

Product datasheet for **MG223026**

Cacna1s (NM_014193) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cacna1s (NM_014193) 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: >MG223026 representing NM_014193
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGCCCTCACCCAGGACGAGGGCCTGAGGAAGAAGCAGCCGAAGAAACCTGTTCTGAGATTC
TGCCGAGGCCCGCGGGCCTTGTCTGCCTGACTCTACAGAACCCCTGAGGAAGGCCTGCATCAGCAT
CGTGGAATGAAACCCCTCGAGACCATCATCTTGCTCACCATCTTGCCAACTGTGTGGCCCTGGCAGTG
TACCTGCCATGCCAGAGGATGACAACAACACTCTGAACCTCGGCCTGGAGAACTGGAGTACTTCTTCC
TCATTGTCTTCCATTGAAGCCGCCATGAAGATCATAGCCTACGGCTTCTTATCCATCAGGATGCATA
CCTGCGCAGTGGCTGGAACGTTCTGGACTTCATCATTGTCTTTCTGGGGTCTTCACTGTGATTCTGGAA
CAAGTTAACATCATTCAAACCAACACGGCCCCATGAGCAGCAAAGGAGCCGGCTTGATGTGAAGGCC
TTTCGAGCATTCCGCGTGTCTCAGACCCCTGCGGCTGGTGTCTGGGGGTGCCAGTCTTCAGGTGGTCTCAA
CTCCATCTTCAAGGCCATGCTCCCCCTGTTCCACATTGCCCTGCTCGTCTTTCATGGTCATCATCTAC
GCCATCATTGGGCTGGAGCTCTTCAAAGGCAAGATGCACAAGACTTGCTACTTCAATGGGACAGACATTG
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TCTATGCTCACTGTGTATCAATGCATCTCCATGGAGGGTGGACTGATGTCTGACTGGGCAACGATG
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AGGTGATGGACGTGGACGACTTGAGAGAAGGCAAGCTGTCTTTGGATGAAGGGGATCAGACACAGAGAG
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TACTTCATGTCCATCTTCAACCGCTTCGACTGCTTCGTGGTGTGCAGCGGCATCCTGGAGATCCTGCTGG
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 CCTGGCAGATGCCTGCCAGATGGAACAGAGGAAGTCGAGGTGCCAGCAACAGAGCTACTGAAGCAAGAA
 TCCCCAGAGGGCGGGCCGTGCCTGGGAGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223026 representing NM_014193
 Red=Cloning site Green=Tags(s)

MEPPSPQDEGLRKKQPKKPVPEILPRPPRALFCLTLQNPLRKACISIVWKPFFETIILLTIFANCVALAV
 YLPMPEDDNNTLNLGLEKLEYFFLIVFSIEAAMKIIAYGFLFHQDAYLRSGWNVLDFFIIVFLGVFTVILE
 QVNI IQNTAPMSSKGAGLDVKALRAFVRVLRPLRLVSGVPSLQVVLNSIFKAMLPLFHIALLLVLFMVIIY
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 SMLTVYQCISMEGWDVLYWVNDIAGNEWPIYFVTLILLGSFFILNLVLGVLSGEFTKEREKAKSRGTF
 QKLREKQQLLEEDLRGYMSWITQGEVMDVDDLREGKLSLEGGSDTESL YEIEGLNKIIQFIRHWRQWNRV
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 SLLLLLFLFIIIFALLGMQLFGGRYDFEDTEVRRSNFDFNPQALISVFQVLTGEDWNSVMYNGIMAYGGP
 TYPGVLVCIYFIIILFVCGNYILLNVFLAIAVDNLAEAESL TSAQKAKAEERKRRKMSKGLPDKSEERAT
 VTKKLEQKSKGEGIPTTAKLKIDEFESNVNEVKDPYPSADFPGDDEEPEIIPVSPRPRPLAELQLKEKA
 VPIPEASSFFIFSPNTKIRVLRCHIRVNATWFTNFILLFILLSSAALAAEDPIRADSMRNQILEYFDYVFT
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 TQIELRPRQWIHNDHFHFNVL SAMMSLFTVSTFEGWPQLLYKAIDSNEEDTGPVYNNRVEMAIFFIIYII
 LIAFFMMNIFVGFVIVTFQEQGETEYKNCELDKNQRQCQYALKARPLRCYIPKNPYQYQVWYVVTSSYF
 EYLMFALIMLNTICLGMQHYNQSEQMNHISDILNVAFTIIFTLEMV LKLI AFKPRGYFGDPWNVDFLIV
 IGSIIDVILSEIDDPDESARISSAFFRFLFRVMRLVKLLNRAEGVRTLLWTFIKSFQALPYVALLIVMLFF
 IYAVIGMQMFGKIAMVDGTQINRNNNFQTFPQAVLLLFRCATGEAWQEILLACSYGKLCDPESDYAPGEE
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 LDVVTLRLRIQPPLGFGKFCPHRVACKRLVGMNPLNSDGTVTFNATL FALVRTALKIKTEGNFEQANEE
 LRAIIKKIWKRTSMKLLDQVIPP IGDDEVTVGKFYATFLIQEHFRKFMKRQEEYGYRPPKDTVQIQAGL
 RTIEEEAAPEIHR AISGDLTAEELERAMVEAAMEEGIFRRTGGLFGQVDNFLERTNSLPPVMANQRPLQ
 FAEIEMEELSPVFLDFPQNP GTHPLARANTNNANANVAYGNSSHRNPNV FSSICYEREFLGEADMPVT
 REGPLSQPCRASGPHSRSHVDKLRPMTQRGMPEGQVPPSPCQLSQA EHPVQKEGK GPTSRLFETPN SRN
 FEEHVPRNSAHRCTAPATAMLIQEALVRGGLDSLAA DANFVMATGQALADACQMEPEEVEVAATELLKQE
 SPEGGAVPWEF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_014193.3
RefSeq Size:	6188 bp
RefSeq ORF:	5496 bp
Locus ID:	12292
Cytogenetics:	1 59.55 cM