

Product datasheet for **MC222658**

Dhtkd1 (NM_001081131) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Dhtkd1
Synonyms:	C330018I04Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222658 representing NM_001081131
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCATCGGCCGCCACTGTGGCAGCTGCAGGGAGAGCTCTCCGCCGGGCCGTTCTGCTTCTCCGGCGCG
 GTTACCAGACGGAGAGGGCGTCTATGGATACCGGCCTAGGAAAGCCAAGAGCGGAGAGCCTCGAGGCGA
 CCGTGACGCCCCCTCAGTTGACCATGGCCTTGCCAGGCTGGTGACAGTGTATTGTGAGCATGGCCACAAA
 GCTGCCAGATCAACCTCTCTTCCCTGGACAAGCCCTCCTGGATACTGTGCCTGAAATCCAAGCTCTTG
 TCCGGACACTCCAGGGACCTTCACTACCAAGAGCTGTTAAACCTGGGCAAAGAAGCAGCTTCTCTTGA
 GGAAGTATTGGCCTATCTGAACCATATCTACTGTGGCCCAATTTCTATCGAAACCGCCAGCTTCAGAGC
 CAGGAAGAGAGAGACTGGTTTGCCAGAAGGTTTGAGGAACTGAAAAAGGAGACGTTTACCACAGAAGAAC
 GAAAAACCTGTCCAACTATTGCTAGAGTCTCAGGAGTTTGACCACTTTTGCCACCAAGTTTGCCAC
 GGTGAAGAGATACGGCGGTGAAGGGCAGAGAGCATGATGGCTTTTTTCATGAGTTGCTGAAATGTCA
 GCCTATGGCGGTATAACCGACATCATTATCGGGATGCCCATAGAGGGAGGTTGAATTTGTTGACAGGCC
 TTCTGCAGTTACCTCCGGAGCTGATGTTCCGTAATAATGCGAGGCTTAAGCGAGTTTCCAGAGAATGTTGC
 CACCATTGGTGATGTCCTGTCCACCTGACCTCCTCAGTGGACCTAGACTTCGGTGCCCATCAACCCCTC
 CATGTGACAATGCTGCCAACCCTCACATCTGGAAGCTGTTAACCCTGGCTGTAGGAAAACTCGTG
 GCAGGCAGCAGTCTCGGGAAGATGGGGACTACTCCCCGAATGGTTCTGCTCAGCCTGGGGACAAAGTCAT
 ATGCCTGCAGGTCCACGGTGACGCTTCTTCTGCGGTACGGGATTGTCCTTGAGACGTTTACACTCTCT
 AATCTTCCACACTTCAGAATTGGTGGGAGCATCCATCTAATTGTCAATAACCAGCTGGGCTACACCACTC
 CTGCAGAGAGAGGAAGGTCGCTTATACAGCTCTGATATCGGAAAGCTCGTAGGCTGTGCCATCATCCA
 TGTCATATGGAGACAGCCAGAGGAAGTGGTCCGAGCGACACGCCTGGCTTTTGAATATCAGCGCCAGTTC
 CGCAAGGATGTGATTGTTGATTGTTATGCTATAGGCAAGTGGGGTCATAACGAGCTAGACGAGCCTTTCT
 TCACCAACCAGTCATGTACAAAAATCATCAGAGCCCGCAAGAGCATTCTGTATACCTACGACGAGCACCT
 CATTGCCAGTGGACTCATGACCCAGGAGGAGTTTCCGACATAAAACCTCCTACTATACCAAGTTAAAT
 GACCACTTGCCCAATGTGGCCCACTACAGCCCCCGGCCACTAACCTGCAGGCCCGCTGGCAGGGCCTGG
 TGCAGCCAGAAGCATGTGTACCACTGGGACACAGGGGTGCCTCTAGAGCTGCTGCGGTTTATTGGTGT
 GAAGTCCGTGGAGGTTCCAGAGGAAGTGCAGGTGCACAGCCACCTTCTAAAGATGTATGTTCAAGTCAAGA
 ATGGAGAAGGTGAAGAATGGAAGCGGTCTAGACTGGGCCACCGCAGAGACACTTGCCTTGGGCTCCTTAC
 TCGCTCAAGGTTTCAATGTTCTGCTGAGCGGCCAAGATGTTGGCCGTGGGACTTTTAGTCAAAGGCATGC
 CATGGTGGTTTGCCAGGACACTGATGATGCCTACATCCCGCTGAACCACATGGACCCCAACCAGAAGGGT
 TTTCTGGAGGTTAGCAACAGCCCCCTGTCAGAAGAGGCTGTCTGGGATTTGAATATGGGATGAGCATCG
 AAAGCCCCACGTTGCTGCCCTCTGGGAAGCTCAGTTTGGCGATTTCTTCAATGGAGCCAGATCATCTT
 TGACACATTCACTCAGGAGGAGAGGCCAAGTGGCTCCTGCAGAGTGCCCTCGTCATCTCTCTTCCACAT
 GGCTATGATGGAGCTGGCCTGAGCACTCATCTTGTCGGATAGAGCGCTTCTTGAGATGTGCGATAGTG
 CAGAAGAAGGTGTGGACAGCGACACTGTGAACATGTTTGTGGTACACCCGACCAACCCCTGCTCAGTACTT
 CCATTTGCTAAGAAGGCAGATGATTCGGAACCTCAGAAAACCTCTCATTGTTGCATCTCAAAAAATGTTA
 CTCAGGTACCCTGCAGCTGTGTCAACTCTTGAGGAAATGGCACCAGGAACAGCATTCAAACCTGTCAATTG
 GTGATTCATCAGTAGACCCAAAAAATGTTAAAACCTCATATTCTGCTCCGGCAAACATTTTATGCCCT
 GCTGAAGCAAGAGAGTCTCTGGGGACTAAGAAATGATTTTGCCATCATTCGACTAGAGGAGCTCTGC
 CCTTTCCGCTGGATGCATTACAACAAGAGATGAGCAAATATAACATGTTGAGATGTCATCTGGAGTC
 AGGAGGAGCCGAGAACATGGGTCCATGGTCTTTTGTCTTCCAGGTTTGAACCAACTGGCTTGCAG
 GCTCCGTCTGTGAAGCCGACCCCTTTGCCAGCACCTGCGGTAGGAATTGGCACAGTGACACGAGCAGCAG
 CACGAAGACATTCTTCCAAGACCTTCACTCAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001081131

Insert Size:

2766 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001081131.2</u> , <u>NP_001074600.1</u>
RefSeq Size:	3535 bp
RefSeq ORF:	2766 bp
Locus ID:	209692
UniProt ID:	<u>A2ATU0</u>
Cytogenetics:	2 A1
Gene Summary:	The 2-oxoglutarate dehydrogenase complex catalyzes the overall conversion of 2-oxoglutarate to succinyl-CoA and CO(2). It contains multiple copies of three enzymatic components: 2-oxoglutarate dehydrogenase (E1), dihydrolipoamide succinyltransferase (E2) and lipoamide dehydrogenase (E3) (By similarity).[UniProtKB/Swiss-Prot Function]