

## Product datasheet for **RC203539**

### ERAB (HSD17B10) (NM\_001037811) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | ERAB (HSD17B10) (NM_001037811) Human Tagged ORF Clone   |
| Tag:                      | Myc-DDK   |
| Symbol:                   | ERAB  |
| Synonyms:                 | 17b-HSD10; ABAD; CAMR; DUPXp11.22; ERAB; HADH2; HCD2; HSD10MD; MHBD; MRPP2; MRX17; MRX31; MRXS10; SCHAD; SDR5C1 |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >RC203539 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s)   |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCAGCGTGTCCGAGCGTGAAGGGCCTGGTGGCGTAATAACCGGAGGAGCCTCGGGCCTGGGCC  
TGGCCACGGCGGAGCGACTTGTGGGGCAGGGAGCCTCTGCTGTGCTTCTGGACCTGCCAACTCGGGTGG  
GGAGGCCAAGCCAAGAAGTTAGGAAACAACCTGCGTTTTTCGCCCCAGCCGACGTGACCTCTGAGAAGGAT  
GTGCAAACAGCTCTGGCTCTAGCAAAAGGAAAGTTTGGCCGTGTGGATGTAGCTGTCAACTGTGCAGGCA  
TCGCGGTGGCTAGCAAGACGTACAACCTAAAGAAGGGCCAGACCCATACCTTGAAGACTTCCAGCGAGT  
TCTTGATGTGAATCTCATGGGCACCTTCAATGTGATCCGCCTGGTGGCTGGTGGATGGCCAGAATGAA  
CCAGACCAGGGAGGCCAACGTGGGTGTCATCAACACTGCCAGTGTGGCTGCCTTCGAGGGTCAGTTG  
GACAAGCTGCATACTCTGCTTCCAAGGGGGGAATAGTGGGCATGACACTGCCATTGCTCGGGATCTGGC  
TCCCATAGGTCTGTTTGGCACCCCACTGCTGACCAGCCTCCCAGAGAAAGTGTGCAACTTCTTGGCCAGC  
CAAGTGCCCTTCCCTAGCCGACTGGGTGACCCTGCTGAGTATGCTCACCTCGTACAGGCCATCATCGAGA  
ACCCATTCTCAATGGAGAGTTCATCCGGCTGGATGGGGCCATTCGTATGCAGCCT

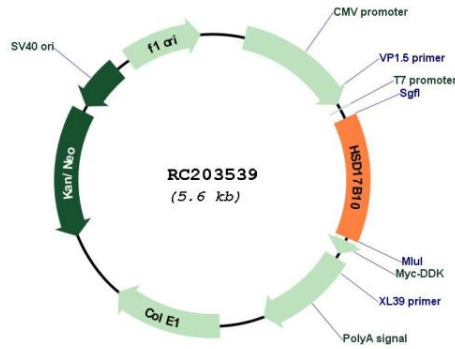
**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



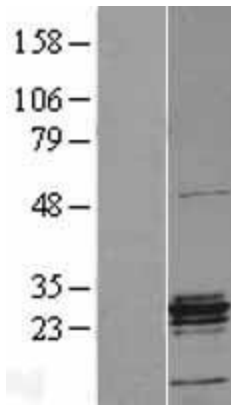


|                               |   |
|-------------------------------|---|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate 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_001037811.2</a> , <a href="#">NP_001032900.1</a>   |
| <b>RefSeq Size:</b>           | 936 bp  |
| <b>RefSeq ORF:</b>            | 759 bp  |
| <b>Locus ID:</b>              | 3028  |
| <b>UniProt ID:</b>            | <a href="#">Q99714</a>  |
| <b>Cytogenetics:</b>          | Xp11.22   |
| <b>Protein Families:</b>      | Druggable Genome  |
| <b>Protein Pathways:</b>      | Alzheimer's disease, Metabolic pathways, Valine, leucine and isoleucine degradation   |
| <b>MW:</b>                    | 26 kDa  |
| <b>Gene Summary:</b>          | <p>This gene encodes 3-hydroxyacyl-CoA dehydrogenase type II, a member of the short-chain dehydrogenase/reductase superfamily. The gene product is a mitochondrial protein that catalyzes the oxidation of a wide variety of fatty acids and steroids, and is a subunit of mitochondrial ribonuclease P, which is involved in tRNA maturation. The protein has been implicated in the development of Alzheimer disease, and mutations in the gene are the cause of 17beta-hydroxysteroid dehydrogenase type 10 (HSD10) deficiency. Several alternatively spliced transcript variants have been identified, but the full-length nature of only two transcript variants has been determined. [provided by RefSeq, Aug 2014]</p> |

Product images:



Circular map for RC203539



Western blot validation of overexpression lysate (Cat# [LY421990]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203539 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).