

## Product datasheet for **RC202472L4V**

### PKC zeta (PRKCZ) (NM\_002744) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | PKC zeta (PRKCZ) (NM_002744) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | PKC zeta   |
| Synonyms:                 | PKC-ZETA; PKC2   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_002744  |
| ORF Size:                 | 1776 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC202472).   |
| 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_002744.3</a>  |
| RefSeq Size:              | 2359 bp  |
| RefSeq ORF:               | 1779 bp  |
| Locus ID:                 | 5590   |
| UniProt ID:               | <a href="#">Q05513</a>   |
| Cytogenetics:             | 1p36.33  |
| Domains:                  | PB1, pkinase, S_TK_X, TyrKc, DAG_PE-bind, S_TKc  |
| Protein Families:         | Druggable Genome, Protein Kinase   |



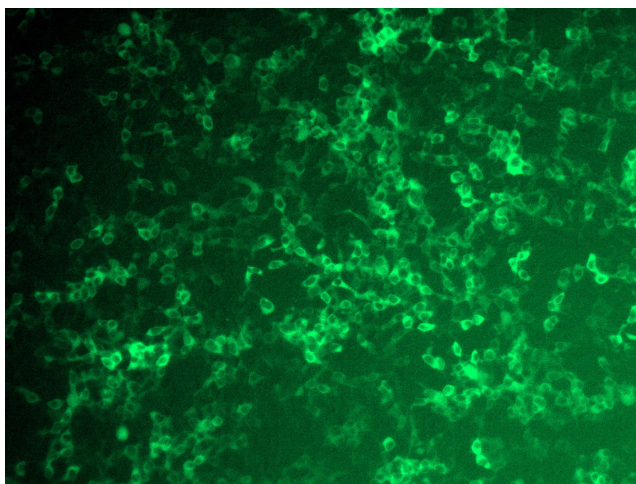
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**Protein Pathways:** Chemokine signaling pathway, Endocytosis, Insulin signaling pathway, Tight junction, Type II diabetes mellitus

**MW:** 67.7 kDa

**Gene Summary:** Protein kinase C (PKC) zeta is a member of the PKC family of serine/threonine kinases which are involved in a variety of cellular processes such as proliferation, differentiation and secretion. Unlike the classical PKC isoenzymes which are calcium-dependent, PKC zeta exhibits a kinase activity which is independent of calcium and diacylglycerol but not of phosphatidylserine. Furthermore, it is insensitive to typical PKC inhibitors and cannot be activated by phorbol ester. Unlike the classical PKC isoenzymes, it has only a single zinc finger module. These structural and biochemical properties indicate that the zeta subspecies is related to, but distinct from other isoenzymes of PKC. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

### Product images:



[RC202472L4] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC202472L4V particle to overexpress human PRKCZ-mGFP fusion protein.