

Product datasheet for MR200382

Smdt1 (NM_026914) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Smdt1 (NM_026914) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Smdt1
Synonyms: 1500032L24Rik; Emre
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200382 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCCACGGCGGCTCGGCGGCTGGCTGGGTTGCAGTTCGACCCGGGGCTCTCTGGAGCGGGCCGA
GGGGGAGGAGAGGTGGCGATGTCTACACCGTACCGGCAGCTCAGGTCTCAGCCAGGTACCGTCGAGGTC
AGTCATCGTCACTCGCAGCGGCCATTTGCCAAGCCGGTAAAATGCCTTTGGTCTTCTCCGAGTG
TTCTCCATTGTGATCCCCTTTCTATGTGGGACTCATCAGCAAGAACTTCGCTGCTCTGCTTGAGG
AACATGACATTTTGTCCAGAGGATGACGACGACGACGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200382 protein sequence
 Red=Cloning site Green=Tags(s)
 MASTAARRLAWVAVRPGALWSGPRRRGGDVYTVPGSSGLSQVPSRSVIVTRSGAILPKPVKMSFGLLRV
 FSIVIPFLYVGTLISKNFAALLEEHDFVPEDDDDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

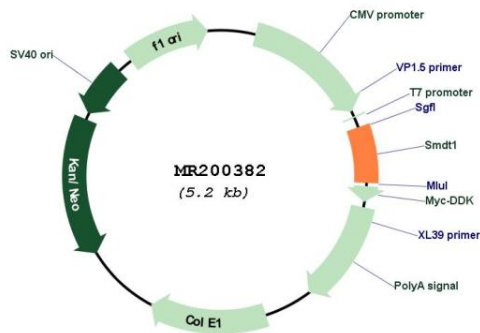


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Locus ID: 69029
UniProt ID: [Q9DB10](#)
Cytogenetics: 15 E1
MW: 11.5 kDa

Gene Summary: Essential regulatory subunit of the mitochondrial calcium uniporter complex (uniplx), a complex that mediates calcium uptake into mitochondria (PubMed:27001609). Required to bridge the calcium-sensing proteins MICU1 and MICU2 with the calcium-conducting subunit MCU. Plays a central role in regulating the uniplx complex response to intracellular calcium signaling. Acts by mediating activation of MCU and retention of MICU1 to the MCU pore, in order to ensure tight regulation of the uniplx complex and appropriate responses to intracellular calcium signaling (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200382