

Product datasheet for **RG203637**

RDH13 (NM_138412) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: RDH13 (NM_138412) 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: >RG203637 representing NM_138412
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGAAGTGTGAGGCGGCAGCAAAGGACATCCGCGGGGAGACCCTCAATCACCATGTCAACGCCCGGC
 ACCTGGACTTGGCTTCCCTCAAGTCTATCCGAGAGTTTGCAGCAAAGATCATTGAAGAGGAGGAGCGAGT
 GGACATTCTAATCAACAACGCGGGTGTGATGCGGTGCCCCACTGGACCACCGAGGACGGCTTCGAGATG
 CAGTTTGGCGTTAACCACCTGGGTCACTTCTCTTGACAAACTTGCTGCTGGACAAGCTGAAAGCCTCAG
 CCCCTTCGCGGATCATCAACCTCTCGTCCCTGGCCCATGTTGCTGGGCACATAGACTTTGACGACTTGAA
 CTGGCAGACGAGGAAGTATAACACCAAAGCCGCTACTGCCAGAGCAAGCTCGCCATCGTCCTTTACC
 AAGGAGCTGAGCCGGCGGCTGCAAGGCTCTGGTGTGACTGTCAACGCCCTGCACCCCGGCGTGGCCAGGA
 CAGAGCTGGGCAGACACGCGGCATCCATGGCTCCACCTTCTCCAGCACCACACTCGGGCCCATCTTCTG
 GCTGCTGGTCAAGAGCCCGAGCTGGCCGCCAGCCAGCACATACCTGGCCGTGGCGGAGGAAGTGGCG
 GATGTTCCGAAAGTACTTCGATGGACTCAAACAGAAGGCCCGGCCCGGAGGCTGAGGATGAGGAGG
 TGGCCCGAGGCTTTGGGCTGAAAGTGCCCGCTGGTGGGCTTAGAGGCTCCCTCTGTGAGGGAGCAGCC
 CCTCCCAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203637 representing NM_138412
Red=Cloning site Green=Tags(s)

MEKCEAAAKDIRGETLNHHVNARHLDLASLKSIREFAAKIIEEEERVDILINNAGVMRCPHWTTEDGFEM
 QFGVNLHGHLNLLLDKLGKASAPSRINLSSLAHVAGHIDFDDLNWQTRKYNTKAAYCQSKLAIVLFT
 KELSRRLQGGSVTVNALHPGVARTELGRHTGIHGSTFSSSTLGPWFLLVKSPELAAQPSTYLAVAEELA
 DVSGKYFDGLKQKAPAEAEDEEVARRLWAESARLVGLEAPSVREQLPR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138412

ORF Size: 780 bp

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.

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_138412.4](#)

RefSeq Size: 2006 bp

RefSeq ORF: 783 bp

Locus ID: 112724

UniProt ID: [Q8NBN7](#)

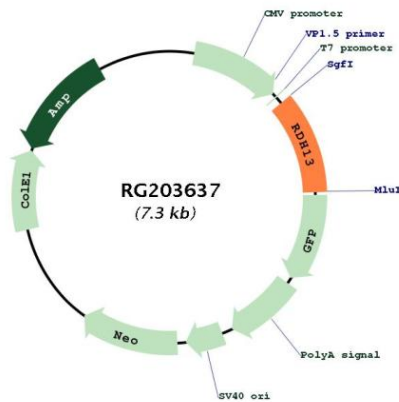
Cytogenetics: 19q13.42

Domains: adh_short

Protein Families: Druggable Genome

Gene Summary: 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]

Product images:



Circular map for RG203637