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Product datasheet for RC206020

SART2 (DSE) (NM_013352) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SART2 (DSE) (NM_013352) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SART2
Synonyms:	DS-epi1; DSEP; DSEPI; EDSMC2; SART-2; SART2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206020 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGACTCACACACGGGGGGCTCCCAGTGTGTTTTTCATATATTTGCTTTGCTTTGTGTCAGCCTACA
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CTTCTCCAGGGCAGAAGTGGCGGAGCTGCAGCTCAGGGCTGCCAGCTCGCACGAGCACATTGCAGCCCGC
CTCACGGAGGCTGTGCACACGATGCTGTCCAGCCCCTTGGAATACCTCCCTCCCTGGGATCCCAAGGACT
ACAGTGCCCGCTGGAATGAAATTTTTGGAAACAACTTGGGTGCCTTGGCAATGTTCTGTGTGCTGTATCC
TGAGAACATTGAAGCCCGAGACATGGCCAAAGACTACATGGAGAGGATGGCAGCGCAGCCTAGTTGGTTG
GTGAAAGATGCTCCTTGGGATGAGGTCCCGCTTGCTCACTCCCTGGTTGGTTTTGCCACTGCTTATGACT
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GCCTCAGTGACATATCCTCGGGGCTATCCCTACAACGGGACAAACTATGTGAATGTCACCATGCACCTCC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206020 protein sequence
Red=Cloning site Green=Tags(s)

MRTHTRGAPSVFFIYLLCFVSAYITDENPEVMIPFTNANYDSHPMLYFSRAEVAELQLRAASSHEHIAAR
LTEAVHTMLSSPLEYLPPWDPKDYSARWNEIFGNNLGALAMFCVLYPENIEARDMAKDYMERMAAQPSWL
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MALLTGSLVLMNQGYLQEAYLWTKQVLTIMEKSLVLLREVTDGSLYEGVAYGSYTTRSLFQYMFLVQRHF
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VVEGPGTPSKGQRWCTLHTEFLWYDGSLKSVPPPDFGTPTLHYFEDWGVVTYGSALPAEINRSFLSFKSG
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SKSCFSPWVGQVTEDCSSKWSKYKHDLAASCQGRVVAAEEKNGVVFIRGEGVGAYNPQLNLKNVQRNLIL
LHPQLLLLVDQIHLGEESPLETAASFFHNVDVPFEETVVDGVHGAFIRQRDGLYKMYWMDDTGYSEKATF
ASVTYPRGYPYNGTNYVNVTMHLRSPITRAAYLFIGPSIDVQSFTVHGDSQQLDVFIATSKHAYATYLWT
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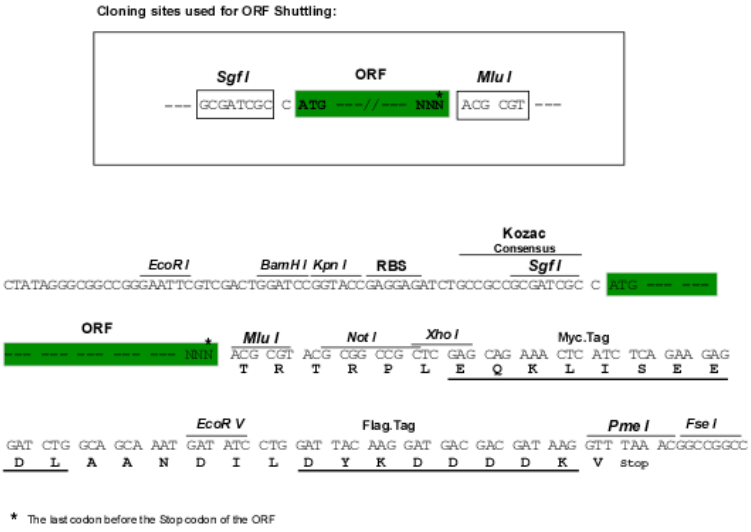
QILAQKELPIDEDEEMKDLLDFADVTYEKHKNGGLIKGRFGQARMVTTTHSRAPSLSASYTRLFLILNIA
IFFVMLAMQLTYFQRAQSLHGQRCLYAVLLIDSCILLWLYSSCSQSQC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6320_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

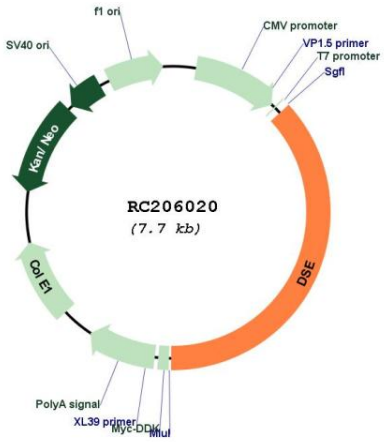


ACCN: NM_013352

ORF Size: 2874 bp

OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_013352.3
RefSeq Size:	4077 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]

Product images:



Circular map for RC206020