

Product datasheet for **RN201719**

Dhtkd1 (NM_001025720) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dhtkd1 (NM_001025720) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dhtkd1
Synonyms:	MGC116097
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF:

>RN201719 representing NM_001025720

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCATCGGCTACTGTGGCAGCTGCAGGGAGAGCTCTCCGCCGAGCGGTCCCGCTTCTCAGGCGCAGTT
ACCAGACGGAGAGGGCGTCTATGGATACCGCCCTAGGAAAGCCGGGAGCGGCGAGCCCGAGGCGACCG
TGACGCCCTCAGTTGACCATGGCCTTCCAGGCTGGTACAGTGTATTGTGAGCATGGCCACAAAGCT
GCCCAGATCAACCCTCTCTCCCGGACAAGCCCTCCTGGATACTGTGCCTGAAATCCAAGCTCTTGTGC
AGACACTCCAGGGACCCTTCACTACCACAGGACTGTTAAACATGGGCAAAGAAGAGGCTTCTCTTGAGGA
AGTGTGGCCTATTTGAACCATATCTACTGTGGGCAATTTCTATTGAAACCGCCAGCTGCAGAGCCAG
GAGGAGAAAGACTGGTTTCCAGAAGGTTTGGGAACTGAAAAGGAGACATTTACCACAGAAGAGCGAA
AACACCTGTCGAACTACTGCTAGAATCTCAGGAGTTTACCACCTTTTTGGCCACCAAGTTTCCACAGT
GAAGAGATACGGAGTGAAGGGCAGAGAGCATGATGGCTTTTTTACGAGTTGCTGAAATGTACGCC
TATGGCGGTATAACGGACATCATTATCGGGATGCCCCACAGAGGGAGGCTGAATCTGTTGACAGGCCCTC
TGACGTTACCTCCAGAGCTGATGTTCCGTAATAATGCGAGGCTTAAAGTGAATTTCCAGAAAACGTTGCTGC
CATTGGTGACGTCCTGTCCCATCTGACCTCCTCAGTGGACCTAGACTTTGGGGCCATCGACCCCTCCAT
GTGACAAATGCTACCAACCCCTCACACCTGGAAGCTATTAACCCCGTGGCTGTAGGGAAAACCTCGTGGCA
GGCAGCAGTCTCAGGAAGACGGGACTACTCACAAATGGTCTGCTCAGCCTGGGGACAAAAGTCATATG
CCTGCAGGTTTCAGGACGCTTCTCTGCGGTCAAGGATTGTTCTGGAGACGTTACGCTCTCTAAT
CTCCCACATTTGAGAATCGTGGGAGCATCCATCTCATAGTCAATAACCAAGTTGGGTTACACCACGCTG
CTGAGAGAGAAAGTTCGCTTTATACAGCAGTGACATTGGAAAGCTAGTAGGCTGTGCCATCATCCATGCT
CAACGGAGACAGTCCAGAGGAAGTGGTCCGAGCGACACGACTTGCTTTTGAATATCAGCGCCAGTCCCGC
AAGGACGTGATTATTGATTTGTTATGCTATAGGACGTGGGGTCACAATGAGCTGGACGAACCTTTCTTCA
CCAACCCGGTCATGTACAAAATCATCAGAGCTCGAAAAGACATTCTGATACCTACGCAGAGCACCTCAT
CGCCAGCGGACTCATGACGCAGGAGGAGTCTCCGACATAAAAAGCCTCCTACTACGCCAAGTTAAATGGC
CACTTGGCCAATGTGGCCCACTACAGCCCCCGGCCACCTGCAGGCCCGCTGGCAGGGCCTGGTGC
AGCCAGCAGCCTGCGTACCACCTGGGACACGGGCGTCCGCTGGAGCTGCTACGTTTCTTGGCGTGAA
GTCCGTGGAGTTCCAGAGGAGCTGCAGTTACACAGCCACCTGCTAAAGATGTATGTTCAAGCAAGATG
GAGAAGGTGAAGAATGGAACCAATCTTGACTGGGCCACCGCAGAAACACTTGCCTTGGGCTCCTTACTTG
CTCAAGGTTTCAATGTTGCTGCTGAGTGGCAAGATGTTGGCCGTGGAACCTTTCAGTCAAAGGCATGCAAT
GGTGGTTTGCAGAACACTGATGATGTCTACATTCCTCTGAACCACATGGACCCTAACAGAAAGGGCTTT
CTGGAGGTTAGCAACAGCCCCTGTGAGAAGAGGCTGCTTGGGATTTGAATACGGGATGAGCATCGAAA
GCCCAAAGTTGCTGCCCTCTGGGAAGCTCAGTTTGGCGATTTCTTCAATGGAGCCAGATCATCTTTGA
CACATTCATCTCTGGAGGCGAGGCCAAGTGGCTCCTGCAGAGTGGCCTTGTATCCTCCTTCCACACGGC
TATGATGGAGCCGGCCTGACCACTCATCCTGTCGGATAGAGCGCTTCTGCAGATGTGCACAGTGGCG
AAGAAGGCGTGGACAGCGACACTGTGAACATGTTTGTGGTTCACCCGACTACGCTGCTCAGTACTTCCA
CTTGCTTAGAAGACAGATGATGCGGAACCTCAGAAAGCCTCTCATCGTTGCATCTCCAAAATGTTACTC
AGGTACCCTGTAGCTGTGTCAACGCTTGGAGAGATGGCGCCAGGAACAGCATTCAAACCTGTCATTGGTG
ATTCGTCGGTAGACCCCAAAAATGTCAAAAACCTCATATTCTGCTCCGGCAAACATTTTTATGCCCTGCT
GAAGCAAAGAGAGTCTCTGGGGCTAAGAAGCGTGATTTTGCATCATTGACTAGAGGAACTCTGCCCT
TTCCCGCTGGATTCAATACAACAAGAGATGGGCAAATACAACACGTTCAAGATATCATCTGGAGTCAGG
AGGAGCCTCAGAACATGGGTCCGTGGTCTTTTGTATCCAAGGTTTAAAAGCAACTTGCCTGCAAGCT
CCGTCTCGTAAGTCGACCCCTTGGCAGCGCCCGGTGGGAATTGGCACAGTGCACCAGCAGCAGCAT
GAAGCCATCCTCTCAAGACCTCACTTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:	NM_001025720
Insert Size:	2763 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:	<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:	<u>NM_001025720.1</u> , <u>NP_001020891.1</u>
RefSeq Size:	4280 bp
RefSeq ORF:	2763 bp
Locus ID:	361272
UniProt ID:	<u>Q4KLP0</u>
Cytogenetics:	17q12.3
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]