

Product datasheet for **SC321586**

DHTKD1 (NM_018706) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHTKD1 (NM_018706) Human Untagged Clone
Tag:	Tag Free
Symbol:	DHTKD1
Synonyms:	AAKAD; AMOXAD; CMT2Q
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_018706.4
 CAGGGCCGGTGGGATCCCCTCGGGCTCCCGCCTTAGCATGCTGGCCGGGACATCTGGTGA
 ACATGGCCTCTGCTACTGCGGCAGCAGCAGCGGGCCCTCGGCCGGGCTCTCCCTCTCC
 TCTGGCGTGGCTACCAGACCGAGCGGGCGTTTACGGCTACCGGCCGAGGAAGCCCGAGA
 GCCGCGAGCCCCAGGGCGCCCTGGAGCGCCCCCAGTTGATCATGGCCTTGCCAGTTGG
 TGACAGTATATTGTGAGCATGGTCATAAAGCTGCCAAAATCAACCCCTCTTACCAGGAC
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 TCCACACGGCAGGATTATTGAACATGGGAAGGAAGAGGCCTCACTTGAGGAAGTGTAG
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 AGGATGAGAAAGACTGGTTTGCAGCGGTTTGGAGAACTGCAAAAGGAGACGTTTACCA
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AGAGAATCGCTTGAATCTGGGAGGCGGAGGTTGCAGTGAGCCAGGATCACACCATTGCTG
TCCAGCCTGGGTGACAGAGCAAGACTGCGTTTCAAAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** Please inquire
- ACCN:** NM_018706
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_018706.4](#), [NP_061176.3](#)

RefSeq Size: 5162 bp

RefSeq ORF: 2760 bp

Locus ID: 55526

UniProt ID: [Q96HY7](#)

Cytogenetics: 10p14

Domains: E1_dehydrog, transket_pyr

Gene Summary: This gene encodes a component of a mitochondrial 2-oxoglutarate-dehydrogenase-complex-like protein involved in the degradation pathways of several amino acids, including lysine. Mutations in this gene are associated with 2-aminoadipic 2-oxoadipic aciduria and Charcot-Marie-Tooth Disease Type 2Q. [provided by RefSeq, May 2013]