

## Product datasheet for **RC224831L4V**

### AASS (NM\_005763) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	AASS (NM_005763) Human Tagged ORF Clone Lentiviral Particle
Symbol:	AASS
Synonyms:	LKR/SDH; LKRSDH; LORS DH
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_005763
ORF Size:	2778 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC224831).
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_005763.2</a>
RefSeq Size:	3233 bp
RefSeq ORF:	2781 bp
Locus ID:	10157
UniProt ID:	<a href="#">Q9UDR5</a>
Cytogenetics:	7q31.32
Domains:	Saccharop_dh, AlaDh_PNT_C, AlaDh_PNT_N
Protein Families:	Druggable Genome



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**Protein Pathways:** Lysine biosynthesis, Lysine degradation, Metabolic pathways

**MW:** 102 kDa

**Gene Summary:** This gene encodes a bifunctional enzyme that catalyzes the first two steps in the mammalian lysine degradation pathway. The N-terminal and the C-terminal portions of this enzyme contain lysine-ketoglutarate reductase and saccharopine dehydrogenase activity, respectively, resulting in the conversion of lysine to alpha-amino adipic semialdehyde. Mutations in this gene are associated with familial hyperlysinemia. [provided by RefSeq, Jul 2008]