

Product datasheet for RG209326

PSMB5 (NM_002797) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PSMB5 (NM_002797) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: PSMB5

Synonyms: LMPX; MB1; X

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG209326 representing NM_002797

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCGCTTGCCAGCGTGTTGGAGAGACCGCTACCGGTGAACCAGCGCGGGTTTTTCGGACTTGGGGGTC
GTGCAGATCTGCTGGATCTAGGTCCAGGGAGTCTCAGTGATGGTCTGAGCCTGGCCCAGGCTGGGG
TGTCCCAGAAGAGCCAGGAATCGAAATGCTTCATGGAACAACCACCCTGGCCTTCAAGTTCCGCCATGGA
GTCATAGTTGCAGCTGACTCCAGGGGCTACAGCGGGTGCTTACATTGCCTCCCAGACCGTGAAGAAGGTGA
TAGAGATCAACCCATACCTGCTTGGCACCATGGCTGGGGGCCAGCGGATTGCAGCTTCTGGGAACGGCT
GTTGGCTCGGCAATGTCGAATCTATGAGCTTCGAAATAAAGGAACGCATCTCTGTAGCAGCTGCCTCCAAA
CTGCTTGCCAACATGGTGTATCAGTACAAAAGGCATGGGGCTGCCATCATGAGCACCTTCTCTGT
AGGTTCTGGCTCTGTGTATGCATATGGGGTCATGGACAGGGAACCGGATTTCCTATGACCTGGAAGTGGACAG
GCCTATGATCTGGCCCGTCGAGCCATCTACCAAGCCACCTACAGAGATGCCTACTCAGGAGGTGCAGTCA
ACCTCTACCACGTGCGGGAGGATGGCTGGATCCGAGTTCCCAGTGACAATGTGGCTGATCTACATGAGAA

GTATAGTGGCTCTACCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com **Protein Sequence:** >RG209326 representing NM_002797

Red=Cloning site Green=Tags(s)

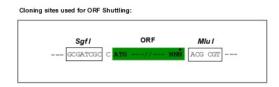
MALASVLERPLPVNQRGFFGLGGRADLLDLGPGSLSDGLSLAAPGWGVPEEPGIEMLHGTTTLAFKFRHG VIVAADSRATAGAYIASQTVKKVIEINPYLLGTMAGGAADCSFWERLLARQCRIYELRNKERISVAAASK LLANMVYQYKGMGLSMGTMICGWDKRGPGLYYVDSEGNRISGATFSVGSGSVYAYGVMDRGYSYDLEVEQ AYDLARRAIYQATYRDAYSGGAVNLYHVREDGWIRVSSDNVADLHEKYSGSTP

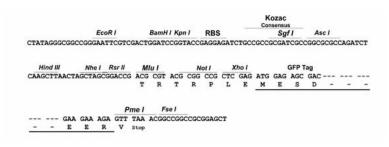
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





ACCN: NM_002797

ORF Size: 789 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).



Reconstitution Method:

- 1. Centrifuge at 5,000xg for 5min.
- 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
- 3. Close the tube and incubate for 10 minutes at room temperature.
- 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
- 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: <u>NM 002797.2</u>, <u>NP 002788.1</u>

 RefSeq Size:
 1050 bp

 RefSeq ORF:
 792 bp

 Locus ID:
 5693

 UniProt ID:
 P28074

 Cytogenetics:
 14q11.2

Domains:proteasomeProtein Families:ProteaseProtein Pathways:Proteasome

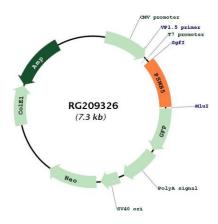
Gene Summary: The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S

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 in the proteasome. This catalytic subunit is not present in the immunoproteasome and is replaced by catalytic subunit 3i (proteasome beta 8 subunit). Multiple transcript variants encoding different isoforms have been found for this gene.

[provided by RefSeq, Jan 2009]



Product images:



Circular map for RG209326