

Product datasheet for **MG218185**

Cacng3 (NM_019430) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacng3 (NM_019430) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cacng3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218185 representing NM_019430 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGATGTGTGACAGAGGTATCCAGATGTTGATCACTACTGTAGGAGCCTTCGCAGCTTTTAGTTTAA
TGACCATTGCAGTGGGCACGGACTACTGGCTATATTCCAGAGGTGTGTCAGGACTAAATCTACAAGTGA
CAATGAAACCAGCAGGAAGAATGAAGAAGTAATGACCCACTCCGGTTGTGGAGGACCTGCTGCTTGGAA
GGAGCTTCCGAGGCGTGTGCAAGAAAAATCGATCACTCCAGAGATGCAGACTATGAACAGGATACAG
CAGAATATCTTCTACGAGCTGTGAGGGCTCCAGCGTCTTCCCATCCTCAGCGTCACTCTGCTGTTTTT
CGGGGACTCTGCGTGGCTGCCAGCGAGTTCACCGCAGCAGGCACAGTGTGATCCTCAGCGCTGGCATC
TTCTTCGTCTCTGCAGGGCTAAGCAACATCATCGGCATCATAGTTTATATCTCAGCCAATGCTGGAGACC
CTGGGCAGAGGACTCTAAAAAGAGCTACTCCTACGGCTGGTCTTTTATTTGGAGCCTTCTTTTCAT
CATCGCGGAAATTGTGGGCGTGGTCGCCGTGCACATCTATATTGAGAAGCATCAGCAGTTGCGTGCCAGA
TCCATTCCAGAGCTCCTGAAGAAGTCTACATTTGCGCGCCTGCCGCCCTACAGGTATAGATTCCGAAGAC
GGTCAAGTTCTGCTCCACTGAACCCAGATCTCGAGACCTTCTCCCATCAGCAAAGGCTCCACACCAT
CCCTTCCACCGACATCTCATGTTACCCTCTCCCGGACCCCTAAGCTTACCATGGGACCCCTTCTC
AACTCTGACCGGGACCATGCTTTTCTACAGTTCACAACCTCCACACCCAAAGAGTTCAAAGAGTCATTGC
ATAACAATCCGGCCAACAGACGTACCACGCCTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218185 representing NM_019430
 Red=Cloning site Green=Tags(s)

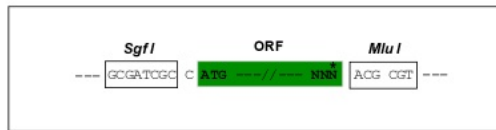
MRMCDRGIQMLITTVGAFAAFSLMTIAVGTDYWLYSRGVCRTKSTSDNETSRKNEEVMTHSGLWRTCCLE
 GAFRGVCKKIDHFPEDADYEQDTAEYLLRAVRASSVFPILSVTLFFGGLCVAASEFHRSRHSVILSAGI
 FFVSAGLSNIIGIIVYISANAGDPGQRDSKKSYSYGWSFYFGAFSFIIEIVGVVAVHIYIEKHQQLRAR
 SHSELLKKSTFARLPPYRYRFRRRSSSRSTEPRSRDLSPIKGFHTIPSTDISMFTLSRDPSKLTMGTL
 NSDRDHAFLLQFHNSTPKFEKESLHNNPANRRTPV

TRTRPLE - GFP Tag - V

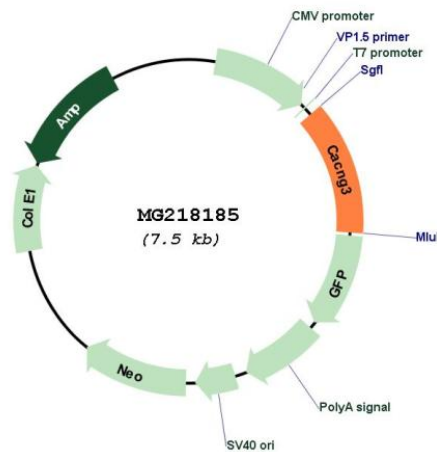
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_019430

ORF Size: 945 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_019430.2 , NP_062303.2
RefSeq Size:	1540 bp
RefSeq ORF:	948 bp
Locus ID:	54376
UniProt ID:	Q9JIV5
Cytogenetics:	7 F2
Gene Summary:	Regulates the trafficking to the somatodendritic compartment and gating properties of AMPA-selective glutamate receptors (AMPA receptors) (PubMed:18341993). Promotes their targeting to the cell membrane and synapses and modulates their gating properties by slowing their rates of activation, deactivation and desensitization. Does not show subunit-specific AMPA receptor regulation and regulates all AMPAR subunits. Thought to stabilize the calcium channel in an inactivated (closed) state (By similarity).[UniProtKB/Swiss-Prot Function]