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Product datasheet for SC116338

PECI (ECI2) (NM_006117) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PECI (ECI2) (NM_006117) Human Untagged Clone
Tag:	Tag Free
Symbol:	PECI
Synonyms:	ACBD2; dJ1013A10.3; DRS-1; DRS1; HCA88; PECI
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC116338 sequence for NM_006117 edited (data generated by NextGen Sequencing)

ATGAATAGAACAGCAATGAGAGCCAGTCAGAAGGACTTTGAAAATTCAATGAATCAAGTG
AAACTCTTGAAAAAGGATCCAGGAAACGAAGTGAAGCTAAAACTCTACGCGCTATATAAG
CAGGCCACTGAAGGACCTTGTAACATGCCCAAACCAGGTGTATTTGACTTGATCAACAAG
GCCAAATGGGACGCATGGAATGCCCTTGGCAGCCTGCCCAAGGAAGCTGCCAGGCAGAAC
TATGTGGATTTGGTGTCCAGTTTGAGTCCTTCATTGGAATCCTCTAGTCAGGTGGAGCCT
GGAACAGACAGGAAATCAACTGGGTTTGAAACTCTGGTGGTGACCTCCGAAGATGGCATC
ACAAAGATCATGTTCAACCGGCCCAAAAAGAAAAATGCCATAAACACTGAGATGTATCAT
GAAATTATGCGTGCACTTAAAGCTGCCAGCAAGGATGACTCAATCATCACTGTTTTAACA
GGAAATGGTGACTATTACAGTAGTGGGAATGATCTGACTAACTTCACTGATATTCCCCCT
GGTGGAGTAGAGGAGAAAGCTAAAAATAATGCCGTTTTACTGAGGGAATTTGTGGGCTGT
TTTATAGATTTTCCTAAGCCTCTGATTGCAGTGGTCAATGGTCCAGCTGTGGGCATCTCC
GTCACCCTCCTTGGGCTATTCGATGCCGTGTATGCATCTGACAGGGCAACATTTCATACA
CCATTTAGTCACCTAGGCCAAAGTCCGGAAGGATGCTCCTCTTACACTTTTCCGAAGATA
ATGAGCCCAGCCAAGGCAACAGAGATGCTTATTTTTGGAAAGAAGTTAACAGCGGGAGAG
GCATGTGCTCAAGGACTTGTTACTGAAGTTTTCCCTGATAGCACTTTTCAGAAAGAAGTC
TGGACCAGGCTGAAGGCATTTGCAAAGCTTCCCCCAAATGCCTTGAGAATTTCAAAAGAG
GTAATCAGGAAAAGAGAGAGAGAAAAACTACACGCTGTTAATGCTGAAGAATGCAATGTC
CTTCAGGGAAGATGGCTATCAGATGAATGCACAAATGCTGTGGTGAACTTCTTATCCAGA
AAATCAAAACTGTGA

Clone variation with respect to NM_006117.2

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006117 unedited
GATTTTGTAATACGACTCACTTATAGGGCGGCCGCGAATTCGCACGAGGGGATGGCGATG
GCGTACTTGGCTTGGAGACTGGCGCGGCGTTCGTGTCCGAGTTCTCTGCAGGTCACTAGT
TTCCCGGTAGTTCAGCTGCACATGAATAGAACAGCAATGAGAGCCAGTCAGAAGGACTTT
GAAAATTCAATGAATCAAGTGAAACTCTTGAAAAAGGATCCAGGAAACGAAGTGAAGCTA
AAACTCTACGCGCTATATAAGCAGGCCACTGAAGGACCTTGTAACATGCCCAAACCAGGT
GTATTTGACTTGATCAACAAGGCCAAATGGGACGCATGGAATGCCCTTGGCAGCCTGCCC
AAGGAAGCTGCCAGGCAGAACTATGTGGATTTGGTGTCCAGTTTGAGTCCTTCATTGGAA
TCCTCTAGTCAGGTGGAGCCTGGAACAGACAGGAAATCAACTGGGTTTGAAACTCTGGTG
GTGACCTCCGAAGATGGCATCACAAAGATCATGTTCAACCGGCCCAAAAGAAAAATGCCA
TAAACACTGAGATGTATCATGAAATTATGCGTGCCTTAAAGCTGCCGCAAGGATGACTCA
TCATCACTGTTTTACAGGAAATGGTGACTATTACAGTAGTGGGAATGATCTGACTAACTT
ACTGATATTCCCCCTGGTGGAGTAGAGGAGAAAGCANAATNATGCCGTTTTACTGAGGAA
TTGTGGGGCTGTTTATAGATTTCCTAGCCTCTGATTGCAGTGGTCATGGTCCAGCTGTGG
CATCTCCGTCACCTTCTTGGGCTATCCGATGGCGTGTATGCATCTGACAGGGGCACATTC
ATACACCATTTATCACTAGGGCCAGGNCCGGGAGGGAGCTCCTCTTACACTTTTCGAGAT
ATGGAGCCAGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006117 unedited
AATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGTTTTACAAAACTTTTTATTCATCAGAG
CTGTAGTGAAATATCATCATTGTAATTGATATTCTAGCACTACAAAAGGCACAATGAAGC
TTATTTAGTTCCAGTACTGGAAATCAGAGGTAACAGCACATCCTTCCTTGGACATGCTTT
ACTCTGCTGTAGTGGTCATCACAGTTTTGATTTTCTGGATAAGAAGTTCACCACAGCATT
TGTGCATTCATCTGATAGCCATCTTCCCTGAAGGACATTGCATTCTTCAGCATTAACAGC
GTGTAGTTTTTCTCTCTCTCTTTTCCTGATTACCTCTTTTGAAATTCTCAAGGCATTTGG
GGGAAGCTTTGCAAATGCCTTCAGCCTGGTCCAGACTTCTTTCTGAAAAGTGCTATCAGG
GAAAACTTCAGTAACAAGTCCTTGAGCACATGCCTCTCCCGCTGTTAACTTCTTTCCAAA
AATAAGCATCTCTGTTGCCTTGGCTGGGCTCATTATCTTCGGAAAAGTGTAAGAGGAGCA
TCCTTCCGGACTTTGGCCTAGGTGACTAAATGGTGTATGAAATGTTGCCCTGTCAGATGC
ATACACGGCATCGAATAGCCCAAGAGGGTGACGGAGATGCCCACAGCTGGACCATTGACC
ACTGCATCAGAGGCTTANGAAAATCTATANACAGCCACANATTCCCTCAGTAAACGCATT
ATTNNTAGCTTCTNCTCTACTCACCAGGGGGATATCANTGAAGTAGTCAGATCATCCCAC
TCTGTATAGTCACCATTTCTGGTAAACATGATGATGAGTCATCTGCTGGAGCTTAAGTGC
ACGCTATTATGATCATTTANNGGTATGCATTTTCTTTTGGGCGTGAAATGAACTTGATGC
TTTTGAGGACCCCAATTCAAACAATGATTTCGTTGCCAGCTCCTGGTTAGATCAAGAGCT
AACGA

Restriction Sites: NotI-NotI

ACCN: NM_006117

Insert Size: 1460 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).

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_006117.2, NP_006108.2
RefSeq Size:	1410 bp
RefSeq ORF:	1095 bp
Locus ID:	10455
UniProt ID:	O75521
Cytogenetics:	6p25.2
Domains:	ACBP, ECH
Protein Pathways:	Fatty acid metabolism
Gene Summary:	This gene encodes a member of the hydratase/isomerase superfamily. The protein encoded is a key mitochondrial enzyme involved in beta-oxidation of unsaturated fatty acids. It catalyzes the transformation of 3-cis and 3-trans-enoyl-CoA esters arising during the stepwise degradation of cis-, mono-, and polyunsaturated fatty acids to the 2-trans-enoyl-CoA intermediates. Alternatively spliced transcript variants have been described. [provided by RefSeq, Aug 2011] Transcript Variant: This variant (1) encodes the shorter isoform (1). Both variants 1 and 3 encode the same isoform.