

## Product datasheet for RC236406

### DHRS4 (NM\_001282987) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DHRS4 (NM\_001282987) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** DHRS4  
**Synonyms:** CR; NRDR; PHCR; PSCD; SCAD-SRL; SDR-SRL; SDR25C1; SDR25C2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236406 representing NM\_001282987  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCACAAGGCGGGGCTGCTAGGCCTCTGTGCCGGGCTTGAATTCGGTGCGGATGGCCAGCTCCGGGA  
 TGACCCCGCGGGACCCGCTCGCAAATAAGGTGGCCCTGGTAACGGCCTCCACCGACGGGATCGGCTTCGC  
 CATCGCCCGGCGTTTGGCCAGGACGGGGCCCATGTGGTCGTGACGAGCCGGAAGCAGCAGAATGTGGAC  
 CAGGCGGTGGCCACGCTGCAGGGGGAGGGGCTGAGCGTGACGGGCACCGTGTGCCATGTGGGAAGGCGG  
 AGGACCGGGAGCGGCTGGTGGCCACGGCTGTGAAGCTTCATGGAGGTATCGATATCCTAGTCTCCAATGC  
 TGCTGTCAACCTTTCTTTGGAAGCATAATGGATGTCCTGAGGAGGTGTGGACAAGAGGGCGGCTCAGT  
 GGTGATCGTGTCTTCATAGCAGCCTTCAGTCCATCTCCTCTCTGGATGGACAAGGAAAAAGAGGAAAGC  
 ATGAAAGAAACCTGCGGATAAGAAGGTTAGGCGAGCCAGAGGATTGTGCTGGCATCGTGTCTTCTCTGT  
 GCTC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236406 representing NM\_001282987  
 Red=Cloning site Green=Tags(s)

MHKAGLLGLCARAWNSVRMASSGMTRRDPLANKVALVASTDGIGFAIARRLAQDGAHVVVSSRKQQNVD  
 QAVATLQGEGLSVTGTVCHVGKAEDRERLVATAVKLHGGIDILVSNAAVNPFPGSIMDVTEEVWDKRRLS  
 GDRVFHSSLQSISSLDGQKRGKHERNPADKKVRRARGLCWHRVFPVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

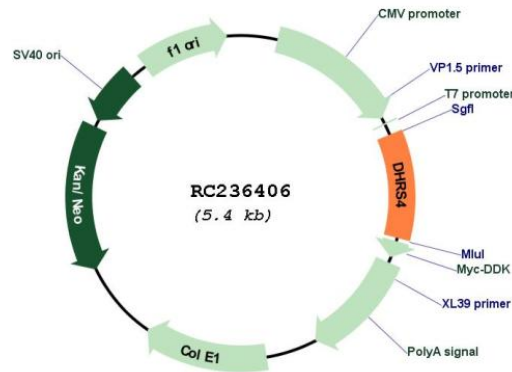


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Cloning Scheme:



Plasmid Map:



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).

**Reconstitution Method:**

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\\_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]