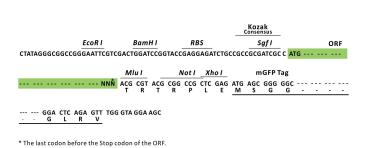


Product datasheet for MR211721L4

Cacna2d2 (NM_001174047) Mouse Tagged Lenti ORF Clone

Product data:

| Product Type: | Expression Plasmids |
|------------------------------|---|
| Product Name: | Cacna2d2 (NM_001174047) Mouse Tagged Lenti ORF Clone |
| Tag: | mGFP |
| Symbol: | Cacna2d2 |
| Synonyms: | a2d2; Cacna2d; du; mKIAA0558; td; torpid |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| E. coli Selection: | Chloramphenicol (34 ug/mL) |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(MR211721). |
| Restriction Sites: | Sgfl-Mlul |
| Cloning Scheme: | |
| | Cloning sites used for ORF Shuttling: |
| | Sgf I ORF Mlu I GCG ATC GC ATG// NNN ACG CGT |



ACCN: ORF Size: NM_001174047 3468 bp

OriGene Technologies, Inc.

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| | acna2d2 (NM_001174047) Mouse Tagged Lenti ORF Clone – MR211721L4 |
|--------------------|---|
| 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. <u>More info</u> |
| 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 Met | chod: 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: | <u>NM 001174047.1, NP 001167518.1</u> |
| RefSeq Size: | 5539 bp |
| RefSeq ORF: | 3471 bp |
| Locus ID: | 56808 |
| UniProt ID: | <u>Q6PHS9</u> |
| Cytogenetics: | 9 58.02 cM |
| 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) and possibly T-type (CACNA1G).[UniProtKB/Swiss-Prot Function] |

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