

Product datasheet for RC215965

SAMD8 (NM_144660) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAMD8 (NM_144660) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SAMD8
Synonyms:	HEL-177; SMSr
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC215965 representing NM_144660 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGGTCCTAATCAACTCTGCATTCGCCGCTGGACTACCAAGCATGTAGCTGTGTGGCTGAAGGATG
AAGGCTTTTTTGAATATGTGGACATTTTATGCAATAAGCACCGACTTGATGGAATCACATTGCTAACATT
GACTGAATATGATCTCCGGTCTCCTCCTGGAATCAAAGTCTTAGGGGACATTAAGGTTAATGCTC
TCAGTCCGAAAATTCAGAAAATACATATTGATGTTTTAGAAGAGATGGGCTACAACAGTGACAGTCCCA
TGGGTTCCATGACCCCTTCATCAGTGCTCTTCAGAGTACAGACTGGCTCTGTAATGGGGAGCTTTCCCA
TGACTGTGACGGACCCATAAAGTACTGACTTGAATTCGATCAGTACCAGTACATGAATGGTAAAAACAAACAT
TCTGTTCAAGATTGGACCCAGAATACTGGAAGACTATACTGAGTTGTATATATGTTTTATAGTATTTG
GATTTACATCTTTCATTATGGTTATAGTCCATGAGCGAGTGCCTGACATGCAGACCTATCCACCCTCC
AGATATATTCTTAGACAGCGTTCCTAGAATCCCATGGGCTTTGCCATGACGGAAGTATGTGGCATGATT
CTGTGCTATATTTGGCTCCTGGTCTTCTTCTTCAAGCACAGGTCAATACTTCTGCCAAGGCTCTGTA
GTCTGATGGGAAGTGTATTCTTGCTTCGCTGTTACCATGTTTGTGACCTCCCTCCGTCGCCAGGACA
ACACCTGCAGTGTACTGAAAGATATATGGCAGTGTATGGGAGAAATTACATCGAGCCTTTGCCATTTGG
AGTGGCTTTGGTATGACCTGACTGGCGTTACACATGTGGAGATTACATGTTTGTGGCCACACAGTCG
TCTAACTATGCTGAATTTCTTTGTCACCGAATGTAAGTATCTTTTTAGTGCTTCTATGCGTATTAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC215965 representing NM_144660
Red=Cloning site Green=Tags(s)

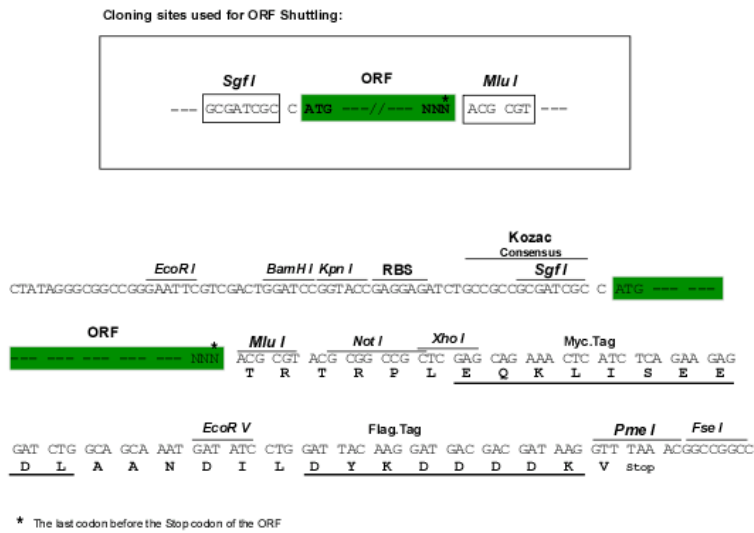
MAGPNQLCIRRWTTKHVAVWLKDEGFFEYVDILCNKHRLDGITLLTLTEYDLRSPPLEIKVLGDIKRLML
 SVRKLQKIHDVLEEMGYNSDSPMGSMTPFISALQSTDWLCNGELSHDCDGPITDLNSDQYQYMNGKNKH
 SVRRLDPEYWKILSICIYVFIVFGFTSFIMVIVHERVPDMQTYPLPDIFLDSVPRIPWAFAMTEVCGMI
 LCIWLLVLLLHKHRSILLRRLCSLMGTVFLLRCFMTMFTSLVSPGQHLQCTGKIYGSVWEKLRFAFIW
 SGFGMTLTGVHTCGDYMFSGHTVVLTMLNFFVTECKYLFASMRIR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

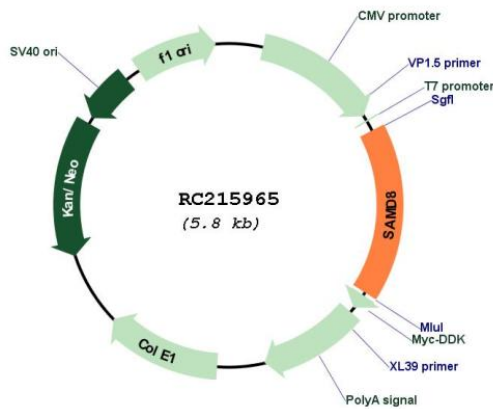
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_144660

ORF Size: 978 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:	<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:	NM_144660.3
RefSeq Size:	7009 bp
RefSeq ORF:	981 bp
Locus ID:	142891
UniProt ID:	Q96LT4
Cytogenetics:	10q22.2
Domains:	SAM
Protein Families:	Transmembrane
MW:	37.6 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 phosphoethanolamine (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.[UniProtKB/Swiss-Prot Function]