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Product datasheet for MG222903

Cacna2d3 (NM_009785) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna2d3 (NM_009785) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cacna2d3
Synonyms:	alapha2delta3; Cacnad3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG222903 representing NM_009785
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGGGCCGGGCTCGCTGTGCTGCGCGTCCCGGGGGGCCTCGGCGCTCCTAGCCACCGCGCTTCTCT
ACGCCGCTCTGGGGGACGTGGTGCGCTCCGAGCAGCAGATCCCGCTCTCCGTAGTGAAGCTGTGGGCCTC
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CCTGAAACATGAATTTGATGCTGACTTGCAGTATGAATACTTCAATGCTGTGCTGATCAACGAGAGGGAC
AAAGACGGGAACTTTTTGGAATTGGGAAAGGAATTCATCTTAGCCCCCAATGACCATTTTAATAATTTGC
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TGCTGATGATCAGGGCCTCGTCTTGATGACCACGGTGGCCATGCCTGTGTTTAGTAAGCAGAACGAAACT

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AGGTCAAAGGGCATTCTTCTGGGTGTGGTTGGCACAGATGTCCCAGTTAAAGAGCTTCTGAAGACCATCC
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CGTCCAGAATCCTGCCACGGCTTCCATCCTGAGGAGAATGCAAGAGAGTGTGGGGGTGCATCGAGTCTTC
AGGCCCAGGCGGCCTTGCTGCTGCTGCCCCTGGTTTCGAGTCTCTTCTCAAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222903 representing NM_009785
Red=Cloning site Green=Tags(s)

MAGPGSLCCASRGASALLATALLYAALGDVVRSEQQIPLSVVKLWASAFGGEIKSIAAKYSGSQLLQKKY
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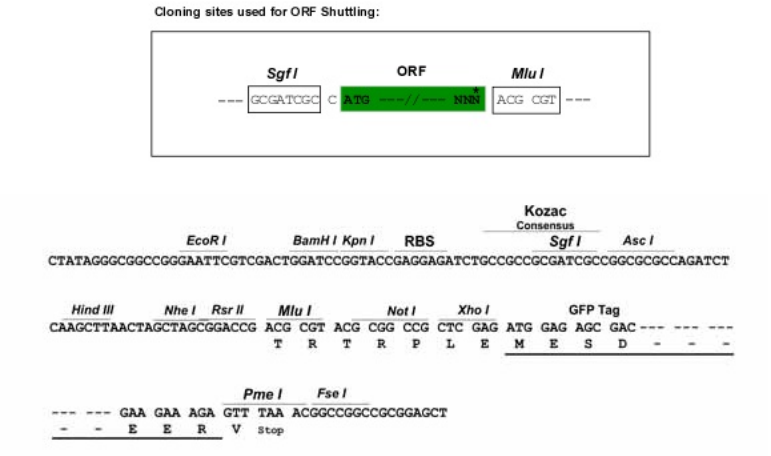
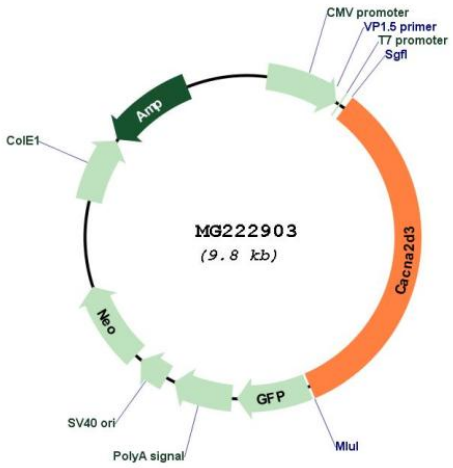
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_009785
ORF Size:	3273 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:	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_009785.1, NP_033915.1
RefSeq Size:	3710 bp
RefSeq ORF:	3276 bp
Locus ID:	12294
UniProt ID:	Q9Z1L5
Cytogenetics:	14 A3
Gene Summary:	The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel. Acts as a regulatory subunit for P/Q-type calcium channel (CACNA1A), N-type (CACNA1B), L-type (CACNA1C OR CACNA1D) but not T-type (CACNA1G).[UniProtKB/Swiss-Prot Function]