

Specifications:

Gene:	<i>hSMC1A</i>
Accession:	NP_006297
Insert size:	3714bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

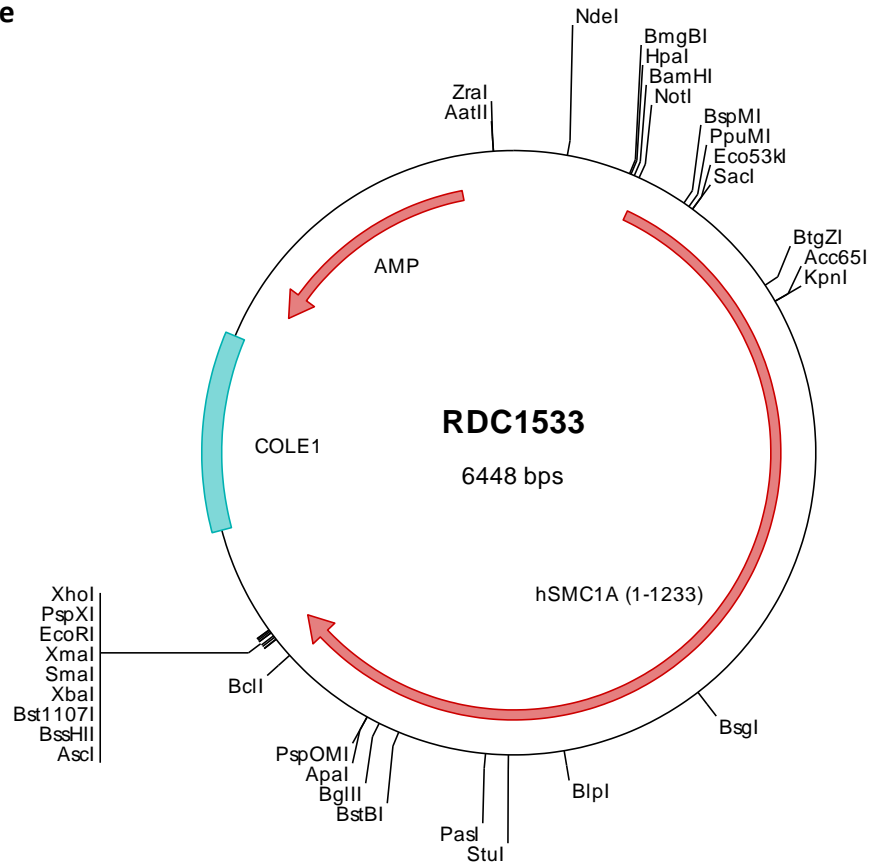
hSMC1A cDNA Plasmid

SMC1A structural maintenance of chromosomes 1A [*Homo sapiens* (human)]

Also known as: SMC1; SMCB; CDLS2; SB1.8; SMC1L1; DXS423E; SMC1alpha

Summary:

SMC1A is an ATPase which, with SMC3, forms a heterodimeric complex. The SMC1A/SMC3 heterodimer plays an important role in sister chromatid cohesion during metaphase, associates with the nuclear matrix and centrosome during interphase and localizes to kinetochores, spindles and spindle poles during mitosis. SMC1A is also a component of the DNA damage response and participates in the cellular response to DNA damage through its phosphorylation on Ser 957 and 966. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC1533 Plasmid DNA Sequence

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> **RDC1533 Translated Insert Sequence**

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