

Product datasheet for **RC205552**

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

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTGGTGTCTCCTACGAGGCCTGGGCCGGCTGGAGCCCTGGCACGGGGAGCCCTGGGGCAGCAGCAAT
 CCTGGGTGCCCGGCCCTGGCCAGCGCAGGCTCTGAGAGCCGGGACGAGTACAGCTATGTGGTGGTGGG
 CGCGGGCTCGGCCGGCTGCGTGTGGCTGGGAGGCTCACGGAGGACCCCGCCGAGCGCTGCTGCTGCTG
 GAGGCCGGGCCAAGGACGTGCGCGCGGGGAGCAAGCGGCTCTCGTGGAAGATCCACATGCCCGCGGCC
 TGGTGGCCAACTGTGCGACGACAGGTACAACCTGGTGTCTACCACAGAGGTGCAGCGGGGCTGGACGG
 CCGCGTGTGTACTGGCCAGCGCGCGCTCTGGGGTGGCTCCTCATCCCTCAATGCCATGGTCTACGTC
 CGTGGGCACGCCGAGGACTACGAGCGCTGGCAGCGCCAGGGCGCCCGCGGCTGGGACTACGCGACTGCC
 TGCCCTACTTCCGAAGGCGCAGGGCCACGAGCTGGGCGCCAGCCGGTACCGGGGCGCCGATGGCCCGCT
 GCGGGTGTCCCGGGCAAGACCAACCACCGCTGCACTGCGCATTCCTGGAGGCCACGCAGCAGGCCGGC
 TACCCGCTCACCGAGGACATGAATGGCTTCCAGCAGGAGGGCTTCGGCTGGATGGACATGACCATCCATG
 AAGGCAAACGGTGGAGCGCAGCCTGTGCCTACCTGCACCCAGCACTGAGCCGCACCAACCTCAAGGCCGA
 GGCCGAGACGCTTGTGAGCAGGGTGTATTTGAGGGCACCCGTGCAGTGGGCGTGGAGTATGTCAAGAAT
 GGCCAGAGCCACAGGGCTTATGCCAGCAAGGAGGTGATTCTGAGTGGAGGTGCCATCAACTCTCCACAGC
 TGCTCATGCTCTCTGGCATCGGGAATGCTGATGACCTCAAGAACTGGGCATCCCTGTGGTGTGCCACCT
 ACCTGGGGTGGCCAGAACCTGCAAGACCACCTGGAGATCTACATTACAGAGGCATGCACCCGCCCTATC
 ACCCTCCATTACGACAGAAGCCCTGCGGAAGGTCTGCATTGGTCTGGAGTGGCTCTGGAAATTCACAG
 GGGAGGGAGCCACTGCCCATCTGGAACAGGTGGGTTCATCCGCAGCCAGCCTGGGGTCCCCACCCGGA
 CATCCAGTTCATTTCTGCCATCCCAAGTGATTGACCACGGGCGGGTCCCCACCCAGCAGGAGGCTTAC
 CAGGTACATGTGGGGCCCATGCGGGGCACGAGTGTGGGTGGCTCAAACCTGAGAAGTGCCATCCCCAAG
 ACCACCTGTGATCCAGCCCACTACTTGTCAACAGAACTGATATTGAGGATTTCCGTCTGTGTGTGAA
 GCTCACCAGAGAAATTTTGCACAGGAAGCCCTGGCTCCGTTCCGAGGAAAGAGCTCCAGCCAGGAAGC
 CACATTAGTCAGATAAAGAGATAGATGCCTTTGTGCGGGCAAAAGCCGACAGCGCTACCAACCCCTCGT
 GCACCTGTAAGATGGGCCAGCCCTCCGATCCCACTGCCGTGGTGGATCCGAGACAAGGGTCTCGGGGT
 GGAAAACCTCAGGGTCGTCGATGCCTCCATCATGCCTAGCATGGTCAGCGGCAACCTGAACGCCCCACA
 ATCATGATCGCAGAGAAGGCAGCTGACATTATCAAGGGCAGCCTGCACTCTGGGACAAAGATGTCCCTG
 TCTACAAGCCCAGGACGCTGGCCACCCAGCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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

MWCLLRGLGRPGALARGALGQQSLGARALASAGSESRDEYSYVVVGAGSAGCVLAGRLTEDPAERVL
 EAGPKDVRAGSKRLSWKIHPAALVANLCDDRYNWCYHTEVQRGLDGRVLYWPRGRVWGGSSSLNAMVYV
 RGHAEYERWQRQARGWDYAHCLPYFRKAQGHELGASRYRGADGPLRVSRGKTNHLHCAFLEATQQAG
 YPLTEDMNGFQQEGFGWMDMTIHEGKRWSAACAYLHPALSRTNLKAEETLSRVLFEGTRAVGVEYVKN
 GQSHRAYASKEVILSGGAINSPQLMLSGIGNADDLKKLGIPVCHLPVGVQNLQDHLIYIQQACTRPI
 TLHSAQKPLRKVCIGLEWLWKFTEGATAHLETGGFIRSQPGVPHPIQFHLPSQVIDHGRVPTQQEAY
 QVHVGPMRGTSVGWLKLSANPDHPVPIQPNYLSTETDIEDFRLCVKL TREIFAQEALAPFRGKELQPGS
 HIQSDKEIDAFVRAKADSAYHPSCTCKMGQPSDPTAVVDPQTRVLGVENLRVVDASIMPSMVSGNLNAPT
 IMIAEKAADIIGQPALWDKDVVYKPRTLATQR

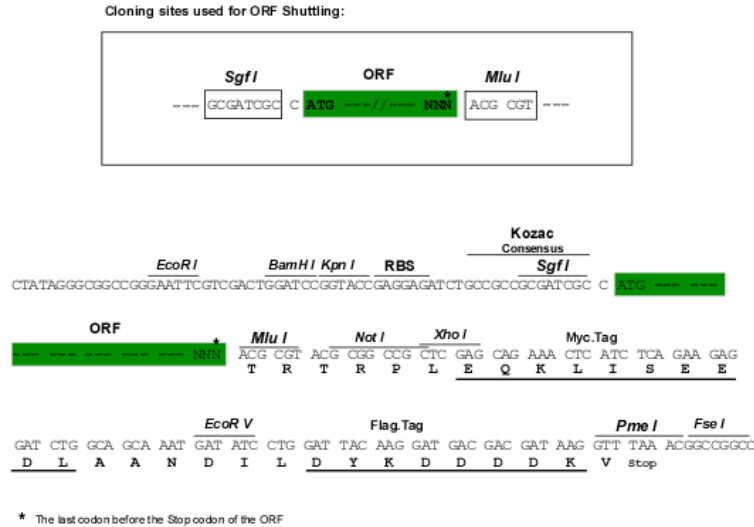
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

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

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

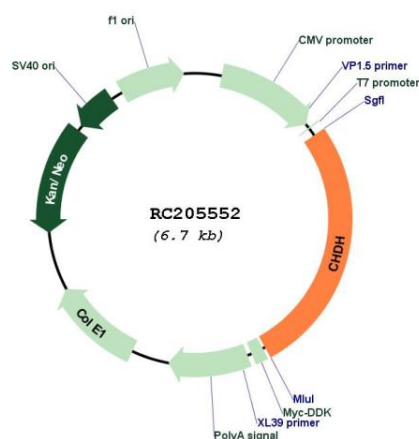
RefSeq: [NM_018397.2](#)

RefSeq Size: 3711 bp

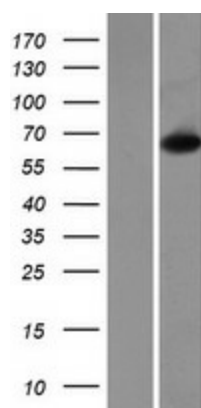
RefSeq ORF: 1785 bp

Locus ID:	55349
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 untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205552 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).