

Product datasheet for **RC208401L4V**

SMC3 (NM_005445) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	SMC3 (NM_005445) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SMC3
Synonyms:	BAM; BMH; CDLS3; CSPG6; HCAP; SMC3L1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_005445
ORF Size:	3651 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC208401).
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_005445.3
RefSeq Size:	4131 bp
RefSeq ORF:	3654 bp
Locus ID:	9126
UniProt ID:	Q9UQE7
Cytogenetics:	10q25.2
Domains:	SMC_N, SMC_C
Protein Families:	Druggable Genome



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Protein Pathways: Cell cycle, Oocyte meiosis

MW: 142 kDa

Gene Summary: This gene belongs to the SMC3 subfamily of SMC proteins. The encoded protein occurs in certain cell types as either an intracellular, nuclear protein or a secreted protein. The nuclear form, known as structural maintenance of chromosomes 3, is a component of the multimeric cohesin complex that holds together sister chromatids during mitosis, enabling proper chromosome segregation. Post-translational modification of the encoded protein by the addition of chondroitin sulfate chains gives rise to the secreted proteoglycan bamacan, an abundant basement membrane protein. [provided by RefSeq, Jul 2008]