

Product datasheet for **RC210837**

SART3 (NM_014706) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | SART3 (NM_014706) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | SART3 |
| Synonyms: | DSAP1; P100; p110; p110(nrb); RP11-13G14; TIP110 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RC210837 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACTGCGGCCGAAACCTCGGCTTACAACCCGAGGCTGAGTCCAAGGCTGGGCCCAAGGCTGACG
 GAGAGGAGGATGAGGTTAAGGCGCTAGGACAAGGAGAAAAGTGTATCGCGGGCTGGGCCGCTGCGAC
 ATACAAGACCATGGGCCAGCGTGGGATCAGCAGGAGGAAGGCGTGAGCGAGAGCGATGGGGATGAGTAC
 GCCATGGCTTCTCCGCGGAGAGCTCCCCGGGGAGTACGAGTGGGAATATGACGAAGAGGAGGAGAAAA
 ACCAGCTGGAGATTGAGAGACTGGAGGAGCAGTTGTCTATCAACGTCTATGACTACAACCTGCCATGTGGA
 CTTGATCAGACTGCTCAGGCTGGAAGGGGAGCTTACCAAGGTGAGGATGGCCCGCAGAAGATGAGTGAA
 ATCTTTCCCTTGACTGAAGACTCTGGCTGGAGTGGCTGCATGACGAGATCAGCATGGCCAGGATGGCC
 TGGACAGAGAGCACGTGTATGACCTCTTGAGAAAAGCCGTGAAGGATTACATTTGTCTAACATTTGGCT
 AGAGTATGGCCAGTACTCAGTTGGTGGGATTGGTCAGAAAAGTGGCCTTGAGAAAAGTTCGCTCCGTGTT
 GAAAGGGCTCTCTCGTCTGTTGGTTACATATGACCAAAGGACTCGCCCTCTGGGAGGCTTACCGAGAGT
 TTGAAAGTGCGATTGTGGAAGCTGCTCGGCTTGAGAAAAGTCCACAGTCTTTCCGGCGACAGTTGGCGAT
 CCCACTCTATGATATGGAGGCCACATTTGCAGAGTATGAAGAATGGTCAGAAGACCCAATACCAGAGTCA
 GTAATTCAGAACTATAACAAAGCACTACAGCAGCTGGAGAAAATAAAACCTATGAAGAAGCACTGTTGC
 AGGCAGAGGCACCAAGGCTGGCAGAATATCAAGCATATATCGATTTTGAGATGAAAATTTGGCGATCCTGC
 TCGCATTAGTTGATCTTTGAGCGCGCCCTGGTCGAGAAGTGCCTTGCCAGACTTATGGATCCGTTAC
 AGTCAGTACCTAGATCGACAAGTAAAGTAAAGGATTTGGTTTTATCTGTACATAACCCGCTATTAGAA
 ACTGCCCTGGACAGTTGCCTTATGGAGTCGGTACCTCTTGCCCATGGAGAGACATGGAGTTGATCATCA
 AGTAATTTCTGTAACTTCGAGAAAAGCTTTGAATGCCGGCTTCATCCAGGCCACTGATTATGTGGAGATT
 TGGCAGGCATACCTTGATTACCTGAGGAGAAGGGTTGATTTCAAACAAGACTCCAGTAAAGAGCTGGAGG
 AGTTGAGGGCCGCTTTACTCGTGCCTTGAGTATCTGAAGCAGGAGGTGGAAGAGCGTTTCAATGAGAG
 TGGTGATCCAAGCTGCGTGATTATGCAGAACTGGGCTAGGATTGAGGCTCGACTGTGCAATAACATGCAG
 AAAGCTCGGAACTCTGGGATAGCATCATGACCAGAGGAAATGCCAAGTACGCCAACATGTGGCTAGAGT
 ATTACAACCTGGAAGAGCTCATGGTGACACCCAGCACTGCCGGAAGGCTCTGCACCGGGCCGTCAGTG
 CACCAGTGACTACCCAGAGCACGTCTGCGAAGTGTACTCACCATGGAGAGGACAGAAGGTTCTTTAGAA
 GATTGGGATATAGCTGTTGAGAAAAGTAAACCCGATTAGCTCGTGTCAATGAGCAGAGAATGAAGGCTG
 CAGAGAAGGAAGCAGCCCTGTGCAAGCAAGAAAGAAAAGGCTGAACAACGGAAAAGAGCTCGGGCTGA
 GAAGAAAAGCGTTAAAAAGAAAGAAAAGATCAGAGGCCAGAGAAAGCGCGGAGCAGATGAGGACGATGAG
 AAAGAGTGGGGCGATGATGAAGAAGAGCAGCCTTCCAAACGCAGAAAGGTCGAGAACAGCATCCCTGCGAG
 CTGGAGAAAACAAAAATGTAGAAGTAGCAGCAGGGCCCGCTGGGAAAATGTGCTGCCGTAGATGTGGAGCC
 CCCTTCGAAGCAGAAAGGAGAAGGCAGCCTCCCTGAAGAGGGACATGCCAAAGGTGCTGCACGACAGCAGC
 AAGGACAGCATCACCGTCTTTGTGAGCAACCTGCCCTACAGCATGCAGGAGCCGGACACGAAGCTCAGGC
 CACTCTTCGAGGCCTGTGGGAGGTGGTCCAGATCCGACCCATCTTCAGCAACCGTGGGGATTTCCGAGG
 TTAGTCTACGTGGAGTTTAAAGAAGAGAAAATCAGCCCTTCAGGCACCTGGAGATGGACCGAAAAGTGTGA
 GAAGGGAGGCCAATGTTTGTTCCTGTTGTTGATAAAGAGCAAAAACCCGATTTTAAGGTGTTGAGGT
 ACAGCACTTCCCTAGAGAAAACAAAGCTGTTTCTCAGGCCTGCCTTTCTCCTGTACTAAAGAGGAACT
 AGAAGAAATCTGTAAAGGCTCATGGCACCGTGAAGGACCTCAGGCTGGTACCAACCGGGCTGGCAAACCA
 AAGGGCTGGCTACGTGGAGTATGAAAATGAATCCAGGCGTCGAGGCTGTGATGAAGATGGACGGCA
 TGACTATCAAAGAGAATCATCAAAGTGGCAATCAGCAACCTCCTCAGAGGAAAGTTCAGAGAAAGCC
 AGAGACCAGGAAGGCACCGTGGCCCCATGCTTTTGGCCGAGACATACGGAGCGAGGGGAAAGGGAAGG
 ACGCAGCTGTCTACTGCTCGTCCCTGCAGCGCCAAAGTGTGCAGCTCCTCAGGCTGAGAACGGCC
 CTGCCCGGCTCTGAGTTGCCGCCCCAGCAGCCACCGAGGCACCAAGATGTCCAATGCCGATTTTGC
 CAAGCTGTTTCTGAGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAAAGTCACTCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210837 protein sequence
 Red=Cloning site Green=Tags(s)

MATAAETSASEPEAESKAGPKADGEEDEVKAARTRRKVL SRVAAATYKTMGPAWDQQEEGVSESDGDEY
 AMASSAESSPGEYEWYDEEEKNQLEIERLEEQLSINVYDYNCHVDLIRLLRLEGELTKVRRMARQKMSE
 IFPLTEELWLEWLHDEISMAQDGLDREHVYDLFEKAVKDYICPNIWLEYGQYSVGGIGQKGGLEKVRVSVF
 ERALSSVGLHMTKGLALWEAYREFESAIVEAARLEKVVHSLFRRQLAIPLYDMEATFAEYEEWSEDP
 IPESVIQNYNKALQLEKYKPYEEALLQAEAPRLAEYQAYIDFEMKIGDPARIQLIFERALVENCLVPDLWIRY
 SQYLDRLQKVKDLVLSVHNRAIRNCPWTVALWSRYLLAMERHGVHDQVISVTFEKALNAGFIQATDYVEI
 WQAYLDYLRRRVDFKQDSSKELEELRAAFTRALEYLKQVEEERFNESGDPSCVIMQNWARIEARLNNMQ
 KARELWDSIMTRGNAKYANMWLEYNLERAHGDTQHCRAKALHRAVQCTSDYPEHVCEVLLTMERTEGSL
 E DWDIAVQKTETRLARVNEQRMKAAEKEAALVQEEKEAEQRKARAEEKKALKKKKIRGPEKRGAD
 EDDEKEWGDDEEEQPSKRRRVENSIPAAGETQNVVAAGPAGKCAAVDVEPPSKQKEKAASLKRMPKVLH
 DSSKDSITVFSNLPYSMQEPDTKLRPLFEACGEVVQIRPIFSNRGDFRGYCYVEFKEEKSALQALEMDR
 KSV EGRPMFVSPCVDKSKNPDFKVFVRYSTLEKHKLFISGLPF SCKTEEL EICKAHGTVKDLRLVTNRAG
 PKGLAYVEYENESQASQAVMKMDGMTIKENI I KVAISNPPQRKVPEK PETRKAPGGPMLLPQTYGAR
 GKGR TQLSLLPRALQRPSAAAPQAENGPAAAPAVAAPAATEAPKMSNADF AKLFLRK

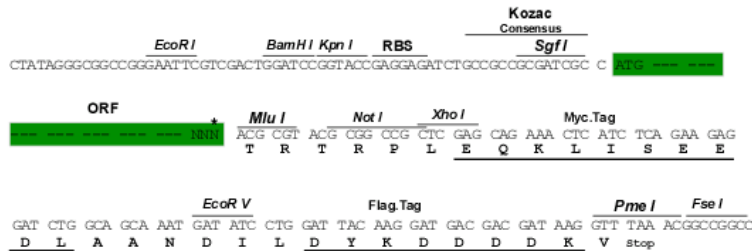
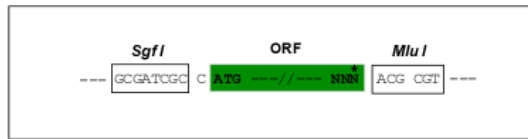
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6592_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



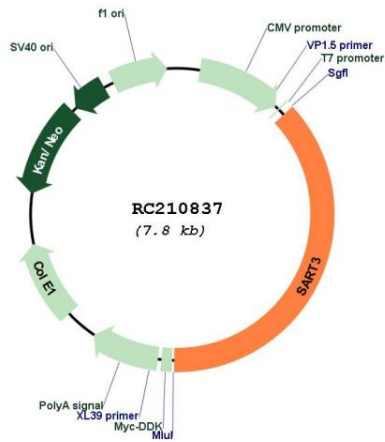
* The last codon before the Stop codon of the ORF

ACCN: NM_014706

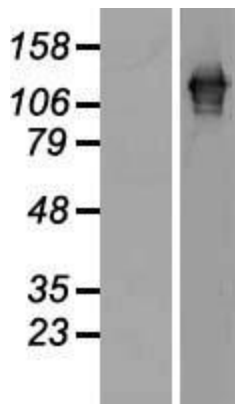
ORF Size: 2889 bp

| | |
|-------------------------------|--|
| 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: | <ol style="list-style-type: none">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_014706.2 , NP_055521.1 |
| RefSeq Size: | 4377 bp |
| RefSeq ORF: | 2892 bp |
| Locus ID: | 9733 |
| UniProt ID: | Q15020 |
| Cytogenetics: | 12q23.3 |
| Domains: | RRM, HAT |
| MW: | 109.9 kDa |
| Gene Summary: | The protein encoded by this gene is an RNA-binding nuclear protein that is a tumor-rejection antigen. 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. This gene product is found to be an important cellular factor for HIV-1 gene expression and viral replication. It also associates transiently with U6 and U4/U6 snRNPs during the recycling phase of the spliceosome cycle. This encoded protein is thought to be involved in the regulation of mRNA splicing. [provided by RefSeq, Jul 2008] |

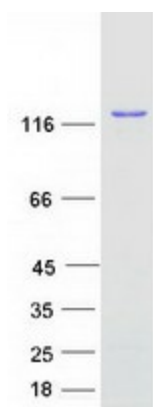
Product images:



Circular map for RC210837



Western blot validation of overexpression lysate (Cat# [LY415084]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210837 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SART3 protein (Cat# [TP310837]). The protein was produced from HEK293T cells transfected with SART3 cDNA clone (Cat# RC210837) using MegaTran 2.0 (Cat# [TT210002]).