

Product datasheet for RC208401L4

SMC3 (NM_005445) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SMC3 (NM_005445) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: SMC3

Synonyms: BAM; BMH; CDLS3; CSPG6; HCAP; SMC3L1

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

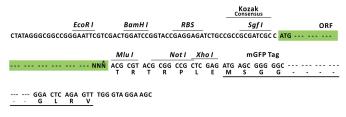
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC208401).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.



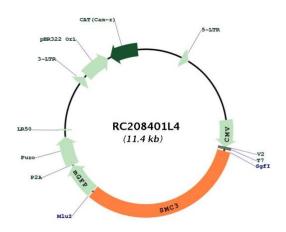
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Plasmid Map:



ACCN: NM_005445 **ORF Size:** 3651 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: <u>NM 005445.3</u>

RefSeq Size: 4131 bp RefSeq ORF: 3654 bp



SMC3 (NM_005445) Human Tagged Lenti ORF Clone - RC208401L4

Locus ID: 9126

UniProt ID: Q9UQE7

Cytogenetics: 10q25.2

Domains: SMC_N, SMC_C

Protein Families: Druggable Genome

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]