

Product datasheet for **SC117339**

ERAB (HSD17B10) (NM_004493) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ERAB (HSD17B10) (NM_004493) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | ERAB |
| Synonyms: | 17b-HSD10; ABAD; CAMR; DUPXp11.22; ERAB; HADH2; HCD2; HSD10MD; MHBD; MRPP2; MRX17; MRX31; MRXS10; SCHAD; SDR5C1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC117339 sequence for NM_004493 edited (data generated by NextGen Sequencing) |

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ATGGCAGCAGCGTGTGCGAGCGTGAAGGGCCTGGTGGCGGTAATAACCGGAGGAGCCTCG
GGCCTGGGCCTGGCCACGGCGGAGCGACTTGTGGGGCAGGGAGCCTCTGCTGTGCTTCTG
GACCTGCCCAACTCGGGTGGGGAGGCCAAGCCAAGAAGTTAGGAAACAACCTGCGTTTTTC
GCCCCAGCCGACGTGACCTCTGAGAAGGATGTGCAAAACAGCTCTGGCTCTAGCAAAAGGA
AAGTTTGGCCGTGTGGATGTAGCTGTCAACTGTGCAAGCATCGCGGTGGCTAGCAAGACG
TACAACCTAAAGAAGGGCCAGACCCATACCTTGGAAAGACTTCCAGCGAGTTCTTGATGTG
AATCTCATGGGCACCTTCAATGTGATCCGCCTGGTGGCTGGTGGATGGGCCAGAATGAA
CCAGACCAGGGAGGCCAACGTGGGGTCATCATCAACACTGCCAGTGTGGCTGCCTTCGAG
GGTCAGGTTGGACAAGCTGCATACTCTGCTTCCAAGGGGGGAATAGTGGGCATGACTG
CCCATTGCTCGGGATCTGGCTCCCATAGGTATCCGGGTGATGACCATTGCCCCAGGTCTG
TTTGGCACCCCACTGCTGACCAGCCTCCAGAGAAAGTGTGCAACTTCTTGGCCAGCCAA
GTGCCCTTCCCTAGCCGACTGGGTGACCCTGCTGAGTATGCTCACCTCGTACAGGCCATC
ATCGAGAACCATTCTCAATGGAGAGGTCATCCGGCTGGATGGGGCCATTCTGATGCAG
CCTTGA

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Clone variation with respect to NM_004493.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004493 unedited
 CTTTTCGGATTTGAAACCGACTTCACTATAGGCGGCCCGGAATCGGCACGAGGCCGGCG
 ACAAGATGGCAGCAGCGTGTGGAGCGTGAAGGGCCTGGTGGCGGTAATAACCGGAGGAG
 CCTCGGGCCTGGGCTGGCCACGGCGGAGCGACTTGTGGGGCAGGGAGCCTCTGCTGTGC
 TTCTGGACCTGCCAACTCGGGTGGGGAGGCCAAGCCAAGAAGTTAGGAAACAAGTGGC
 TTTTCGCCCCAGCCGACGTGACCTCTGAGAAGGATGTGCAAACAGCTCTGGCTCTAGCAA
 AAGGAAAGTTTGGCCGTGTGGATGTAGCTGTCAACTGTGCAGGCATCGCGGTGGCTAGCA
 AGACGTACAACCTAAAGAAGGGCCAGACCATACCTTGAAGACTTCCAGCGAGTCTTGT
 ATGTGAATCTCATGGGCACCTTCAATGTGATCCGCCTGGTGGCTGGTGGATGGGCCAGA
 ATGAACCAGACCAGGGAGGCCAAGCTGGGGTCACTCAACACTGCCAGTGTGGCTGCCT
 TCGAGGGTCAAGTTGGACAAGCTGCATACTCTGCTTCCAAGGGGGGAATAGTGGGCATGA
 CACTGCCATTGCTCGGGATCTGGCTCCCATACGTATCCGGGTGATGACCATTGCCCCAG
 GTAGACATATCCCCTCTCCATCATACTGGGATTGGGTGGGATCCATGGACAGTTGAG
 AGGGAAAGGTATCCACCACCTAAGCAGCAGCAGCCCTTTATCTTTGGGCCCCAGAGAAGC
 CCCAGCAGTAGGGCTAACGTACGGAACACCCAGTAATCATGAAACCAAGGTGAAGCTCTG
 AATTTGCTATATGGTTACGCCTGTTGGCACCCCTGCTGACAACCCCCAGAGAAGAGGCA
 AT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004493 unedited
 AGAGTCGAGTTTTTTTTTTTTTTTTTTGTGAGAAAAAAGACTTTATTAGGCACAGAGGGC
 GACTGGTAGGCAGTTACAAAATGGCTACTGGGCTTCTCCCAAGCTGGAGAGTACTACCC
 CAGGGAAGGAAGGGCCGAGGAGCCTGTGTTCTCTGCTTCTCCCTTCAAGGCTGCAT
 ACCAATGGCCCCATCCAGCCGGATGACCTCTCCATTGAGGAATGGGTTCTCGATGATGGC
 CTGTACGAGGTGAGCATACTCACTAGGGTCACCCACTCCGCTAGGGAAGGGCACTTGGCT
 GGCCAACAAGTTGCACACTTTCTCTGGGAGGCTGGTCACCAGTGGGTGCCAAACATACC
 TAAACAATATACTCACATTGAGACTCACCTTGCTTTTCATGACTACCTGGCTCTTCTCT
 TACTTTAACCTACTTATTGGTCTACTCTGGGGCCCAACATTAACCGTGCCGCTGCT
 TACGTCGCGGATACCTTATCCTATCACTGCCATGGCTCGTACTCCCCCTCCCCCTTCAG
 GTTACAGGCGATCCCCTACCCCGGCCATGCCCTTCCCGTTCCCTCTCGACCCCTCC
 CCCTTATGGTCATGCCTGCCCCCCCCCTTCCAATCCTTTCCCTTTGCCCTTCCCT
 TCCCGTCCCCCGTTTTGCCCTTCTTCCCCCTGCCCCGCTTCCCTATCCC
 TCTCTCCATCCTCCACTTCTCTTCCCGTCCCCATTTCCCTTCTCGTCTTCCGT
 CCGTCCCGTCCCCCTCTCCCTCTTCCCTCCCCCTCCCTTTTTCTTCCCCCTTTTTG
 TCCCCCTTCTCTCCCTCTCTTCCCCCTCTTCCCCCTTCCCCCTCTCCCTCTC
 CCGTCCCCGACCTCTTCCCTTTTCCCCCTTTTCCCCCTTTTCTTCCCCCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_004493

Insert Size:

1170 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).

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| 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_004493.1 , NP_004484.1 |
| RefSeq Size: | 990 bp |
| RefSeq ORF: | 963 bp |
| Locus ID: | 3028 |
| UniProt ID: | Q99714 |
| Cytogenetics: | Xp11.22 |
| Domains: | adh_short |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Alzheimer's disease, Metabolic pathways, Valine, leucine and isoleucine degradation |
| Gene Summary: | <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> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p> |