

## Product datasheet for **RC210804L4V**

### TXNIP (NM\_006472) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | TXNIP (NM_006472) Human Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | TXNIP  |
| Synonyms:                 | ARRDC6; EST01027; HHCPA78; THIF; VDUP1   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_006472  |
| ORF Size:                 | 1173 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC210804).   |
| 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_006472.1</a>  |
| RefSeq Size:              | 2979 bp  |
| RefSeq ORF:               | 1176 bp  |
| Locus ID:                 | 10628  |
| UniProt ID:               | <a href="#">Q9H3M7</a>   |
| Cytogenetics:             | 1q21.1   |
| Domains:                  | arrestin   |
| Protein Families:         | Druggable Genome   |

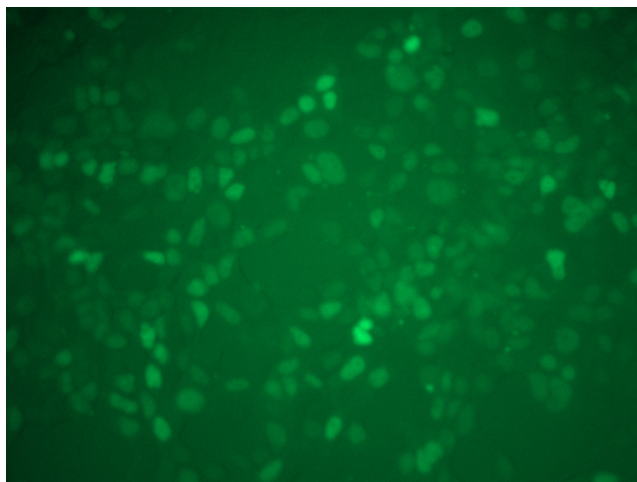


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MW: 43.7 kDa

**Gene Summary:** This gene encodes a thioredoxin-binding protein that is a member of the alpha arrestin protein family. Thioredoxin is a thiol-oxidoreductase that is a major regulator of cellular redox signaling which protects cells from oxidative stress. This protein inhibits the antioxidative function of thioredoxin resulting in the accumulation of reactive oxygen species and cellular stress. This protein also functions as a regulator of cellular metabolism and of endoplasmic reticulum (ER) stress. This protein may also function as a tumor suppressor. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

**Product images:**



[RC210804L4] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC210804L4V particle to overexpress human TXNIP-mGFP fusion protein.