

## Product datasheet for **MG222850**

### Cacna1f (NM\_019582) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna1f (NM_019582) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cacna1f
Synonyms:	A930034B14; Cav1.4; nerg1; nob2; Sfc17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222850 representing NM_019582 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGGAATCTGAAGTCGGGAAAGATACAACCCAGAGCCAGTCCAGCCAATGGGACTGGCCCTGGCC  
CTGAATGGGGCTCTGTCTGGGCTCCAAGTGTGGGACTGATACCAGCGGGCGTCAGGCCTGGGGAC  
CCCAAGAAGAAGGACCCAGCACAACAACAAGACTGTGGCGGTGGCCAGTGTCTCAGAGATCACCTCGA  
GCGCTCTTCTGCCTCACCTTACTAATCCCATTCGTCGGTCTGCATCAGCATTGTAGAGTGAAGCCTT  
TTGATATTCTCATCCTCCTGACAATCTTGGCAACTGCGTGGCATTGGGGGTATATATCCCCTTCCCTGA  
GGACGACTCCAACACTGCTAACCACAACCTTGGAAACAGGTAGAATACGTGTTCTGGTGATTTTCACCGTG  
GAGACAGTGTCAAGATCGTAGCCTATGGGCTGGTGTCCATCCCAGCGCCTATATTCGCAATGGCTGGA  
ACCTGCTCGACTTCATCATCGTCGTGGTGGGCTGTTTCAGCGTGTGCTGGAACAAGGACCTGGCGGCC  
AGGAGATGCCCGCATACTGGAGGAAAGCCAGGAGGCTTCGATGTAAAGGCACTGCGGGCATTAGGGTG  
CTACGACCTCTAAGGCTAGTGTCTGGGGTCCGAGTCTGCACATAGTGTCAATTCATCATGAAGGCGC  
TTGTGCCGCTGCTGCACATTGCCCTGTTGGTGTCTTTCGTCATTATCATTACGCCATCATCGGACTCGA  
GCTATTCCTCGGACGAATGCACAAGACATGCTACTTCTGGGATCTGATATGGAAGCAGAGGAGGCCA  
TCACCTTGTGCATCTTCTGGCTCTGGGCTTCATGCACACTGAACCATACCGAGTGCCGCGGGCGCTGGC  
CAGGACCCAACGGTGGCATCACGAACTTCGACAATTTTTCTTTGCCATGCTAAGTGTGTTCCAGTGTAT  
TACCATGGAAGGCTGGACAGACGCTCCTCTACTGGATGCAGGATGCCATGGGGTATGAGCTGCCTTGGGTG  
TACTTTGTGAGCCTTGTATCTTTGGTCTTCTTTGTCCTAACCTTGTGCTTGGAGTCTAAGCGGGG  
AGTTCTCCAAGGAAAGAGAAAAGGCAAAAGCACGAGGTGACTTTCAGAAGCTTCGGGAGAAGCAGCAGAT  
GGAAGAAGACCTTCGGGCTACCTGGACTGGATCACACAGGCTGAGGAGTTAGACCTTCATGACCCCTCA  
GTAGACGGCAACTTGGCTTCTTGTGCTGAAGAGGGACGGCGGGCCATCGGCCACAAGTGCAGAGCTGA  
CCAATAGGAGGCGGGACGGCTGCGATGGTTCAGCCACTTACTCGCTCCACACTCCACCAGCAGCCA  
CGCCAGCTCCAGCCAGTGACTGGCTCCATGACAGACACCCCTGGAGATGAGGATGAAGAAGAGGGG



[View online »](#)



ATGATGATGGGCTGGCTCCCAACTCCAGGCAGCCAGTGTGATACAGGCTGGCTCCCAACCACACAGGAG  
 AAGCTCTGGGGTTTTTCATGTTCACTATCCCGGAAGAAGGAAGTATTCAGCTCAAGGGAATCAAGGGCAG  
 GACAATCAGAATGAGGAACAGGAAGTCCCTGACTGGACTCCTGACCTGGATGAGCAGGCCGGGACTCCTT  
 CGAACCCAGTCCTTTTACCACCTCACTGGTCCCAGCAACACGTAACGGGCACCATGTGCCACGCCGACG  
 TTTGCTGCCCCCAGCCTGCAGGTCGGAAGCCCTCCTCACCATCCAGTGTCTGCAACGCCAGGGCAGT  
 TGTGAAGATTTACTATCCCAGGCACCTACCATCGTGGACGGACCTCAGGACCAAGCAGGGCTCAGGGTT  
 CCTGGGCAGCCCTCCTCAGAAGGGTCGACTGCTATATGCCCCCTGTTGTTGGTGGAGGAATCTACAGT  
 GGGTGAAGGATACCTTGGCAAACCTTGGCGGCCACTGCGTACCTTACCTGTCTGCAAGTGCCTGGAGCT  
 CATCCGAATCCCAGCCACCGCAAGAGGGCAGTGTGACAGTTTGGTGGAGGCTGTGCTCATCTCCGAAG  
 GCCTAGGTCTCTTTGCCAAGACCCACGATTTGTGCCCTGGCCAAGCAGGAGATTGCAGATGCATGTCA  
 CCTGACCTGGATGAGATGGACAGTGTGCCAGTACCTGCTGGCACAGAGAACCACCTCCCTTTACAGT  
 GATGAGGAGTCTATTCTTTCCGCTTTGATGAAGAGGACCTGGGAGATGAGATGGCCTGTGTCCATGCC  
 TC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG222850 representing NM\_019582  
 Red=Cloning site Green=Tags(s)

MSESEVGKDTTPEPSPANGTGPPEWGLCPGPPTVGTDTSGASGLTPRRRTQHMKHTVAVASQRSPR  
 ALFCLTLNPIRRSCISIVEWKPFDILILLTIFANCVALGVYIPFPEDDSNTANHNLEQVEYVFLVIFTV  
 ETVLKIVAYGLVLHPSAYIRNGWNLDFIIVVGLFVLLLEQGPGRPGDAPHTGGKPGGFDVKALRAFRV  
 LRPLRLVSGVPSLHIVLNSIMKALVPLLHIALLVLFVYIIYAIIGLELFLGRMHKTCYFLGSDMEAEEDP  
 SPCASSGSGRSCTLNHTECRGRWPNGGITNFDNFFFAMLTVFQCIIMEGWTDVLYWMQDAMGYELPWV  
 YFVSLVIFGSFFVLNLVLGVLSEFSGEREKAKARGDFQKLRKQMEEDLRGYLDWITQAEELDLHDP  
 VDNLASLAEGRAGHRPQLSEL TNRRRGRRLRWF SHSTRSTHSTSSHASLPASDTGSMTDTPGDEDEEEG  
 TMACTRCLNKIMKTRICRHRFRANRGLRARCRAVKSNAKYAVLFLVFLNTLTIASEHHGQPLWLTQT  
 QEYANKVLLCLFTVEMLLKLYGLGPSVYVASFNRFDVVCVGGILETTLVEVGAMQPLGISVLRVRL  
 RIFKVRHWASLNLVALLNSMKSIASLLLLLFLFIIIFSLGMQLFGGKFNFDQHTKRSTFDTFPQA  
 LLTVFQILTGEDWNVVMDGIMAYGGPFFPGMLVCVYFIIIFICGNYILLNVFLAIVDNLASGDAGTAK  
 DKGREKSEGNPPKENKLVLPGENEDAKGARSEGAAPGMEEEEEEEEEEEEEENGAGHVLLQEVV  
 PKEKVVPPEGSFAFFCLSQTNPLRKACHTLIHHHIFTSLILVFIILSSVSLAAEDPIRAHSFRNHILGYF  
 DYAFSTIFTVEILLKMTVFGAFLHRGSFCRSWFNLLDLLVVSLSISFGIHSSAISVVKILRVLRLRPL  
 RAINRAKGLKHVVQCVFAIRTIGNIMIVTLLQFMFACIGVQLFKGKFSCTDEAKHTLKECKGSFLIY  
 PDGDVSRPLVRERLWVNSDFNFDNVL SAMMALFTVSTFEGWPALLYKAIDANAEDGPIYNYHVEISVFF  
 IVYIIIIAFFMMNIFVGFVIITFRAQGEQEYQNCELDKNQRQCVEYALKAQPLRRYIPKNPHQYRVWATV  
 NSAAFEYLMFLILLNTVALAMQHYEQTAPFNAMDILNMVFTGLFTIEMVLKIIAFKPKHYFADAWNTF  
 DALIVVGSVVDIAVTEVNNGGHLGESSEDSRISITFFRLFRVMRLVKLLSKGEGIRTLWTFIKSFQAL  
 PYVALLIAMIFFIYAVIGMQMFKVALQDGTQINRNNNFQTFPQAVLLLFRCATGEAWQEI MLASLPGNR  
 CDPESEDFGPGEEFTCGSSFAIVYFISFFMLCAFLIINL FVAVIMDNFDYLTRDWSILGPHHLDEFKRIWS  
 EYDPGAKGRIKHLDVVALLRRIQPPLGFGKLCPHRVACKRLVAMNVPLNSDGTVTFNATLFAVVRTSLKI  
 KTEGNLDQANQELRMVIKKIWKRIKQLLDEVIPPPDEEEVTVGKFYATFLIQDYFRKFRRRKEKGLGR  
 EAPTSTSSALQAGLRSQDLGPEIRQALTYDTEEEEEEEAVGQEAEEEEAENNPYKDSIDSQPQSRW  
 NSRISVSLPVKEKLPDSLSTGPSDDGLAPNSRQPSVIQAGSQPHRRSSGVFMFTIPEEGSIQLKGTQGG  
 DNQNEEQEVPDWPDLDEQAGTPSNPVLLPPHWSQQHVNGHHVPRRLLPPTPAGRKPSFTIQCLRQGS  
 CEDLPIPGTYHRGRTSGPSRAQGSWAAPPQGRLLYAPLLLVEESTVGEVGLGKLGGLRFTFTCLQVPGA  
 HPNPSHRKRGSDSLVEAVLISEGLGLFAQDPRFVALAKQEIADACHLTLEMDSAASDLLAQRRTSLYS  
 DEESILSRFDEEDLGDEMACVHAL

TRTRPLE - GFP Tag - V

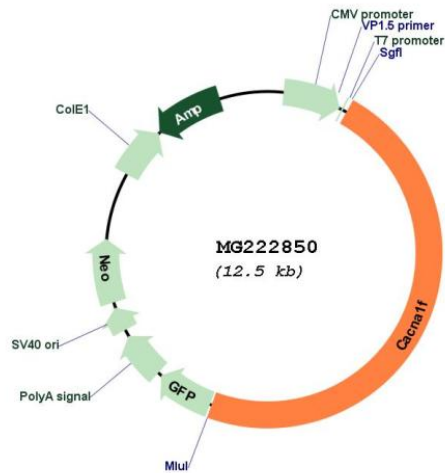
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_019582

ORF Size: 5952 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_019582.2, NP_062528.2</u>
<b>RefSeq Size:</b>	6075 bp
<b>RefSeq ORF:</b>	5955 bp
<b>Locus ID:</b>	54652
<b>Cytogenetics:</b>	X 3.42 cM