

Product datasheet for **SC319893**

DHRS4 (NM_021004) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHRS4 (NM_021004) Human Untagged Clone
Tag:	Tag Free
Symbol:	DHRS4
Synonyms:	CR; NRDR; PHCR; PSCD; SCAD-SRL; SDR-SRL; SDR25C1; SDR25C2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_021004.2
GCTGGAAGGAGTGAACCCAGACTTGCTGGTCTGATCCATGCACATGGCCAGGCTGCTAG
GCCTCTGTGCCTGGGCACGGAAGTCGGTGCCTGGCCAGCTCCAGGATGACCCGCCGG
ACCCGCTCACAAATAAGGTGGCCCTGGTAACGGCCTCCACCGACGGGATCGGCTTCGCCA
TCGCCCCGCGTTTTGGCCAGGACAGGGCCACGTGGTCTGTCAGCAGCCGGAAGCAGCAGA
ATGTGGACCAGGCGGTGGCCACGCTGCAGGGGGAGGGGCTGAGCGTGACGGGCACTGTGT
GCCATGTGGGAAAGGCGGAGGACCGGGAGCGGCTGGTGGCCATGGCTGTGAAGCTTCATG
GAGGTATCGATATCCTAGTCTCCAATGCTGCTGTCAACCTTTCTTTGGAAGCCTAATGG
ATGTCACCGAGGAGGTGTGGACAAGACTCTGGACATTAATGTGAAGGCCCCAGCCCTGA
TGACAAAGGCAGTGGTGCAGAAATGGAGAAACGAGGAGGCGGCTCAGTGGTGATCGTGT
CTTCCATAGCAGCCTTCAGTCCATCTCCTGGCTTCAGTCTTACAATGTCAGTAAACAG
CCTTGCTGGGCCTCAACAATACCCTGGCCATAGAGCTGGCCCAAGGAACATTAGGGTGA
ACTGCCTGCACCTGGACTTATCAAGACTAGCTTCAGCAGGATGCTCTGGATGGACAAGGA
AAAAGAGGAAAGCATGAAAGAAACCTGCGGATAAGAAGGTTAGGCGAGCCAGAGGATTG
TGCTGGCATCGTGTCTTTCTGTGCTCTGAAGATGCCAGCTACATCACTGGGAAACAGT
GGTGGTGGGTGGAGGAACCCCGTCCCGCCTCTGAGGACCGGGAGACAGCCACAGGCCAG
AGTTGGCTCTAGCTCCTGGTGTGTTCCCGCATTACCCACTGGCCTTTCCACCTCTG
CTCACCTTACTGTTACCTCATAAAATCAGTTCTGCCCTGTGAAAAGATCCAGCCTTCCC
TGCCGTTCAAGGTGGCGTCTTACTCGGGATTTCTGCTGTTGTTGTGGCCTTGGGTAAGGC
CTCCCCTGAGAACACAGGACAGGCTGCTGACAAGGCTGAGTCTACCTTGCAAAGACCA
AGATATTTTTTCCCGGGCCACTGGGAATCTGAGGGGTGATGGGAGAGAAGGAACCTGGA
GTGGAAGGAGCAGAGTTGCAAATTAACAACCTGCAAATGAGGTGCAAATAAAATGCAGAT
GATTGCGCGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_021004



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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:	<u>NM_021004.2, NP_066284.2</u>
RefSeq Size:	1289 bp
RefSeq ORF:	837 bp
Locus ID:	10901
UniProt ID:	<u>Q9BTZ2</u>
Cytogenetics:	14q11.2
Domains:	adh_short
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Retinol metabolism
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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).