

Product datasheet for **RG236888**

DHRS4 (NM_001282988) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHRS4 (NM_001282988) 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:	>RG236888 representing NM_001282988. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCACAAGGCGGGGCTGCTAGGCCTCTGTGCCGGGCTTGAATTTCGGTGCGGATGGCCAGCTCCGGG
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GCCATCGCCCGCGTTCGGCCAGGACGGGGCCCATGTGGTCGTCAGCAGCCGGAAGCAGCAGAATGTG
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TTAGGCGAGCCAGAGGATTGTGCTGGCATCGTGTCTTCTGTGCTCTGAAGATGCCAGCTACATCACT
GGGAAACAGTGGTGGTGGTGGAGGAACCCCGTCCCGCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236888
 Blue=ORF Red=Cloning site Green=Tag(s)

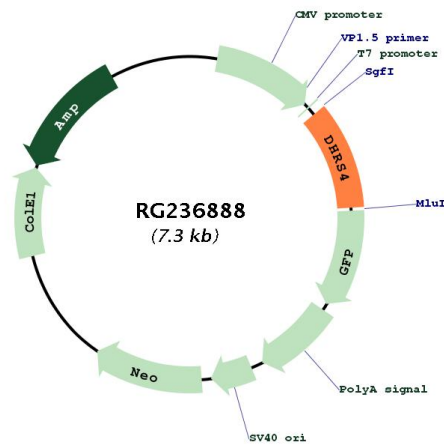
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 FSPSPGFSPYVSKTALLGLTKLAIELAPRNIRVNCLAPGLIKTSFSRMLWMDKEEKESMKETLRIR
 LGEPEDCAGIVSFLCSEDASYITGETVVVGGGTPSRL
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282988

ORF Size:	732 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_001282988.2
RefSeq Size:	1213 bp
RefSeq ORF:	735 bp
Locus ID:	10901
UniProt ID:	Q9BTZ2
Cytogenetics:	14q11.2
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Retinol metabolism
MW:	26.3 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]