

Product datasheet for **MG222963**

Cacna1s (NM_001081023) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna1s (NM_001081023) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cacna1s
Synonyms:	AW493108; Cav1.1; Cchl1a3; fmd; mdg; sj
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222963 representing NM_001081023 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGCCCTCACCCAGGACGAGGGCCTGAGGAAGAAGCAGCCGAAGAAACCTGTTCTGAGATTC
TGCCGAGGCCCGCGGGCCTTGTCTGCCTGACTCTACAGAACCCCTGAGGAAGGCCTGCATCAGCAT
CGTGGAATGAAACCCCTCGAGACCATCATCTTGCTCACCATCTTGCCAACTGTGTGGCCCTGGCAGTG
TACCTGCCATGCCAGAGGATGACAACAACACTCTGAACCTCGGCCTGGAGAACTGGAGTACTTCTTCC
TCATTGTCTTCTCCATTGAAGCCGCCATGAAGATCATAGCCTACGGCTTCTTATCCATCAGGATGCATA
CCTGCGCAGTGGCTGGAACGTTCTGGACTTCATCATTGTCTTTCTGGGGTCTTCACTGTGATTCTGGAA
CAAGTTAACATCATTCAAACCAACACGGCCCCATGAGCAGCAAAGGAGCCGGCTTGATGTGAAGGCC
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TACTTCATGTCCATCTTCAACCGCTTCGACTGCTTCGTGGTGTGCAGCGGCATCCTGGAGATCCTGCTGG
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 AGCACGTTCCAGGAATTCGGCTCACAGGTGCACGGCTCCAGCTACTGCCATGCTGATCCAGGAGGCTCT
 GGTTCCAGGAGGACTAGACTCCTTAGCAGCAGATGCTAACTTCGTCATGGCAACAGGCCAGGCCCTGGCA
 GATGCCTGCCAGATGGAACCAGAGGAAGTCGAGGTGCCAGCAACAGAGCTACTGAAGCAAGAATCCCCAG
 AGGGCGGGGCCGTGCCCTGGGAGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222963 representing NM_001081023
 Red=Cloning site Green=Tags(s)

MEPPSPQDEGLRKKQPKKPVPEILPRPPRALFCLTLQNPLRKACISIVWKPFETIILLTIFANCVALAV
 YLPMPEDDNNTLNLGLEKLEYFFLIVFSIEAAMKIIAYGFLFHQDAYLRSGWNVLDIIVFLGVFTVILE
 QVNI IQTNTAPMSSKAGLDVKALRAFVRVLRPLRLVSGVPSLQVVLNSIFKAMPLPFHIALLVLFMVIY
 AIIGLELFGKMKHKTCYFIGTDIVATVENEKSPCARTGSGRPCTINGSECRGGWPGPNHGITHFDNFGF
 SMLTVYQCISMEGWDVLYWVND AIGNEWPWIYFVTLILLGSFFILNLVLGVLSGEFTKEREKAKSRGTF
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 ACSYGKLCDPESDYAPGEEHTCGTNFAYYYFISFYMLCAFLIINL FVAVIMDNFDYLTRDWSILGPHHLD
 EFKAIWAEYDPEAKGRIKHLDVVTLRRIQPPLFGKFCPHRVACKRLVGMNPLNSDGTVTFNATL FAL
 VRTALKIKTEGNFEQANEELRAI IKKIWKRTSMKLLDQVIPPIGDDEVTGKFYATFLIQEHFRKFMKRQ
 EEEYGYRPPKDTVQIQAGLRTIEEEAAPEIHRAISGDLTAEELERAMVEAAMEEGIFRRTGGLFGQVDN
 FLERTNSLPPVMANQRPLQFAEIEEMEELESPVFLDFPQNP GTHPLARANTNNANANVAYGNSSHRNNPV
 FSSICYEREFLEADMPVTREGPLSQPCRASGPHSRSHVDKLRPMTQRGMPEGQVPPSPCQVTGAKAEH
 PVQKEGKPTSRFLETPNSRNFEEHVPRNSAHRCTAPATAMLIQEALVRGGLDSL AADANFVMATGQALA
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TRTRPLE - GFP Tag - V

Restriction Sites:

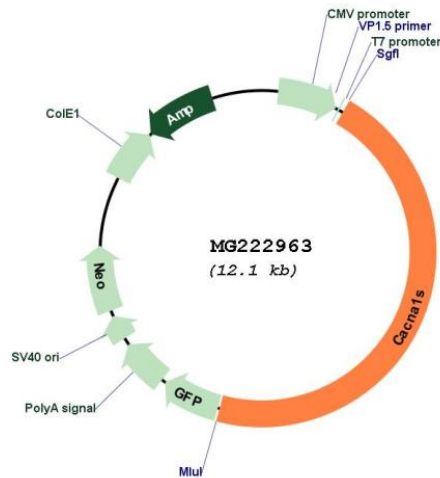
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001081023
 ORF Size: 5556 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_001081023.2
RefSeq Size:	6251 bp
RefSeq ORF:	5559 bp
Locus ID:	12292
Cytogenetics:	1 59.55 cM