

Product datasheet for **RR202794**

Hsd17b8 (NM_212529) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hsd17b8 (NM_212529) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hsd17b8
Synonyms: Fabgl; Ke6; RING2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR202794 representing NM_212529
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGTCTCAGCTCCGGCTCCGTTCCGCGCTGGCCCTGGTCACAGGTGCGGGTAGCGGCATCGGTCGTG
CGATCAGCGTGCCTAGCGGCAGAGGGCGCCGAGTGGCCGCTGCGACCTGGACGGGGCAGCGGCACA
GGACACGGTGCCTGCTGGGAAACCCAGGGAGCGAGGACAGGGAGCCGCGGGGAAGCAGCTGCCTTC
CAGGGCGGACGTGTCGAGGGCCCGCAGCCAAACGCTGCTGGAGCAAGTGCAGGCTGCTTTTTTCGCC
CGCCATCTGTCGTTGTGTCTGTGCGGGCATCACACGCGATGAGTTTCTGCTCCACATGTCAGAAGAAGA
CTGGGACAGATCATAGCTGTGAACCTCAAGGGCACCTTCTAGTCACTCAGGCTGCCGCCAGGCATTG
GTGTCCAGTGGCGGTCGTGGCTCCATCATCAACATTAGTAGCATCGTTGGAAAGGTGGGGAATATTGGAC
AAACAAATTATGCGTCTCCAAAGCAGGAGTGATTGGGCTCACCCAGACTGCAGCCCGGGAGCTTGGACG
TCATGGAATTCGATGTAACCTCAGTCCTCCAGGGTTTATTGCAACGCCCATGACCCAGAAAATGCCAGAG
AAAGTGAAGGACAAGGTAACCTGCAATGATTCGTTGGGACACATGGGGACCCCTGAGGATGTAGCAGATG
TGGTTGCGTTCTGGCATCAGAAGACAGTGGATACATCACAGGGGCTCCGTGGAAGTCAGTGGAGGTCT
TTTCATG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR202794 representing NM_212529
Red=Cloning site Green=Tags(s)

MASQLRLRSALALVTGAGSGIGRAISVRLAAEGAAVAACDLGAAAQDTVRLGPNPGEEDREPRGKHAAF
 QADVSEGPAAKRLLLEQVQACFFRPPSVVVCAGITRDEFLLHMSEEDWDRVIAVNLKGTFLVTQAAAQAL
 VSSGGRGSIINISSIIVGKVGNIQTNYASSKAGVIGLTQTAARELGRHGIRCNVLPGF IATPMTQKMP E
 KVKDKVTAMIPLGHMGPEDVADVVAFLASEDSGYITGASVEVSGGLFM

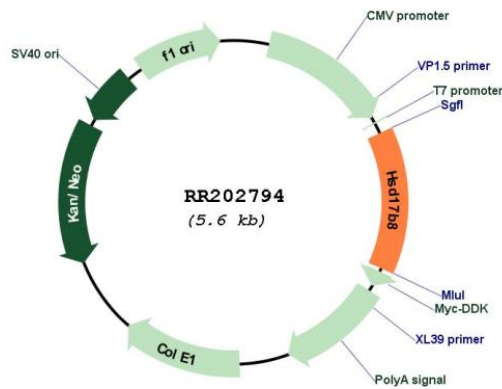
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_212529

ORF Size: 777 bp

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| 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: | <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: | NM_212529.1 , NP_997694.1 |
| RefSeq Size: | 970 bp |
| RefSeq ORF: | 780 bp |
| Locus ID: | 361802 |
| UniProt ID: | Q6MGB5 |
| Cytogenetics: | 20p12 |
| MW: | 26.8 kDa |
| Gene Summary: | NAD-dependent 17-beta-hydroxysteroid dehydrogenase with highest activity towards estradiol. Has very low activity towards testosterone. The heterotetramer with CBR4 has NADH-dependent 3-ketoacyl-acyl carrier protein reductase activity, and thereby plays a role in mitochondrial fatty acid biosynthesis. Within the heterotetramer, HSD17B8 binds NADH; CBR4 binds NADPD.[UniProtKB/Swiss-Prot Function] |