

Product datasheet for **RC217500**

SAMD7 (NM_182610) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAMD7 (NM_182610) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SAMD7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC217500 representing NM_182610
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGGCTGTGAACCCCTTTATTGACACCAACAGGGCAGCAGACAATCCCACTGATCCCTCACCATTGTTGGC
 CTCCAACGTGGACAGAGATGTATTGCCTTCCACCGTAGCTCCAACAGCCCAAGACAGTTTTCGCTTCC
 TTCCCAATTTGGATCCTCTGTTCTACCAAAACAAATATGGCAAAATGTGTGTCAGTCGGATCTACCCA
 GGTTGGGGCATTTTACCACCTGAATCCATAAAGGCAGTGGCCAGAAGGAATGAAATGATTCAACGCATC
 ATACTGCCAGGACAGAAATGAAATGTATGCTATTTACCAGCAAAGGAGAATGAAAAAATTAATCCCAA
 GGGACTAGCAGGCCTAGGGATACCCTTCTCTATGGCTCCAGTGTCCAGCTGCCCCGCTGCCTACCAT
 GGCAGGAGCATGCTCCCTGCCGGTGACCTGCATTTTACAGAAGCACCTCAGAAACCTTCAGGGAACCC
 CCATGCTAGCGGCAACTGCACCACACTTTGAGGAGAGCTGGGGGCAGAGATGTCGTCGACTCAGGAAAAA
 TACAGGGAATCAAAAAGCTCTAGACAGTGTGCTGAGAGTTCCAAAAGTCAAGCAGAAGAAAAATCCTA
 GGTCAGACTCATCGAGTTCCCTATGAAGAGGATCATTATGCAAAAAGACCCAGACATTGAAGCACCCAGCA
 ACCAGAAGTCAAGTGAACGAATGAAAAGCCAACGACAGCTCTTGCCAACACCTGTGGAGAGCTCGAGCC
 CACCCATAGGAAACCTGGGGGTCTCACACCACTACCCTGAAAGCAAAGGCCTGGGACGATGGGAAAGAG
 GAGGCTTCGGAGCAGATTTTGAACCTGTGATGAAAAGAATGGGGTTTGCCTCCAGTTCTCGACCAT
 CTCTGCCAGGAACATGCACTGGTTACAATGGGGGGAATCTTCTTTGGATGAAGATATTAGAAGTG
 GACCGTGGATGATGTGCACAGCTTATTCGAGCCTTCCAGGTTGTTGAGACTATGCTCAGGTATTTAA
 GATCATGCAATTGATGGAGAACTTTGCCATTACTCACAGAAGAGCATCTTCGAGGCACTATGGGATTAA
 AGCTAGGGCCGGCACTAAAAATTCAGTCACAGGTATCTCAGCATGTGGGAAGTATGTTCTACAAGAAAAC
 TCTTTCATTTCTATAAGACAAGCATTTGATCAACCAGCAGATACATCCCTCTTCTGGATCCTAATTCC
 TGGAGTGATACAATGAACATTTTTTGTCCCAGGATACAATAATTCCTAAAGGAATTGAGCGAGGTAGTA
 TGAGAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217500 representing NM_182610
 Red=Cloning site Green=Tags(s)

MAVNPLLTPGQQTIPSPFPGPPTVDRDVLPTVAPTDPQFCVPSQFGSSVLPNTNMANVLSRIYP
 GWGILPPESIKAVARRNEMIQRHHTARTEMEMYAIYQRRMEKINPKGLAGLGIPFLYGSSVPAAPAAHY
 GRSMPLPAGDLHFHSTLRNLQGNPMLAATAPHFEESWGQRCRRLRKNTGNQKALDSAESSKSQAEEKIL
 GQTHAVPYEEDHYAKDPDIEAPSNQKSSETNEKPTTALANTCGELEPTHRKPWGSHTTTLKAKAWDDGKE
 EASEQIFATCDEKNGVCPVPRPSLPGTHALVTIGGNLSLDEDIQKWTVDVHSFIRSLPGCSDYAQVFK
 DHAIDGETLPLLTEEHLRGTMGLKLGPAIKIQSQVSHVGSFMFYKKTLSFPIRQAFDQPADTSPLLDPN
 SWSMTMNIIFCPQDTIIPKGIERSMRN

TRTRPLE**QKLISEEDLAANDILDYKDDDDKV**

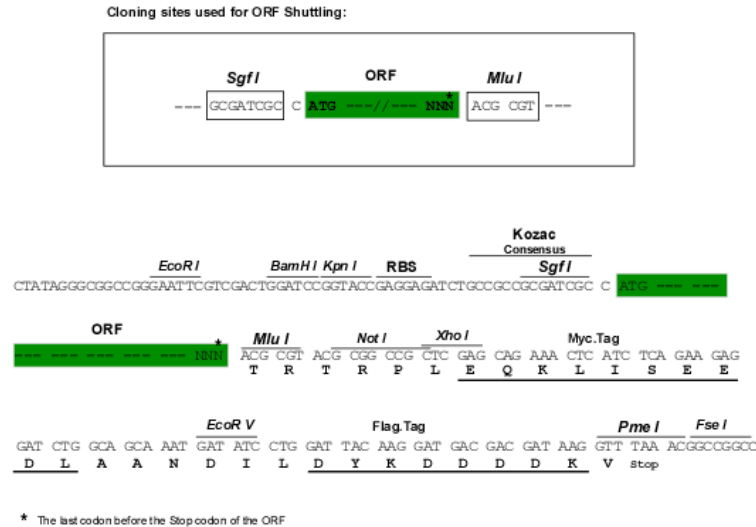
Chromatograms:

https://cdn.origene.com/chromatograms/mk6464_b09.zip

Restriction Sites:

Sgfl-MluI

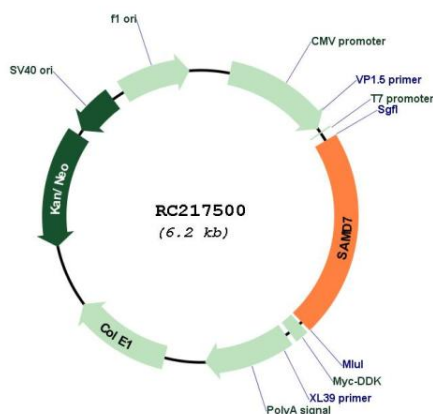
Cloning Scheme:



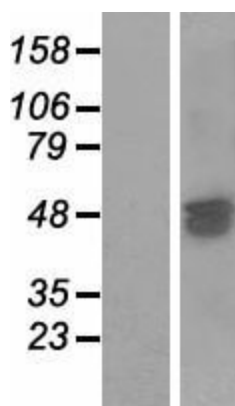
ACCN:	NM_182610
ORF Size:	1338 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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:	NM_182610.4
RefSeq Size:	2281 bp
RefSeq ORF:	1341 bp
Locus ID:	344658

UniProt ID: [Q7Z3H4](#)
Cytogenetics: 3q26.2
MW: 48.9 kDa
Gene Summary: Involved in the regulation of gene expression in the retina. It functions as a negative regulator of CRX-controlled genes.[UniProtKB/Swiss-Prot Function]

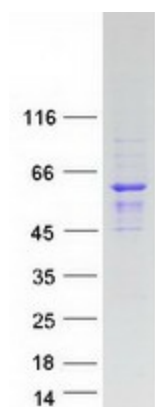
Product images:



Circular map for RC217500



Western blot validation of overexpression lysate (Cat# [LY405456]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217500 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SAMD7 protein (Cat# [TP317500]). The protein was produced from HEK293T cells transfected with SAMD7 cDNA clone (Cat# RC217500) using MegaTran 2.0 (Cat# [TT210002]).