

Product datasheet for **MG206412**

Stac2 (NM_146028) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stac2 (NM_146028) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stac2
Synonyms:	24b2; 24b2/STAC2; AW240854
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206412 representing NM_146028 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCGAAATGAGCGAGAAGGAGAATGAACCGGATGACGCGGCCACCCATACCCCCCAGGGACCGTCT
CCACCCTCAAGAAACCAAGCTCCAGCGATTTAAGCGCTCCCTCCCTCAAACCATCCTTCGAAGTAA
GAGCGTAGAGAACTTCTCCTCCGCTCGGGCTCTGAGCTCAAGTGCCCAACAGAGGTGCTGCTGACACCG
CCAACCCCACTGCCTCCCCCTTCCACCACCTGCATCCACAGACAGGGGTCTACCCACCCCAACACCT
CCCCGTGCCAGTCCCTCGCCCCTTGGCACCGCTCAAACCAAGTGAGGCTGCACAGTTTCCAGGAACATGT
CTCAAGAGAGCCAGCCGTGTGAAGTGTGCCACCAAGCTCATTGTGGAACTCCAACAGGGCTTGCGA
TGTAAGACTTGCAAAGTCAGCGTTCACCTCTGGTCTCCGAGGAGATCTCCACCAAGCAATGCCCGGCA
AGACATCCACATCTTTTCGACGCAACTTCAGCTCCCCACTCCTGGTGCATGAGCCACCACCAAGCTGTGC
CATGAACAAGGAGTCCCCACTACTGGGACCAGCGGGAAGGTGGACCCAGTTTATGAGACGCTGCGCTAT
GGCACCTCCCTGGCACTGATGAACCGTTCAGCTTCAGCAGCACATCTGAGTCCCCACACGAGGCTGA
GTGAGCGTGACGAGCTAACAGAAGACGGGAAGGCAGCATCCGCAGCTCAGAAGAGGGGCTGGGACAG
TGATTTACAGCTCCAGCAGAAAGTGAAGGCTCCGACCAGAGGAGAAGAGCCCTGGACAGCAGCCCCCA
AAGCTGCCCTGCGGAAGGACGTGGGCCCCTACTCCTACGTCGCCCTTACAAGTTCTGCCTCAGG
AGAACAATGACCTGGCTCTGCAGCTGGAGATCGGATCATGCTGGTGGATGACTTAACGAAGACTGGTG
GAAGGGCAAGATTGGCGACCGAGTTGGCTTCTCCAGCAATTTCTGTCAGCGGTGAGGCCAGGAGAG
AATGTTTGGCGATGCTGTGAGCCTTTCTCTGAAACAAGGAGCAGGGTTACATGAGCCTCAAGGAGAACC
AGATCTGCGTAGGCGTGAGCAGAAGCAAGGATAGCGATGGCTTCCCGCTCAGCAGTGGAAGAAGCG
GGGTTTGGTGCCAGCCGACTCCTGGCAGAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206412 representing NM_146028
 Red=Cloning site Green=Tags(s)

MTEMSEKENEPDDAATHTPPGTVSTLQETKLQRFKRSLSLKTILRSKSVENFFLRSGSELKCPTEVLLTP
 PTPLPPSPPPASTDRGLPTPTSPCPVPRPLAPLKPVRLHSFQEHVFKRASPCELCHQLIVGNSKQGLR
 CKTCKVSVHLWCSEEIISHQQCPGKTSTSFRRNFSPLL VHEPPPACAMNKE SPPTGTSGKVDPVYETLRY
 GTSLALMNRSSFSTSESPTRSLSERDEL TEDGEGSIRSSEEGPGDSVFTAPA ESEGSGPEEKSPGQPP
 KLPLRKDVGPMSYVALYKFLPQENNDLALQPGDRIMLVDDSNEDWKKIGDRVGFPPANFVQVRVPRGE
 NVWRCCQPFSGNKEQGYMSLKENQICVGVSRSKSDSGFIRVSSGKKRGLVPADSLAEI

TRTRPLE - GFP Tag - V

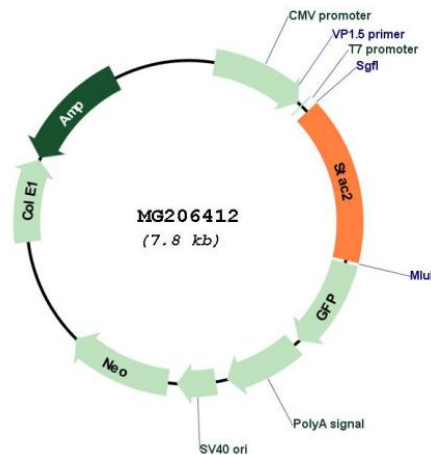
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_146028

ORF Size:	1224 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:	<ol style="list-style-type: none">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_146028.2 , NP_666140.1
RefSeq Size:	3051 bp
RefSeq ORF:	1227 bp
Locus ID:	217154
UniProt ID:	Q8R1B0
Cytogenetics:	11 D
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]