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Product datasheet for RC215243

SAMD4A (NM_015589) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAMD4A (NM_015589) 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)

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ORF Nucleotide Sequence:

>RC215243 representing NM_015589
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTCGCGACCAGGTCGGGGTGCTGGCGGGCTGGTTTAAGGGCTGGAACGAGTGCGAGCAGACTGTTG
CGCTGCTGTCGCTGCTCAAGCGCGTGAGCCAGACCCAGGCCCGCTTCCTCCAGCTCTGCCTGGAGCACTC
GCTGGCCGACTGCGCCGAGCTGCACGTCCTCGAACGCGAGGCCAACAGCCCCGGAATCATTAACCAATGG
CAACAGGAATCCAAGGATAAAGTGATTTCCCTCCTGTTAACTCATCTGCCTTTGCTGAAGCCAGGAAACC
TCGACGCGAAAGTAGAATATATGAAACTGCTGCCCAAAATCCTGGCTCACTCTATTGAACACAACCAGCA
CATTGAGGAGAGCAGGCAGCTGCTGTCCTATGCTTTGATACATCCAGCCACTTCGTTAGAAGACCGTAGT
GCTTTAGCCATGTGGCTGAATCACTTGGAGGACCGCACGTCGACCAGCTTTGGTGGCCAGAACCGAGGCC
GCTCAGACTCTGTGGATTATGGACAGACACACTACTATCACCAAAGACAGAACTCTGATGACAAGCTCAA
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TGTGAGAATGGCCATGTGCCCCTCTACTCCTCCTCATCTGTCCCCACCACAATCAATACGATTGGAACCA
GCACAAGTACAATTCTCTCAGGCCAGGCACACCACAGCCCTTTGAAACGATCTGTGTCCCTTACCCCACC
CATGAATGTGCCAAACCAGCCTCTAGGACATGGATGGATGTCTCATGAGGACTTACGAGCTAGAGGACCC
CAGTGCCTCCCATCCGATCATGCCCCCCTGTCTCCACAAAGCAGTGTAGCCTCTTCAGGAAGTGGTGGGA
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TCAGTATTCAGAAGCTCAAAGAAAGACAAAATCTCCTGAAGTCTTTGGAAAGGGACATCATCGAGGGGGG
CAGCCTGCGCATCCCGCTCCAGGAACTGCACCAGATGATCCTGACTCCGATCAAGGCCTACAGCTCCCCG
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GCCAGAGCCCCGACTGCAAAGATGGGGCCGCAGCCACTGGCGCCACGGCCACCCCCTCGGCCGGGGCCAG
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GACCTCCCCGGGCAGTTCACACGCGTCATGGGGAAAGTGTGCACACAGCTCTTGGTCTCCAGACCTGATG
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CGCCCGCCTGGGCCTCTTGGGCACCAGTGGATTCGTCAGCTCCAACCAGCGCAACACCACAGCTACCCCC
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CCAGCAGCCAGAATTCCAGCTTCCCGTGACCGAACCTGACATCAACAACAGGCTGGAGTCGTTGTGCCTC
AGTATGACCGAACACGCCCTGGGAGACGGGGTTGACCGGACCTCCACCATC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC215243 representing NM_015589
Red=Cloning site Green=Tags(s)

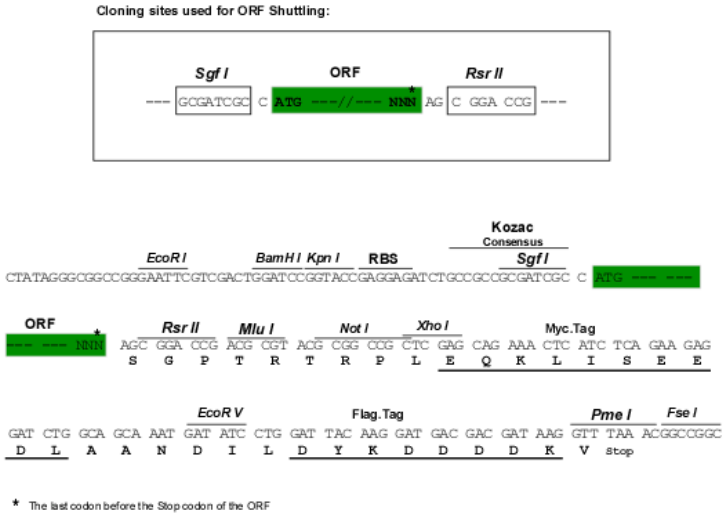
MFRDQVGVLAGWFKGWNECEQTVALLSLLKRVSQTQARFLQLCLEHSLADCAELHVLEREANSPGIINQW
QQESKDKVISLLLTHLPLLKPGNLDAKVEYMKLLPKILAHSIEHNQHIEESRQLLSYALIHPATSLEDRS
ALAMWLNHLEDRTSTSFGGQNRGRSDSVDYGQTHYYHQRQNSDDKLNGWQNSRDSGICINASNWQDKSMG
CENGHVPLYSSSSVPTTINTIGTSTSTILSGQAHHSPLKRSVSLTPPMNVPNQPLGHGWMSHEDLRARGP
QCLPSDHAPLSPQSSVASSGSGGSEHLEDQTTARNTFQEEGSGMKDVPAWLKSLRLHKYAALFSQMTYEE
MMALTECQLEAQNVTKGARHKIVISIQKLKERQNLLKSLERDIIEGGSLRIPLQELHQMILTPIKAYSSP
STTPEARRREPQAPRQPSLMGPESQSPDCKDGAAATGATATPSAGASGGLQPHQLSSCDGELAVAPLPEG
DLPGQFTRVMGKVCTQLLVSRPDEENISSYLQLIDKCLIHEAFTETQKKRLLSWKQQVQKLFRSFPRKTL
LDISGYRQQRNRGFGQSNSLPTAGSVGGGMGRRNPRQYQIPSRNVPSARLGLLGTSGFVSSNQRNTTATP
TIMKQGRQNLWFANPGGSNSMPSRTHSSVQRTRSLPVHTSPQNMLMFQQPEFQLPVTEPDINNRLESLCL
SMTEHALGDGVDRTSTI

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8027_a10.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_015589

ORF Size: 2151 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.

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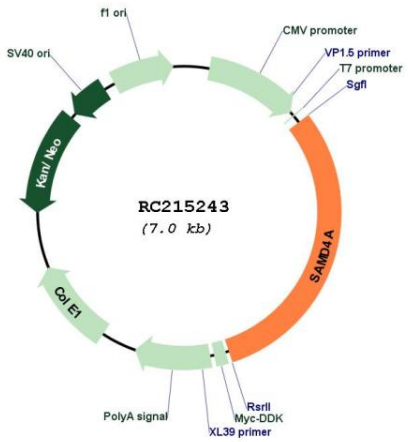
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile 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:	NM_015589.4
RefSeq Size:	2356 bp
RefSeq ORF:	2157 bp
Locus ID:	23034
UniProt ID:	Q9UPU9
Cytogenetics:	14q22.2
MW:	79.1 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 RC215243

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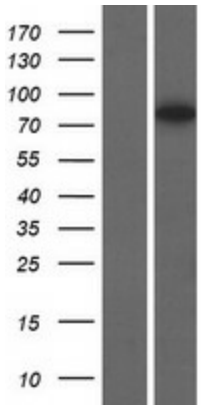
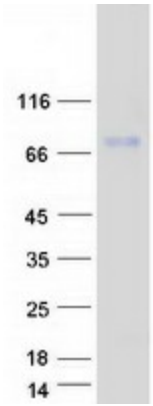


Western blot validation of overexpression lysate (Cat# [LY414440]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215243 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SAMD4A protein (Cat# [TP315243]). The protein was produced from HEK293T cells transfected with SAMD4A cDNA clone (Cat# RC215243) using MegaTran 2.0 (Cat# [TT210002]).

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