

## Product datasheet for **RG236146**

### DHRS4 (NM\_001282991) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DHRS4 (NM\_001282991) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** DHRS4  
**Synonyms:** CR; NRDR; PHCR; PSCD; SCAD-SRL; SDR-SRL; SDR25C1; SDR25C2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236146 representing NM\_001282991.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCACAAGGCGGGGCTGCTAGGCCTCTGTGCCGGGCTTGAATTCGGTGCGGATGCCAGCTCCGGG
ATGACCCGCCGGGACCCGCTCGCAAATAAGGTGGCCCTGGTAACGGCCTCCACCGACGGGATCGGCTTC
GCCATCGCCCGCGTGGCCAGGACGGGGCCCATGTGGTCGTCAGCAGCCGGAAGCAGCAGAATGTG
GACCAGGCGGTGGCCACGCTGCAGGGGGAGGGGCTGAGCGTGACGGGCACCGTGTCCATGTGGGGAAG
GCGGAGGACCGGAGCGGCTGGTGGCCACGCTCTGGATGGACAAGGAAAAAGAGGAAAGCATGAAAGAA
ACCTGCGGATAAGAAGTTAGGCGAGCCAGAGGATTGTGCTGGCATCGTGTCTTCTGTGCTCTGAA
GATGCCAGCTACATCACTGGGAAACAGTGGTGGTGGGTGGAGGAACCCCGTCCCGCCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236146  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MHKAGLLGLCARAWNSVRMASSGMTRRDPLANKVALVASTDGIGFAIARRLAQDGAHVVSRRKQNV
DQAVATLQGEGLSVTGTVCHVGKAEDRERLVATLWMDKEEESMKETLRIIRLGEPEDCAGIVSFLCSE
DASYITGETVVVGGGTPSRL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

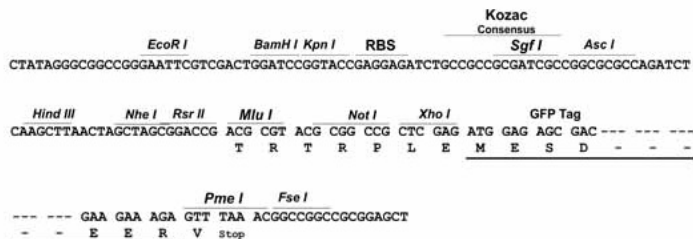
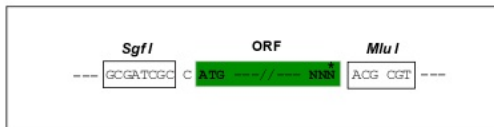
**Restriction Sites:** SgfI-MluI



[View online »](#)

**Cloning Scheme:**

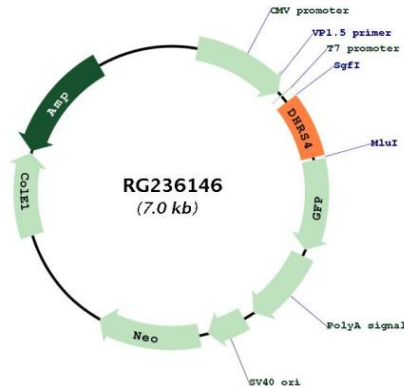
Cloning sites used for ORF Shutting:



<b>ACCN:</b>	NM_001282991
<b>ORF Size:</b>	474 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>RefSeq:</b>	<a href="#">NM_001282991.2</a>
<b>RefSeq Size:</b>	955 bp
<b>RefSeq ORF:</b>	477 bp
<b>Locus ID:</b>	10901
<b>UniProt ID:</b>	<a href="#">Q9BTZ2</a>
<b>Cytogenetics:</b>	14q11.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Retinol metabolism
<b>MW:</b>	17.3 kDa

**Gene Summary:**

Reduces all-trans-retinal and 9-cis retinal. Can also catalyze the oxidation of all-trans-retinol with NADP as co-factor, but with much lower efficiency. Reduces alkyl phenyl ketones and alpha-dicarbonyl compounds with aromatic rings, such as pyrimidine-4-aldehyde, 3-benzoylpyridine, 4-benzoylpyridine, menadione and 4-hexanoylpyridine. Has no activity towards aliphatic aldehydes and ketones (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**

Circular map for RG236146