OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR206412

Stac2 (NM_146028) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stac2 (NM_146028) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stac2
Synonyms:	24b2; 24b2/STAC2; AW240854
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206412 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCGAAATGAGCGAGAAGGAGAATGAACCGGATGACGCGGCCACCCATACCCCCCCAGGGACCGTCT
CCACCCTCCAAGAAACCAAGCTCCAGCGATTTAAGCGCTCCCTCTCCCTCAAAACCATCCTTCGAAGTAA
GAGCGTAGAGAACTTCTTCCTCCGCTCGGGCTCTGAGCTCAAGTGCCCAACAGAGGTGCTGCTGACACCG
CCAACCCCACTGCCTCCCCCTTCTCCACCACCTGCATCCACAGACAGGGGTCTACCCACCCCAACACCCT
CCCCGTGCCCAGTCCCTCGCCCCTTGGCACCGCTCAAACCAGTGAGGCTGCACAGTTTCCAGGAACATGT
CTTCAAGAGAGCCAGCCCGTGTGAACTGTGCCACCAGCTCATTGTGGGAAACTCCAAACAGGGCTTGCGA
TGTAAGACTTGCAAAGTCAGCGTTCACCTCTGGTGCTCCGAGGAGATCTCCCACCAGCAATGCCCGGGCA
AGACATCCACATCTTTTCGACGCAACTTCAGCTCCCCACTCCTGGTGCATGAGCCACCACCAGCCTGTGC
CATGAACAAGGAGTCCCCACCTACTGGGACCAGCGGGAAGGTGGACCCAGTTTATGAGACGCTGCGCTAT
GGCACCTCCCTGGCACTGATGAACCGTTCCAGCTTCAGCAGCACATCTGAGTCCCCCACACGGAGCCTGA
GTGAGCGTGACGAGCTAACAGAAGACGGGGAAGGCAGCATCCGCAGCTCAGAAGAGGGGCCTGGGGACAG
TGTATTCACAGCTCCAGCAGAAAGTGAAGGCTCCGGACCAGAGGAGAAGAGCCCTGGACAGCAGCCCCCA
AAGCTGCCCCTGCGGAAGGACGTGGGGCCCATGTACTCCTACGTCGCCCTCTACAAGTTCCTGCCTCAGG
AGAACAATGACCTGGCTCTGCAGCCTGGAGATCGGATCATGCTGGTGGATGACTCTAACGAAGACTGGTG
GAAGGGCAAGATTGGCGACCGAGTTGGCTTCTTCCCAGCCAATTTCGTGCAGCGGGTGAGGCCAGGAGAG
AATGTTTGGCGATGCTGTCAGCCTTTCTCTGGAAACAAGGAGCAGGGTTACATGAGCCTCAAGGAGAACC
AGATCTGCGTAGGCGTGAGCAGAAGCAAGGATAGCGATGGCTTCATCCGCGTCAGCAGTGGCAAGAAGCG
GGGTTTGGTGCCAGCCGACTCCTTGGCAGAGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

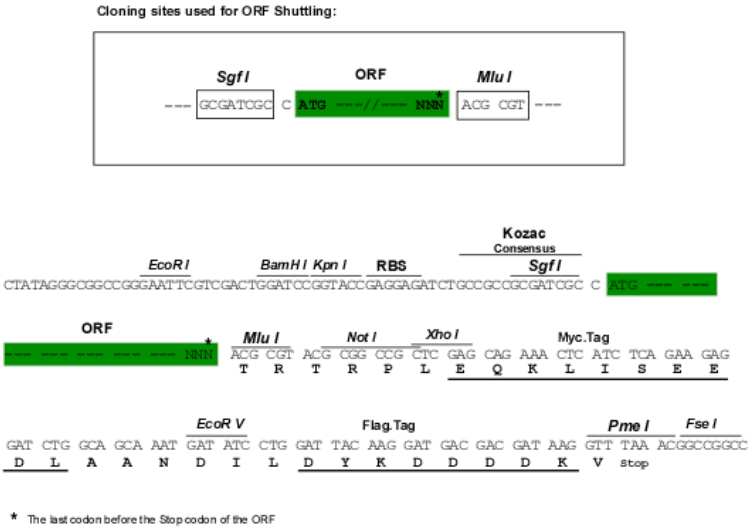
>MR206412 protein sequence
Red=Cloning site Green=Tags(s)

MTEMSEKENEPDDAATHTPPGTVSTLQETKLQRFKRSLSLKTILRSKSVENFFLRSGSELKCPTEVLLTP
PTPLPPPSPPPASTDRGLPTPTPSPCPVPRPLAPLKPVRLHSFQEHVFKRASPCELCHQLIVGNSKQGLR
CKTCKVSVHLWCSEEISHQQCPGKTSTSFRRNFSSPLLVHEPPPACAMNKESPPTGTSGKVDPVYETLRY
GTSLALMNRSSFSSTSESPTRSLSERDELTEDGEGSIRSSEEGPGDSVFTAPAESEGSGPEEKSPGQQPP
KLPLRKDVGPMYSYVALYKFLPQENNDLALQPGDRIMLVDDSNEDWWKGKIGDRVGFFPANFVQRVRPGE
NVWRCCQPFSGNKEQGYMSLKENQICVGVSRSKDSDGFIRVSSGKKRGLVPADSLAEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_146028

ORF Size: 1227 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_146028.1, NM_146028.2, NM_146028.3, NM_146028.4, NP_666140.1

RefSeq Size: 3049 bp

RefSeq ORF: 1227 bp

Locus ID: 217154

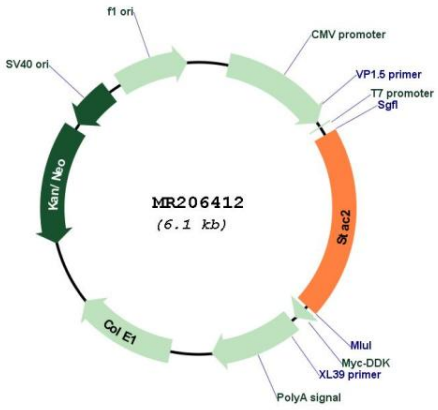
UniProt ID: Q8R1B0

Cytogenetics: 11 D

MW: 44.9 kDa

Gene Summary: Plays a redundant role in promoting the expression of calcium channel CACNA1S at the cell membrane, and thereby contributes to increased channel activity (PubMed:29467163). Slows down the inactivation rate of the calcium channel CACNA1C (PubMed:25548159, PubMed:29363593).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206412