

Product datasheet for **MR223716**

Samd8 (NM_026283) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Samd8 (NM_026283) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Samd8
Synonyms:	1110053F04Rik; 1700010P07Rik; SMSr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223716 representing NM_026283
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCCGCTGGTAGCCGAGCCGGCTCCCGCTGCCTCCGGCTCCCTCCCCGGCCTTCGGTCTGACTC
 TCAAGGCGCTGCGCCCGCTACGCGCCGAGACCCCGACTCCAACGGGACTTAGACACCGGCTCCGA
 GCTGGGTCCCGGAGCCCGGCTCCACCCGCGGAGGAAGTAGAGAAAGAAATGGCAGGTCCTAGTCAACTC
 TGCATTCGCCGCTGGACTACCAAGCATGTGGCTGTGTGGCTGAAGGACGAAGTTTCTTTGAGTATGTGG
 ACATTTTATGCAACAAGCACCGCCTTGATGGAATCACATTGCTCACGCTGACTGAATATGATCTCCGCTC
 TCCTCCTCTGGAAATCAAAGTCTAGGAGACATTAACCGTTAATGCTCTCAGTCCGAAAATTGCAGAAA
 ATACATACTGATTTTTGGAAGAGATGGGCTACAACAGTGACAGTCTATGAGTCCCATGACTCCATTCC
 TTAGTGCTCTTCAGAGTGCAGACTGGCTCTGTAAACGGAGAGCCACACACAGCTGTGATGGGCCATCCC
 TGACTTGAGTTCTGATCAGTACCAGTACATGAATGGCAAAAACAACATTCTGCTCGAAGACTGGACCCA
 GAGTACTGGAAGACCATCCTGAGTTGTGTATATGTTTTATAGTATTTGGGTTTACGTCTTTCATTATGG
 TTATTGTTTCATGAGCGTGTGCCTGACATGCAGACCTACCCACCACTCCCAGATATATTCCTAGACAGTGT
 TCCTAGGATCCCGTGGGCCTTCTCCATGACCGAAGTGTGTGGCGTGATTCTGTGCTACATTTGGATCCTG
 GTTCTTCTTTCACAAGCACAGGTCAATCCTTCTGCGAAGGCTCTGTAGTCTGATGGGCACTGTATTCT
 TGCTTCGCTGTTTACCATGTTTGTGACCTCCCTCTCCGTGCCAGGACAGCACCTGCAGTGTACTGGAAA
 GATATATGGAAGTGTGTGGGAGAACTACGACGGGCATTTGCCATCTGGAGCGGCTTTGGAATGACTCTG
 ACTGGCGTCCACACTTGTGGAGACTACATGTTTCAGTGGCCACACAGTTGTTCTAACCATGCTGAATTTCT
 TTGTCACAGAGTATACCAAGAAGCTGGAATTTCTTGCACACTATCCTGGGTTCTCAACCTCTTTGG
 AATCTTCTTCATCTTGGCTGCCCATGAACATTATCCATTGATGTGTTTATTGCCTTTTATATCACAA
 AGACTCTTTTTGTACTACCATACTCTGGCTAACACCAGAGCGTATCATCAGAGTAGGAGAGCGAGGATTT
 GGTTCCTATGTTTTCTTCTTTGAATGCAATGTTAATGGCACAGTACCTAATGAATATTGTTGGCCATT
 TTCTAAACCAGCAATAATGAAAAGACTAATTGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223716 representing NM_026283
 Red=Cloning site Green=Tags(s)

MPAGSRAGSRLRSGSLPRPSRLTLKALRPAYAPRTPDSNGDLDTGSELGPGSPAPTAEEVEKEMAGSQL
 CIRRWTTKHVAVWLKDEGFFEYVDILCNKHRLDITLLTLEYDLRSPPLEIKVLGDIKRLMLSVRKLRQK
 IHTDVLEEMGYNSDSPMSPMTPFLSALQSADWLCNGEPHSCDGPIDLSSDQYQYMNKGNKHSARRLDP
 EYWKILSCVYVIVFGFTSFIMVIVHERVPMQTYPPLPDIFLDSVPRIWAFSMTVEVCGVILCYIWIL
 VLLLHKHRSILLRRLCSLMGTVFLLRCFTMFVTSLSVPGQHLQCTGKIYGSVWEKLRRAFAIWSFGMTL
 TGVHTCGDYMFSGHTVVLTMLNFFVTEYTPRSWNFLHTLSWVNLNLFGIFFILAAHEHYSIDVFI AFYITT
 RLFLYHTLANTRAYHQSRRIWPFMFSEFECNVNGTVPNEYCWPF SKPAIMKRLIG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_h04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_026283

ORF Size: 1434 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](#)

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: [NM_026283.3](#)

RefSeq Size: 6997 bp

RefSeq ORF: 1437 bp

Locus ID: 67630

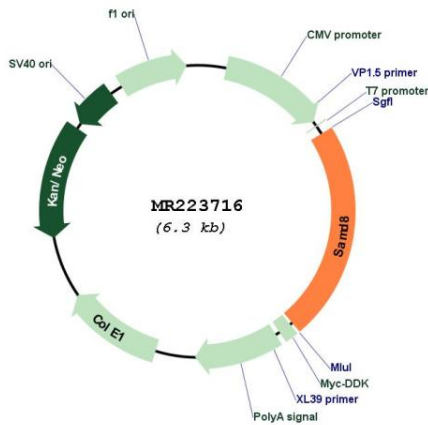
UniProt ID: [Q9DA37](#)

Cytogenetics: 14 A3

MW: 55.2 kDa

Gene Summary: sphingomyelin synthases synthesize sphingolipids through transfer of a phosphatidyl head group on to the primary hydroxyl of ceramide. SAMD8 is an endoplasmic reticulum (ER) transferase that has no sphingomyelin synthase activity but can convert phosphatidylethanolamine (PE) and ceramide to ceramide phosphatidylethanolamine (CPE) albeit with low product yield. Appears to operate as a ceramide sensor to control ceramide homeostasis in the endoplasmic reticulum rather than a converter of ceramides. Seems to be critical for the integrity of the early secretory pathway (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223716