

BCHE cDNA

Catalog Number: ATGD0421

PRODUCT INFORMATION

Catalog number

ATGD0421

Product type

cDNA

Species

Human

NCBI Accession No.

NP_000046.1

Alternative Names

CHE1, CHE2, E1, Butyrylcholinesterase, Cholinesterase 1

mRNA Refseq

NM_000055.2

OMIM

177400

Chromosome location

3q26.1-q26.2

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

1809bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted Apa I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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BCHE belongs to the type-B carboxylesterase/lipase family. Mutant alleles at the BCHE locus are responsible for suxamethonium sensitivity. Defects in BCHE are the cause of butyrylcholinesterase deficiency (BChE deficiency). BChE deficiency is a metabolic disorder characterized by prolonged apnoea after the use of certain anesthetic drugs, including the muscle relaxants succinylcholine or mivacurium and other ester local anesthetics

DATA

Sequence nucleotides

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ATGCATAGCAAAGTCACAATCATATGCATCAGATTTCTCTTTTGGTTTTCTTTGCTCTGCATGCTTATTGGGAAGTCACATACT
GAAGATGACATCATAATTGCAACAAAGAATGGAAAAGTCAGAGGGATGAACTTGACAGTTTTTTGGTGGCACGGTAACAGCC
TTTCTTGAATTCCCTATGCACAGCCACCTCTTGGTAGACTTCGATTCAAAAAGCCACAGTCTCTGACCAAGTGGTCTGATAT
TTGGAATGCCACAAAATATGCAAATTCTTGCTGTCAGAACATAGATCAAAGTTTTCCAGGCTTCCATGGATCAGAGATGTGG
AACCCAAACACTGACCTCAGTGAAGACTGTTTATATCTAAATGTATGGATTCCAGCACCTAAACCAAAAAATGCCACTGTATT
GATATGGATTTATGGTGGTGGTTTTCAAACCTGGAACATCATCTTTACATGTTTATGATGGCAAGTTTCTGGCTCGGGTTGAAA
GAGTTATTGTAGTGTCAATGAACTATAGGGTGGGTGCCCTAGGATTCTTAGCTTTGCCAGGAAATCCTGAGGCTCCAGGGA
ACATGGGTTTATTTGATCAACAGTTGGCTCTTCAGTGGGTTCAAAAAAATATAGCAGCCTTTGGTGGAAATCCTAAAAGTGTA
ACTCTCTTTGGAGAAAGTGCAGGAGCAGCTTCAGTTAGCCTGCATTTGCTTTCTCCTGGAAGCCATTTCATTGTTACCAGAG
CCATTCTGCAAAGTGGATCCTTTAATGCTCCTTGGGCGGTAACATCTCTTTATGAAGCTAGGAACAGAACGTTGAACTTAGCT
AAATTGACTGGTTGCTCTAGAGAGAATGAGACTGAAATAATCAAGTGTCTTAGAAATAAAGATCCCCAAGAAATTCTTCTGAA
TGAAGCATTTGTTGTCCCCTATGGGACTCCTTTGTCAGTAACTTTGGTCCGACCGTGGATGGTGAATTTCTCACTGACATGC
CAGACATATTACTTGAACCTGGACAATTTAAAAAACCCAGATTTTGGTGGGTGTTAATAAAGATGAAGGGACAGCTTTTTTA
GTCTATGGTGTCTCCTGGCTTCAGCAAAGATAACAATAGTATCATAACTAGAAAAGAATTTAGGAAGGTTTAAAAATATTTTT
TCCAGGAGTGAGTGAGTTTGGAAAGGAATCCATCCTTTTTTTCATTACACAGACTGGGTAGATGATCAGAGACCTGAAAACCTAC
CGTGAGGCCTTGGGTGATGTTGTTGGGGATTATAATTTTCATATGCCCTGCCTTGGAGTTCACCAAGAAGTTCTCAGAATGGG
GAAATAATGCCTTTTTTCTACTATTTTGAACACCGATCCTCCAAACTTCCGTGGCCAGAATGGATGGGAGTGATGCATGGCTAT
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GAAACGGTGGGCAAATTTTGCAAATATGGGAATCCAAATGAGACTCAGAACAATAGCACAAGCTGGCCTGTCTTCAAAAAG
CACTGAACAAAAATATCTAACCTTGAATACAGAGTCAACAAGAATAATGACGAAACTACGTGCTCAACAATGTGCGATTCTGG
ACATCATTTTTTCCAAAAGTCTTGAAATGACAGGAAATATTGATGAAGCAGAATGGGAGTGGAAAGCAGGATTCCATCGCT
GGAACAATTACATGATGGACTGGAAAAATCAATTTAACGATTACACTAGCAAGAAAGAAAGTTGTGTGGGTCTCTAA
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Transaction Sequence

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MHSKVTIICI RFLFWLLLC MLIKSHTE DIIATKNGK VRGMNLTVFG GTVTAFLGIP YAQPPLRLR FKKPQSLTKW
SDIWNATKYA NSCCQNIDQS FPGFHGSEMW NPNTDLSEDC LYLNWVWIPAP KPKNATVLIW IYGGGFQTGT SSLHVYDGF
LARVERVIVV SMNYRVGALG FLALPGNPEA PGNMGLFDQQ LALQWVQKNI AAFGGNPKSV TLFGESAGAA SVSLHLLSPG
SHSLFTRAIL QSGSFNAPWA VTSLYEARNR TLNLAKLTGC SRENETEIIK CLRNKDPQEI LLNEAFVVPY GTPLSVNFGP
TVDGDFLTDM PDILLELGQF KKTQILVGVN KDEGTAFLVY GAPGFSKDN SIITRKEFQE GLKIFFPGVS EFGKESILFH
YTDWVDDQRP ENYREALGDV VGDYNFICPA LEFTKKFSEW GNNAFFYYFE HRSSKLPWPE WMGMVHGYEI EFVFLPLER
RDNYTKAEI LRSIVKRWA NFAKYGNPNE TQNNSTSWPV FKSTEQKYL LNTSTRIMT KLRAQQCRFW TSFFPKVLEM
TGNIDEAEWE WKAGFHRWNN YMDWKNQFN DYTSKKESCV GL
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