

Product datasheet for **MC220212**

Serac1 (NM_001111017) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serac1 (NM_001111017) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Serac1
Synonyms:	4930511N22Rik; D17Ertd141e
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220212 representing NM_001111017
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTGGCTGCTACTGTGTCTGTTGCAGGAGGATAGGATCCTTTGCTCCCGATCAAAAAGTC
 GCACGCCCTGGAGAAATATCCGAAATATAATAAGATTTACTGGATCCCTCATTGTAGGGGTTCTCTATT
 TATTACATATGAAGTGTGGCCCTGAAAAAGTCTTTAATGTTGGACACTCAGGTGGTGAACGAGAAAA
 ATGAAGTCTTACATCTATGTGCACAAAGCTCCTGTAGACAGGTTAGACAACCGTGGGATTGTTTGGCAGG
 CAAGAAAAGAAGTTCACAGAGCAGTAAGAAAAGTGTGGCGGCAGCAGCAAGGACTGCGGAGCCATT
 TGCTGACTCTTTCAGCACAGTTGACATAGAAGATCATGACTGTGCAGTGTGGCTGCTCCTGAGGAAGAGC
 CGGGAGGACGATAGCTGCACGGCTGCAGGCCGTGCGTGAATGTCAGAGGCTCACCCTGGCATGACT
 ACCAGTACAGGATAATTGCTCAAGCCTGTGACCCGAGGACCCTTATTGGTTTGGCAGGAAGCAAAGAAAG
 TGATCTTCGGTTTTTTCTCCACCCCTCTTTGCCTTTTAAAAGAAGACTCTCCACTGAAGAGGAA
 CTAGGCATCTGCTGGCCTCTCTGCCTCAGACAGAGCTTGATGAGTGTCTCCAGTACTTTACATCCTTGG
 CTCTTAGTGAAAGCAGCCAGAGCCTGGCTGCACAGAAGGGAGGACTGTGGTGTGTTGGAGGAAACGGACT
 GCCTTACGCAGAAAGCTTTGAAAGGTTCCCTCAGCCACAGTGGAAATGTTCTGTTTAGAAGCCATAGTA
 AAGCATTTCGGAGATACCTCACACTGTGACCACATTGAAGCAGGCGGTGGCTTGCAACTCCTGCAGAGGC
 TCTACCAGCTTACAAGGACTGCCCAAAGTACAGAGAAACGTCATGAGGATCATCGAAACATGGCTTT
 GAACGAGCATCTCACCTGTCTATAGTCCACTCAGGATGGGTATCTCTCATGGCAGAAGCCTTGAAGTCC
 AGCCACATTATGGAGGCTTCCCACGCTGCCAGAACCTGGCTAACCTGGACCGAGAAACTGTGGTGAGA
 AATACCAGGACGGAGTACGTGCTGCATCCCCAGTGTGCGACAAGTCAGCCATTAAAGCCGATGTCCT
 TTTTATTCATGGCCTAATGGGAGCAGATTTAAAACCTGGCGGCAGCACGACAGCCAGCGGGCTCTGACT
 GAAAGTGTGTGGTGGATGAAGACAGGTACACTACATGCTGGCCCAAGCATGGCTAGCAAAGGACTGCC
 CCTCACTTCGCATCATATCTGTGGAGTACGACAGGACTCAGCGACTGGAGGGCAAGGTGCCCTATGGA
 GAGAAAGTCGATTGCATTAGAAGCAACGAACTTCTCAGCAAGCTCAGGGCTGCTGGTGTGGGGATAGG
 CCAATGATTTGGATCTCACACAGCATGGGAGGTCTTCTGTGAAGAAGATGCTGTTGGAAGCCTCTAAGA
 AGCCCGAACTGAATGCTTTATAACAATACCAGAGGAATATTTTTTACAGTGTCCCTCACCATGGGTC
 ACGTTTGGCTGAATACTCCGTTAATATTCGATATCTTCTTTCCCTCACTGGAAGTCAAAGAAGTCAAGC
 AAAGACTCTCCTGCACTGAAGACGCTACAGGACGACTTCTGGAGTTCGCGAAAGACAAAAGTCCAGG
 TGCTGAACTTTGTAGAAACACAACCGACATTTATCGGCAGCATGATTAAGTGCATGTAGTCCCGTGGA
 GTCAGCAGATTTAGGCATTGGGGATCTAATTCCTGTGGACGTCACCCTGAACATTTGAAGCCGAAG
 ACAAAGGATGCGTTTTGTACCAACGACTCTACAGTTTCTGCGAAACTTTAGCCAGAGATCTTGAAA
 ACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001111017
- Insert Size:** 1965 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: [NM_001111017.1](#), [NP_001104487.1](#)

RefSeq Size: 5630 bp

RefSeq ORF: 1965 bp

Locus ID: 321007

UniProt ID: [Q3U213](#)

Cytogenetics: 17 3.67 cM

Gene Summary: Plays an important role in the phosphatidylglycerol remodeling that is essential for both mitochondrial function and intracellular cholesterol trafficking. May catalyze the remodeling of phosphatidylglycerol and be involved in the transacylation-acylation reaction to produce phosphatidylglycerol-36:1. May be involved in bis(monoacylglycerol)phosphate biosynthetic pathway (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3) represents the longest transcript and encodes the longest isoform (3). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.