

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)

GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC **CGCATCGCC**
ATGCACAAGGCGGGGCTGCTAGGCCTCTGTGCCGGGCTTGAATTCGGTGCGGATGCCAGCTCCGGG
ATGACCCGCCGGGACCCGCTCGCAAATAAGGTGGCCCTGGTAACGGCCTCCACCGACGGGATCGGCTTC
GCCATCGCCCGCGT TTTGGCCCAGGACGGGGCCCATGTGGTCGTCAGCAGCCGGAAGCAGAGAATGTG
GACCAGGCGGTGGCCACGCTGCAGGGGGAGGGGCTGAGCGTGACGGGCACCGTGTCCATGTGGGGAAG
GCGGAGGACCGGAGCGGCTGGTGGCCACGGCTGTGAAGCTTCATGGAGGTATCGATATCCTAGTCTCC
AATGCTGTGTCAACCTTTCTTTGGAAGCATAATGGATGTCCTGAGGAGGTGTGGACAAGAGGCGG
CTCAGTGGTGATCGTGTCTTCCATAGCAGCCTTCACTCCATCTCCTCTCTGGATGGACAAGGAAAAGA
GGAAAGCATGAAAGAAACCCTGCCGATAAGAAGTTAGGCGAGCCAGAGGATTGTGCTGGCATCGTGTC
TTTCCTGTGCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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

MHKAGLLGLCARAWNSVRMASSGMTRRDPLANKVALVTASTDGIGFAIARRLAQDGAHVYVSSRKQQNV
DQAVATLQGEGLSVTGTVCHVGKAEDRERLVATAVKLHGGIDILVSNAAVNPFFGSIMDVTEEVWDKRR
LSGDRVFHSSLQSISSLDGQKRGKHERNPADKKVRRARGLCWHRVFPVL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI



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RefSeq:	<u>NM_001282987.2</u>
RefSeq Size:	1109 bp
RefSeq ORF:	567 bp
Locus ID:	10901
UniProt ID:	<u>Q9BTZ2</u>
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]