

PSMB3 cDNA

Catalog Number: ATGD0163

PRODUCT INFORMATION

Catalog number

ATGD0163

Product type

cDNA

Species

Human

NCBI Accession No.

NP_002786.2

Alternative Names

HC10-II

mRNA Refseq

NM_002795.3

OMIM

602176

Chromosome location

17q12

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

618bp

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 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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The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. The 26 S proteasome may be involved in trinucleotide repeat expansion, a phenomenon which is associated with many hereditary neurological diseases. Pseudogenes have been identified on chromosomes 2 and 12. Alternative splicing results in multiple transcript variants

DATA

Sequence nucleotides

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ATGTCTATTATGTCCTATAACGGAGGGGCCGTCATGGCCATGAAGGGGAAGAAGTGTGTGGCCATCGCTGCAGACAGGCG
CTTCGGGATCCAGGCCAGATGGTGACCACGGACTTCCAGAAGATCTTTCCCATGGGTGACCGGCTGTACATCGGTCTGGC
CGGGCTCGCCACTGACGTCCAGACAGTTGCCAGCGCCTCAAGTTCGGGCTGAACCTGTATGAGTTGAAGGAAGGTCCGC
AGATCAAACCTTATACCCTCATGAGCATGGTGGCCAACCTCTTGTATGAGAAACGGTTTGGCCCTTACTACTGAGCCAGT
CATTGCCGGGTTGGACCCGAAGACCTTAAAGCCCTTCATTTGCTCTCTAGACCTCATCGGCTGCCCATGGTGACTGATGAC
TTTGTGGTCAAGTGGCACCTGCGCCGAACAAATGTACGGAATGTGTGAGTCCCTCTGGGAGCCCAACATGGATCCGGATCAC
CTGTTTAAAACCATCTCCAAGCCATGCTGAATGCTGTGGACCGGGATGCAGTGTGAGGCATGGGAGTCATTGTCCACATC
ATCGAGAAGGACAAAATCACCACCAGGACACTGAAGGCCCGAATGGACTAA
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Transaction Sequence

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MSIMSYNGGA VMAMKGKNCV AIAADRRFGI QAQMVTTDFQ KIFPMGDRLY IGLAGLATDV QTVAQRLKFR LNLyelKEGR
QIKPYTLMSM VANLLYEKRF GPYYTEPVIA GLDPKTFKPF ICSDLIGCP MVTDDFVVS G TCAEQMYGMC ESLWEPNMDP
DHLFETISQA MLNAVDRDAV SGMGVIVHII EKDKITRTL KARMD
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