

## Product datasheet for SC304351

### RDH8 (NM\_015725) Human Untagged Clone

#### Product data:

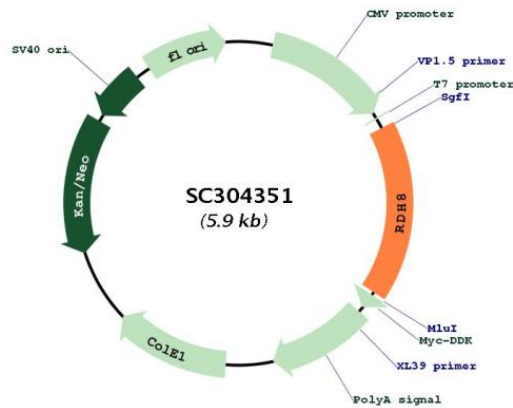
Product Type:	Expression Plasmids
Product Name:	RDH8 (NM_015725) Human Untagged Clone
Tag:	Tag Free
Symbol:	RDH8
Synonyms:	PRRDH; SDR28C2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304351 representing NM_015725. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGGATCGCC
ATGAATGGTCAGAGTCAGGTGCTGCCGGCGGAGGTCACGAGTCCAGGGAGGGGATCAACATGGCCGCT
GCACCCCGGACTGTGTTGATCTCCGGCTGCTCATCAGGAATTGGTCTGGAACCTGCAGTGCACCTGGCC
CATGACCCCAAGAAGCGCTACCAGGTCGTGGCCACCATGAGGGACCTGGGAAGAAGGAGACTGGAG
GCAGCTGCTGGGAGGCTCTGGGCAGACCCTCACCGTGGCCAGCTGGACGTGTGCAGTGATGAGTCG
GTGGCCAGTGTCTCAGCTGTATCCAGGGAGAAGTGGACGTGCTGGTGAATAATGCTGGAATGGGCCTG
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AGTGTCATGGGCCTGCAGGGTGTCTATCAACGATGTCTATGCAGCTTCCAAGTTCGCCCTGGAGGGA
TTCTTCGAAAGCCTCGCTATCCAGCTGCTGCAGTTCAACATCTTCATCTCCCTGGTGGAGCCAGGCCCC
GTGGTCACCGAGTTTGAGGGGAAGCTTCTGGCGCAGGTTTCTATGGCTGAGTTCCAGGCACTGACCCT
GAGACCTGCACTACTCCGGGACCTCTATCTCCAGCCTCCAGGAAGCTGTTTTGCTCCGTGGGACAG
AACCCACAGGACGTGTTT CAGGCCATTGTCAACGTCATCAGCTCGACTCGACCACCCCTGCGCCGACAG
ACCAACATCCGCTACTCGCCGTGACCACGCTCAAACCGTGGATTCTCTGGCAGCCTGTATGTGCGA
ACGACCCACCGCCTCCTTCCGCTGTCCAGCCTCCTCAACCTTGGCCCTCAATGTCTGTCTGCGCC
TGCCTCCCAACGCGGGTGC GGCCAAGATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_015725

**Insert Size:** 996 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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:**

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\\_015725.2](#)

**RefSeq Size:** 1714 bp

**RefSeq ORF:** 996 bp

**Locus ID:** 50700

**UniProt ID:** [Q9NYR8](#)  
**Cytogenetics:** 19p13.2  
**Protein Families:** Druggable Genome  
**Protein Pathways:** Metabolic pathways, Retinol metabolism  
**MW:** 35.8 kDa

**Gene Summary:** This gene encodes a member of the short-chain dehydrogenase/reductase family. The encoded protein catalyzes the reduction of all-trans-retinal to all-trans-retinol, the first reaction step of the rhodopsin regeneration pathway. This enzymatic reaction is the rate-limiting step in the visual cycle. [provided by RefSeq, Feb 2014]