SAMD4A cDNA Clone – Sterile Alpha Motif Domain Containing 4a (Human)

PRODUCT OVERVIEW

Product Name	SAMD4A, cDNA Clone
Full Product Name	SAMD4A cDNA Clone
Product Gene Name	SAMD4A cdna clone
Sequence	atgatcctga ctccgatcaa ggcctacagc tccccgagca ccacccccga ggctcgccgc cgggagcccc aggccccgcg tcagccctca ctgatgggcc ccgagagcca gagccccgac tgcaaagatg gggccgcagc cactggcgcc acggccaccc cctcggccgg ggccagcggg gggctccagc cgcaccagct gagcagctgc gatggggagc tggccgtcgc ccccctgcca gagggggacc tccccgggca gttcacacgc gtcatgggga aagtgtgcac acagctcttg gtctccagac ctgatgagga aaatataagt tcctatttac agctcataga caagtgtcta attcatgagg catttacaga gacacagaaa aaaagattgt tgtcatggaa acagcaggtg cagaagctct ttcggtcttt ccctcggaaa acccttctag acatatcagg atatcgacag caaagaaatc gaggctttgg gcaatccaac tccctcccga cggctggctc tgtgggcggt ggcatgggca gacggaaccc gcgccagtac cagatcccct ctcggaacgt cccttccgcc cgcctgggcc tcttgggcac cagtggattc gtcagctcca accagcgcaa caccacagct acccccacca tcatgaaaca aggaagacag aacctgtggt ttgccaaccc cgggggcagc aatagcatgc caagccgcac ccacagctca gtccagagga cccgctcgct gcccgtgcac acttccccac agaacatgct gatgttccag cagccaggtt cccaagttca cagtggactg tgtttaacag accttagagg ttggttgagc ctgagtggag ccccttccat gccagcgctg acagtcccca agtcctccca gggagaattc cagcttcccg tgaccgaacc tgacatcaac aacaggctgg agtcgttgtg cctcagtatg accgaacacg ccctgggaga cggggttgac cggacctcca ccatctag
Molecular Weight	70,095 Da
OMIM	610747
Vector	Please Inquire
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SAMD4A cdna clone	MBS1273270 is a cDNA clone targeting SAMD4A.
Other Notes	Small volumes of SAMD4A cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SAMD4A. It may not necessarily be applicable to this product.

NCBI GI #	34191011
NCBI GeneID	23034
NCBI Accession #	BC021726
UniProt Secondary Accession #	Q0VA96; Q6PEW4; A8MPZ5
UniProt Related Accession #	Q9UPU9
NCBI Official Full Name	Homo sapiens sterile alpha motif domain containing 4A, mRNA
NCBI Official Synonym Full Names	sterile alpha motif domain containing 4A
NCBI Official Symbol	SAMD4A
NCBI Official Synonym Symbols	SMG; SMGA; SAMD4; SMAUG; SMAUG1
UniProt Protein Name	Protein Smaug homolog 1
UniProt Synonym Protein Names	Sterile alpha motif domain-containing protein 4A; SAM domain-containing protein 4A

Protein Family	Protein
UniProt Gene Name	SAMD4A
UniProt Synonym Gene Names	KIAA1053; SAMD4; SMAUG1; Smaug 1; hSmaug1; SAM domain-containing protein 4A
UniProt Entry Name	SMAG1_HUMAN
NCBI Protein Information	protein Smaug homolog 1
NCBI Summary for SAMD4A	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]
UniProt Comments for SAMD4A	SAMD4: Acts as a translational repressor of SRE-containing messengers. Belongs to the SMAUG family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: RNA-binding; Translation Chromosomal Location of Human Ortholog: 14q22.2 Molecular Function: mRNA binding; protein binding; translation repressor activity Biological Process: poly(A) tail shortening; positive regulation of translation; regulation of mRNA stability
Research Articles on SAMD4A	**1.** The Smaug1 is expressed during synaptogenesis, and Smaug1 knockdown affected the number and size of synapses, and also provoked an impaired response to repetitive depolarizing stimuli, as indicated by a reduced induction of Arc/Arg3.1.
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