

## Product datasheet for **RC228621L4V**

### KCNQ5 (NM\_001160132) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | KCNQ5 (NM_001160132) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | KCNQ5  |
| Synonyms:                 | Kv7.5; MRD46   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_001160132   |
| ORF Size:                 | 2826 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC228621).   |
| 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. <a href="#">More info</a> |
| OTI Annotation:           | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| RefSeq:                   | <a href="#">NM_001160132.1</a>   |
| RefSeq ORF:               | 2829 bp  |
| Locus ID:                 | 56479  |
| UniProt ID:               | <a href="#">Q9NR82</a>   |
| Cytogenetics:             | 6q13   |
| Protein Families:         | Druggable Genome, Ion Channels: Potassium, Transmembrane   |
| MW:                       | 103.4 kDa  |



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**Gene Summary:**

This gene is a member of the KCNQ potassium channel gene family that is differentially expressed in subregions of the brain and in skeletal muscle. The protein encoded by this gene yields currents that activate slowly with depolarization and can form heteromeric channels with the protein encoded by the KCNQ3 gene. Currents expressed from this protein have voltage dependences and inhibitor sensitivities in common with M-currents. They are also inhibited by M1 muscarinic receptor activation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]