

Product datasheet for **RG236406**

DHRS4 (NM_001282987) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DHRS4 (NM_001282987) 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: >RG236406 representing NM_001282987.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCACAAGCGGGGCTGCTAGGCCTCTGTGCCGGGCTTGAATTCGGTGCGGATGCCAGCTCCGGG
ATGACCCGCCGGGACCCGCTCGCAAATAAGGTGGCCCTGGTAACGGCCTCCACCGACGGGATCGGCTTC
GCCATCGCCCGCGTGGCCAGGACGGGGCCCATGTGGTCGTCAGCAGCCGGAAGCAGAGAATGTG
GACCAGGCGGTGGCCACGCTGCAGGGGGAGGGCTGAGCGTGACGGGCACCGTGTCCATGTGGGAAG
GCGGAGGACCGGAGCGGCTGGTGGCCACGGCTGTGAAGCTTCATGGAGGTATCGATATCCTAGTCTCC
AATGCTGTGTCAACCTTTCTTTGGAAGCATAATGGATGTCCTGAGGAGGTGTGGACAAGAGGCGG
CTCAGTGGTGATCGTGTCTCCATAGCAGCCTTCACTCATCTCCTCTGGATGGACAAGGAAAAAGA
GGAAAGCATGAAAGAAACCCTGCCGATAAAGAGTTAGGCGAGCCAGAGGATTGTGCTGGCATCGTGTC
TTTCCTGTGCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236406
Blue=ORF Red=Cloning site Green=Tag(s)

```
MHKAGLLGLCARAWNSVRMASSGMTRRDPLANKVALVASTDGIgfAIARRLAQDGAHVYVSSRQQNV
DQAVATLQGEGLSVTGTVCHVGKAEDRERLVATAVKLHGGIDILVSNAAVNPFFGSIMDVTEEVWDKRR
LSGDRVFHSSLQSISSLDGQKRGKHERNPADKKVRRARGLCWHRVFPVL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001282987

ORF Size: 564 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_001282987.2](#)

RefSeq Size: 1109 bp

RefSeq ORF: 567 bp

Locus ID: 10901

UniProt ID: [Q9BTZ2](#)

Cytogenetics: 14q11.2

Protein Families: Druggable Genome

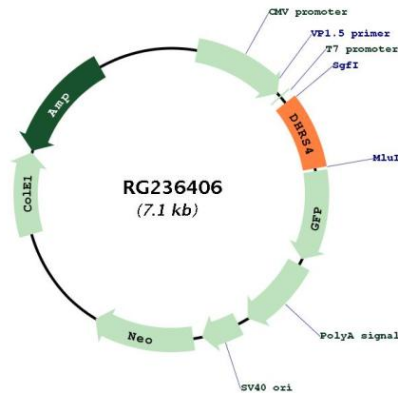
Protein Pathways: Metabolic pathways, Retinol metabolism

MW: 20.8 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 RG236406