGTTGGAAGCCTCTACGA
AGCCAGAAATGAGTACTGTTATCAACAATACCAGAGGAATAATTTTTTATAGTGTCCCTCATCATGGATC
ACGTTTGGCTGAATACTCTGTTAATATTCGCTATCTTCTCTCCCTCGTTGGAAGTCAAAGAAGTCCAGG
AAGGATTTCTCTGCATTTAAACACTACAAGATGACTTTCTGGAGTTTGTAAAGACAAAAGTCCAGG
TGCTGAATTTTGTGGAACACTACCAACCTACATTGGCAGCATGATTAAGCTCCATGTGGTACCTGTGGA
ATCAGCAGATTTAGGCATTGGAGATCTAATTCCTGTGGATGTTAACCATTGAACATTTGAAGCCAAAG
AAAAGGATGCTTTTTTGTACCAGCGTACTTTACAATTCATTGCGTAAGCTTTAGCCAAAGACCTTGAAA
ACTAA
  
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032861 unedited

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AGGCGGCCCGCAATTCGCACGAGGGTCACGAGCCGCCAGCCGCGGTGGAGGGTCCCG
GCCGGGAGCCGCGAAAGAGTAGGGCTCCCCAGACAACGGGGTCCGACGAGCAGTTGGG
ACGGGCTGAGTCCGCCTGCCGGCAGAATGTCCCTGGCTGCTTATTGCGTCATCTGTTGCA
GAAGAATAGGAACCTCTACTTCCCCACCAAAAAGTGGCACACACTGGAGAGATATCAAGG
TTCTTTATTTCTTACATATGAAGTTCTGGCCCTGAAGAAGGCTGTGACATTAGATACTCA
AGTGGTAGAACGAGAAAAATGAAGTCATATATATGTGCACACAGTTTCTTTAGATAA
AGGAGAAAATCATGGTATTGCCTGGCAGGCAAGAAAAGAACTTCACAAAGCAGTAAGAAA
AGTATTGGCAACATCAGCCAAGATACTGCGGAATCCATTTGCTGATCCTTTTAGTACAGT
TGATTAGAAGATCATTGAGTGTGCTGTGTGGCTGCTCCTACGGAAGAGCAAGTCAGATGA
CAAAACACGCGACTCNAGGCTGTGCGGGAATGTCGGAGACCCATCACTGGCATGATTA
CCAGTATAGGNATAATTGCTCAAGCCCTGTGATCCGAACTCTTAATTTGGGGTTTGGCA
CGAAGCGAAGAGAAAGTATCTTTCGCTNTTTTCTCCTACCACCTCCTTTGCCATCNTA
AAAAGAAAGATCTTTCACTGGGAGAAGGCTCAGACGGGNTGCTGGGCTTTCTACCTCA
ACAAGCTNGNAAAGAGGNATCCAGTATTTTACATCTTTGGCTCTTANTGGAAGCAANTC
NAGTCACGTCAAAAAGGGGGGTTTATTATGGTTGTTTTTAAAAAAGAA
  
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_032861 unedited <pre> GGACGCGGCCGCAATCTATAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGCAAGGAAGAATA AGGTTTATTTAGCCAAAGAGAATCTGAGAATCTTGATACTAAGAATTGCTAATTCATATA ATGGCTTAGAATAGTTTTACTTCATACTGTGATCAATAATGGATTAGCTACTTTATCCTT ATCTAGGACAAATTCCAAGCATAGGCAGCTACAGTCTGAAAAGAATTATTATAAGCTAGA ATTTTTCTAAGAAAAAGATTTGTTCTCAGGAATACGAAAATAGATACAAGGAACTGACCC AGACATGACAATAAGTCTAACAAAGTTAACTAGTAATAATGTGTCAGATAAAAAGGTAG AACTGAGCTAAAACTCAAACCTTTAAAAATGTACAGCAAATCAATACCCAGAAAGTAAAAG AGTCTTGAATGTTCTAGTTCATTCTTCTCTCCATTTTAAGTACTCTTAAATGGCATTTT TATGGTAAGTTGAGTTACCTCAGAACCTGCCGTGCCCTCCTGGATGCACCAGGAAAGTC ACAGATGGGAAAGGACACTCTCTCACAGCAGCTTTGCTCCAGTCACCAAGCCCAACTG CGAACCATAAAGCAGCACACAGGGATCTTCTTTACACCAAGGGGGCCCGATCCATGCC TTCCTTCTGTGCCTGCCACTTCCGGGTTGGTGCTTTACAGCGCTTGAAGGAGAACATGTT CTGTAGTCTGCACACTCCAGACATGTTGACCCTATGATCACTATGTTTGCATGATTGC ATANNAGCTAAAGAAAGAACAGAACACCAGGTTTCTTGCCTGAATTACCTATGAAACTG GAANAGCCAACCTGTTAGTTNTCAAGGTCTTGGCCTAAAGCTTACGAATGAATNGNAAGTC GCTGGGACAAAAAGCTCCTTTTTCTGGGCTACAATGTTCAATGGTTAACTCCACGGNATT AATCCCCATGGCTAATTTGCGGATCCCAAGTCCCAATGAGCCTATTTA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_032861
Insert Size:	4310 bp
OTI Disclaimer:	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).
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:	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:	<u>NM_032861.2</u> , <u>NP_116250.2</u>
RefSeq Size:	3949 bp
RefSeq ORF:	1965 bp
Locus ID:	84947
UniProt ID:	<u>Q96JX3</u>
Cytogenetics:	6q25.3

Gene Summary:

The protein encoded by this gene is a phosphatidylglycerol remodeling protein found at the interface of mitochondria and endoplasmic reticula, where it mediates phospholipid exchange. The encoded protein plays a major role in mitochondrial function and intracellular cholesterol trafficking. Defects in this gene are a cause of 3-methylglutaconic aciduria with deafness, encephalopathy, and Leigh-like syndrome (MEGDEL). Two transcript variants, one protein-coding and the other non-protein coding, have been found for this gene. [provided by RefSeq, Aug 2012]

Transcript Variant: This variant (1) represents the longer transcript and is the protein-coding variant.