

# Product datasheet for MG219794

## Smox (NM\_001177840) Mouse Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

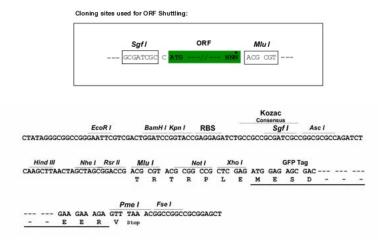
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Product Type:	Expression Plasmids
Product Name:	Smox (NM_001177840) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Smox
Synonyms:	B130066H01Rik; PAO; PAOh1; SMO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219794 representing NM_001177840 Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGCC</mark>
	ATGCAAAGTTGTGAATCCAGTGGCGACAGTGCGGATGACCCTCTCAGTCGTGGCCTACGGAGAAGGGGAC AGCCTCGTGTGGTGGTGATCGGTGCTGGCTGGCTGGCCTGGCTGCAGCTAGAGCCCTTCTGGAGCAGGG CTTCACGGATGTCACTGTGCTTGAGGCTTCCAGCCACATTGGGGGCCCGTGTGCAGAGTGTGAGGCTTGGA GACACCACCTTTGAGCTGGGAGCCACCTGGATCCATGGATCCCACGGGAATCCTATCTAT
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>MG219794 representing NM_001177840 Red=Cloning site Green=Tags(s)
	MQSCESSGDSADDPLSRGLRRRGQPRVVVIGAGLAGLAAARALLEQGFTDVTVLEASSHIGGRVQSVRLG DTTFELGATWIHGSHGNPIYQLAEANGLLEETTDGERSVGRISLYSKNGVACYLTNRGCRIPKDVVEEFS DLYNEPMQVLFSGEATHRKYYSTTHGALLSGQREAARLIEMYRDLFQQGP
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul



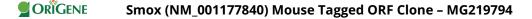
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### **Cloning Scheme:**



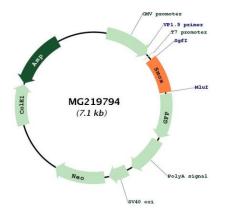
ACCN:	NM_001177840
ORF Size:	570 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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. <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 001177840.1, NP 001171311.1</u>
RefSeq Size:	1095 bp
RefSeq ORF:	573 bp
Locus ID:	228608
UniProt ID:	<u>Q99K82</u>
Cytogenetics:	2 F1

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Gene Summary: Flavoenzyme which catalyzes the oxidation of spermine to spermidine. Can also use N(1)acetylspermine and spermidine as substrates, with different affinity depending on the isoform (isozyme) and on the experimental conditions. Plays an important role in the regulation of polyamine intracellular concentration and has the potential to act as a determinant of cellular sensitivity to the antitumor polyamine analogs. May contribute to beta-alanine production via aldehyde dehydrogenase conversion of 3-amino-propanal. [UniProtKB/Swiss-Prot Function]

### **Product images:**



Circular map for MG219794

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