

## Product datasheet for RC224341

### STAC3 (NM\_145064) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STAC3 (NM_145064) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STAC3
Synonyms:	MYPBB; NAM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224341 representing NM_145064 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAGAAAAGGAGGTGCTGGAGTCCCCTAAGCCCTCCTCCAGCAGAGACTCGGCAAAGTGGGCTAC  
AGCGGCTAAAGCAGTTACTCAGGAAGGGTTCTACAGGGACAAAGGAGATGGAACCTCCCCAGAGCCCCA  
GGCCAATGGGGAGGCAGTGGGAGCTGGGGTGGGCCATCTACTACATCTATGAGGAAGAGGAAGAGGAA  
GAAGAGGAGGAGGAGGCCACCCCAAGCCTCCTAAGCTGGTCAACGATAAGCCCCACAAATTCAAAG  
ATCACTTCTTCAAGAAGCCAAAGTTCTGTGATGTCTGTGCCCGGATGATTGTTCTCAACAACAAGTTTGG  
GCTTCGCTGTAAGAACTGCAAAACCAACATCCATGAACACTGTCAGTCCTATGTGGAAATGCAGAGATGC  
TTCGGCAAGATCCCACCTGGTTTTCCATCGGGCCTATAGTTCCCCACTCTACAGCAACCAGCAGTACGCTT  
GTGTCAAAGATCTCTCTGCTGCCAATCGCAATGATCCTGTGTTTAAAACCTGCGCACTGGGGTATCAT  
GGCAAACAAGGAACGGAAGAAGGGACAGGCAGATAAGAAAAATCCTGTAGCAGCCATGATGGAGGAGGAG  
CCAGAGTCGGCCAGACCAGAGGAAGGCAAAACCCAGGATGGAAACCTGAAGGGGATAAGAAGGCTGAGA  
AGAAGACACCTGATGACAAGCACAAGCAGCCTGGCTTCCAGCAGTCTCATTACTTTGTGGCTCTCTATCG  
GTTCAAAGCCCTGGAGAAGGACGATCTGGATTTCCCGCCAGGAGAGAAGATCACAGTCATTGATGACTCC  
AATGAAGAATGGTGGCGGGGAAAATCGGGGAGAAGGTCGGATTTTCCCTCAAACCTCATCATTCGGG  
TCCGGGCTGGAGAACGTGTGCACCGCTGACGAGATCCTTCGTGGGAACCGCGAGATAGGGCAGATCAC  
TCTCAAGAAGGACCAGATCGTGGTGCAGAAAGGAGACGAAGCGGGCGGCTACGTCAAGGTCTACCCGGC  
CGCAAGGTGGGCTGTTTCCACCAGCTTCTAGAGGAAATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC224341 representing NM\_145064  
Red=Cloning site Green=Tags(s)

MTEKEVLESPKPSFPAETRQSLQRLKQLLRKGGSTGKEMELPPEPQANGEAVGAGGGPIYYIYEEEEEE  
 EEEEEPPPEPKLVNDKPHKFKDHF FKKPKFC DVCARMIVLNNK FGLRCKNCKTNIHEHCQSYVEMQRC  
 FGKIPPGFHRAYS SPLYSNQYACVKDL SAANRNDPVFETLRTGVIMANKERKKGQADKKNPVAAMMEEE  
 PESARPEEGKPQDGNPEGDKKA EKKT PDDKHKQPGFQQSHYFVALYRFKALEKDDLDFPPGEKITVIDDS  
 NEEWWRGKIGEKVGFPPNF IIRVRAGERVHRVTRSFVGNREIQITLKKDQIVVQKGD EAGGYVKVYTG  
 RKVGLFPTDFLEEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8043\\_h06.zip](https://cdn.origene.com/chromatograms/mk8043_h06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_145064

**ORF Size:** 1092 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\\_145064.3](#)

**RefSeq Size:** 1643 bp

**RefSeq ORF:** 1095 bp

**Locus ID:** 246329

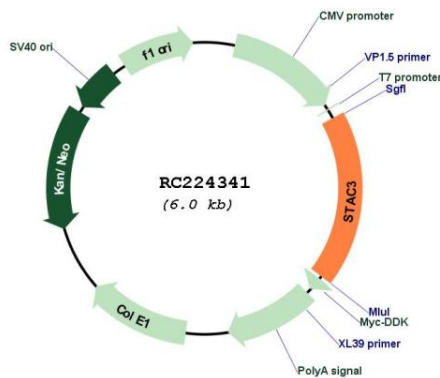
**UniProt ID:** [Q96MF2](#)

**Cytogenetics:** 12q13.3

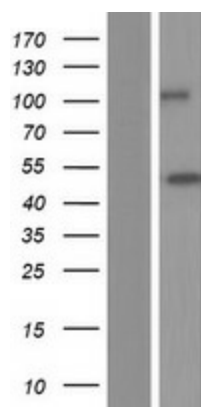
**MW:** 41.3 kDa

**Gene Summary:** The protein encoded by this gene is a component of the excitation-contraction coupling machinery of muscles. This protein is a member of the Stac gene family and contains an N-terminal cysteine-rich domain and two SH3 domains. Mutations in this gene are a cause of Native American myopathy. [provided by RefSeq, Nov 2013]

**Product images:**



Circular map for RC224341



Western blot validation of overexpression lysate (Cat# [LY408052]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224341 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).