

# Product datasheet for RC218947L4

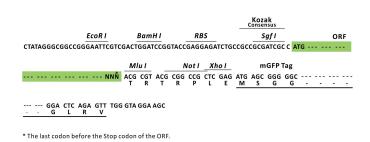
## SMOX (NM\_175839) Human Tagged Lenti ORF Clone

## **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	SMOX (NM_175839) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	SMOX
Synonyms:	C20orf16; PAO; PAO-1; PAO1; PAOH; PAOH1; SMO
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC218947).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I         ORF         Miu I            GCG ATC GC         ATG //         NNN         ACG CGT



ACCN: ORF Size: NM\_175839 1665 bp



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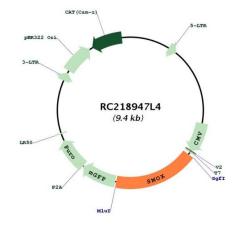
	(NM_175839) Human Tagged Lenti ORF Clone – RC218947L4
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to 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 <u>custsupport@origene.com</u> 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:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 175839.1</u>
RefSeq Size:	2203 bp
RefSeq ORF:	1668 bp
Locus ID:	54498
UniProt ID:	<u>Q9NWM0</u>
Cytogenetics:	20p13
Protein Families:	Druggable Genome
MW:	61.6 kDa

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Gene Summary:Polyamines are ubiquitous polycationic alkylamines which include spermine, spermidine,<br/>putrescine, and agmatine. These molecules participate in a broad range of cellular functions<br/>which include cell cycle modulation, scavenging reactive oxygen species, and the control of<br/>gene expression. These molecules also play important roles in neurotransmission through<br/>their regulation of cell-surface receptor activity, involvement in intracellular signalling<br/>pathways, and their putative roles as neurotransmitters. This gene encodes an FAD-<br/>containing enzyme that catalyzes the oxidation of spermine to spermadine and secondarily<br/>produces hydrogen peroxide. Multiple transcript variants encoding different isoenzymes have<br/>been identified for this gene, some of which have failed to demonstrate significant oxidase<br/>activity on natural polyamine substrates. The characterized isoenzymes have distinctive<br/>biochemical characteristics and substrate specificities, suggesting the existence of additional<br/>levels of complexity in polyamine catabolism. [provided by RefSeq, Jul 2012]

### **Product images:**



Circular map for RC218947L4

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