

Product datasheet for **SC126461**

C10orf65 (BC057821) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C10orf65 (BC057821) Human Untagged Clone
Tag:	Tag Free
Symbol:	C10orf65
Synonyms:	chromosome 10 open reading frame 65; DHDPS-like protein; Dihydrodipicolinate synthase-like, mitochondrial; FLJ37472; OTTHUMP00000059366
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for BC057821 edited
 ATTGCGGGAGGAGGGCCAGATCCCACTGGAGATACCGAAGGAGATACTCTTAGTATTG
 GGATCCCAGAAACCAGTCCTATATCTGGCCAGAGGGACACTGGGTTGTGGCATCTCTCTA
 GCTGCTACCCAGAAGGAACAGGGCCCCCTGGGGCTATAGGCCTTGCCCTGACCCTGGG
 AACACCCAGCTCAGGCCTGCCCCAGTGGCCACAAGTCAGGGAGGCCGCAAATTTTAACT
 AGAAACATTGATCATTAAAGGGGTTAGAAAGAGTTCAAATAAGTCTCACTCTGGGAC
 ATAGACCAATTGTGCTTCAGGCCTCCTGCAGAGATGCTGGGTCCCAAGTCTGGTCTTCT
 GTGAGGCAGGGGCTAAGCAGGAGCTTGTCCAGGAATGTGGGGGTCTGGGCCTCAGGGGAG
 GGGAAGAAGTGGACATTGCGGGTATCTACCCCTGTGACCACCCCTTCACTGCCACT
 GCAGAGGTGGACTATGGGAACTGGAGGAGAATCTGCACAACTGGGCACCTTCCCTTC
 CGAGGAGCTGTGGGGGGCGTCTGCGCCCTGGCCATGTCTGGGGGCTCAGGTATGCCAG
 CTGGAGCGACTGTGCTGCACGGGGCAATGGGAAGATGCCAGAACTGCAGCACCCTC
 ATTGAGCCAAACGCTGCGGTGACCCGGCGCTTTGGGATCCAGGGCTGAAGAAAATCATG
 GACTGGTTTGGTACTATGGAGGCCCTGCCGCGCCCTTGCAGGAGCTGAGCCCCGCT
 GAGGAGGAGGCACTGCGCATGGATTTACACAGCAACGGCTGGCTCTGAGGGCAGGCAGGG
 TCCATGGCTGGCCTGAGCCCATCTCAGCCTCCTGCCTTGCACTTGACGCTGAAGCGGAG
 AGCACAGGGGATGAGGGTGGCAGGCAGCGGGAGCCGATAGAGGCTCCTTTGCCTGCTG
 TGGTCTCCAGGCAGCCTTTCACAGGCACGCCATGCATATCTCCTATTCTAACGGCCCC
 TGACCTCTCCCTTTTGGATCCTAACTGTGTCTCTGGTCTGAAGACTGGGAAGGACAA
 TTCTCAATTTATCTTTCTACTGTGGATGCTTCTACGCCCTGAGGCACATGAAGTCAGA
 AAGGAAGGGCAGAGGGCAAGTAGGCACAGTAAGGGAATTTCTTTCTTTTTTTTTTTT
 TTGAGACAGAGTTTCACTCTGTACCCAGGCTGGAGTGCAATGGCATGATCTCGCCTCCT
 GGGTTCAAGCGATTCTCCTGCATCAGCCTCCCGAGTAGCTGGGATTACAGGCGCCTGCCA
 CCACGCCAGCTAATTTTGTATTTTACGAGAGATGGGGTTTACCGTGTGGCCAGGC
 TGGTCTTGAACCTCTGACCTCAGGTGATCCAACCTGCCTCGGCCTCCCAAAGTGCTGGGAT
 TACAGCTGTGAGCCACTGCACCCGGCCGGGAATTTATCAAAGGGGGGACTACTTAGATTT
 GGGGCTTCAAACCTGAGTCTAGCACAATGCAGCTGGAGGCCAGGGCTACTCTACAAACC
 CAAGTTCTGACTCCTTCCAGGGAAGTATCAGCTTAAGAACTTGATCAGGAAAGTGACAC
 TGGTCTTTCAAAGAGCCCTTTTACCCTCCCATCCCTGCCCTCCACACTGCAAGTGCAT
 TCCAGCCACAACGCCCTTTTCTAAATCTATTTTCATTCTCTCTATTCTGGTCTGTAGCC
 TTGATTCCAACCATTTGAATGCACGGAGACAGCCAGTGGCTTGTGAGATTGGTAAATAAT
 GACACCTGGTGGATAAATGTTACATTCTAGAAGACTATTCTGGTCAGCCTAGGTCTGAAA
 CACTAAGGAGACTTGGCCTGAGATAGGGCCATCCACTTGCTTACAGGCACTCTGCTTTTA
 TTATTAATAAATAGTCACTTTGTTACTATAATAAATTTAACGAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: BC057821

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:	<u>BC057821.1</u> , <u>AAH57821.1</u>
RefSeq Size:	1978 bp
Locus ID:	112817
Cytogenetics:	10q24.2
Gene Summary:	The authors of PMID:20797690 cloned this gene while searching for genes in a region of chromosome 10 linked to primary hyperoxalurea type III. They noted that even though the encoded protein has been described as a mitochondrial dihydrodipicolinate synthase-like enzyme, it shares little homology with E. coli dihydrodipicolinate synthase (Dhdps), particularly in the putative substrate-binding region. Moreover, neither lysine biosynthesis nor sialic acid metabolism, for which Dhdps is responsible, occurs in vertebrate mitochondria. They propose that this gene encodes mitochondrial 4-hydroxyl-2-oxoglutarate aldolase (EC 4.1.3.16), which catalyzes the final step in the metabolic pathway of hydroxyproline, releasing glyoxylate and pyruvate. This gene is predominantly expressed in the liver and kidney, and mutations in this gene are found in patients with primary hyperoxalurea type III. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Nov 2010]