

## Product datasheet for RC240012

### SMC1L2 (SMC1B) (NM\_001291501) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SMC1L2 (SMC1B) (NM_001291501) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SMC1B
Synonyms:	SMC1BETA; SMC1L2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC240012 representing NM_001291501 Red=Cloning site Blue=ORF Green=Tags(s)

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ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC240012 representing NM\_001291501  
 Red=Cloning site Green=Tags(s)

MAHLELLLVENFKSWRGRQVIGPFRFTCIIGPNGSGKSNVMDALSFVMGEKIANLRVKNIQELIHGAHI  
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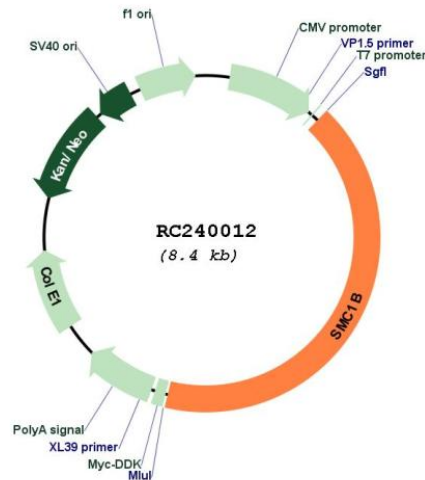
Restriction Sites:

SgfI-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001291501

ORF Size: 3483 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\\_001291501.2](#)

RefSeq Size: 4044 bp

RefSeq ORF: 3486 bp

Locus ID: 27127

UniProt ID: [Q8NDV3](#)

Cytogenetics: 22q13.31

**Protein Pathways:** Cell cycle, Oocyte meiosis

**MW:** 136.2 kDa

**Gene Summary:** SMC1L2 belongs to a family of proteins required for chromatid cohesion and DNA recombination during meiosis and mitosis (3:Revenkova et al., 2001 [PubMed 11564881]). [supplied by OMIM, Mar 2008]