

Product datasheet for **SC122636**

RDH5 (NM_002905) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RDH5 (NM_002905) Human Untagged Clone
Tag:	Tag Free
Symbol:	RDH5
Synonyms:	9cRDH; HSD17B9; RDH1; SDR9C5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002905 edited
 CAGTAGTTAGTGTGGGAGGCTGGGAAGACTGGGAGCAGTCTCTTAAACAAAAGCAAAGA
 ATAAGCTTCGGGCGCTGTAGTACCTGCCAGCTTTCGCCACAGGAGCCTAGGCTGCCACCT
 GTAGGTCACTTGGGCTCCAGCTATGTGGCTGCCTCTTCTGCTGGGTGCCTTACTCTGGGC
 AGTGCTGTGGTTGCTCAGGGACCGCAGAGCCTGCCCGCCAGCAATGCCCTTGTCTTCAT
 CACCGGCTGTGACTCAGGCTTGGGCGCCTTCTGGCACTGCAGCTGGACCAGAGAGGCTT
 CCGAGTCTGGCCAGCTGCCTGACCCCTCCGGGGCCGAGGACCTGCAGCGGGTGGCCTC
 CTCCCGCCTCCACACCACCCTGTTGGATATCACTGATCCCAGAGCGTCCAGCAGGCAGC
 CAAGTGGTGGAGATGCACGTTAAGGAAGCAGGGCTTTTTGGTCTGGTGAATAATGCTGG
 TGTGGCTGGTATCATCGGACCCACACCATGGCTGACCCGGGACGATTTCCAGCGGGTGT
 GAATGTGAACACAATGGGTCCCATCGGGGTACCCTTGCCTGTGCCTCTGCTGCAGCA
 AGCCCGGGGCGGGTGTCAACATCACAGCGTCTGGGTGCCTGGCAGCCAATGGTGG
 GGGTACTGTGTCTCAAATTTGGCCTGGAGGCCTTCTCTGACAGCCTGAGGCGGGATGT
 AGCTCATTTTGGGATACGAGTCTCCATCGTGGAGCCTGGCTTCTTCCGAACCCCTGTGAC
 CAACCTGGAGAGTCTGGAGAAAACCTGCAGGCCTGTGGGCACGGCTGCCTCCTGCCAC
 ACAGGCCCACTATGGGGGGCCTTCTCACCAAGTACCTGAAAATGCAACAGCGCATCAT
 GAACCTGATCTGTGACCCGGACCTAACCAAGGTGAGCCGATGCCTGGAGCATGCCCTGAC
 TGCTCGACACCCCGAACCCGCTACAGCCAGGTTGGGATGCCAAGCTGCTCTGGCTGCC
 TGCTCCTACCTGCCAGCCAGCCTGGTGGATGCTGTGCTCACCTGGGTCCCTTCCCAAGCC
 TGCCCAAGCAGTCTACTGAATCCAGCCTTCCAGCAAGAGATTGTTTTCAAGGACAAGGA
 CTTTGATTTATTTCTGCCCCACCCCTGGTACTGCCTGGTGCCTGCCACAAAATAAGCACT
 AACAAAAGTGTATTGTTTAAAAAATAAAAAAGAGGTGGGCAGAAATGTGCCCAGTGGAAA
 AAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002905 unedited CGTCANAATTTGTATACGACTCACTATAGGGCGGCCGCGATTCCCGGGATATCGTCGACC CACGCGTCCGCAGTAGTTAGTGTGGGAGGCTGGGAAGACTGGGAGCAGTCTTTAAACAA AAGCAAAGAATAAGCTTCGGGCGCTGTAGTACCTGCCAGCTTTCGCCACAGGAGCCTAG GCTGCCACCTGTAGGTCACCTGGGCTCCAGCTATGTGGCTGCCTTTCTGCTGGGTGCCT TACTCTGGGCAGTGTGTGGTTGCTCAGGGACCGGCAGAGCCTGCCCGCCAGCAATGCC TTGTCTTCATCACCGGCTGTGACTCAGGCTTTGGGCGCCTTCTGGCACTGCAGCTGGACC AGAGAGGCTTCCGAGTCCTGGCCAGCTGCCTGACCCCTCCGGGGCCGAGGACCTGCAGC GGTGGCCTCCTCCGCTCCACACCACCTGTTGGATATCACTGATCCCCAGAGCGTCC AGCAGGACGCCAAGTGGGTGGAGATGCACGTTAAGGAAGCAGGGCTTTTTGGTCTGGTGA ATAATGCTGGTGTGGCTGGTATCATCGGACCCACACCATGGTGACCCGGGACGATTTCC AGCGGGTGTGAATGTGAACACAATGGTCCCATCGGGTACCCTTGCCTGCTGCCTC TGCTGCAGCAAGCCCGGGCCGGTGATCAACATACCAGCGTCTGGTGCCTGGCAG CCAATGGTGGGGCTACTGTGTCTCCAAATTTGGCCTGGAGGCCCTCTCTGACAGCCTGG AGCGGGATGTAGCTCATTTTGGGATACCAGTCTTCATCGTGGGAGCCTGGCTTCTTCCG AACCCCGTGACCAACTGTAAAGTCTGGAGAAACCCTGCAGGCCTGCTGGGACGGGTGCC TCCTGCCACAGGCCCTTTTGGG
Restriction Sites:	Please inquire
ACCN:	NM_002905
Insert Size:	1280 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_002905.2 , NP_002896.2
RefSeq Size:	1246 bp
RefSeq ORF:	957 bp
Locus ID:	5959
UniProt ID:	Q92781
Cytogenetics:	12q13.2
Protein Families:	Druggable Genome
Protein Pathways:	Retinol metabolism

Gene Summary:

This gene encodes an enzyme belonging to the short-chain dehydrogenases/reductases (SDR) family. This retinol dehydrogenase functions to catalyze the final step in the biosynthesis of 11-cis retinaldehyde, which is the universal chromophore of visual pigments. Mutations in this gene cause autosomal recessive fundus albipunctatus, a rare form of night blindness that is characterized by a delay in the regeneration of cone and rod photopigments. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the neighboring upstream BLOC1S1 (biogenesis of lysosomal organelles complex-1, subunit 1) gene. [provided by RefSeq, Dec 2010]

Transcript Variant: This variant (2) uses an alternate splice site in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same protein.