

TUBB3 cDNA

Catalog Number: ATGD0184

PRODUCT INFORMATION

Catalog number

ATGD0184

Product type

cDNA

Species

Human

NCBI Accession No.

NP_006077.2

Alternative Names

Tubulin beta 3 class III, Tubulin, beta 3 class III, beta-4, CDCBM, CFEOM3A, TuBB4, TUBB3, FEOM3, fibrosis of extraocular muscles, congenital

mRNA Refseq

NM_006086.3

OMIM

602661

Chromosome location

16q24.3

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

1353bp

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 Nde I to Hind III. 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)

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General Description

TUBB3 encodes a class III member of the beta tubulin protein family. Beta tubulins are one of two core protein families (alpha and beta tubulins) that heterodimerize and assemble to form microtubules. This protein is primarily expressed in neurons and may be involved in neurogenesis and axon guidance and maintenance. Mutations in this gene are the cause of congenital fibrosis of the extraocular muscles type 3. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 6.

DATA

Sequence nucleotides

ATGAGGGAGATCGTGACATCCAGGCCGGCCAGTGCGGCAACCAGATCGGGGCCAAGTTCTGGGAAGTCATCAGTGATGA
GCATGGCATCGACCCCAGCGGCAACTACGTGGGCGACTCGGACTTGCAGCTGGAGCGGATCAGCGTCTACTACAACGAGG
CCTCTTCTCACAAGTACGTGCCTCGAGCCATTCTGGTGGACCTGGAACCCGGAACCATGGACAGTGTCCGCTCAGGGGCCT
TTGGACATCTCTTCAGGCCTGACAATTTTCATCTTTGGTCAGAGTGGGGCCGGCAACAACCTGGGCCAAGGGTCACTACACGG
AGGGGGCGGAGCTGGTGGATTTCGGTCTGGATGTGGTTCGGAAGGAGTGTGAAAACCTGCGACTGCCTGCAGGGCTTCCA
GCTGACCCACTCGCTGGGGGGCGGCACGGGCTCCGGCATGGGCACGTTGCTCATCAGCAAGGTGCGTGAGGAGTATCCC
GACCGCATCATGAACACCTTCAGCGTCGTGCCCTCACCCAAGGTGTGAGACACGGTGGTGGAGCCCTACAACGCCACGCTG
TCCATCCACCAGCTGGTGGAGAACACGGATGAGACCTACTGCATCGACAACGAGGCGCTCTACGACATCTGCTTCCGCACC
CTCAAGCTGGCCACGCCACCTACGGGGACCTCAACCACCTGGTATCGGCCACCATGAGCGGAGTCACACCTCCTTGCGC
TTCCCGGGCCAGCTCAACGCTGACCTGCGCAAGCTGGCCGTCAACATGGTGGCCTTCCCGCGCCTGCACTTCTTCATGCCC
GGCTTCGCCCCCTCACAGCCCGGGGCGAGCCAGCAGTACCGGGCCCTGACCGTGCCCGAGCTCACCCAGCAGATGTTCTGA
TGCCAAGAACATGATGGCCGCCTGCGACCCGCGCCACGGCCGCTACCTGACGGTGGCCACCGTGTTCCGGGGCCGCATGT
CCATGAAGGAGGTGGACGAGCAGATGCTGGCCATCCAGAGCAAGAACAGCAGCTACTTCGTGGAGTGGATCCCCAACAAAC
GTGAAGGTGGCCGTGTGTGACATCCCCGCCCGCGGCCCTCAAGATGTCTCCACCTTCATCGGGAACAGCACGGCCATCCA
GGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCCTTCTGCACTGGTACACGGGCGAGG
GCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACGACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCC
ACGGCCGAGGAAGAGGGGCGAGATGTACGAAGACGACGAGGAGGAGTCGGAGGCCCGAGGGCCCCAAGTGA

Transaction Sequence

MREIVHIQAG QCGNQIGAKF WEVISDEHGI DPSGNYVGDS DLQLERISVY YNEASSHKYV PRILVDLEP GTMDSVRSGA
FGHLFRPDNF IFQSGAGNN WAKGHYTEGA ELVDSVLDVV RKECENDCL QGFQLTHSLG GGTGSGMGTL LISKVREEYP
DRIMNTFSVV PSPKVS DTVV EPYNATLSIH QLVENTDETY CIDNEALYDI CFRTLKLATP TYGDLNHLVS ATMSGVTSL
RFPGQLNADL RKLAVNMVFP PRLHFFMPGF APLTARGSQQ YRALTVPILT QMFDAKNMM AACDPRHGRY LTVATVFRGR
MSMKEVDEQM LAIQSKNSSY FVEWIPNNVK VAVCDIPPRG LKMSSTFIGN STAIQELFKR ISEQFTAMFR RKAFLHWYTG
EGMDEMEFTE AESNMNDLVS EYQQYQDATA EEGEMYEDD EESEAQGPK