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Product datasheet for RG205851

STAC (NM_003149) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STAC (NM_003149) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STAC
Synonyms:	STAC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG205851 representing NM_003149
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATCCCTCCGAGCAGCCCCCGCGAGGACGGCGTGGACGGGCTGCCCAAGGAGGCGGTGGGCGCCGAGC
AACCGCCCTCTCCTGCATCCACCAGCAGCCAGGAATCCAAGCTCCAGAAACTAAAACGATCACTTTCTTT
CAAGACCAAGAGTTTACGGAGCAAAAGTGCTGACAACTTCTTCCAGCGAACCAACAGCGAAGACATGAAA
CTGCAAGCACACATGGTGGCTGAGATCAGCCCCAGCTCCAGCCCACTCCCTGCTCCAGGAAGCCTGACGT
CCACACCCGCCAGGGCTGGTCTGCATCCAGGTGGCAAGGCTCATGCCTTTCATGAATACATCTTCAAGAA
GCCCACTTTCTGTGATGTCTGCAACCACATGATAGTGGGAACAAATGCTAAGCATGGACTGCGCTGCAAA
GCCTGTAAGATGAGCATCCACCACAAGTGCACAGATGGCCTGGCACCCCAGCGGTGCATGGGCAAGCTGC
CAAAGGGGTTTCGGCGTTACTACAGCTCCCCCTTGCTCATTCATGAACAGTTTGGCTGCATTAAAGAAGT
TATGCCCATTGCCTGTGGCAATAAGGTGGACCCTGTCTACGAGACCCTCCGCTTCGGCACCTCCCTGGCC
CAGAGGACAAAGAAGGGCAGCTCCGGCAGTGGCTCTGACTCACCTCACAGAACCTCTACTTCAGATCTTG
TGGAGGTTCCTGAGGAAGCCAATGGGCCAGGAGGCGGGTATGACCTAAGGAAACGCAGCAACAGCGTGTT
TACATATCCAGAAAATGGCACTGATGATTTCAGAGATCCAGCGAAGAACATAAACCACCAGGGATCTCTT
TCCAAAGACCCATTACAGATGAACACCTATGTTGCCTTGTACAAATTTGTACCACAGGAGAATGAAGATT
TGGAAATGAGGCCAGGAGACATAATTACTCTTTTAGAGGATTCCAATGAAGACTGGTGGAAAGGGAAAAT
TCAAGACAGAATTGGCTTCTTTCCAGCCAACTTTGTTCAGAGACTACAACAAAATGAGAAGATTTTTAGA
TGTGTTAGAACCTTCATTGGGTGTAAGGAACAGGGGCAGATAACACTGAAAGAGAATCAGATCTGCGTGA
GTTCTGAAGAAGAACAAGATGGTTTTATCAGAGTCCTCAGTGGAAAAAAGAAAGGCCTCATCCCCCTTGA
TGTACTAGAAAACATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

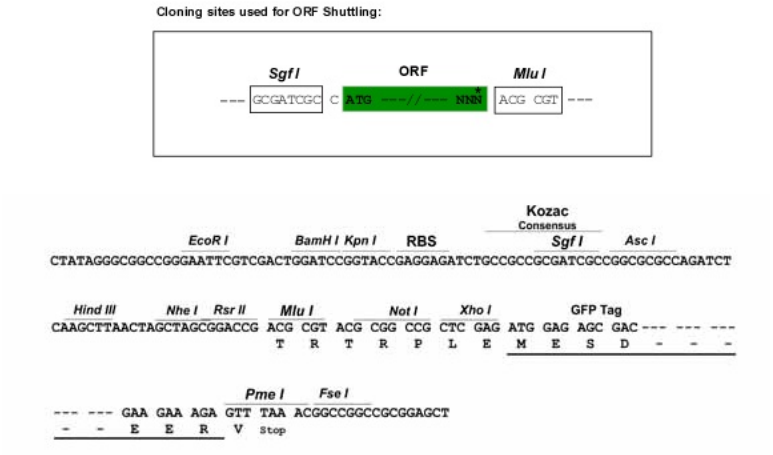
>RG205851 representing NM_003149
Red=Cloning site Green=Tags(s)

MIPPSSPREDGVDGLPKEAVGAEQPPSPASTSSQESKLQKLKRSLSFKTKSLRSKSADNFFQRTNSEDMK
LQAHMVAEISPSSSPLPAPGSLTSTPARAGLHPGGKAHAFHEYIFKKPTFCDVCNHMIVGTNAKHGLRCK
ACKMSIHHKCTDGLAPQRCMGKLPKGFRRYYSSPLLIHEQFGCIKEVMPIACGNKVDPVYETLRFGTSLA
QRTKKGSSGSGSDSPHRTSTSDLVEVPEEANGPGGGYDLRKRSNSVFTYPENGTDDFRDPAKNINHQGSL
SKDPLQMNTYVALYKFVPQENEDLEMRPGDIITLLEDSNEDWWKGKIQDRIGFFPANFVQRLQQNEKIFR
CVRTFIGCKEQGQITLKENQICVSSEEEQDGFIRVLSGKKKGLIPLDVLENI

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003149

ORF Size: 1206 bp

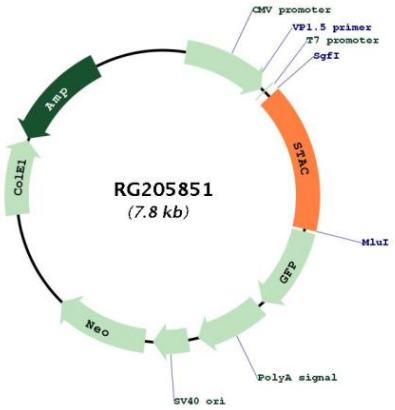
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_003149.1, NP_003140.1
RefSeq Size:	2963 bp
RefSeq ORF:	1209 bp
Locus ID:	6769
UniProt ID:	Q99469
Cytogenetics:	3p22.3-p22.2
Domains:	SH3, DAG_PE-bind
Gene Summary:	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:



Circular map for RG205851