

## Product datasheet for **MG210757**

### Sart1 (NM\_016882) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sart1 (NM_016882) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sart1
Synonyms:	U5-110K
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>MG210757 representing NM\_016882  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGGGTCGTCAAAGAAGCACCGTGGCGAGAAGGAGGCGGCCGGGACGACGGCTGCGGCCGGGACTGGGG  
 GCACGACGGAGCAGCCGCCACGGCATCGCGAGCATAAGAAACACAAGCACCGGAGCAGCGGCCGGCGCAG  
 CAGCGGCCGGCAACGACGGAAGCGGAGCCGGGAGCGTGGGAGTGAGCGCGGGAGCGGGCGCGTGGGACC  
 GAAGCCGAGGCCCGCAGCGGCGCGCACGGTTCGCGAACGAAGCCAAGCGGAGCCCTCGGAGCGGCGGTGA  
 AGCGGGAGAAACGCGATGACGGCTACGAGGCCGCTGCCAGCTCCAAGCCAGCTCTGGCGATGCCTCATC  
 CCTCAGCATTGAGGAGACCAATAAACTCCGAGCAAAGTTGGGGCTGAAGCCCTTGAGAGTCAATGCTGTT  
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 CACTGTGGAACATGCCATCGATTCTTTTCGAGAAGGGGAGACTGTGGTCCCTCACCTCAAGGACAAAGGG  
 GTACTGCAGGACGGGAGGAGCTGCTGGTGAATGTGAACATGGTGGACAAGGAGCGGGCGGACAAGAACG  
 TGGAGCTTCGAAAAAGAAGCCTGACTACCTGCCTATGCGGAAGATGAGAGTGTGGACGATTTGGCACA  
 GCAAAAACCTCGTTCTATCCTGGCCAAATATGATGAGGAACTGGAGGCGAGCGACCACATTCCTCCGT  
 CTGGAGCAGGGTGGGATGGCCGATGGCCTGAGGGAACGAGAGTTAGAAGAAATCCGCAACCAAGCTACGGC  
 TGCAGCTCAGTCTCTGAGCTCCGTAGGCCCGGCTTGCTCTGAGTACCTCAGTCCCGAGGAGATGGT  
 GACCTTCAAGAAGACCAACGAGAGTGAAGAAATCCGAAAGAAGGAGAAGGAGGTGATAATGCGGGCA  
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 GGCGCCGAGTTCTGAGGTGGAGGAGGAGGCCCTTGGAGTGGAGAGAAGGACCTGTGGCCAGCCGCC  
 ACCATCGGATGACACTCGAGTAGAGAACATGGACATCAGTATGAAGAGGATGGGGGAGCTCTCCGCCA  
 GGGTCCCAGAGGGGCTGGAGGAAGACGAGGCAGAGCTGGAGCTGCAGAAGCAGCTGGAGAAGGGGCGCC  
 GGCTGCGGCAGCTGCAGCAACTGCAGCAGCTCCGAGACAGCGGTGAGAAGGTGCTGGAGATTGTGAAGAA  
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 ACCACCATCCTGGATGAGGAGCCATCGTGAACAGAGGGCTGGCTGCTGCCCTGCTCTGTGCAGAACA  
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 ACCCAGGACTTCAAGGAGAAAGATGGCTACAAGCCTGATGTTAAGATTGAATACGTGGATGAGACGGGCA  
 GAAACTGACTCCAAGGAGGCATTCCGGCAGCTGTCCCACCGCTTCCACGAAAGGGCTCAGGCAAGAT  
 GAAGACTGAGCGGCGGATGAAGAAGCTGGATGAGGAGGCGCTCCTGAAGAAAAATGAGCTCCAGTGACAGC  
 CCCTGGGCACCGTGGCACTGCTCCAGGAGAAGCAGAAGGCCCAAGACACCGTATATCGTGCTCAGTG  
 GCAGTGGCAAGAGCATGAATGCGAACACCATCACCAAA

ACCGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG210757 representing NM\_016882  
 Red=Cloning site Green=Tags(s)

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MGSSKKHRGEKEAAGTTAAAGTGGTTEQPPRHREHKHKHRSSGGSSGGERRKRSRERGSERGSGRRGT
EAEARSGAHGRERSQAEPSEERRVKREKRDDGYEAAASSKASSGDASSLSIEETNKLRAKLGKPLEVNAV
KKEAGTKEEPVAADVINPMALRQREELREKLAAAKEKRLLNQLGKIKTLGEDDPWLDDTAAWIERSQL
QKEKDLAEKRAKLEEMDQEFVSTLVEEVEEQRRQDLYSARDLQGLTVEHAIDSFREGETVVLTLKDKG
VLQDGEDVLVNVNMVDKERADKNVELRKKKPDYLPYAEDSVDDLAQQKPRSILAKYDEELEGERPHSFR
LEQGGMADGLRERELEEIRTKLRLQAQSLSSVGPRLASEYLSPEEMVTFKTKRRVKKIRKKEKEVIMRA
DDLLPLGDQTQDGFSGRLRGRGRRRVPEVEEEALEDEEKDPVAQPPPSDDTRVENMDISDEEDGGALPP
GSPEGLEEAELELQKLEKGRRLRQLQLQLRDSGEKVLKLVKLESRQRGWEEEDPERKGTIVFN
ATSEFCRTLGEIPTYGLAGNREEQEELMDFERDEERSANGGSESDGEENIGWSTVNLDEEKQHQDFASS
TTILDEEPIVNRGLAAALLLCQNKGLLETTVQKVARVKAPNKSLPSAVYCIEDKMAIDDKYSRREEYRGF
TQDFKEKDGYPVKIEYVDETGRKLTPEAFRQLSHRFHGKSGKMKTERRMKKLDEEALLKKMSSSDT
PLGTVALLQEKQKAQKTPYIVLSGSGKSMNANTITK
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_016882

ORF Size: 2418 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\\_016882.3](#), [NP\\_058578.3](#)

**RefSeq Size:** 5091 bp

**RefSeq ORF:** 2421 bp

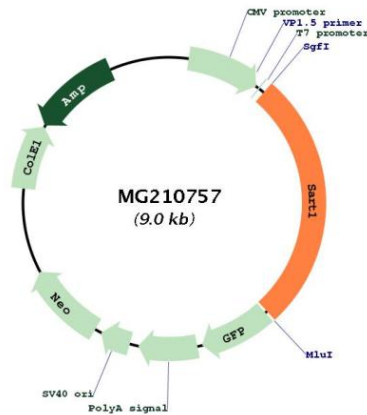
**Locus ID:** 20227

**UniProt ID:** [Q9Z315](#)

**Cytogenetics:** 19 A

**Gene Summary:** Plays a role in mRNA splicing as a component of the U4/U6-U5 tri-snRNP, one of the building blocks of the spliceosome. May also bind to DNA. Appears to play a role in hypoxia-induced regulation of EPO gene expression.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG210757