

## Product datasheet for **RC239030**

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

#### Product data:

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



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**ORF Nucleotide Sequence:**

>RC239030 representing NM\_001292028  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGAAACAGAAGATTATTATGACTTCATCAGCTTCAGGAATATATGGCAACTTTGGCCAGGCCAATT  
 ATAGTGCTGCAAAGTTGGGTCTTCTGGGCTTGCAAATCTCTTGCAATTGAAGGCAGGAAAAGCAACAT  
 TCATTGTAACACCATTGCTCCTAATGCGGGATCACGGATGACTCAGACAGTTATGCCTGAAGATCTTG  
 GAAGCCCTGAAGCCAGAGTATGTGGCACCTCTGTCTTTGGCTTTGTCACGAGAGTTGTGAGGAGAATG  
 GTGGCTTGTGAGGTTGGAGCAGGATGGATTGGAAAAATACGCTGGGAGCGGACTCTTGGAGCTATTGT  
 AAGACAAAAGAATCACCCAATGACTCCTGAGGCAGTCAAGGCTAACTGGAAGAAGATCTGTGACTTTGAG  
 AATGCCAGCAAGCCTCAGAGTATCCAAGAATCACTGGCAGTATAATTGAAGTTCTGAGTAAAATAGATT  
 CAGAAGGAGGAGTTTCAGCAAATCATACTAGTCGTGCAACGTCTACAGCAACATCAGGATTTGCTGGAGC  
 TATTGGCCAGAACTCCCTCCATTTTCTATGCTTATACGGAACGGAAGCTATTATGTATGCCCTTGG  
 GTGGGAGCGTCAATCAAGGATCCAAAAGATTTGAAATTTATTTATGAAGGAAGTTCTGATTTCTCCTGTT  
 TGCCACCTTCGGAGTTATCATAGGTGAGAAATCTATGATGGGTGGAGGATTAGCAGAAATTCCTGGACT  
 TTCAATCAACTTTGCAAAGGTTCTTATGGAGAGCAGTACTTAGAGTTATATAAACCACTTCCCAGAGCA  
 GGAAAAATAAAATGTGAAGCAGTTGTTGCTGATGTCCTAGATAAAGGATCCGGTGTAGTGATTATTATGG  
 ATGTCTATTCTTATTCTGAGAAGGAACTTATATGCCACAATCAGTTCTCTCTCTTCTTGTGGCTCTGG  
 AGGCTTTGGTGGAAAACGGACATCAGACAAAGTCAAGGTAGCTGTAGCCATACCTAATAGACCTCCTGAT  
 GCTGTACTTACAGATACCACCTCTTAAATCAGGCTGCTTTGTACCGCCTCAGTGGAGACTGGAATCCCT  
 TAGCATTTGATCCTAACTTTGCTAGTCTAGCAGGTTTTGACAAGCCCATATTACATGGATTATGTACATT  
 TGGATTTTCTGCCAGGCGTGTGTTACAGCAGTTTGCAGATAATGATGTGTCAAGATTCAAGGCAATTAAG  
 GCTCGTTTTGCAAACCAGTATATCCAGGACAACTCTACAAACTGAGATGTGGAAGGAAGGAAACAGAA  
 TTCATTTTCAAACCAAGGTCCAAGAACTGGAGACATTGTCATTTCAAATGCATATGTGGATCTTGACCC  
 AACATCTGGTACTTCAGCTAAGACACCCTCTGAGGGCGGGAAGCTTCAGAGTACCTTTGTATTTGAGGAA  
 ATAGGACGCCCTAAAGGATATTGGGCTGAGGTGGTGAAGAAAGTAAATGCTGTATTTGAGTGGCATA  
 TAACCAAAGGCGGAAATATTGGGCTAAGTGGACTATTGACCTGAAAAGTGGTCTGAAAAGTGTACCA  
 AGGCCCTGCAAAGGTGCTGCTGATACAACAATCATACTTTCAGATGAAGATTTTCATGGAGGTGGTCTG  
 GGCAAGCTTGACCCTCAGAAGGCATTCTTATGTCAGGCTGAAGGCCAGAGGGAACATCATGCTGAGCC  
 AGAAACTTCAGATGATTCTTAAAGACTACGCCAAGCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239030 representing NM\_001292028  
 Red=Cloning site Green=Tags(s)

MKKQKIIMTSSASGIYGNFQANYSAAKLGLLGLANSLAIEGRKSNHCNTIAPNAGSRMTQTVMPEDLV  
 EALKPEYVAPLVLWLCHESCEENGLFEVGAGWIGKLRWERTLGAIVRQKNHPMTPEAVKANWKKICDFE  
 NASKPQSIQESTGSIIEVL SKIDSEGGVSANHTSRATSTATSGFAGAIGQKLPFYSYAYTELEAIMYALG  
 VGASIKDPKDLKFIYEGSSDFSLPTFGVIIGQKSMGGGLAEIPGLSINFQKVLHGEQYLELYKPLPRA  
 GKLLKCEAVVADVLDKSGSVVIMDVYSYSEKELICHNQFSLFLVSGGGFGGKRTSDKVKVAVAIIPNRPPD  
 AVLTDTTSLNQAALYRLSGDWNPLHIDPNFASLAGFDKPIHLGLCTFGFSARRVLQFADNDVSRFKAIK  
 ARFAKPVYPGQTLQTEMWKEGNRIHFQTKVQETGDIVISNAYVDLAPTSAGTSAKTPSEGGKQSTFVFEE  
 IGRRLKDIGPEVVKKVNAVFEWHITKGGNIGAKWTIDLKSGSGKVVYQGPAGKAADTTIILSDEFMEVVL  
 GKLDPQKAFFSGRLKARGNIMLSQKLQMLKDYAKL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

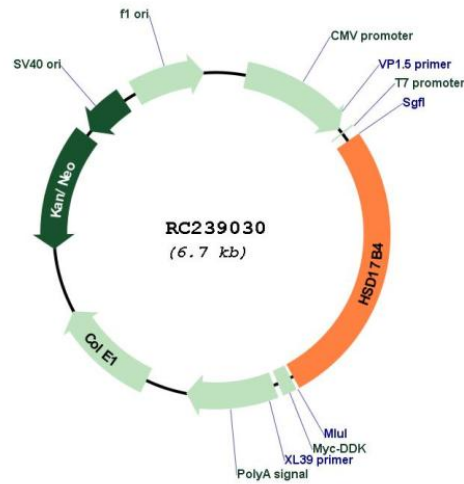
**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001292028  
 ORF Size: 1788 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001292028.2</a>
<b>RefSeq Size:</b>	2835 bp
<b>RefSeq ORF:</b>	1791 bp
<b>Locus ID:</b>	3295
<b>UniProt ID:</b>	<a href="#">P51659</a>
<b>Cytogenetics:</b>	5q23.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Primary bile acid biosynthesis
<b>MW:</b>	65 kDa
<b>Gene Summary:</b>	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]