

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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ATGCATAGCAAAGTCACAATCATATGCATCAGATTTCTCTTTGGTTTCTTTGCTCTGCATGCTTATTGGGAAGTCACATACT
GAAGATGACATCATAATTGCAACAAAGAATGGAAAAGTCAGAGGGATGAACTTGACAGTTTTTGGTGGCACGGTAACAGCC
TTTCTTGGAATTCCTATGCACAGCCACCTCTTGGTAGACTTCGATTCAAAAAGCCACAGTCTCTGACCAAGTGGTCTGATAT
TTGGAATGCCACAAAATATGCAAATCTTGTCTGTCAGAACATAGATCAAAGTTTTCCAGGCTTCCATGGATCAGAGATGTGG
AACCCAAACACTGACCTCAGTGAAGACTGTTTATATCTAAATGTATGGATTCCAGCACCTAAACCAAAAAATGCCACTGTATT
GATATGGATTTATGGTGGTGGTTTTCAAACCTGGAACATCATCTTTACATGTTTATGATGGCAAGTTTCTGGCTCGGGTTGAAA
GAGTTATTGTAGTGTCAATGAACCTATAGGGTGGGTGCCCTAGGATTCTTAGCTTTGCCAGGAAATCCTGAGGCTCCAGGGA
ACATGGGTTTATTTGATCAACAGTTGGCTCTTCAGTGGGTTCAAAAAATATAGCAGCCTTTGGTGGAAATCCTAAAAGTGTA
ACTCTCTTTGGAGAAAGTGCAGGAGCAGCTTCAGTTAGCCTGCATTTGCTTTCTCTGGAAGCCATTTCATTGTTCAACCAGAG
CCATTCTGCAAAGTGGATCCTTTAATGCTCCTTGGGCGGTAACATCTCTTTATGAAGCTAGGAACAGAACGTTGAACCTTAGCT
AAATTGACTGGTTGCTCTAGAGAGAATGAGACTGAAATAATCAAGTGTCTTAGAAATAAAGATCCCCAAGAAATTCTTCTGAA
TGAAGCATTTGTTGTCCCCTATGGGACTCCTTTGTCAGTAACTTTGGTCCGACCGTGGATGGTGAATTTCTCACTGACATGC
CAGACATATTACTTGAACCTGGACAATTTAAAAAAACCCAGATTTTGGTGGGTGTTAATAAAGATGAAGGGACAGCTTTTTTA
GTCTATGGTGCTCCTGGCTTCAGCAAAGATAACAATAGTATCATAACTAGAAAAGAATTTAGGAAGGTTTAAAAATATTTTT
TCCAGGAGTGAGTGAGTTTGGAAAGGAATCCATCCTTTTTTTCATTACACAGACTGGGTAGATGATCAGAGACCTGAAAACCTAC
CGTGAGGCCTTGGGTGATGTTGTTGGGGATTATAATTTTCATATGCCCTGCCTTGGAGTTCACCAAGAAGTTCTCAGAATGGG
GAAATAATGCCTTTTTTCTACTATTTTGAACACCGATCCTCCAACTTCCGTGGCCAGAATGGATGGGAGTGATGCATGGCTAT
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GAAACGGTGGGCAAATTTTGCAAATATGGGAATCCAAATGAGACTCAGAACAAATAGCACAAGCTGGCCTGTCTTCAAAAAG
CACTGAACAAAAATATCTAACCTTGAATACAGAGTCAACAAGAATAATGACGAACTACGTGCTCAACAATGTCGATTCTGG
ACATCATTTTTTCCAAAAGTCTTGAAATGACAGGAAATATTGATGAAGCAGAATGGGAGTGGAAGCAGGATTCCATCGCT
GGAACAATTACATGATGGACTGGAAAAATCAATTTAACGATTACACTAGCAAGAAAGAAAGTTGTGTGGGTCTCTAA
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Transaction Sequence

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MHSKVTIICI RFLFWLLLC MLIGKSHTE DIIATKNGK VRGMNLTVFG GTVTAFLGIP YAPPLGLRL FKKPQSLTKW
SDIWNATKYA NSCCQNIDQS FPGFHGSEMW NPNTDLSEDC LYLNWVWIPAP KPKNATVLIW IYGGGFQTGT SSLHVVYDGKF
LARVERVIVV SMNYRVGALG FLALPGNPEA PGNMGLFDQQ LALQWVQKNI AAFGGNPKSV TLFGESAGAA SVSLHLLSPG
SHSLFTRAIL QSGSFNAPWA VTSLEYARNR TLNLAKLTGC SRENETEIIK CLRNKDPQEI LLNEAFVVPY GTPLSVNFGP
TVDGDFLTDM PDILLELGQF KKTQILVGVN KDEGTAFLVY GAPGFSKDNN SIITRKEFQE GLKIFFPGVS EFGKESILFH
YTDWVDDQRP ENYREALGDV VGDYNFICPA LEFTKKFSEW GNNAFFYYFE HRSSKLPWPE WMGVMHGYEI EFVFGPLPLER
RDNYTKAEEI LRSIVKRWA NFAKYGNPNE TQNNSTSWPV FKSTEQKYL LNTSTRIMT KLRAQQCRFW TSFFPKVLEM
TGNIDEAEWE WKAGFHRWNN YMDWKNQFN DYTSKKESCV GL
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