

## PSMB2 cDNA

Catalog Number: ATGD0162

### PRODUCT INFORMATION

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**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

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**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

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#### Sequence nucleotides

```
ATGGAGTACCTCATCGGTATCCAAGGCCCGACTATGTTCTTGTCGCCTCCGACCGGGTGGCCGCCAGCAATATTGTCCAG
ATGAAGGACGATCATGACAAGATGTTTAAAGATGAGTGAAAAGATATTACTCCTGTGTGTTGGAGAGGCTGGAGACTGTA
CAGTTTGCAGAATATATTCAGAAAAACGTGCAACTTTATAAGATGCGAAATGGATATGAATTGTCTCCCACGGCAGCAGCTA
ACTTCACACGCCGAAACCTGGCTGACTGTCTTCGGAGTCGGACCCCATATCATGTGAACCTCCTCCTGGCTGGCTATGATGA
GCATGAAGGGCCAGCGCTGTATTACATGGACTACCTGGCAGCCTTGCCAAGGCCCTTTTGCAGCCCACGGCTATGGTGC
CTTCCTGACTCTCAGTATCCTCGACCGATACTACACACCGACTATCTCACGTGAGAGGGCAGTGGAACCTCCTTAGGAAATGT
CTGGAGGAGCTCCAGAAACGCTTCATCCTGAATCTGCCAACCTTCAGTGTTTGAATCATTGACAAAAATGGCATCCATGACC
TGGATAACATTTCTTCCCAAACAGGGCTCCTAA
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#### Transaction Sequence

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