

PSMB2 cDNA

Catalog Number: ATGD0162

PRODUCT INFORMATION

Catalog number

ATGD0162

Product type

cDNA

Species

Human

NCBI Accession No.

NP_002785.1

Alternative Names

HC7-I

mRNA Refseq

NM_002794.4

OMIM

602175

Chromosome location

1p34.2

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

606bp

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 BamH 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. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.

DATA

Sequence nucleotides

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ATGGAGTACCTCATCGGTATCCAAGGCCCCGACTATGTTCTTGTCGCCTCCGACCGGGTGGCCGCCAGCAATATTGTCCAG
ATGAAGGACGATCATGACAAGATGTTTAAAGATGAGTGAAAAGATATTACTCCTGTGTGTTGGAGAGGCTGGAGACACTGTA
CAGTTTGCAGAATATATTCAGAAAAACGTGCAACTTTATAAGATGCGAAATGGATATGAATTGTCTCCCACGGCAGCAGCTA
ACTTCACACGCCGAAACCTGGCTGACTGTCTTCGGAGTCGGACCCCATATCATGTGAACCTCCTCCTGGCTGGCTATGATGA
GCATGAAGGGCCAGCGCTGTATTACATGGACTACCTGGCAGCCTTGCCAAGGCCCTTTTGCAGCCCACGGCTATGGTGC
CTTCCTGACTCTCAGTATCCTCGACCGATACTACACACCGACTATCTCACGTGAGAGGGCAGTGGAACCTCCTTAGGAAATGT
CTGGAGGAGCTCCAGAAACGCTTCATCCTGAATCTGCCAACCTTCAGTGTTTCAATCATTGACAAAAATGGCATCCATGACC
TGGATAACATTTCTTCCCAAACAGGGCTCCTAA
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Transaction Sequence

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MEYLIGIQGP DYVLVASDRV AASNIVQMKD DHDKMFKMSE KILLLCVGEA GDTVQFAEYI QKNVQLYKMR NGYELSPTAA
ANFTRRNLDL CLRSRTPYHV NLLLAGYDEH EGPALYYMDY LAALAKAPFA AHGYGAFLTL SILDRYYTPT ISRERAVELL
RKCLEELQKR FILNLPTFSV RIIDKNGIHD LDNISFPKQG S
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