

## Product datasheet for **RG226895**

### DHRS9 (NM\_001142270) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DHRS9 (NM_001142270) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DHRS9
Synonyms:	3-alpha-HSD; 3ALPHA-HSD; RDH-E2; RDH-TBE; RDH15; RDHL; RDHTBE; RETSDR8; SDR9C4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226895 representing NM_001142270 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCTTTGGGTGCTAGGCCTCCTAATCCTCTGTGGTTTTCTGTGGACTCGTAAAGGAAACTAAAGA  
TTGAAGACATCACTGATAAGTACATTTTTATCACTGGATGTGACTCGGGCTTTGGAACTTGGCAGCCAG  
AACTTTTGATAAAAAGGGATTTTCATGTAATCGCTGCCTGTCTGACTGAATCAGGATCAACAGCTTTAAAG  
GCAGAAACCTCAGAGAGACTTCGTAAGTGTGCTTCTGGATGTGACCGACCCAGAGAATGTCAAGAGGACTG  
CCCAGTGGGTGAAGAACCAAGTTGGGAGAAAGTCTCTGGGTCTGATCAATAATGCTGGTGTCCCGG  
CGTGTGGCTCCCACTGACTGGCTGACACTAGAGGACTACAGAGAACCTATTGAAGTGAACCTGTTTGG  
CTCATCAGTGTGACACTAAATATGCTTCTTTGGTCAAGAAAGCTCAAGGGAGAGTTATTAATGTCTCCA  
GTGTTGGAGGTCGCTTGAATCGTTGGAGGGGCTATACTCCATCCAAATATGCAGTGGAGGTTTCAA  
TGACAGCTTAAGACGGGACATGAAAGCTTTTGGTGTGCACGTCTCATGCATTGAACCAGGATTGTTCAA  
ACAACTTGGCAGATCCAGTAAAGGTAATTGAAAAAACTCGCCATTTGGGAGCAGCTGTCTCCAGACA  
TCAAACAACAATATGGAGAAGTTACATTGAAAAAAGTCTAGACAACTGAAAGCAATAAATCCTATGT  
GAACATGGACCTCTCCGGTGGTAGAGTGCATGGACCAGCTCTAACAAGTCTTCCCTAAGACTCAT  
TATGCCCTGAAAAGATGCCAAAATTTCTGGATACCTCTGTCTCACATGCCAGCAGCTTTGCAAGACT  
TTTTATTGTTGAAACAGAAAGCAGAGCTGGCTAATCCCAAGGCAGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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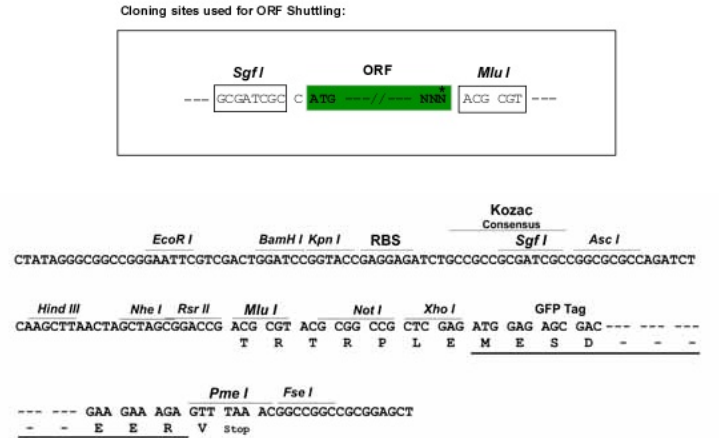
**Protein Sequence:** >RG226895 representing NM\_001142270  
Red=Cloning site Green=Tags(s)

MLFWVLGLLILCGFLWTRKGLKIEDITDKYIFITGCDSGFGNLAARTFDKKGHFHVAACLTESGSTALK  
 AETSERLRTVLLDVTDPENVKRTAQWVKNQVGEKGLWGLINNAGVPGVLAPTDWLTLEDYREPIEVNLFGL  
 LISVTLNMLPLVKKAQGRVINVSSVGGRLAIVGGGYTPSKYAVEGFNDSLRRDMKAFGVHVSCEIPLGFK  
 TNLADPVKVIIEKKLAIWEQLSPDIKQQYGEYIEKSLDKLKGKNSYVNMMDLSPVVECMDHALTSLFPKTH  
 YAAGKDAKIFWIPLSHMPAALQDFLLLKQKAE LANPKAV

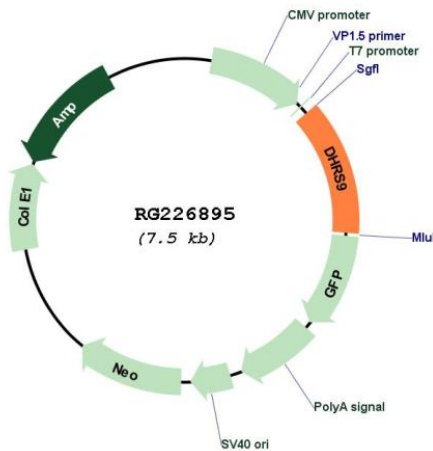
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001142270

**ORF Size:** 957 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_001142270.2</a>
<b>RefSeq Size:</b>	1760 bp
<b>RefSeq ORF:</b>	960 bp
<b>Locus ID:</b>	10170
<b>UniProt ID:</b>	<a href="#">Q9BPW9</a>
<b>Cytogenetics:</b>	2q31.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Retinol metabolism
<b>Gene Summary:</b>	This gene encodes a member of the short-chain dehydrogenases/reductases (SDR) family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. This protein demonstrates oxidoreductase activity toward hydroxysteroids and is able to convert 3-alpha-tetrahydroprogesterone to dihydroxyprogesterone and 3-alpha-androstanediol to dihydroxyprogesterone in the cytoplasm, and may additionally function as a transcriptional repressor in the nucleus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]