

Product datasheet for **MC201345**

Smdt1 (NM_026914) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Smdt1 (NM_026914) Mouse Untagged Clone
Tag: Tag Free
Symbol: Smdt1
Synonyms: 1500032L24Rik; Emre
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC028457 sequence for NM_026914
GGGTGGGGTGTGGCTCCCGGCGAGGGGCGGAGCTGGAGATGGCGTCCACGGCGGCTCGGCGGCTGGCCTG
GGTTGCAGTTCGACCCGGGGCTCTCTGGAGCGGGCCGAGGGGAGGAGGTTGGCGATGTCTACACCGTA
CCGGGCAGCTCAGGTCTCAGCCAGGTACCGTTCGAGGTCAGTCATCGTCACTCGCAGCGGCCATTTTGC
CCAAGCCGGTGAAAATGTCCTTTGGTCTTCTCCGAGTGTCTCCATTGTGATCCCTTTCTCTATGTCGG
GACACTCATCAGCAAGAACTTCGCTGCTGCTTGGGAACATGACATTTTTGTCCAGAGGATGACGAC
GACGACGATTAACAGGGCACAGGGAGCACAGGAGAAAGCACTGATGATGTGGTGGCATGCTCAGCTCCCT
CCCGTCCGAGAAAGGTCAGGAAAGCCCTCAGCCTCACCTCCTCATGGTTTGTGACAAGAGCCAGAGT
CCTGTGCTTTGGGAGGCTCCCTCAGGCTGTCCACAGAGTACTGGAAATAACAAGCAAGCAAATTAGGAG
TGTATAATAAATGAGTCATGTATGAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI

ACCN: NM_026914

Insert Size: 324 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).

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).



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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: [BC028457](#), [AAH28457](#)

RefSeq Size: 608 bp

RefSeq ORF: 324 bp

Locus ID: 69029

UniProt ID: [Q9DB10](#)

Cytogenetics: 15 E1

Gene Summary: Essential regulatory subunit of the mitochondrial calcium uniporter complex (unipler), 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 unipler 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 unipler complex and appropriate responses to intracellular calcium signaling (By similarity).[UniProtKB/Swiss-Prot Function]