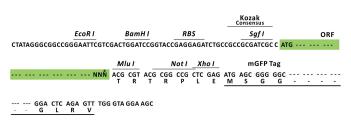


Product datasheet for MR225333L4

Kcnq2 (NM_001003825) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids Product Name: Kcnq2 (NM_001003825) Mouse Tagged Lenti ORF Clone Tag: mGFP Symbol: Kcnq2 HNSPC; KQT2; Nmf134 Synonyms: Mammalian Cell Puromycin Selection: Vector: pLenti-C-mGFP-P2A-Puro (PS100093) E. coli Selection: Chloramphenicol (34 ug/mL) The ORF insert of this clone is exactly the same as(MR225333). **ORF** Nucleotide Sequence: **Restriction Sites:** Sgfl-Mlul **Cloning Scheme:** Cloning sites used for ORF Shuttling: ORF Sqf I Mlu I --- GCG ATC GC C ATG --- //--- NNN ACG CGT ---



* The last codon before the Stop codon of the ORF.

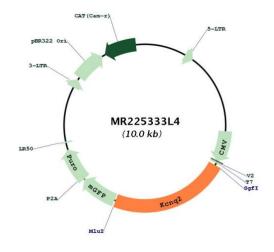
OriGene Technologies, Inc.

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Plasmid Map:



| ACCN | |
|------------------------|--|
| ACCN: | NM_001003825 |
| ORF Size: | 2262 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. <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 Method: | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 001003825.2, NP 001003825.1</u> |
| RefSeq Size: | 2992 bp |
| RefSeq ORF: | 2265 bp |
| | |

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| | Kcnq2 (NM_001003825) Mouse Tagged Lenti ORF Clone – MR225333L4 |
|---------------|---|
| Locus ID: | 16536 |
| Cytogenetics: | 2 103.57 cM |
| Gene Summary: | Associates with KCNQ3 to form a potassium channel with essentially identical properties to the channel underlying the native M-current, a slowly activating and deactivating potassium conductance which plays a critical role in determining the subthreshold electrical excitability of neurons as well as the responsiveness to synaptic inputs. Therefore, it is important in the regulation of neuronal excitability.[UniProtKB/Swiss-Prot Function] |

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