

Product datasheet for **RC223973L2V**

Retinol dehydrogenase 16 (RDH16) (NM_003708) Human Tagged ORF Clone Lentiviral Particle

Product data:

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| 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: | None |
| Vector: | pLenti-C-mGFP (PS100071) |
| 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. 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_003708.2 , NP_003699.2 |
| RefSeq Size: | 2425 bp |
| RefSeq ORF: | 954 bp |
| Locus ID: | 8608 |
| UniProt ID: | O75452 |
| Cytogenetics: | 12q13.3 |
| Domains: | adh_short |


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| Protein Pathways: | Metabolic pathways, Retinol metabolism |
| MW: | 35.5 kDa |
| Gene Summary: | 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 androstanediol and androsterone to dihydrotestosterone and androstanedione. Can also catalyze the reverse reaction (PubMed:10329026, PubMed:9677409, PubMed:29541409). [UniProtKB/Swiss-Prot Function] |