

Product datasheet for **RC224467**

SAMD12 (NM_207506) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SAMD12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC224467 representing NM_207506
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGCTGTGGAAGCTCTCCACTGTGGTTTGAATCCACGGGTATTGATCACCTGCCATGCTGAAGGTA
TTAAATGCAAATTGAAGGTGAAGGTGTGAATCTCAATCCATTAATAAATTTCCAGAAGGTGCC
TGACCAGAAAGAACTCCCAAGCGACTGCAGGCAGAAGCTGAGACGGCTAAGTCAGCTACGGTGAAGCTA
TCTAAACCGGTGGCTCTATGGACCCAGCAGGATGTCTGCAAGTGGTTGAAGAAACATTGTCCGAATCAGT
ATCAGATCTACAGTGAGTCATTCAACAGCATGACATAACTGGGCGAGCCCTGCTGAGACTTACTGACAA
AAAGCTCGAGCGAATGGGGATTGCCAGGAGAACCCTCCGGCAGCACATCTTACAACAGGTGCTCCAGCTG
AAGGTGCGAGAAGAAGTCAGAAATCTACAGTTACTCACACAAGGTACCTGTTGCTTCCTGATGGGTGGA
TGGATGGGGAGATTAGAAGAAAGACCCTTACTATTAGGACAGACAGGAGTCAGGGAGAATTTGTTATT
GTTTCTTCACAGAATTTCCATCATAGAAAATAGTATACAGATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224467 representing NM_207506
Red=Cloning site Green=Tags(s)

MAVEALHCGLNPRGIDHPAHAEGIKLQIEGEGVESQSIKNKFQKVPDQKGTGPKRLQAEATAKSATVKL
SKPVALWTQDVKWLKKHCPNQYQIYSESFQHDITGRALLRLTDKKLERMGIAQENLRQHILQQVQL
KYREEVRNLQLLTQGTLLLPDGMWDGEIRKTTLLLGQTVRENLLFLHRISIIENSIQI

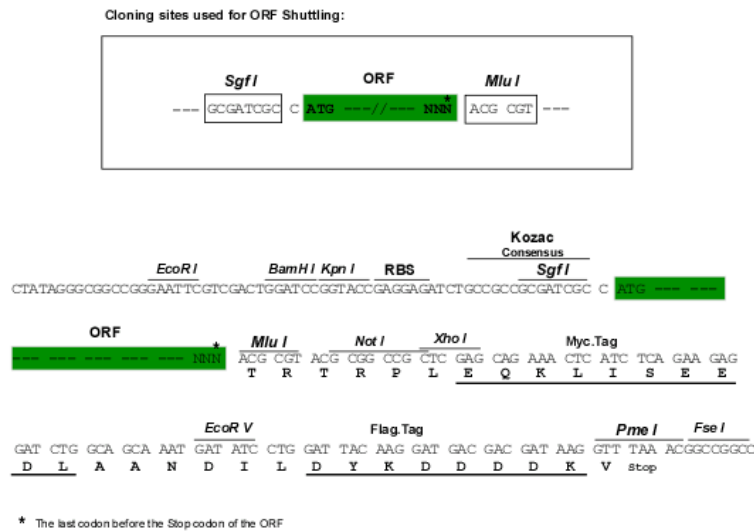
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6267_h11.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_207506

ORF Size: 603 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).

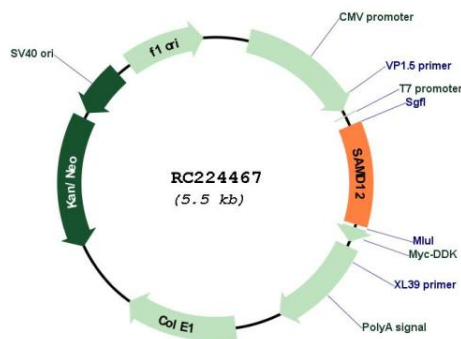
Reconstitution Method:

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.

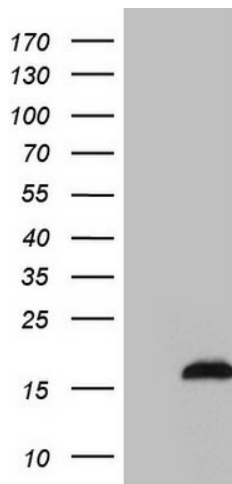
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_207506.3
 RefSeq Size: 2100 bp
 RefSeq ORF: 606 bp
 Locus ID: 401474
 UniProt ID: Q8N8I0
 Cytogenetics: 8q24.11-q24.12
 MW: 22.7 kDa

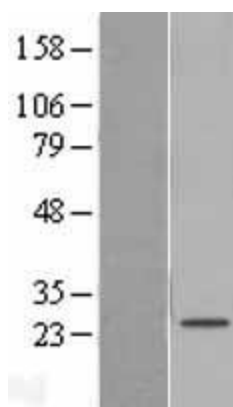
Product images:



Circular map for RC224467



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SAMD12 (Cat# RC224467, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SAMD12 (Cat# [TA809016])(1:2000). Positive lysates [LY404050] (100ug) and [LC404050] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY404050]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224467 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).