

Product datasheet for **SC331359**

RDH5 (NM_001199771) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: RDH5 (NM_001199771) Human Untagged Clone
Tag: Tag Free
Symbol: RDH5
Synonyms: 9cRDH; HSD17B9; RDH1; SDR9C5
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331359 representing NM_001199771.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTGGCTGCCTCTTCTGCTGGGTGCCTTACTCTGGGCAGTGCTGTGGTTGCTCAGGGACCGGCAGAGC
CTGCCCGCCAGCAATGCCTTTGTCTTTCATACCGGCTGTGACTCAGGCTTTGGGCGCCTTCTGGCACTG
CAGCTGGACCAGAGAGGCTTCCGAGTCTGGCCAGCTGCCTGACCCCTCCGGGGCCGAGGACCTGCAG
CGGGTGGCTCCTCCGCTCCACACCACCTGTTGGATACTGATCCCAGAGCGTCCAGCAGGCA
GCCAAGTGGTGGAGATGCACGTTAAGGAAGCAGGGCTTTTGGTCTGGTGAATAATGCTGGTGTGGCT
GGTATCATCGGACCCACACCATGGCTGACCCGGGACGATTTCCAGCGGGTCTGAATGTGAACACAATG
GGTCCATCGGGGTACCCCTTGCCCTGCTGCCTCTGCTGCAGCAAGCCCGGGGCCGGGTGATCAACATC
ACCAGCGTCTGGGTCCGCTGGCAGCCAATGGTGGGGGCTACTGTGTCTCCAAATTTGGCCTGGAGGCC
TTCTCTGACAGCCTGAGGCGGGATGTAGCTCATTTGGGATACGAGTCTCCATCGTGGAGCCTGGCTTC
TTCCGAACCCCTGTGACCAACCTGGAGAGTCTGGAGAAAACCTGCAGGCCTGCTGGGCACGGCTGCCT
CCTGCCACACAGGCCCACTATGGGGGGGCTTCTCACCAGTACCTGAAATGCAACAGCGCATCATG
AACCTGATCTGTGACCCGACCTAACCAAGGTGAGCCGATGCCTGGAGCATGCCCTGACTGCTCGACAC
CCCCGAACCCGCTACAGCCAGGTTGGGATGCCAAGCTGCTCTGGCTGCCTGCCTCCTACCTGCCAGCC
AGCCTGGTGGATGCTGTGCTCACCTGGTCTTCCCAAGCCTGCCAAGCAGTCTACTGA
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001199771
Insert Size: 957 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).



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Reconstitution Method:

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_001199771.1](#)

RefSeq Size: 1359 bp

RefSeq ORF: 957 bp

Locus ID: 5959

UniProt ID: [Q92781](#)

Cytogenetics: 12q13.2

Protein Families: Druggable Genome

Protein Pathways: Retinol metabolism

MW: 35 kDa

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 (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.