

Product datasheet for **RC228275**

SAMD4A (NM_001161577) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAMD4A (NM_001161577) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SAMD4A
Synonyms:	SAMD4; SMAUG; SMAUG1; SMG; SMGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228275 representing NM_001161577 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCCTGACTCCGATCAAGGCCTACAGCTCCCCGAGCACCACCCCGAGGCTCGCCGCCGGGAGCCCC
AGGCCCGCGTCAGCCCTCACTGATGGGCCCGAGAGCCAGAGCCCGACTGCAAAGATGGGGCCGAGC
CACTGGCGCCACGGCCACCCCTCGGCCGGGGCCAGCGGGGGCTCCAGCCGCACCAGCTGAGCAGCTGC
GATGGGGAGCTGGCCGTCGCCCCCTGCCAGAGGGGGACCTCCCCGGGCAGTTCACACCGCTCATGGGA
AAGTGTGCACACAGCTCTTGGTCTCCAGACCTGATGAGGAAAATAAAGTTCCTATTTACAGCTCATAGA
CAAGTGTCTAATTCATGAGGCATTTACAGAGACACAGAAAAAAGATTGTTGTCATGGAAACAGCAGGTG
CAGAAGCTCTTTCGGTCTTTCCCTCGGAAAACCTTCTAGACATATCAGGATATCGACAGCAAAGAAATC
GAGGCTTTGGGAATCCAACCTCCCTCCCGACGGCTGGCTCTGTGGGCGGTGGCATGGGCAGACGGAACCC
GCGCCAGTACCAGATCCCTCTCGGAACGTCCCTCCGCCCGCTGGGCCTTTGGGCACCAGTGGATTC
GTCAGCTCCAACCAGCGCAACACCACAGCTACCCACCATCATGAAACAAGGAAGACAGAACCTGTGGT
TTGCCAACCCGGGGCAGCAATAGCATGCCAAGCCGCACCCACAGCTCAGTCCAGAGGACCCGCTCGT
GCCCGTGACACTTCCCCACAGAACATGCTGATGTTCCAGCAGCCAGGTTCCCAAGTTCACAGTGGACTG
TGTTTAAACAGACCTTAGAGTTGGTTGAGCCTGAGTGGAGCCCCCTCCATGCCAGCGCTGACAGTCCCCA
AGTCTCCAGGGAGAATTCAGCTTCCCGTGACCGAACCTGACATCAACAACAGGCTGGAGTCGTTGTG
CCTCAGTATGACCGAACCGCCCTGGGAGACGGGGTTGACCGGACCTCCACCATC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC228275 representing NM_001161577
 Red=Cloning site Green=Tags(s)

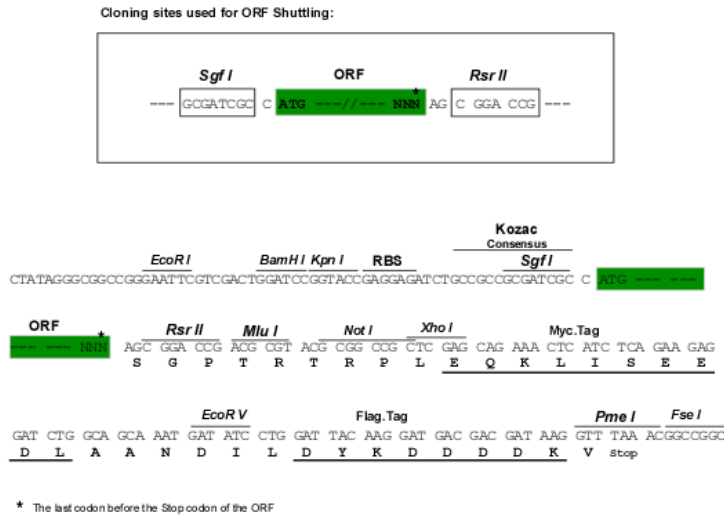
MILTPIKAYSSPSTTPEARREPPQAPRQPSLMGPESQSPDCKDGAATGATATPSAGASGGLQPHQLSSC
 DGELAVAPLPEGDLPGQFTRVMGKVCTQLLVSRPDEENISSYLQLIDKCLIEAF TETQKKRLLSWKQQV
 QKLFRSFPRKTLLEDISGYRQQRNRGFGQSNLPTAGSVGGMGRNRPRQYQIPSRNVPSARLGLLGTSGF
 VSSNQRTTATPTIMKQGRQNLWFANPGGSNSMPSRTHSSVQRTRSLPVHTSPQNMLMFQQPGSQVHSGL
 CLTDLRGWLSLSGAPSMPALTVPKSSQGEFQLPVTEPDINNRLSCLCLSMTEHALGDGVDRTSTI

SGP TRRRLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1275_e09.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001161577

ORF Size: 1035 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_001161577.2](#)

RefSeq ORF: 1038 bp

Locus ID: 23034

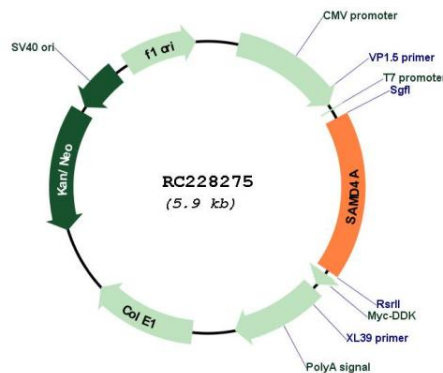
UniProt ID: [Q9UPU9](#)

Cytogenetics: 14q22.2

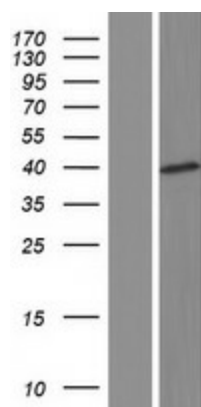
MW: 37.1 kDa

Gene Summary: Sterile alpha motifs (SAMs) in proteins such as SAMD4A are part of an RNA-binding domain that functions as a posttranscriptional regulator by binding to an RNA sequence motif known as the Smaug recognition element, which was named after the *Drosophila* Smaug protein (Baez and Boccaccio, 2005 [PubMed 16221671]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC228275



Western blot validation of overexpression lysate (Cat# [LY431303]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228275 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).