

Product datasheet for **MR211814L4V**

Smc3 (NM_007790) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Smc3 (NM_007790) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Smc3
Synonyms:	Bamacan; Cspg6; HCAP; Mmip1; SMC-3; SmcD
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_007790
ORF Size:	3651 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR211814).
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:	NM_007790.3 , NP_031816.2
RefSeq Size:	4851 bp
RefSeq ORF:	3654 bp
Locus ID:	13006
UniProt ID:	Q9CW03
Cytogenetics:	19 D2


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Gene Summary:

Central component of cohesin, a complex required for chromosome cohesion during the cell cycle. The cohesin complex may form a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. Cohesion is coupled to DNA replication and is involved in DNA repair. The cohesin complex plays also an important role in spindle pole assembly during mitosis and in chromosomes movement.[UniProtKB/Swiss-Prot Function]