

Product datasheet for MC212824

Smox (NM_001177837) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Smox (NM_001177837) Mouse Untagged Clone
Tag: Tag Free
Symbol: Smox
Synonyms: B130066H01Rik; PAO; PAOh1; SMO
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC212824 representing NM_001177837
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAAAGTTGTGAATCCAGTGGCGACAGTGGGATGACCCTCTCAGTCGTGGCCTACGGAGAAGGGGAC
 AGCCTCGTGTGGTGGTATCGGTGCTGGCTGGCTGGCTGCAGCTAGAGCCCTTCTGGAGCAGGG
 CTTACCGATGTCAGTGTCTTGGGCTCCAGCCACATTGGGGCCGTGTGCAGAGTGTGAGGCTTGA
 GACACCACCTTTGAGCTGGGAGCCACCTGGATCCATGGATCCACGGGAATCCTATCTCAACTAGCAG
 AAGCCAATGGCCTTTTGAAGAGACAACAGATGGGGAGCGCAGTGTGGCCGCATCAGCCTTACTCCAA
 GAATGGCGTGGCCTGCTACCTTACCAACCGTGGCTGCCGCATCCCAAGGACGTGGTTGAGGAATTCAGC
 GATTTATACAACGAGGTCTATAACATGACCCAGGAGTTCTTCCGGCATGGTAAACCAGTCAATGCCGAGA
 GTCAGAACAGCGTCCGGGTGTTACCCGGGAGAAGGTGCGGAATCGCATCAGGGATGACCCTGACGACAC
 AGAGGCCACCAAGCGCTGAAGCTCGCCATGATCCAGCAGTACCTGAAGGAGCCCTTTGGGGCCCCGAG
 TGCAACAGCCTGCAGTTCGTGTGGGAGGATGAGGCAGAGAGCTGTACCCTCACCTACCCACCTGAGCTCT
 GGTACCGCAAGATCTGTGGCTTCGATGTCCTTTATCCGCCAGAGCGCTATGGCCATGTGCTGAGTGGCTG
 GATCTGTGGGGAGGAGGCTCTTGTGATGGAGAGGTGCGATGACGAGGCTGTAGCTGAGATCTGCACAGAG
 ATGCTTCGACAGTTCACAGGGAACCCCAATATACCAAAAACCTAGGCGAATCCTGCCTCAGCCTGGGGCA
 GCAACCCATACTTCCGGGTTCTATTCTACACACAGGTGGGCTCAAGTGGGGCGGATGTGGAGAAGCT
 AGCCAAGCCCCTGCCCTACACAGAGAGCTCCAAGACAGCGCCATGCAGGTGCTCTTCTCCGGGAGGCC
 ACACACCGCAAGTACTACTCCACCACCCAGGTGCTCTGCTCTTGCCAGCGCAGGCGCCCGGCTCA
 TCGAGATGTACCGAGACCTTCCAGCAGGGGCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001177837
Insert Size:	1158 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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 style="list-style-type: none"> 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_001177837.1, NP_001171308.1</u>
RefSeq Size:	1680 bp
RefSeq ORF:	1158 bp
Locus ID:	228608
Cytogenetics:	2 F1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (6) uses a different splice site and lacks an alternate, in-frame exon, compared to variant 1. The resulting protein (isoform f) is shorter when it is compared to isoform a.</p>