

Product datasheet for **MR209400L4V**

Smc5 (BC007174) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Smc5 (BC007174) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Smc5
Synonyms:	MGC30442, MGC7569, mKIAA0594
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	BC007174
ORF Size:	1833 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR209400).
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.
RefSeq:	BC007174 , AAH07174
RefSeq Size:	3883 bp
RefSeq ORF:	1835 bp
Locus ID:	226026
Cytogenetics:	19 B


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Gene Summary:

Core component of the SMC5-SMC6 complex, a complex involved in repair of DNA double-strand breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination and mediates sumoylation of shelterin complex (telosome) components. Required for sister chromatid cohesion during prometaphase and mitotic progression; the function seems to be independent of SMC6 (By similarity).[UniProtKB/Swiss-Prot Function]