

Product datasheet for **RG201180**

DHRS3 (NM_004753) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DHRS3 (NM_004753) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DHRS3
Synonyms: DD83.1; RDH17; retSDR1; Rsdr1; SDR1; SDR16C1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201180 representing NM_004753
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGTGAAACGGCTGGGCGCGCTGGTGTGTTCCCTCTACAGATGATCTATCTGGTGGTGAAAGCAG
 CCGTCCGACTGGTGTGCCCGCAAGCTGCGGGACCTGTCGCGGGAGAACGTCTCATACCGCGCGCGG
 GAGAGGCATCGGGCGTCAGCTCGCCCGGAGTTCGCGGAGCGCGGCCAGAAAGATTGTTCTCTGGGGC
 CGGACTGAGAAATGCCTGAAGGAGACGACGGAGGAGATCCGGCAGATGGGCACTGAGTGCCATTACTTCA
 TCTGTGATGTGGCAACCGGGAGGAGGTGTACCAGACGGCAAGGCCGTCCGGGAGAAGGTGGGTGACAT
 CACCATCCTGGTGAACAATGCCCGCGTGGTCCATGGGAAGAGCCTAATGGACAGTGATGATGCCCTC
 CTCAAGTCCCAACACATCAACACCCTGGGCCAGTTCTGGACCACCAAGGCCCTTCTGCCGCGTATGCTGG
 AGCTGCAGAAATGGCCACATCGTGTGCCTCAACTCCGTGCTGGCACTGTCTGCCATCCCGGTGCCATCGA
 CTACTGCACATCCAAAGCGTCAGCCTTCGCCTTATGGAGAGCCTGACCCTGGGGCTGCTGGACTGTCCG
 GGAGTCAGCGCCACCACAGTGTGCCCTCCACACCAGCACCGAGATGTTCCAGGGCATGAGAGTCAGGT
 TTCCCAACCTCTTCCCCACTGAAGCCGGAGACGGTGGCCCGGAGGACAGTGGAAGCTGTGCAGCTCAA
 CCAGGCCCTCCTCCTCCCATGGACAATGCATGCCCTCGTTATCTTAAAAAGCATACTCCACAGGCT
 GCACTCGAGGAGATCCACAAATTCTCAGGAACCTACACCTGCATGAACACTTTCAAAGGGCGGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201180 representing NM_004753
 Red=Cloning site Green=Tags(s)

MVWKRLGALVMFPLQMIYLVVKAAGVLPAPKLRDL SRENVLITGGGRGIGRQLAREFAERGARKIVLWG
 RTEKCLKETTEEIRQMGTECHYFICDVGNREEVYQTAKAVREKVDITILVNNAAVVHGKSLMDSDDAL
 LKSQHINTLGQFWTTKAF LPRMLELQNGHIVCLNSVLALSAIPGAIDYCTSKASAF AFMESLTLGLLDCP
 GVSATTVLPFHTSTEMFQGMRVRFPNLFPPLKPE TVARRTVEAVQLNQALLLLPWTMHALVILKSILPQA
 AL EEIHKFSGTYTCMNTFKGRT

TRTRPLE - GFP Tag - V

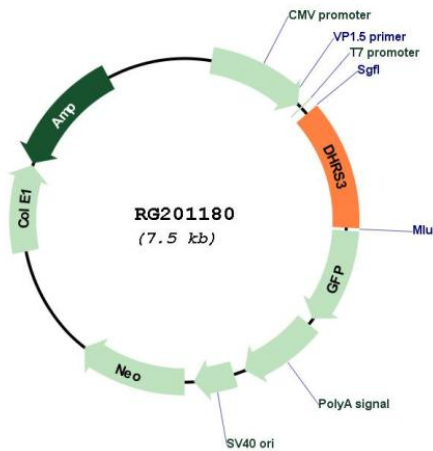
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_004753

ORF Size: 906 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:	<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_004753.7
RefSeq Size:	1825 bp
RefSeq ORF:	909 bp
Locus ID:	9249
UniProt ID:	O75911
Cytogenetics:	1p36.21
Domains:	adh_short
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Metabolic pathways, Retinol metabolism
Gene Summary:	Short-chain dehydrogenases/reductases (SDRs), such as DHRS3, catalyze the oxidation/reduction of a wide range of substrates, including retinoids and steroids (Haeseleer and Palczewski, 2000 [PubMed 10800688]).[supplied by OMIM, Jun 2009]