

Product datasheet for **RC213720L4V**

ALDH1L1 (NM_012190) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	ALDH1L1 (NM_012190) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ALDH1L1
Synonyms:	10-fTHF; 10-FTHFDH; FDH; FTHFD
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_012190
ORF Size:	2706 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC213720).
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_012190.2
RefSeq Size:	3125 bp
RefSeq ORF:	2709 bp
Locus ID:	10840
UniProt ID:	O75891
Cytogenetics:	3q21.3
Domains:	aldedh, formyl_transf, formyl_trans_C
Protein Families:	Druggable Genome



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Protein Pathways: One carbon pool by folate

MW: 98.6 kDa

Gene Summary: The protein encoded by this gene catalyzes the conversion of 10-formyltetrahydrofolate, nicotinamide adenine dinucleotide phosphate (NADP⁺), and water to tetrahydrofolate, NADPH, and carbon dioxide. The encoded protein belongs to the aldehyde dehydrogenase family. Loss of function or expression of this gene is associated with decreased apoptosis, increased cell motility, and cancer progression. There is an antisense transcript that overlaps on the opposite strand with this gene locus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2012]