

## Product datasheet for **RC215104L4V**

### **KCNH1 (NM\_002238) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:             | Lentiviral Particles                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product Name:             | KCNH1 (NM_002238) Human Tagged ORF Clone Lentiviral Particle                                                                                                                                                                                                                                                                                                                                                                                       |
| Symbol:                   | KCNH1                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Synonyms:                 | EAG; EAG1; h-eag; hEAG; hEAG1; Kv10.1; TMBTS; ZLS1                                                                                                                                                                                                                                                                                                                                                                                                 |
| Mammalian Cell Selection: | Puromycin                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Tag:                      | mGFP                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ACCN:                     | NM_002238                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ORF Size:                 | 2886 bp                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC215104).                                                                                                                                                                                                                                                                                                                                                                                     |
| 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_002238.2</a>                                                                                                                                                                                                                                                                                                                                                                                                                        |
| RefSeq Size:              | 3127 bp                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| RefSeq ORF:               | 2889 bp                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Locus ID:                 | 3756                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| UniProt ID:               | <a href="#">O95259</a>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Cytogenetics:             | 1q32.2                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Protein Families:         | Druggable Genome, Ion Channels: Potassium, Transmembrane                                                                                                                                                                                                                                                                                                                                                                                           |
| MW:                       | 108.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                          |



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**Gene Summary:**

Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a member of the potassium channel, voltage-gated, subfamily H. This member is a pore-forming (alpha) subunit of a voltage-gated non-inactivating delayed rectifier potassium channel. It is activated at the onset of myoblast differentiation. The gene is highly expressed in brain and in myoblasts. Overexpression of the gene may confer a growth advantage to cancer cells and favor tumor cell proliferation. Alternative splicing of this gene results in two transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]