

## Product datasheet for **RG203806**

### HSD17B8 (NM\_014234) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HSD17B8 (NM_014234) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSD17B8
Synonyms:	D6S2245E; dj1033B10.9; FABG; FABGL; H2-KE6; HKE6; KE6; RING2; SDR30C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203806 representing NM_014234 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGCGTCTCAGCTCCAGAACCGACTCCGCTCCGCACTGGCCTTGGTCACAGGTGCGGGAGCGGCATCGGCCGAGCGGTCACTGTACGCCTGGCCGGAGAGGGGGCCACCGTAGCTGCCTGCGACTGGACCGGGCAGCGCACAGGAGACGGTCCGGCTGCTGGCGGGCCAGGGAGCAAGGAGGGGCCCGCCCGAGGGAACCATGCTGCCTCCAGGCTGACGTGTCTGAGGCCAGGGCCCGAGGTGCCTGCTGGAACAAGTGCAGGCCTGCTTTCTCGCCCACCATCTGTCGTTGTGTCCTGTGCGGGCATCACCCAGGATGAGTTTCTGCTGCACATGTCTGAGGATGACTGGGACAAAGTCATAGCTGTCAACCTCAAGGGCACCTTCTAGTCACTCAGGCTGCAGCACAA GCCCTGGTGTCCAATGGTTGTCGTGGTTCCATCATCAACATCAGTAGCATCGTAGGAAAGTGGGGAACG TGGGGCAGACAAACTATGCAGCATCCAAGGCTGGAGTGATTGGGCTGACCCAGACCCGAGCCCGGGAGCT TGGACGACATGGGATCCGCTGTAACCTGTCTCCAGGGTTCATTGCAACCCCATGACACAGAAAGTG CCACAGAAAGTGGTGGACAAGATTACTGAAATGATCCCGATGGGACACTTGGGGACCCTGAGGATGTGG CAGATGTGGTCCGATTCTTGGCATCTGAAGATAGTGGATACATCACAGGGACCTCAGTGGAAAGTCACTGG AGGTCTTTTCATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203806 representing NM\_014234  
Red=Cloning site Green=Tags(s)

MASQLQNRLRSALALVTGAGSGIGRAVSVRLAGEGATVAACDLDRAAAQETVRLLGPGSKEGPPRGNHA  
 AFQADVSEARAARCLLEQVQACFSRPPSVVVSCAGITQDEFLLHMSEDDWDKVIAVNLKGTFLVTQAAAQ  
 ALVSNCGRGSIIINISSIVGKVGNGVGTNYAASKAGVIGLTQTAARELGRHGIRCNSVLPGF IATPMTQKV  
 PQKVVDKITEMIPMGLGDPEDVADVVAFLASEDSGYITGTSVEVTGGLFM

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014234

**ORF Size:** 783 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\\_014234.5](#)

**RefSeq Size:** 989 bp

**RefSeq ORF:** 786 bp

**Locus ID:** 7923

**UniProt ID:** [Q92506](#)

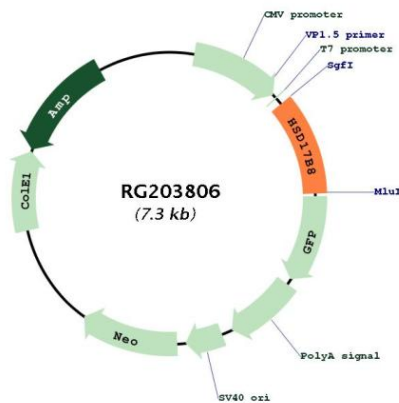
**Cytogenetics:** 6p21.32

**Protein Families:** Druggable Genome

**Protein Pathways:** Androgen and estrogen metabolism, Metabolic pathways

**Gene Summary:** In mice, the Ke6 protein is a 17-beta-hydroxysteroid dehydrogenase that can regulate the concentration of biologically active estrogens and androgens. It is preferentially an oxidative enzyme and inactivates estradiol, testosterone, and dihydrotestosterone. However, the enzyme has some reductive activity and can synthesize estradiol from estrone. The protein encoded by this gene is similar to Ke6 and is a member of the short-chain dehydrogenase superfamily. An alternatively spliced transcript of this gene has been detected, but the full-length nature of this variant has not been determined. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG203806