

Product datasheet for **RC213538L4V**

AKR1C2 (NM_001354) Human Tagged ORF Clone Lentiviral Particle

Product data:

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| Product Type: | Lentiviral Particles |
| Product Name: | AKR1C2 (NM_001354) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | AKR1C2 |
| Synonyms: | AKR1C-pseudo; BABP; DD; DD-2; DD/BABP; DD2; DDH2; HAKRD; HBAB; MCDR2; SRXY8; TDD |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_001354 |
| ORF Size: | 969 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC213538). |
| 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. |
| RefSeq: | NM_001354.4 |
| RefSeq Size: | 1663 bp |
| RefSeq ORF: | 972 bp |
| Locus ID: | 1646 |
| UniProt ID: | P52895 |
| Cytogenetics: | 10p15.1 |
| Domains: | aldo_ket_red |
| Protein Families: | Druggable Genome |



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Protein Pathways: Metabolism of xenobiotics by cytochrome P450

MW: 36.6 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 using NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme binds bile acid with high affinity, and shows minimal 3-alpha-hydroxysteroid dehydrogenase activity. 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 two different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]