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Product datasheet for RC200504L3V

AKR1B1 (NM_001628) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	AKR1B1 (NM_001628) Human Tagged ORF Clone Lentiviral Particle
Symbol:	AKR1B1
Synonyms:	ADR; ALDR1; ALR2; AR
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001628
ORF Size:	948 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200504).
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_001628.2
RefSeq Size:	1416 bp
RefSeq ORF:	951 bp
Locus ID:	231
UniProt ID:	P15121
Cytogenetics:	7q33
Domains:	aldo_ket_red
Protein Families:	Druggable Genome

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Protein Pathways:	Fructose and mannose metabolism, Galactose metabolism, Glycerolipid metabolism, Metabolic pathways, Pentose and glucuronate interconversions, Pyruvate metabolism
MW:	35.7 kDa
Gene Summary:	This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member catalyzes the reduction of a number of aldehydes, including the aldehyde form of glucose, and is thereby implicated in the development of diabetic complications by catalyzing the reduction of glucose to sorbitol. Multiple pseudogenes have been identified for this gene. The nomenclature system used by the HUGO Gene Nomenclature Committee to define human aldo-keto reductase family members is known to differ from that used by the Mouse Genome Informatics database. [provided by RefSeq, Feb 2009]