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Product datasheet for RC205552

Choline dehydrogenase (CHDH) (NM_018397) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Choline dehydrogenase (CHDH) (NM_018397) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Choline dehydrogenase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

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ORF Nucleotide Sequence:

>RC205552 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGTGTCTCCTACGAGGCCTGGGCCGGCCTGGAGCCCTGGCACGGGGAGCCCTGGGGCAGCAGCAAT
CCCTGGGTGCCCGGGCCCTGGCCAGCGCAGGCTCTGAGAGCCGGGACGAGTACAGCTATGTGGTGGTGGG
CGCGGGCTCGGCGGGCTGCGTGCTGGCTGGGAGGCTCACGGAGGACCCCGCCGAGCGCGTGCTGCTGCTG
GAGGCCGGGCCCAAGGACGTGCGCGCGGGGAGCAAGCGGCTCTCGTGGAAGATCCACATGCCCGCGGCCC
TGGTGGCCAACCTGTGCGACGACAGGTACAACTGGTGCTACCACACAGAGGTGCAGCGGGGCCTGGACGG
CCGCGTGCTGTACTGGCCACGCGGCCGCGTCTGGGGTGGCTCCTCATCCCTCAATGCCATGGTCTACGTC
CGTGGGCACGCCGAGGACTACGAGCGCTGGCAGCGCCAGGGCGCCCGCGGCTGGGACTACGCGCACTGCC
TGCCCTACTTCCGCAAGGCGCAGGGCCACGAGCTGGGCGCCAGCCGGTACCGGGGCGCCGATGGCCCGCT
GCGGGTGTCCCGGGGCAAGACCAACCACCCGCTGCACTGCGCATTCCTGGAGGCCACGCAGCAGGCCGGC
TACCCGCTCACCGAGGACATGAATGGCTTCCAGCAGGAGGGCTTCGGCTGGATGGACATGACCATCCATG
AAGGCAAACGGTGGAGCGCAGCCTGTGCCTACCTGCACCCAGCACTGAGCCGCACCAACCTCAAGGCCGA
GGCCGAGACGCTTGTGAGCAGGGTGCTATTTGAGGGCACCCGTGCAGTGGGCGTGGAGTATGTCAAGAAT
GGCCAGAGCCACAGGGCTTATGCCAGCAAGGAGGTGATTCTGAGTGGAGGTGCCATCAACTCTCCACAGC
TGCTCATGCTCTCTGGCATCGGGAATGCTGATGACCTCAAGAAACTGGGCATCCCTGTGGTGTGCCACCT
ACCTGGGGTTGGCCAGAACCTGCAAGACCACCTGGAGATCTACATTCAGCAGGCATGCACCCGCCCTATC
ACCCTCCATTCAGCACAGAAGCCCCTGCGGAAGGTCTGCATTGGTCTGGAGTGGCTCTGGAAATTCACAG
GGGAGGGAGCCACTGCCCATCTGGAAACAGGTGGGTTCATCCGCAGCCAGCCTGGGGTCCCCCACCCGGA
CATCCAGTTCCATTTCCTGCCATCCCAAGTGATTGACCACGGGCGGGTCCCCACCCAGCAGGAGGCTTAC
CAGGTACATGTGGGGCCCATGCGGGGCACGAGTGTGGGCTGGCTCAAACTGAGAAGTGCCAATCCCCAAG
ACCACCCTGTGATCCAGCCCAACTACTTGTCAACAGAAACTGATATTGAGGATTTCCGTCTGTGTGTGAA
GCTCACCAGAGAAATTTTTGCACAGGAAGCCCTGGCTCCGTTCCGAGGGAAAGAGCTCCAGCCAGGAAGC
CACATTCAGTCAGATAAAGAGATAGATGCCTTTGTGCGGGCAAAAGCCGACAGCGCCTACCACCCCTCGT
GCACCTGTAAGATGGGCCAGCCCTCCGATCCCACTGCCGTGGTGGATCCGCAGACAAGGGTCCTCGGGGT
GGAAAACCTCAGGGTCGTCGATGCCTCCATCATGCCTAGCATGGTCAGCGGCAACCTGAACGCCCCCACA
ATCATGATCGCAGAGAAGGCAGCTGACATTATCAAGGGGCAGCCTGCACTCTGGGACAAAGATGTCCCTG
TCTACAAGCCCAGGACGCTGGCCACCCAGCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205552 protein sequence
Red=Cloning site Green=Tags(s)

MWCLLRGLGRPGALARGALGQQQSLGARALASAGSESRDEYSYVVVGAGSAGCVLAGRLTEDPAERVLLL
EAGPKDVRAGSKRLSWKIHMPAALVANLCDDRYNWCYHTEVQRGLDGRVLYWPRGRVWGGSSSLNAMVYV
RGHAEDYERWQRQGARGWDYAHCLPYFRKAQGHELGASRYRGADGPLRVSRGKTNHPLHCAFLEATQQAG
YPLTEDMNGFQQEGFGWMDMTIHEGKRWSAACAYLHPALSRTNLKAEAETLVSRVLFEGTRAVGVEYVKN
GQSHRAYASKEVILSGGAINSPQLLMLSGIGNADDLKKLGIPVVCHLPGVGQNLQDHLEIYIQQACTRPI
TLHSAQKPLRKVCIGLEWLWKFTGEGATAHLETGGFIRSQPGVPHPDIQFHFLPSQVIDHGRVPTQQEAY
QVHVGPMRGTSVGWLKLRSANPQDHPVIQPNYLSTETDIEDFRLCVKLTREIFAQEALAPFRGKELQPGS
HIQSDKEIDAFVRAKADSAYHPSCTCKMGQPSDPTAVVDPQTRVLGVENLRVVDASIMPSMVSGNLNAPT
IMIAEKAADIIKGQPALWDKDVPVYKPRTLATQR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6859_e04.zip

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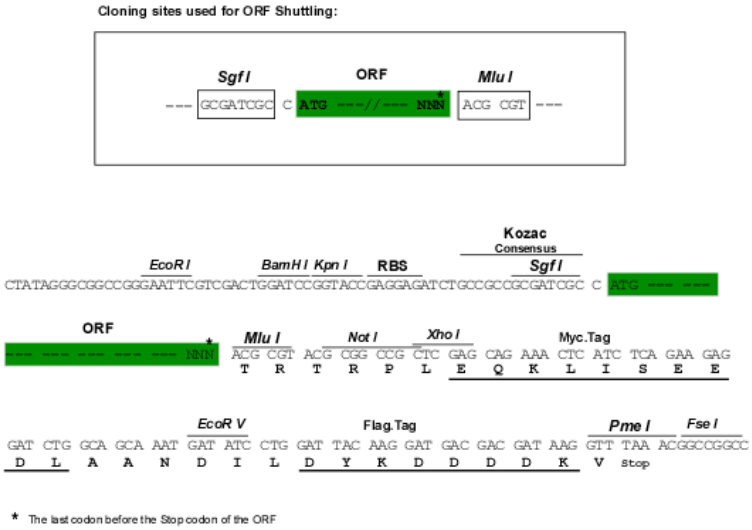
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018397

ORF Size: 1782 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_018397.2

RefSeq Size: 3711 bp

RefSeq ORF: 1785 bp

Locus ID: 55349

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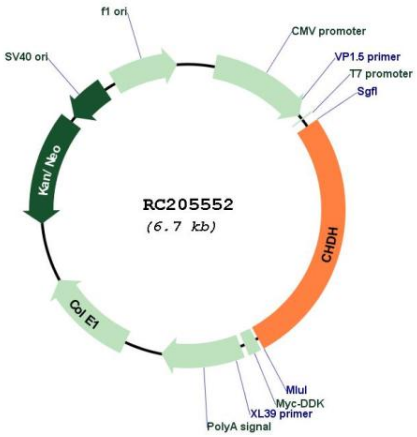
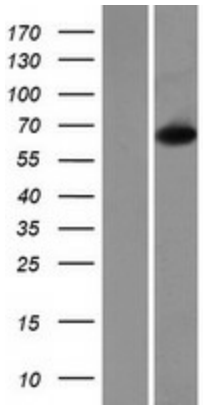
UniProt ID:	Q8NE62
Cytogenetics:	3p21.1
Protein Pathways:	Glycine, serine and threonine metabolism
MW:	65.4 kDa
Gene Summary:	The protein encoded by this gene is a choline dehydrogenase that localizes to the mitochondrion. Variations in this gene can affect susceptibility to choline deficiency. A few transcript variants have been found for this gene, but the full-length nature of only one has been characterized to date. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RC205552



Western blot validation of overexpression lysate (Cat# [LY413062]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205552 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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