

Product datasheet for MR227868

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OriGene Technologies, Inc.

Sigmar1 (NM 001286551) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Sigmar1 (NM_001286551) Mouse Tagged ORF Clone

Tag: Myc-DDK
Symbol: Sigmar1

Synonyms: mSig; O; Oprs1; Si; Sig1R; sigma1R

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >MR227868 representing NM_001286551
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCCGTGGGCCGCGGACGCCGGTGGGCATGGATCACCCTGATTCTGACTATTATCGCAGTGCTGATCC AGGCCGCCTGGTTGTGGCTGGCACCCAAAACTTCGTCTTCTCTAGAGAAGAAATAGCGCAGCTTGCTCG ACAGTATGCGGGGCTGGACCATGAGCTTGCCTTCTCTCGGCTGATCGTGGAGCTGCGGAGGCTGCACCCA GGCCACGTGCTGCCGGATGAGGAGCTGCAGTGGGTATTTGTGAACGCGGGCGCTGGATGGGCGCCATGT

GTATTCTGCACGCCTCGCTGTCTGAGACGATACTGGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227868 representing NM_001286551

Red=Cloning site Green=Tags(s)

MPWAAGRRWAWITLILTIIAVLIQAAWLWLGTQNFVFSREEIAQLARQYAGLDHELAFSRLIVELRRLHP

GHVLPDEELQWVFVNAGGWMGAMCILHASLSETILG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

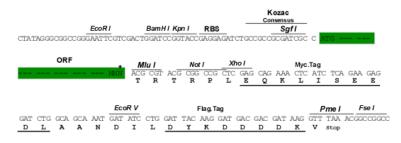
Restriction Sites: Sgfl-Mlul





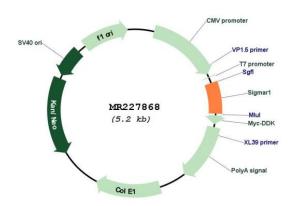
Cloning Scheme:





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

Plasmid Map:



ACCN: NM_001286551

ORF Size: 318 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

Sigmar1 (NM_001286551) Mouse Tagged ORF Clone - MR227868

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 001286551.1</u>, <u>NP 001273480.1</u>

RefSeq Size: 1593 bp
RefSeq ORF: 321 bp
Locus ID: 18391
UniProt ID: 055242
Cytogenetics: 4 A5

MW: 12.5 kDa

Gene Summary: This gene encodes a transmembrane protein located in the endoplasmic reticulum. The

encoded protein is a receptor that binds several endogenous ligands, including N,N-dimethyltryptamine, progesterone and pregnenolone and a variety of of non-opiate

compounds. The encoded protein plays a role in regulating the activity of ion channels, acting as a chaperone and protecting cells from oxidative stress. In humans, this receptor has been

associated with Alzheimer's and Parkinson's diseases, stroke and numerous disease conditions such as depression, pain and addiction. Alternative splicing results in multiple

transcript variants encoding different isoforms.[provided by RefSeq, Nov 2013]