

## Product datasheet for **SC336924**

### Hydroxysteroid (17 beta) Dehydrogenase 4 (HSD17B4) (NM\_001292028) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hydroxysteroid (17 beta) Dehydrogenase 4 (HSD17B4) (NM_001292028) Human Untagged Clone
Tag:	Tag Free
Symbol:	HSD17B4
Synonyms:	DBP; MFE-2; MFP-2; MPF-2; PRLTS1; SDR8C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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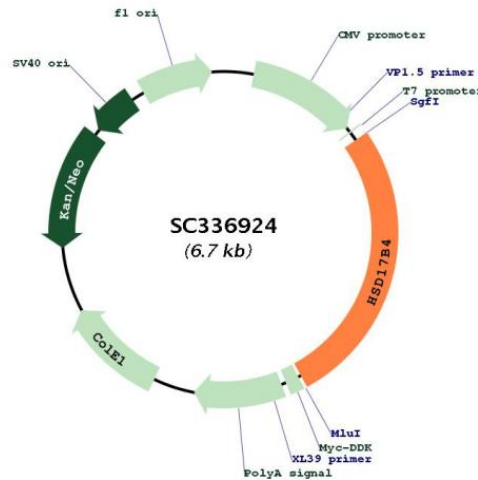
**Fully Sequenced ORF:** >SC336924 representing NM\_001292028.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAAGAAACAGAAGATTATTATGACTTCATCAGCTTCAGGAATATATGGCAACTTTGGCCAGGCCAAT
TATAGTGTCTGCAAAGTTGGGTCTTCTGGGCCTTGCAAATCTCTTGAATTGAAGGCAGGAAAAGCAAC
ATTCATTGTAACACCATTGCTCCTAATGCGGGATCACGGATGACTCAGACAGTTATGCCTGAAGATCTT
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GCCAGAGGGAACATCATGCTGAGCCAGAACTTCAGATGATTCTTAAAGACTACGCCAAGCTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** Sgfl-Mlul

**Plasmid Map:**



**ACCN:** NM\_001292028

**Insert Size:** 1791 bp

**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).

**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\\_001292028.1](#)

**RefSeq Size:** 2835 bp

**RefSeq ORF:** 1791 bp

**Locus ID:** 3295

**UniProt ID:** [P51659](#)

**Cytogenetics:** 5q23.1

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Primary bile acid biosynthesis

**MW:** 64.6 kDa

**Gene Summary:** The protein encoded by this gene is a bifunctional enzyme that is involved in the peroxisomal beta-oxidation pathway for fatty acids. It also acts as a catalyst for the formation of 3-ketoacyl-CoA intermediates from both straight-chain and 2-methyl-branched-chain fatty acids. Defects in this gene that affect the peroxisomal fatty acid beta-oxidation activity are a cause of D-bifunctional protein deficiency (DBPD). An apparent pseudogene of this gene is present on chromosome 8. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2014]

Transcript Variant: This variant (5) lacks an exon in the 5' region, which causes translation initiation at a downstream start codon, and also has an alternate splice site in the coding region, compared to variant 1. The resulting isoform (5) has a shorter N-terminus and lacks an internal segment, compared to isoform 1.