

## Product datasheet for MR202921

### Smndc1 (NM\_172429) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Smndc1 (NM_172429) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smndc1
Synonyms:	2410004J23Rik; 4933440I19Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202921 representing NM_172429 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGTCAGAGGATCTAGCAAAACAGTTGGCTAGCTACAAAGCTCAACTCCAGCAAGTAGAAGCTGCCCTTT  
CTGGAAATGGAGAAAATGAAGATCTATTGAACTGAAGAAGGATTTGCAAGAAATAGAAGTACACAA  
AGACCTTCTGTCAACTCAGCCTTCGGAGACGCTCGCAAGCTCAGACAGTTTTGCTTCTACTCAGCCACT  
CATTTCATGGAAAGTAGGGGACAAGTGCATGGCCGTGTGGAGTGAAGACGGACAGTGTACGAAGCGGAGA  
TTGAAGAGATAGATGAAGAAAATGGCACCGCTGCAATCACCTTTGCTGTTATGGCAATGCCGAAGTGAC  
GCCATTGCTGAACCTCAAGCCTGTAGAAGAAGGAAGGAAGGCGAAAGAGGACAGCGGCAACAAACCCATG  
TCAAAAAAAGAAATGATCGCCAGCAGCGTGAATATAAAAAAGAAAAAGCTTTGAAAAAGCACAGAGAA  
TAAAGAGTTGGAGCAGGAGCGAGAGGACCAGAAGGTGAAATGGCAGCAGTTCAACAACAGGGCGTACTC  
CAAGAACAAGAAAGGCCAGGTAAGAGGAGTATTTTTGCTTCCAGAAAGTGTAAACGGGCAAAAGTTGGA  
GTAGGAACCTGTGGAATTGCTGACAAGCCCATGACACAGTATCAAGATACATCCAAGTACAATGTCAGGC  
ATTTGATGCCTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202921 representing NM\_172429  
Red=Cloning site Green=Tags(s)

MSEDLAKQLASYKAQLQQVEAALSGNGENEDLLKLLKDLQEVIELTKDLLSTQPSETLASSDSFASTQPT  
 HSWKVGDKCMAVWSEDDGQCYEAEIEEIDEENGTAAITFAVYGNAEVTPLLNLPVEEGRKAKEDSGNKPM  
 SKKEMIAQQREYKKKKALKKAQRRIKELEQEREDQKVKWQQFNNRAYSKNKKGQVKRSIFASPEVTKGVG  
 VGTTCGIADKPMTYQDTSKYNVRHLMPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9062\\_a09.zip](https://cdn.origene.com/chromatograms/mm9062_a09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_172429

**ORF Size:** 714 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\\_172429.3](#)

**RefSeq Size:** 2125 bp

**RefSeq ORF:** 717 bp

**Locus ID:** 76479

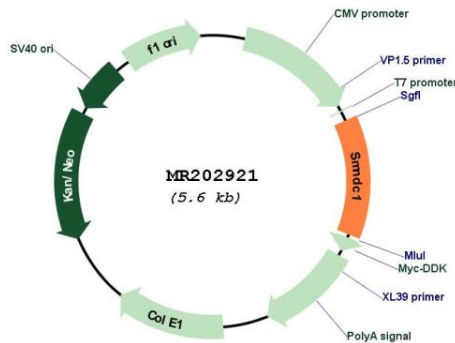
**UniProt ID:** [Q8BGT7](#)

**Cytogenetics:** 19 D2

**MW:** 26.8 kDa

**Gene Summary:** Necessary for spliceosome assembly. Overexpression causes apoptosis (By similarity).  
[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR202921