

## Product datasheet for **RG228262**

### **RDH13 (NM\_001145971) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RDH13 (NM\_001145971) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RDH13  
**Synonyms:** SDR7C3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG228262 representing NM\_001145971  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCCGCTACCTGCTGCCGCTGTCGGCGCTGGGCACGGTAGCAGGCGCCGCCGTGCTGCTCAAGGACT  
ATGTCACCGGTGGGGCTTGCCCCAGCAAGGCCACCATCCCTGGGAAGACGGTCATCGTGACGGGTGCCAA  
CACAGGCATCGGGAAGCAGACCGCCTTGGAACTGGCCAGGAGAGGAGGCAACATCATCTGGCCTGCCGA  
GACATGGAGAAGTGTGAGGCGGCAGCAAAGGACATCCGCGGGGAGACCCTCAATCACCATGTCAACGCC  
GGCACCTGGACTTGGCTTCCCTCAAGTCTATCCGAGAGTTTGCAGCAAAGATCATTGAAGAGGAGGAGCG  
AGTGGACATTCTAATCAACAACGCGGGTGTGATGCGGTGCCCCACTGGACCACCGAGGACGGCTTCGAG  
ATGCAGTTTGGCGTTAACCACCTGGGTCACCTTCTCTTGACAACTTGGCTGCTGGACAAGCTGAAAGCCT  
CAGCCCCCTTCGCGGATCATCAACCTCTCGTCCCTGGCCCATGTTGCTGGGCACATAGACTTTGACGACTT  
GAACTGGCAGACGAGGAAGTATAACACCAAAGCCGCTACTGCCAGAGCAAGCTCGCCATCGTCCTCTTC  
ACCAAGGAGCTGAGCCGGCGGCTGCAAGGCTCTGGTGTGACTGTCAACGCCCTGCACCCCGGCGTGGCCA  
GGACAGAGCTGGGCAGACACCGGCATCCATGGCTCCACCTTCCAGCACCACACTCGGGCCCATCTT  
CTGGCTGCTGGTCAAGAGCCCCGAGCTGGCCGCCAGCCAGCACATACCTGGCCGTGGCGGAGGAACTG  
CGGGATGTTTCCGAAAGTACTTCGATGGACTCAAACAGAAGGCCCGGCCCGGAGGCTGAGGATGAGG  
AGGTGGCCCGGAGGCTTGGGCTGAAAGTGCCCGCTGGTGGGCTTAGAGGCTCCCTCTGTGAGGGAGCA  
GCCCTCCCGAGA

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**



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**Protein Sequence:** >RG228262 representing NM\_001145971  
 Red=Cloning site Green=Tags(s)

MSRYLLPLSALGTVAGAAVLLKDYVTGGACPSKATIPGKTVIVTGANTGIGKQTALELARGGNIILACR  
 DMEKCEAAAKDIRGETLNHHVNARHLDLASLKSIREFAAKIEEEEERVDILINNAGVMRCPHWTTEDGFE  
 MQFGVNHLLGHFLLTNLLLDKLGKASAPSRRIINLSSLAHVAGHIDFDDLNWQTRKYNTKAAQCQSKLAIVLF  
 TKELSRRLQGSQVTVNALHPGVARTELGRHTGIHGSTFSSTTLGPIFWLLVKSPELAAQPSTYLVAEEL  
 ADVSGKYFDGLKQKAPAPEAEDEEVARRLWAESARLVGLEAPSVREQLPR

TRTRPLE - GFP Tag - V

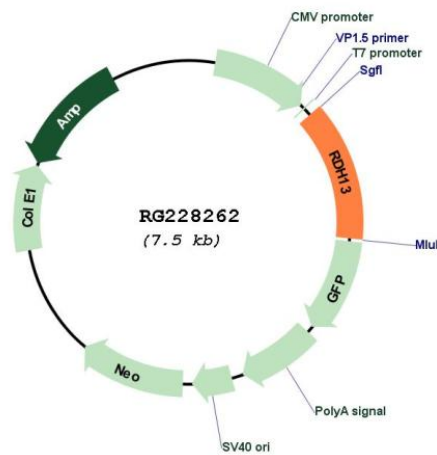
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001145971

**ORF Size:** 993 bp

<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001145971.2</a>
<b>RefSeq Size:</b>	1931 bp
<b>RefSeq ORF:</b>	996 bp
<b>Locus ID:</b>	112724
<b>UniProt ID:</b>	<a href="#">Q8NBN7</a>
<b>Cytogenetics:</b>	19q13.42
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	This gene encodes a mitochondrial short-chain dehydrogenase/reductase, which catalyzes the reduction and oxidation of retinoids. The encoded enzyme may function in retinoic acid production and may also protect the mitochondria against oxidative stress. Alternatively spliced transcript variants have been described. [provided by RefSeq, Mar 2009]