

Product datasheet for **RR208309**

D2hgdh (NM_001106926) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	D2hgdh (NM_001106926) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	D2hgdh
Synonyms:	RGD1307976
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR208309 representing NM_001106926
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGCTCCATTGGTGCCAGATGGTCTGCAAGCCTCTCAGGGCATCTCCAAGATGGAAAAAGACCT
 ACAGCCAGAGAGCTTCTGCGCAGTTGAAGTGGCTGGGTTGCCCTCGGAGTGTGTACAGCCCTTGGCTTG
 CAGAGCATACTCCAAGGTCTCTGGCAGCCCTGAGGTGATGCTGACCCCTGAGCGATACCCAGTGCACGG
 CTGCCGTTTTCTACCGTGTGAGAGGAGGACCTGGCTGCATTTGAATGCATCATACTGGCAGAGTTATCA
 CAGATCCAGAGCAACTGCAGACTTGAATGTGGACTGGCTGAGGACCGTGCGGGGCTGTAGTAAGGTGCT
 GCTGAGACCCAGACCTCAGAGGAAGTCTCCAGATTCTTAGGCACTGCTATAAGAGGAAGTGGCTGTG
 AACCCACAGGGCGAAACTGGCATGGTGGTGGCAGTGTCCCTGTCTTTGATGAAGTCATCCTGTCCA
 CTGCCCTCATGAATCAAGTCATCAGCTTTCATGATGTGTCTGGAATTCTGGTTTGCCAGGACGGCTGCGT
 GCTGGAGGAGCTGAGCAGGTACGTGCAGGAGCGGGACTTCATCATGCCACTGGACTTGGGTGCAAAGGGC
 AGCTGCCACATTGGGGTAAATGTCGCAACGAACGCTGGGGTCTGCGGTTCTGCGGTACGGCTCTCTTC
 GAGGGACTGTCTGGGCCTGGAAGTGGTACTTGCTGATGGAACCATCTGAACTGCCTGACCTCTTTGAG
 GAAGGACAACACTGGCTATGACCTGAAGCAGATGTTTATTGGGTGAGGGCACCCCTGGGAGTCACACT
 GCTGTATCCATCGTGTGCCACCGAGGCCAAGGCTGTGAATGTGGCTTTCCTTGGCTGCCCTGGGTTTA
 CTGAGGTTCTGCAGACCTTCTGCACCTGCAAGGGGCAACTGGGCGAGATCCTGTCTGCCTTTGAGTTTAT
 GGATGCCGAATGCATGCAGTTGGTTGGACAGCACCTCCACCTGACCAACCCAGTACAAGAGAGTCCATTC
 TATGTCTGGTTGAGACCTCAGGCTCCAGTGCCGGCAGATGCTGAGAACTGACCAACGTCCTGGAGC
 AAGTGCTGAATTCTGGCCTGGTATCGATGGCACTATGGCCACCGACAGAGGAAAGTCCAGATGCTGTG
 GGCTTTCGGGAAAGGATCACAGAGGCACTCAGTCGTGACGGCTACGTGTTCAAGTATGACTTATCCCTC
 CCCGTGGAGCGGCTCTATGACCTTGTGATCGACCTGCGCACCCGCTTGGCCCTGAGCCAAGCATGTGG
 TGGGATATGGGCACTTGGGGATGGCAACCTTACCTGAACGTGACAGCAGAGGCCCTTAGCCAGGAGCT
 GCTTGGTGCCTTGGAGCCTTATGTGTACGCTGGACAGCGGAACAGCGGGCAGCGTCAGTGCTGAGCAC
 GGCCTGGGCTTCAAGAAGAAGATGTAAGTCTCGGCTATAGCAACGCCACCTGTGGCTGTGAAGCTTATGCAA
 CAGCTGAAGGCCATGCTGGACCCAAAGGCATCCTGAACCCCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208309 representing NM_001106926
 Red=Cloning site Green=Tags(s)

MVLHLVPRWSASLFRASPRWKKTYSQLRASAQLKWLGCPRSVYSPLACRAYSKVSGSPEVMLTPERYPVQR
 LPFSTVSEEDLAAFECIIPGRVITDPELQTCNVLDLRTVRGCSKVLLRPQTSEEVSQILRHCYKRNLA
 NPQGGNTGMVGGSPVDFEVLSTALMNQVISFHDVSGILVQCAGCVLEELSRVYQERDFIMPLDLGAKG
 SCHIGGNVATNAGGLRFLRYGSLRGTVLGLEVLADGTILNCLTSLRKDNTGYDLKQMFIGSEGLGVIT
 AVSIVCPPRPKAVNVAFLGCPGFTEVLQTFCTCKGQLGEILSAFEFMDAECMQLVGQHLHLTNPVQESPF
 YVLVETSGSSAGHDAEKL TNVLEQVLNSGLVIDGTMTDQRKVQMLWALRERITEALSRDGYVFKYDL SL
 PVERLYDLVIDLRTRLGPRAKHVVG YGHLGDGNLHLNVTAEAFSQELLGALEPYVYAWTAEQRGSVSAEH
 GLGFKKKNVLYSNATCGCEAYATAEGHAGPQRHPEPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001106926

ORF Size: 1584 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001106926.1](#), [NP_001100396.1](#)

RefSeq Size: 2279 bp

RefSeq ORF: 1587 bp

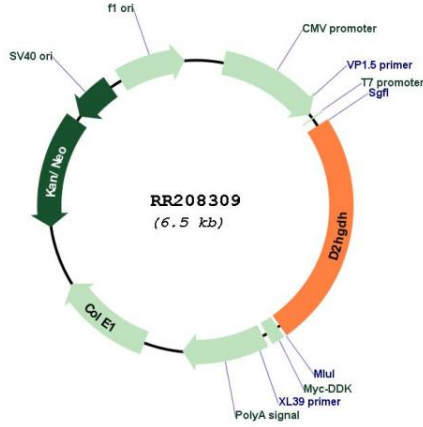
Locus ID: 301624

Cytogenetics: 9q36

MW: 57.8 kDa

Gene Summary: Catalyzes the oxidation of D-2-hydroxyglutarate to alpha-ketoglutarate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR208309