

## Product datasheet for **SC334782**

### DHRS4 (NM\_001282988) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | DHRS4 (NM_001282988) 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-Entry (PS100001)   |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_001282988, the custom clone sequence may differ by one or more nucleotides |

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ATGCACAAGGCGGGGCTGCTAGGCCTCTGTGCCGGGCTTGAATTTCGGTGCGGATGGCCAGCTCCGGGA  
TGACCCGCGGGACCCGCTCGCAAATAAGGTGGCCCTGGTAACGGCCTCCACCGACGGGATCGGCTTCGC  
CATCGCCCGCGTTTGGCCAGGACGGGGCCATGTGGTCGTGAGCAGCCGGAAGCAGCAGAATGTGGAC  
CAGGCGGTGGCCACGCTGCAGGGGGAGGGGCTGAGCGTGACGGGCACCGTGTGCCATGTGGGAAGGCGG  
AGGACCGGGAGCGGCTGGTGGCCACGACTCTGGACATTAATGTGAAGGCCCCAGCCCTGATGACAAAGGC  
AGTGGTGCCAGAAATGGAGAAACGAGGAGGCGGCTCAGTGGTGATCGTGTCTTCCATAGCAGCCTTCAGT  
CCATCTCCTGGCTTCAGTCCTTACAATGTCAGTAAAACAGCCTTGCTGGGCTGACCAAGACCCTGGCCA  
TAGAGCTGGCCCCAAGGAACATTAGGGTGAAGTGCCTAGCACCTGGACTTATCAAGACTAGCTTCAGCAG  
GATGCTCTGGATGGACAAGGAAAAAGAGAAAGCATGAAAGAAACCCTGCGGATAAGAAGTTAGGCGAG  
CCAGAGGATTGTGCTGGCATCGTGTCTTCTGTGCTCTGAAGATGCCAGCTACATCACTGGGAAACAG  
TGGTGGTGGTGGAGGAACCCCGTCCCGCCTCTGA
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|--------------------|--|
| Restriction Sites: | Sgfl-MluI  |
| ACCN:              | NM_001282988   |
| 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). |



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|-------------------------------|--|
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <u>NM_001282988.1, NP_001269917.1</u>  |
| <b>RefSeq Size:</b>           | 1213 bp  |
| <b>RefSeq ORF:</b>            | 735 bp   |
| <b>Locus ID:</b>              | 10901  |
| <b>UniProt ID:</b>            | <u>Q9BTZ2</u>  |
| <b>Cytogenetics:</b>          | 14q11.2  |
| <b>Protein Families:</b>      | Druggable Genome   |
| <b>Protein Pathways:</b>      | Metabolic pathways, Retinol metabolism   |
| <b>Gene Summary:</b>          | 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]<br>Transcript Variant: This variant (3) lacks an alternate coding exon, but maintains the reading frame, compared to variant 1. The encoded isoform (3) is shorter than isoform 1. |