

## Product datasheet for **RC223973L4V**

### Retinol dehydrogenase 16 (RDH16) (NM\_003708) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Retinol dehydrogenase 16 (RDH16) (NM_003708) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Retinol dehydrogenase 16
Synonyms:	hRDH-E; RODH-4; SDR9C8
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_003708
ORF Size:	951 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC223973).
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_003708.2</a> , <a href="#">NP_003699.2</a>
RefSeq Size:	2425 bp
RefSeq ORF:	954 bp
Locus ID:	8608
UniProt ID:	<a href="#">O75452</a>
Cytogenetics:	12q13.3
Domains:	adh_short



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<b>Protein Pathways:</b>	Metabolic pathways, Retinol metabolism
<b>MW:</b>	35.5 kDa
<b>Gene Summary:</b>	Oxidoreductase with a preference for NAD. Oxidizes all-trans-retinol, 9-cis-retinol, 11-cis-retinol and 13-cis-retinol to the corresponding aldehydes (PubMed:10329026, PubMed:12534290, PubMed:9677409). Has higher activity towards CRBP-bound retinol than with free retinol (PubMed:12534290). Oxidizes also 3-alpha-hydroxysteroids. Oxidizes androstenediol and androsterone to dihydrotestosterone and androstenedione. Can also catalyze the reverse reaction (PubMed:10329026, PubMed:9677409, PubMed:29541409). [UniProtKB/Swiss-Prot Function]