

Product datasheet for **RG236504**

DHRS4 (NM_001282990) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DHRS4 (NM_001282990) 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: >RG236504 representing NM_001282990.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCACAAGGCGGGGCTGCTAGGCCTCTGTGCCGGGCTTGAATTCGGTGCGGATGCCAGCTCCGGG
ATGACCCGCCGGGACCCGCTCGCAAATAAGGTGGCCCTGGTAACGGCCTCCACCGACGGGATCGGCTTC
GCCATCGCCCGCGT TTTGGCCAGGACGGGGCCCATGTGGTCGTCAGCAGCCGGAAGCAGCAGAATGTG
GACCAGGCGGTGGCCACGCTGCAGGGGGAGGGGCTGAGCGTGACGGGCACCGTGTCCATGTGGGGAAG
GCGGAGGACCGGAGCGGCTGGTGGCCAGACTCTGGACATTAATGTGAAGGCCCCAGCCCTGATGACA
AAGGCAGTGGTGCCAGAAATGGAGAAACGAGGAGCGGCTCAGTGGTGATCGTGTCTTCCATAGCAGCC
TTCAGTCCATCTCCTCTCTGGATGGACAAGGAAAAGAGGAAAGCATGAAAGAAACCTGCGGATAAGA
AGGTTAGCGAGCCAGAGGATTGTGCTGGCATCGTGTCTTCTGTCTGAAGATGCCAGCTACATC
ACTGGGAAACAGTGGTGGTGGGTGGAGGAACCCCGTCCCGCCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236504
Blue=ORF Red=Cloning site Green=Tag(s)

```
MHKAGLLGLCARAWNSVRMASSGMTRRDPLANKVALVTASTDGIGFAIARRLAQDGAHVVVSSRKQQNV
DQAVATLQGEGLSVTGTVCHVGKAEDRERLVATLTDINVKAPALMTKAVVPEMEKRRGGSVVIVSSIAA
FSPSPLWMDKEKEESMKETLRIRRLGEPEDCAGIVSFLCEDASYITGETVVVGGGTPSRL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSPGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

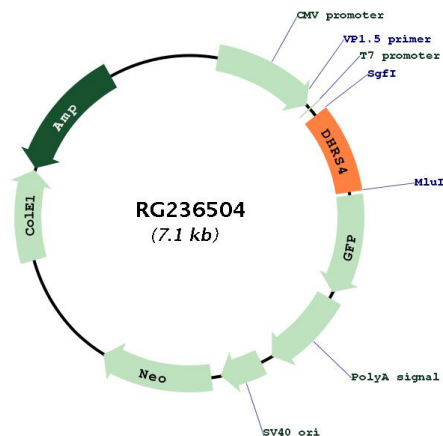
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001282990

ORF Size: 597 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).

RefSeq:	NM_001282990.2
RefSeq Size:	1078 bp
RefSeq ORF:	600 bp
Locus ID:	10901
UniProt ID:	Q9BTZ2
Cytogenetics:	14q11.2
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Retinol metabolism
MW:	21.5 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]