

## Product datasheet for **RC205851**

### STAC (NM\_003149) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** STAC (NM\_003149) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** STAC  
**Synonyms:** STAC1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC205851 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATCCCTCCGAGCAGCCCCGCGAGGACGGCGTGGACGGGCTGCCAAGGAGGCGGTGGGCGCCGAGC  
AACCGCCCTCCTCGCATCCACCAGCAGCCAGGAATCCAAGCTCCAGAACTAAAACGATCACTTTCTTT  
CAAGACCAAGAGTTTACGGAGCAAAAGTGTGACAACCTCTCCAGCGAACCAACAGCGAAGACATGAAA  
CTGCAAGCACACATGGTGGCTGAGATCAGCCCCAGCTCCAGCCACTCCCTGCTCCAGGAAGCCTGACGT  
CCACACCCGCGAGGGCTGGTCTGCATCCAGGTGGCAAGGCTCATGCCTTTCATGAATACATCTTCAAGAA  
GCCCACTTTCTGTGATGTCTGCAACCACATGATAGTGGGAACAAATGCTAAGCATGGACTGCGCTGCAAA  
GCCTGTAAGATGAGCATCCACCACAAGTGCACAGATGGCCTGGCACCCAGCGGTGCATGGGCAAGCTGC  
CAAAGGGTTTCGGCGTTACTACAGTCCCCCTTGCTCATTGATGAACAGTTTGGCTGCATTAAGAAGT  
TATGCCATTGCCTGTGGCAATAAGGTGGACCCGTCTACGAGACCCTCCGCTTCGGCACCTCCCTGGCC  
CAGAGGACAAAGAAGGGCAGCTCCGGCAGTGGCTCTGACTCACCTCACAGAACCTTACTTCAGATCTTG  
TGGAGTTCTCTGAGGAAGCCAATGGGCCAGGAGCGGGTATGACCTAAGGAAACGACAGCAACAGCGTGT  
TACATATCCAGAAAATGGCACTGATGATTTTCAGAGATCCAGCGAAGAACATAAACACCAGGGATCTCT  
TCCAAAGACCCATTACAGATGAACACCTATGTTGCCTGTACAAATTTGTACCACAGGAGAATGAAGATT  
TGGAAATGAGGCCAGGAGACATAATTACTCTTTTAGAGGATCCAATGAAGACTGGTGGAAAGGGAAAAAT  
TCAAGACAGAATTGGCTTCTTTCCAGCCAACTTTGTTTCAGAGACTACAACAAAATGAGAAGATTTTGA  
TGTGTTAGAACCTTCATTGGGTGAAGGAACAGGGGCAGATAACACTGAAAGAGAATCAGATCTGCGTGA  
GTTCTGAAGAAGAACAAGATGGTTTTATCAGAGTCTCAGTGGAAAAAGAAAGGCTCATCCCCCTTGA  
TGTAAGAAAACATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC205851 protein sequence  
Red=Cloning site Green=Tags(s)

MIPPPSPREDGVDGLPKEAVGAEQPPSPASTSSQESKLQKLKRSLSFKTKSLRSKADNFFQRTNSED  
 LQAHMVAEISPSSSPLPAPGSLTSTPARAGLHPGGKAHAFHEYIFKKPTFCDCVNHMIVGTNAKHGLRCK  
 ACKMSIHHKCTDGLAPQRCMGKLPKGFRRYSSPLLIEHQFGCIKEMPIACGNKVPVYETLRFGTSLA  
 QRTKKGSSGSGSDSPHRTSTSDLVEVPPEANGPGGGYDLRKRNSVFTYPENGTDDFRDPAKNINHQS  
 SKDPLQMNTYVALYKFVQENEDLEM RPGDIITLLEDSDNEDWWKGIQDRIGFFPANFVQRLQQNEKIFR  
 CVRTFIGCKEQGITLKENQICVSSEEEQDGFIRVLSGKKKGLIPLDVLENI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

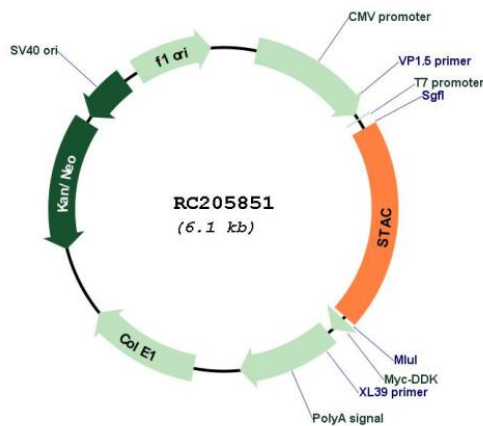
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6176\\_f01.zip](https://cdn.origene.com/chromatograms/mk6176_f01.zip)

**Restriction Sites:** SgfI-MluI

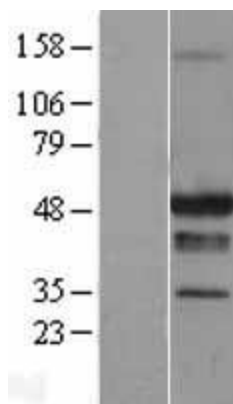
**Cloning Scheme:**



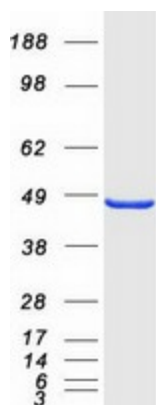
**Plasmid Map:**



<b>ACCN:</b>	NM_003149
<b>ORF Size:</b>	1206 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003149.2</a>
<b>RefSeq Size:</b>	3098 bp
<b>RefSeq ORF:</b>	1209 bp
<b>Locus ID:</b>	6769
<b>UniProt ID:</b>	<a href="#">Q99469</a>
<b>Cytogenetics:</b>	3p22.3-p22.2
<b>Domains:</b>	SH3, DAG_PE-bind
<b>MW:</b>	44.6 kDa
<b>Gene Summary:</b>	Promotes expression of the ion channel CACNA1H at the cell membrane, and thereby contributes to the regulation of channel activity. Plays a minor and redundant role in promoting the expression of calcium channel CACNA1S at the cell membrane, and thereby contributes to increased channel activity. Slows down the inactivation rate of the calcium channel CACNA1C.[UniProtKB/Swiss-Prot Function]

**Product images:**

Western blot validation of overexpression lysate (Cat# [LY401094]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205851 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified STAC protein (Cat# [TP305851]). The protein was produced from HEK293T cells transfected with STAC cDNA clone (Cat# RC205851) using MegaTran 2.0 (Cat# [TT210002]).