

## Product datasheet for **RC214555L4V**

### CA5A (NM\_001739) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | CA5A (NM_001739) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | CA5A   |
| Synonyms:                 | CA5; CA5AD; CAV; CAVA; GS1-21A4.1  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_001739  |
| ORF Size:                 | 915 bp   |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC214555).   |
| 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_001739.1</a>  |
| RefSeq Size:              | 1084 bp  |
| RefSeq ORF:               | 918 bp   |
| Locus ID:                 | 763  |
| UniProt ID:               | <a href="#">P35218</a>   |
| Cytogenetics:             | 16q24.2  |
| Protein Families:         | Druggable Genome   |
| Protein Pathways:         | Nitrogen metabolism  |



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**MW:** 34.75 kDa

**Gene Summary:** Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA VA is localized in the mitochondria and expressed primarily in the liver. It may play an important role in ureagenesis and gluconeogenesis. CA5A gene maps to chromosome 16q24.3 and an unprocessed pseudogene has been assigned to 16p12-p11.2. [provided by RefSeq, Jul 2008]