

Product datasheet for **MG219862**

Cacng6 (NM_133183) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacng6 (NM_133183) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cacng6
Synonyms:	2310033H20Rik; AW050150
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219862 representing NM_133183 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGTGGTCTAACTTCTTCATGCAAGAGGAAGACCGACCGGACAGCTGTGGCCGGCGTCGTGCC
AAGAACAGCAGAATCTCGGCTTGACTCCGGAGCGAGAGGGCAAGATCAAGCTGGGTTGCTGGTGGCAAT
CGTGGGTGCTACGCTGGCTGTGCTGGCTGTGGCACCAGATTCTGGGTGGAACCAATACATAACAAGACC
AATGGCAGCGCCGTCTGTGAGGCCGCCATTTGGGGCTGTGGAAGGTGTGCATCAAGCGACTGTGGCAGG
CGGATGTGCCCGGGCAGGGAGACCTGTGGCCAGCTGAGCTGCCAGGAGAAGCAAACCTGCACCTACTT
CAAATTCTTACCACGGGGGAAAATGCGCGCATCTCCAGCGAACCACCAAGAAAGAGGTAACCTGGCA
GCTGCCGTGATAGCTGTGCTGGGCTGACGGCCATGGCCTTGGGCTGCCTCTGTGTCATCATGGTGTCTA
GTAAGGTGCAGAGTCCCTGCTCCGATTGGGAGCTGTCTGCTTTGGCCTCTCAGGCCTGTGCTCTTTGT
CAGCCTGGAGGTGTTCCGGCATTCCGTAGGAGCCCTGCTGCAGGGAGTCAACCCTGAGACCCCTCCAGCT
CCACGCCTGGCCTATGAGTATTCCTGGTCTTAGGCTGTGGTGTAGGCGCTGGTCTAATCCTGCTGCTGG
GGGAGTCTGTTCTCCTGCTCACCTTGCCCTTCTGGCCCTGGAGGTCACTGTGCCCAAGTGGGGTGG
CCCAACCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219862 representing NM_133183
 Red=Cloning site Green=Tags(s)

MMWSNFFMQEEDRRRTAVGRRRAQEQQNLGLTPEREGKIKLGLLVAIVGATLAVLAVGTEFWVELNTYKT
 NGSAVCEAAHLGLWKVCIKRLWQADVPAGRETCGPAELPGEANCTYFKFFTTGENARIFQRTTKKEVNLA
 AAVIAVLGLTAMALGCLCVIMVLSKGAESLLRLGAVCFGLSGLLLFVSLEVFRHSV GALLQGVNPETPPA
 PRLAYEYSWSLGGVGVAGLILLGGVCFLLLTLPSPWRSLCPKWGGPTA

TRTRPLE - GFP Tag - V

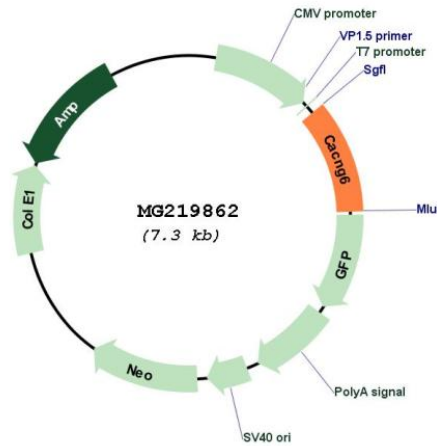
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_133183

ORF Size: 780 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_133183.1 , NP_573446.1
RefSeq Size:	783 bp
RefSeq ORF:	783 bp
Locus ID:	54378
UniProt ID:	Q8VHW3
Cytogenetics:	7 2.0 cM
Gene Summary:	Regulates the activity of L-type calcium channels that contain CACNA1C as pore-forming subunit.[UniProtKB/Swiss-Prot Function]