

## Product datasheet for **RC205941**

### **HSD17B11 (NM\_016245) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HSD17B11 (NM_016245) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HSD17B11
Synonyms:	17-BETA-HSD11; 17-BETA-HSDXI; 17BHSD11; DHRS8; PAN1B; RETSDR2; SDR16C2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205941 representing NM_016245 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAATTTCTTCTGGACATCCTCCTGCTTCTCCCGTTACTGATCGTCTGCTCCCTAGAGTCCTTCGTGA  
AGCTTTTTATTCCCTAAGAGGAGAAAATCAGTCACCGGCGAAAATCGTGCTGATTACAGGAGCTGGGCATGG  
AATTGGGAGACTGACTGCCTATGAATTTGCTAAACTTAAAAGCAAGCTGGTTCTCTGGGATATAAATAAG  
CATGGACTGGAGGAAACAGCTGCCAAATGCAAGGGACTGGGTGCCAAGGTTCATACTTTGTGGTAGACT  
GCAGCAACCGAGAAGATATTTACAGCTCTGCAAAGAAGGTGAAGGCAGAAATGGAGATGTTAGTATTTT  
AGTAAATAATGCTGGTGTAGTCTATACATCAGATTTGTTTGTACACAAGATCCTCAGATTGAAAAGACT  
TTTGAAGTTAATGTAATTGCACATTTCTGGACTACAAAGGCATTTCTTCCTGCAATGACGAAGAATAACC  
ATGGCCATATTGCACTGTGGCTTCGGCAGCTGGACATGTTTCGGTCCCCTTCTTACTGGCTTACTGTTC  
AAGCAAGTTTGTCTGCTGTTGGATTTCAAAAACCTTTGACAGATGAACTGGCTGCCTTACAAAATACTGGA  
GTCAAAAACAACATGTCTGTGCTAATTTGTAACACTGGCTTCATCAAAAATCCAAGTACAAGTTTGG  
GACCCACTCTGGAACCTGAGGAAGTGGTAAACAGGCTGATGCATGGGATTCTGACTGAGCAGAAGATGAT  
TTTTATTCCATCTTCTATAGCTTTTTTAACAACATTGGAAGGATCCTTCCTGAGCGTTTCTCTGGCAGTT  
TAAAACGAAAAATCAGTGTTAAGTTTGATGCAGTTATTGGATATAAAAATGAAAGCGCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC205941 representing NM\_016245  
Red=Cloning site Green=Tags(s)

MKFLLDILLLLPLLIVCSLESFVKLFIPKRRKSVTGEIVLITGAGHGIGRLTAYEFALKKSKLVLDINK  
 HGLEETAACKCKGLGAKVHTFVVDSCNREDIYSSAKVKVKAIEIGDVSILVNNAGVVYTSDLFATQDPQIEKT  
 FEVNVLAHFWTTKAFLPAMTKNNHGHIVTVASAAGHVSVPFLLAYCSSKFAAVGFHKLTDELAALQITG  
 VKTTCLCPNFVNTGFIKPNPSTSLGPTLEPEEVNRLMHGILTEQKMIFIPSSIAFLTTLERILPERFLAV  
 LKRKISVKFDVAIVGYKMKAAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3219\\_b01.zip](https://cdn.origene.com/chromatograms/mg3219_b01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016245

**ORF Size:** 900 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).

**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\\_016245.5](#)

**RefSeq Size:** 1701 bp

**RefSeq ORF:** 903 bp

**Locus ID:** 51170

**UniProt ID:** [Q8NBQ5](#)

**Cytogenetics:** 4q22.1

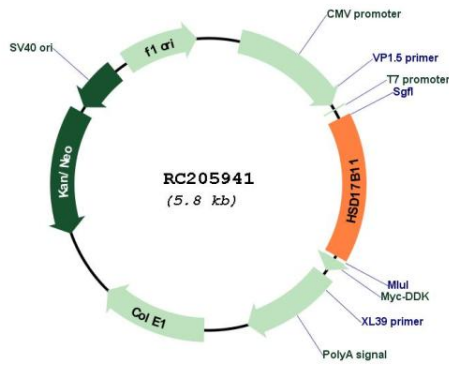
**Domains:** adh\_short

**Protein Families:** Druggable Genome, Secreted Protein

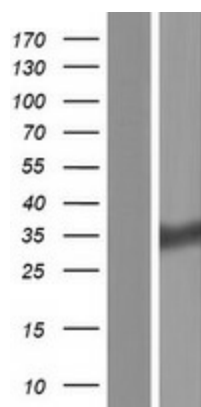
**MW:** 32.8 kDa

**Gene Summary:** Short-chain alcohol dehydrogenases, such as HSD17B11, metabolize secondary alcohols and ketones (Brereton et al., 2001 [PubMed 11165019]).[supplied by OMIM, Jun 2009]

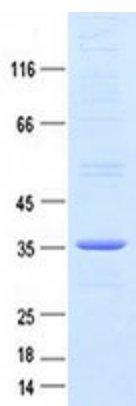
**Product images:**



Circular map for RC205941



Western blot validation of overexpression lysate (Cat# [LY414088]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205941 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HSD17B11 protein (Cat# [TP305941]). The protein was produced from HEK293T cells transfected with HSD17B11 cDNA clone (Cat# RC205941) using MegaTran 2.0 (Cat# [TT210002]).