

## Product datasheet for **RC200210L3V**

### **AKR1C3 (NM\_003739) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | AKR1C3 (NM_003739) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | AKR1C3   |
| Synonyms:                 | DD3; DDX; HA1753; HAKRB; HAKRe; hluPGFS; HSD17B5; PGFS   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_003739  |
| ORF Size:                 | 969 bp   |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC200210).   |
| 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_003739.4</a>  |
| RefSeq Size:              | 1251 bp  |
| RefSeq ORF:               | 972 bp   |
| Locus ID:                 | 8644   |
| UniProt ID:               | <a href="#">P42330</a>   |
| Cytogenetics:             | 10p15.1  |
| Protein Families:         | Druggable Genome   |
| Protein Pathways:         | Arachidonic acid metabolism, Metabolism of xenobiotics by cytochrome P450  |

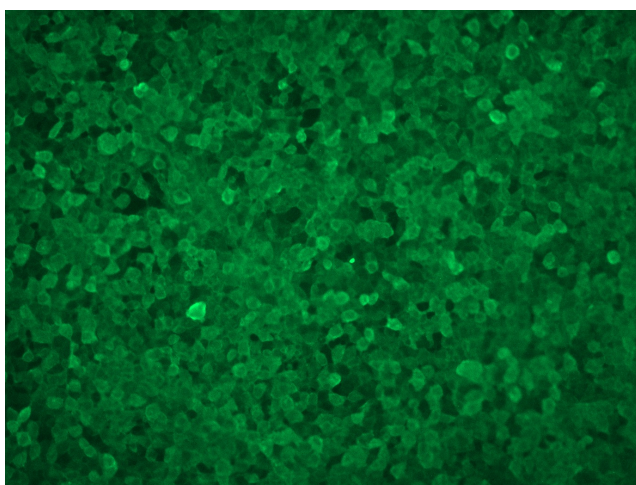


[View online »](#)

MW: 36.9 kDa

**Gene Summary:** This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme catalyzes the reduction of prostaglandin (PG) D<sub>2</sub>, PGH<sub>2</sub> and phenanthrenequinone (PQ), and the oxidation of 9 $\alpha$ ,11 $\beta$ -PGF<sub>2</sub> to PGD<sub>2</sub>. It may play an important role in the pathogenesis of allergic diseases such as asthma, and may also have a role in controlling cell growth and/or differentiation. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

### Product images:



[RC200210L3] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC200210L3V particle to overexpress human AKR1C3-Myc-DDK fusion protein.