

Product datasheet for **RG228275**

SAMD4A (NM_001161577) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SAMD4A
Synonyms:	SAMD4; SMAUG; SMAUG1; SMG; SMGA
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG228275 representing NM_001161577
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATCCTGACTCCGATCAAGGCCTACAGCTCCCCGAGCACCACCCCGAGGCTCGCCGCCGGGAGCCCC
AGGCCCCGCGTCAGCCCTCACTGATGGGCCCCGAGAGCCAGAGCCCCGACTGCAAAGATGGGGCCGAGC
CACTGGCGCCACGGCCACCCCTCGGCCGGGGCCAGCGGGGGGCTCCAGCCGCACCACTGAGCAGCTGC
GATGGGGAGCTGGCCGTCGCCCCCTGCCAGAGGGGACCTCCCCGGGCAGTTCACACGCGTCATGGGA
AAGTGTGCACACAGCTCTTGGTCTCCAGACCTGATGAGGAAAATATAAGTTCTATTACAGCTCATAGA
CAAGTGTCTAATTCATGAGGCATTTACAGAGACACAGAAAAAAGATTGTTGTCATGGAAACAGCAGGTG
CAGAAGCTCTTTCGGTCTTTCCTCGGAAAACCTTCTAGACATATCAGGATATCGACAGCAAAGAAATC
GAGGCTTTGGGCAATCCAACCTCCCGACGGCTGGCTCTGTGGCGGTGGCATGGGCAGACGGAACCC
GCGCCAGTACCAGATCCCTCTCGGAACGTCCTTCCGCCCGCCTGGGCCTCTTGGGCACCACTGGATT
GTCAGTCCAACCAAGCGCAACACCAAGCTACCCCAACCATCATGAAACAAGGAAGACAGAACCTGTGGT
TTGCCAACCCCGGGGGCAGCAATAGCATGCCAAGCCGACCCACAGCTCAGTCCAGAGGACCCGCTCGCT
GCCCGTGACACTTCCCCACAGAATGCTGATGTTCCAGCAGCCAGGTTCCCAAGTTCACAGTGGACTG
TGTTTAACAGACCTTAGAGGTTGTTGAGCCTGAGTGGAGCCCTTCCATGCCAGCGCTGACAGTCCCCA
AGTCTCTCCAGGGAGAATTCCAGCTTCCCGTGACCGAACCTGACATCAACAACAGGCTGGAGTCGTTGTG
CCTCAGTATGACCGAACACGCCCTGGGAGACGGGGTTGACCGGACCTCCACCATC

AG**GCGACCG**ACGCGTACGCGCGCGCTCGAG - GFP Tag - GTTTAA



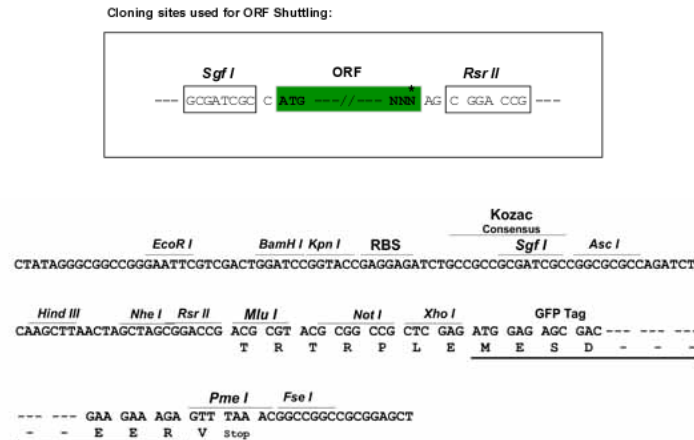
Protein Sequence: >RG228275 representing NM_001161577
Red=Cloning site Green=Tags(s)

MILTPIKAYSSPSTTPEARRREPQAPRQPSLMGPESQSPDCKDGAATGATATPSAGASGGLQPHQLSSC
DGELAVAPLPEGDLPGQFTRVMGKVCTQLLVSRPDEENISSYLQLIDKCLIEAFTETQKKRLLSWKQQV
QKLFRSFPKRTLLDISGYRQQNRNFGQSNLPTAGSVGGMGRRNPRQYIPSRNVPSARLGLLGTSGF
VSSNQRTTATPTIMKQGRQNLWFANPGGSNSMPSRTHSSVQRTRSLPVHTSPQNMLMFQQPGSQVHSGL
CLTDLRGWLSLSGAPSMALTVPKSSQGEFQLPVTEPDINNRLCSLMSMTEHALGDGVDRSTI

SGPTRTRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001161577

ORF Size: 1035 bp

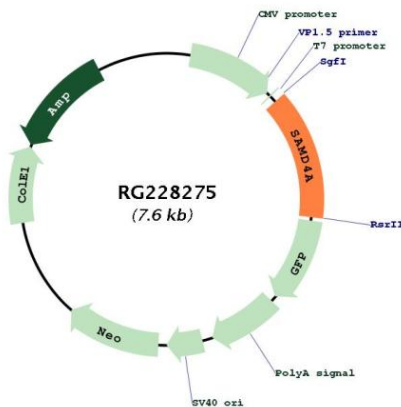
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001161577.2</u>
RefSeq Size:	5576 bp
RefSeq ORF:	1038 bp
Locus ID:	23034
UniProt ID:	<u>Q9UPU9</u>
Cytogenetics:	14q22.2
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 RG228275