

Product datasheet for RC218160L3

SOS2 (NM_006939) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SOS2 (NM_006939) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: SOS2

Synonyms: NS9; SOS-2

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

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

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC218160).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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



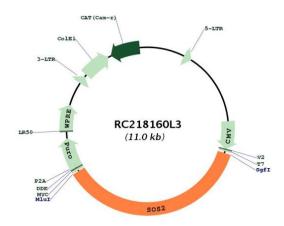
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Plasmid Map:



ACCN: NM_006939 **ORF Size:** 3996 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

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 006939.2</u>

 RefSeq Size:
 5313 bp

 RefSeq ORF:
 3999 bp

 Locus ID:
 6655

 UniProt ID:
 Q07890

Cytogenetics: 14q21.3

Protein Pathways: Acute myeloid leukemia, B cell receptor signaling pathway, Chemokine signaling pathway,

Chronic myeloid leukemia, Colorectal cancer, Dorso-ventral axis formation, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Jak-STAT signaling pathway, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway,

Non-small cell lung cancer, Pathways in cancer, Prostate cancer, Regulation of actin

cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway

MW: 153 kDa

Gene Summary: This gene encodes a regulatory protein that is involved in the positive regulation of ras

proteins. Mutations in this gene are associated with Noonan Syndrome-9. [provided by

RefSeq, Jul 2016]