

Product datasheet for **SC315973**

SART2 (DSE) (NM_001080976) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SART2 (DSE) (NM_001080976) Human Untagged Clone
Tag:	Tag Free
Symbol:	DSE
Synonyms:	DS-epi1; DSEP; DSEPI; EDSMC2; SART-2; SART2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



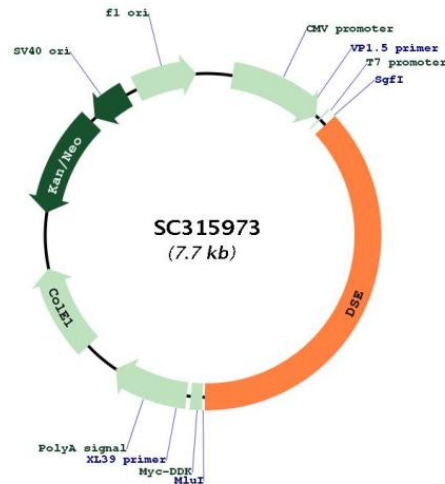
[View online »](#)

Fully Sequenced ORF: >SC315973 representing NM_001080976.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAGGACTCACACACGGGGGCTCCAGTGTGTTTTTCATATATTTGCTTTGCTTTGTGTGAGCCTAC
ATCACCGACGAGAACCAGAAAGTTATGATTCCTTACCAATGCCAACTACGACAGCCATCCCATGCTG
TACTTCTCCAGGGCAGAAGTGGCGGAGCTGCAGCTCAGGGCTGCCAGCTCGCACGAGCACATTGCAGCC
CGCCTCACGGAGGCTGTGCACACGATGTGTCCAGCCCCTTGAATACCTCCCTCCCTGGGATCCCAAG
GACTACAGTGCCCGCTGGAATGAAATTTTTGAAACAACCTGGGTGCCTTGGCAATGTTCTGTGTGCTG
TATCCTGAGAACATTGAAGCCCAGACATGGCCAAAGACTACATGGAGAGGATGGCAGCGCAGCCTAGT
TGGTTGGTGAAGATGCTCCTTGGGATGAGGTCCCGCTTGCTCACTCCCTGGTTGGTTTTGCCACTGCT
TATGACTTCTGTACAACCTGAGCAAGACACAACAGGAGAAGTTTCTGAAGTGATTGCCAATGCC
TCAGGGTATATGTATGAACTTCATACAGGAGAGGATGGGGATTTCAATACCTGCACAATCATCAGCCC
ACCAACTGTATGGCTTTGCTCACGGGAAGCCTAGTCTGTATGAATCAAGGATATCTTCAAGAAGCCTAC
TTATGGACCAAAACAAGTTCTGACCATCATGGAGAAATCTCTGGTCTTGCTCAGGGAGGTGACGGATGGC
TCCCTCTATGAAGGAGTTGCGTATGGCAGCTACACCACTAGATCACTCTTCCAATACATGTTTCTCGTC
CAGAGGCACTTCAACATCAACCACTTTGGCCATCCGTGGCTTAAACAACACTTTGCATTTATGTATAGA
ACCATCCTGCCAGGGTTTCAAAGGACTGTGGCTATTGCGGACTCAAATTAACAAGTGGTTTTATGGTCCA
GAAAGCCAATTAGTGTTCCTTGATAAATTTGTCATGCGTAATGGCAGTGGTAACTGGCTAGCTGACCAA
ATCAGAAGGAACCGTGTGGTGAAGGTCCAGGAACACCATCCAAAGGGCAGCGCTGGTGCCTCTGCAC
ACAGAATTTCTCTGGTATGATGGCAGCTTGAATCGGTTCCCTCCAGACTTTGGCACCCCTACACTG
CATTATTTTGAAGACTGGGGTGTCTGACTTATGGAAGTGCACACTGCAGAAATCAATAGATAGTTTC
CTTTCCTCAAGTCTGGAAAACCTGGGGGACGTGCAATATATGACATTGTCCACAGAAAACAATAAAA
GATTGGATCAAAGGATGGAGAAATTTAATGCAGGGCATGAACATCCTGATCAAAAACCTATTTACTTTT
GCTCCCAATGGTGTGCCTTTCACTACTGAGGCTCTGTACGGGCCAAAGTACACCTTCTTCAACAATGTT
TTGATGTTTTCCCGAGCTGTGTCAAAGAGCTGCTTTTCTCCCTGGGTGGGTGAGTGCAGAGAACTGC
TCATCAAAATGGTCTAAATACAAGCATGACCTGGCAGCTAGTTGTGAGGGGAGGGTGGTGCAGCAGAG
GAGAAAAATGGGGTGGTTTTATCCGAGGAGAAGGTGTGGGAGCTATAACCCCCAGCTCAACCTGAAG
AATGTTCAAGGAATCTCATCCTCCTACATCCACAGCTGCTTCTCCTGTAGACCAAATACACCTGGGA
GAGGAGAGTCCCTTGGAGACAGCAGCAGCTTCTCCAT AATGTGGATGTTCTTTTGGAGAGACTGTG
GTAGATGGTGTCCATGGGGCTTTCATCAGGCAGAGAGATGGTCTCTATAAAATGTACTGGATGGACGAT
ACTGGCTACAGCGAGAAAGCAACCTTTGCCTCAGTGACATATCCTCGGGGCTATCCCTACAACGGGACA
AACTATGTGAATGTCACCATGCACCTCCGAAGTCCCATCACAGGGCAGCTTACCTCTTCATAGGGCCA
TCTATAGATGTTCAAGCTTCACTGTCCACGGAGACTCTCAGCAACTGGATGTGTTTCATAGCCACCAGC
AAACATGCCTACGCCACATACCTGTGGACAGGTGAGGCCACAGGACAGTCTGCCTTTGCACAGGTCAAT
GCTGATCGTCACAAAATCTGTTTGACCGAATTCAGCCATCAAGAGCAGCATTGCTCCTGAGGTGAAG
GACTATGCTGCTATTGTGGAACAGAACTTGACGATTTTAAACCAGTGTTCAGCTGCTGGAGAAGCAG
ATACTGTCCCAGTCCGGAACACAGCTAGCTTTAGGAAGACTGCTGAACGCCTGCTGAGATTTTCAGAT
AAGAGACAGACTGAGGAGCCATTGACAGGATTTTTGCCATATCACAGCAACAGCAGCAGCAAAAGCAAG
TCAAAGAAAAACCGAAGGGCAGGCAAAACGCTATAAATTTGTGGATGCTGTCCCTGATATTTTTGCACAG
ATTGAAGTCAATGAGAAAAAGATTAGACAGAAAGCTCAGATTTTGGCACAGAAAGAACTACCCATAGAT
GAAGATGAAGAAATGAAAGACCTTTTAGATTTTGCAGATGTAACATACGAGAAACATAAAAATGGGGGC
TTGATTAAGGCCGTTTGGACAGGCAGGATGGTACAACACTACACAGCAGGGCCCCATCACTGTCT
GCTTCTATACCAGTGTCTGATTCTGAACATTGCTATTTTCTTGTGATGTTGGCAATGCAACTG
ACTTATTTCCAGAGGGCCAGAGCCTACATGGCCAAAGATGTCTTTATGCAGTCTTCTCATAGATAGC
TGTATTTTATTATGGTTGACTTCTTGTGCCAATCACAGTGTTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001080976

Insert Size: 2877 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001080976.2](#)

RefSeq Size: 4092 bp

RefSeq ORF: 2877 bp

Locus ID: 29940

UniProt ID: [Q9UL01](#)

Cytogenetics: 6q22.1

Protein Families: Transmembrane

Protein Pathways: Chondroitin sulfate biosynthesis

MW: 109.8 kDa

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 (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3 and 4 all encode the same isoform (a).