

## Product datasheet for SC115299

### SART2 (DSE) (NM\_013352) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SART2 (DSE) (NM_013352) Human Untagged Clone
Tag:	Tag Free
Symbol:	SART2
Synonyms:	DS-epi1; DSEP; DSEPI; EDSMC2; SART-2; SART2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115299 sequence for NM_013352 edited (data generated by NextGen Sequencing)

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ATGAGGACTCACACACGGGGGCTCCCAGTGTGTTTTTCATATATTTGCTTTGCTTTGTG
TCAGCCTACATCACCGACGAGAACCAGAAAGTTATGATTCCTTACCAATGCCAACTAC
GACAGCCATCCCATGCTGTACTTCTCCAGGGCAGAAGTGCGGAGCTGCAGCTCAGGGCT
GCCAGCTCGCAGCAGCATTGCAGCCCGCTCACGGAGGCTGTGCACACGATGTGTCC
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GAAGCCCAGACATGGCCAAAGACTACATGGAGAGGATGGCAGCGCAGCCTAGTTGGTTG
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CAGGTCACAGAAGACTGCTCATCAAAATGGTCTAAATACAAGCATGACCTGGCAGCTAGT  
 TGT CAGGGGAGGGTGGTTGCAGCAGAGGAGAAAAATGGGGTGGTTTTTCATCCGAGGAGAA  
 GGTGTGGGAGCTTATAACCCCCAGCTCAACCTGAAGAATGTTTCAGAGGAATCTCATCCTC  
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 ACTTATTTCCAGAGGGCCAGAGCCTACATGGCCAAAGATGCTTTATGCAGTTCTTCTC  
 ATAGATAGCTGTATTTTATTATGGTTGACTCTTCTTGTCCCAATCACAGTGTTAG

Clone variation with respect to NM\_013352.2  
 1381 g=>n;1710 c=>t

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_013352 unedited  
 GCGAATTCGGCAGGAGCATCCCCGGGCATGGCGCGCGGGGCGGAGGGCTCGGTTCC  
 GGAGGGGCGCGGAGCCCGGGCGCCCTGGAGTGAGGAGGACCGGGAGCTGGCTCTGGAGG  
 CTGCGGAGGCGACGCGGAGAGAAACGAAGCCTCGGCTGGGAGCGGATCTTTCGAAGATGG  
 TTTGGCTGCCTTGAGATTTGGAGATCTGGTGCCACGATGAGGACTCACACACGGGGGGC  
 TCCAGTGTGTTTTTCATATATTTGCTTTGCTTTGTGTCAGCCTACATCACCGACGAGAA  
 CCCAGAAGTTATGATTCCCTTCACCAATGCCAACTACGACAGCCATCCCATGCTGTACTT  
 CTCCAGGGCAGAAGTGGCGGAGCTGCAGCTCAGGGCTGCCAGCTCGCACGAGCACATTGC  
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 CTGGGATCCCAAGGACTACAGTGCCCGTGAATGAAATTTTGGAAACAACCTGGGTGC  
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 GTCCCGCTTGCTCACTCCCTGGGTGGTTTTGCCACTGCTTATGACTTCTTNGTACTACTAC  
 CTGAGNCAGACACACAGGAGAAGTTTCTTG

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_013352 unedited TTTGTACCGAGCGTCCNGTCCAGGATCGAGATATATCTTTTTTTTTTTNGAAAATTCACA ATTATGATGTTTTATTTAGGGAAAATAAACTTGAAGAAGGTTTTCTATTAACAAAAACATAA GAATCATATCCAAATTTTAGACTCTCCATCTTCTTTGGTATGAAAATCAACATTCATAAT AGAAAAATTTTTCTTTGAAAGGGTTAGTTGGGAGTGGGTCTATAACGGTTTTCCATATA AGGAAAATACAGTATTATCTGTAATCATCTCACTTATTGAACAACCAATGAATGCATGCA AGTAACCAAGCATATGTGTGCAGAGACCAGCATCAAGGAAATATTCATTCATAGATAAAT GTTTTCTAATAAAATATATTTTAAAGTTTTTAATGATCTTCTGCTATCATTTTTTGCCATG TTATCTGAATAGCCATCCAGATCTGTAGTAAAACATCCTGTTAGTTACATAAECTCAAGAA GTACTTCCCAAGGAAGCTCACACCATCATACCAGGACTTAGCAACATTTATCTTTCAAC ATGAGTATACCATTAATAATTTTTTATATTTCTCAGAATTGCATTCTTCAGTCTTTTCCC CATATAGTCTATGAAATGCTAATACCATTAATAAATTAATAAAAACCAATTCAT CTCAACCTTTTTCTCATAAGACAAAACCTTACTTTTAAACAATAGACTTTCTGGTTCTTCT CCACAGTCTCCTCTACGGACCGCTCACTGCGCATGCCAATCCTTTCAAACCCCTCGG CCCCCACGCTATTGCCACCGCTTGTCCCCCTTTTTCTCCCCCTTCTTTCCCGCCCGTT TCTTGGCCGATCCCTCTTTTTTTTCGGCCCGACGCGCGGGCCACTGTTCCTGGC GGACGTCGTTTTTTTGCCTTACCTCGCCCCCGTCCCACTCCCCCTTCCCCCCCCTT TTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_013352
<b>Insert Size:</b>	4880 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_013352.1, NP_037484.1</a></u>
<b>RefSeq Size:</b>	3998 bp
<b>RefSeq ORF:</b>	2877 bp
<b>Locus ID:</b>	29940
<b>UniProt ID:</b>	<u><a href="#">Q9UL01</a></u>
<b>Cytogenetics:</b>	6q22.1
<b>Protein Families:</b>	Transmembrane

**Protein Pathways:** Chondroitin sulfate biosynthesis

**Gene Summary:** The protein encoded by this gene is a tumor-rejection antigen. It is localized to the endoplasmic reticulum and functions to convert D-glucuronic acid to L-iduronic acid during the biosynthesis of dermatan sulfate. This antigen possesses tumor epitopes capable of inducing HLA-A24-restricted and tumor-specific cytotoxic T lymphocytes in cancer patients and may be useful for specific immunotherapy. Mutations in this gene cause inmusculocontractural Ehlers-Danlos syndrome. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 9, and a paralogous gene exists on chromosome 18. [provided by RefSeq, Apr 2016]  
Transcript Variant: This variant (1) encodes isoform a. Variants 1, 2, 3 and 4 all encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.