

Product datasheet for **RG217500**

SAMD7 (NM_182610) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAMD7 (NM_182610) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SAMD7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217500 representing NM_182610 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCTGTGAACCTTTATTGACACCAACAGGGCAGCAGACAATCCCACTGATCCCCTCACCATTGGGG
CTCCAAGTGTGGACAGAGATGTATTGCCTTCCACCGTAGCTCCAAGTACCAAGACAGTTTGCCTTCC
TTCCCAATTTGGATCCTCTGTTCTACCAAAACAAATATGGCAAATGTGTGTCCAGTCGGATCTACCCA
GGTTGGGGCATTATACCACCTGAATCCATAAAGGCAGTGGCCAGAAGGAATGAAATGATTCAACGGCATC
ATACTGCCAGGACAGAAATGAAATGTATGCTATTTACCAGCAAAGGAGAATGGAAAAATTAATCCCAA
GGGACTAGCAGGCCTAGGGATACCTTCCCTCTATGGCTCCAGTGTCCAGCTGCCCGCTGCCTACCAT
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CCATGCTAGCGGCAACTGCACCACACTTTGAGGAGAGCTGGGGGCAGAGATGTCGTCGACTCAGGAAAAA
TACAGGGAATCAAAAAGCTCTAGACAGTGTGCTGAGAGTTCCAAAAGTCAAGCAGAAGAAAAATCCTA
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ACCAGAAGTCAAGTGAACGAATGAAAAGCCAACGACAGCTCTTGCCAACACCTGTGGAGAGCTCGAGCC
CACCCATAGGAAACCTGGGGTCTCACACCACTACCCTGAAAGCAAAGCCTGGGACGATGGGAAAGAG
GAGGCTTCGGAGCAGATTTTGAACCTGTGATGAAAAGAATGGGGTTTGCCTCCAGTTCCTCGACCAT
CTCTGCCAGGAACACATGCACTGGTTACAATTGGGGGGAATCTTTCTTTGGATGAAGATATTCAGAAGTG
GACCGTGGATGATGTGCACAGCTTCATTGCGAGCTTCCAGGTTGTTGAGACTATGCTCAGGTATTTAA
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AGCTAGGGCCGGCACTAAAAATTCAGTCACAGGTATCTCAGCATGTGGGAAGTATGTTCTACAAGAAAC
TCTTTCAATTCCTATAAGACAAGCATTTGATCAACCAGCAGATACATCCCTCTTCTGGATCCTAATTCC
TGGAGTGATACAATGAACATTTTGTCCCCAGGATACAATAATTCCTAAAGGAATTGAGCGAGGTAGTA
TGAGAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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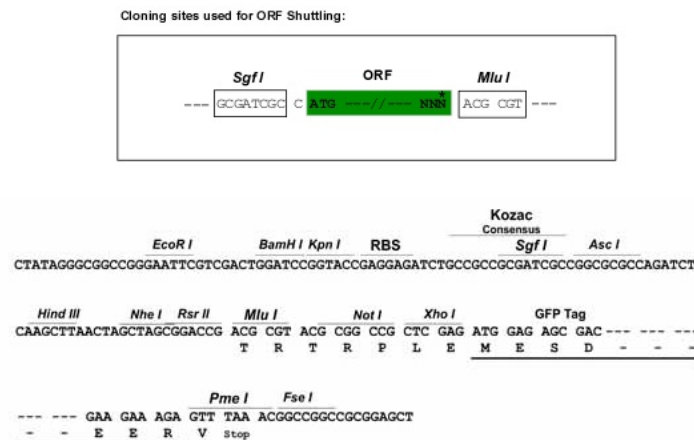
Protein Sequence: >RG217500 representing NM_182610
 Red=Cloning site Green=Tags(s)

MAVNPLLTPGQQTIPSPFPGPTVDRDVLPTVAPTDPQFCVPSQFGSSVLPNTNMANVLSSRIYP
 GWGILPPESIKAVARRNEMIQRHHTARTEMEMYAIYQRRMEKINPKGLAGLGIPFLYGSSVPAAPAYH
 GRSMPLAGDLHFHRLTLNLQGNPMLAATAPHFEESWGQRCRRLRKNTGNQKALDSDAESSKSQAEEKIL
 GQTHAVPYEEDHYAKDPDIEAPSNQKSSETNEKPTTALANTCGELEPTHRKPWGSHTTTTLKAKAWDDGKE
 EASEQIFATCDEKNGVCPVPRPSLPGTHALVTIGGNLSLDEDIQKWTVDVHVSFIRSLPGCSDYAQVFK
 DHAIDGETLPLLTEEHLRGTMLKLGPAIKIQSQVSHVGSFMYKKTLSFPIRQAFDQPADTSPLLDPNS
 WSDTMNIFCPQDTIIPKGIERGSMRN

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-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.

RefSeq: [NM_182610.4](#)

RefSeq Size: 2281 bp

RefSeq ORF: 1341 bp

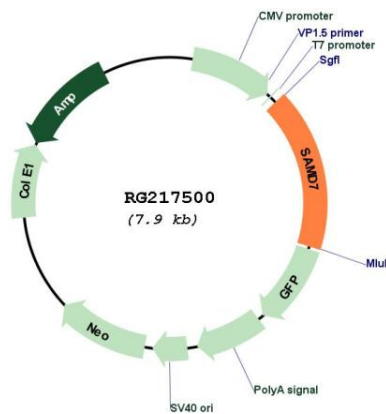
Locus ID: 344658

UniProt ID: [Q7Z3H4](#)

Cytogenetics: 3q26.2

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 RG217500