

## Product datasheet for **SC326910**

### SAMD4A (NM\_001161577) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SAMD4A (NM\_001161577) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** SAMD4A  
**Synonyms:** SAMD4; SMAUG; SMAUG1; SMG; SMGA  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >SC326910 representing NM\_001161577.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGATCCTGACTCCGATCAAGGCCCTACAGCTCCCCGAGCACCACCCCGAGGCTCGCCGCGGGAGCCC
CAGGCCCGCGTCAGCCCTCACTGATGGCCCCGAGAGCCAGAGCCCGACTGCAAAGATGGGGCCGCA
GCCACTGGCGCCACGGCCACCCCTCGGCCGGGGCCAGCGGGGGGCTCCAGCCGACCCAGCTGAGCAGC
TGCGATGGGGAGCTGGCCGTCGCCCCCTGCCAGAGGGGGACCTCCCGGGCAGTTCACACGCGTCATG
GGGAAAGTGTGCACACAGCTCTTGGTCTCCAGACCTGATGAGGAAAATATAAGTTCCTATTTACAGCTC
ATAGACAAGTGTCTAATTCATGAGGCATTTACAGAGACACAGAAAAAAGATTGTTGTCATGAAACAG
CAGGTGCAGAAGCTCTTTCGGTCTTCCCTCGGAAAACCTTCTAGACATATCAGGATATCGACAGCAA
AGAAATCGAGGCTTTGGGCAATCCAACCTCCCTCCCGACGGCTGGCTCTGTGGGCGGTGGCATGGGCAGA
CGGAACCCGCGCCAGTACCAGATCCCTCTCGGAACGTCCTTCCGCCCGCCTGGGCCTCTTGGGCACC
AGTGGATTCGTACGCTCAACCAGCGCAACACCACAGCTACCCCAACCATCATGAAACAAGGAAGACAG
AACCTGTGGTTTGCCAACCCGGGGGCAGCAATAGCATGCCAAGCCGCACCCACAGCTCAGTCCAGAGG
ACCCGCTCGTGCCCGTGCACACTTCCACAGAACATGCTGATGTTCCAGCAGCCAGGTTCCCAAGTT
CACAGTGGACTGTGTTAAACAGACCTTAGAGGTTGGTTGAGCCTGAGTGGAGCCCTTCCATGCCAGCG
CTGACAGTCCCAAGTCTCCAGGGAGAATTCAGCTTCCCGTGACCGAACCTGACATCAACAACAGG
CTGGAGTCGTTGTCCTCAGTATGACCGAACACGCCCTGGGAGACGGGTTGACCGGACCTCCACCATC
TAG
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
```

**Restriction Sites:** Sgfl-RsrII  
**ACCN:** NM\_001161577



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<b>Insert Size:</b>	1038 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001161577.1</a>
<b>RefSeq Size:</b>	5576 bp
<b>RefSeq ORF:</b>	1038 bp
<b>Locus ID:</b>	23034
<b>UniProt ID:</b>	<a href="#">Q9UPU9</a>
<b>Cytogenetics:</b>	14q22.2
<b>MW:</b>	37.3 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region, initiates translation at a downstream start codon, and includes an alternate in-frame exon in the 3' coding region, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.</p>