

## Product datasheet for **RC225955L3V**

### ARHGEF3 (NM\_001128615) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                                  |                                      |
|----------------------------------|--------------------------------------|
| <b>Product Type:</b>             | Lentiviral Particles                 |
| <b>Symbol:</b>                   | ARHGEF3                              |
| <b>Synonyms:</b>                 | GEF3; STA3; XPLN                     |
| <b>Mammalian Cell Selection:</b> | Puromycin                            |
| <b>Vector:</b>                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| <b>Tag:</b>                      | Myc-DDK                              |
| <b>ACCN:</b>                     | NM_001128615                         |
| <b>ORF Size:</b>                 | 1674 bp                              |

**ORF Nucleotide Sequence:** The ORF insert of this clone is exactly the same as(RC225955).

**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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

|                      |                                |
|----------------------|--------------------------------|
| <b>RefSeq:</b>       | <a href="#">NM_001128615.1</a> |
| <b>RefSeq ORF:</b>   | 1677 bp                        |
| <b>Locus ID:</b>     | 50650                          |
| <b>UniProt ID:</b>   | <a href="#">Q9NR81</a>         |
| <b>Cytogenetics:</b> | 3p14.3                         |
| <b>MW:</b>           | 63.6 kDa                       |



**Gene Summary:**

Rho-like GTPases are involved in a variety of cellular processes, and they are activated by binding GTP and inactivated by conversion of GTP to GDP by their intrinsic GTPase activity. Guanine nucleotide exchange factors (GEFs) accelerate the GTPase activity of Rho GTPases by catalyzing their release of bound GDP. This gene encodes a guanine nucleotide exchange factor, which specifically activates two members of the Rho GTPase family: RHOA and RHOB, both of which have a role in bone cell biology. It has been identified that genetic variation in this gene plays a role in the determination of bone mineral density (BMD), indicating the implication of this gene in postmenopausal osteoporosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]