

Product datasheet for **RR200557L3V**

Akr7a2 (NM_134407) Rat Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Akr7a2 (NM_134407) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Akr7a2
Synonyms:	Aiar
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_134407
ORF Size:	1014 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR200557).
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_134407.1 , NP_599234.1
RefSeq Size:	1272 bp
RefSeq ORF:	1017 bp
Locus ID:	171445
UniProt ID:	Q8CG45
Cytogenetics:	5q36



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Gene Summary:

Catalyzes the NADPH-dependent reduction of succinic semialdehyde to gamma-hydroxybutyrate. May have an important role in producing the neuromodulator gamma-hydroxybutyrate (GHB). Has broad substrate specificity. Can reduce the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the non-binding AFB1 dialcohol. Acts as a 2-carboxybenzaldehyde reductase.[UniProtKB/Swiss-Prot Function]