

Product datasheet for MG202051

Psmb2 (NM_011970) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Psmb2 (NM_011970) Mouse Tagged ORF Clone

Tag: TurboGFP Symbol: Psmb2

Synonyms: AU045357; AW108089; C7-I; D4Wsu33e; HC7-I

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >MG202051 representing NM_011970

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

 ${\tt CATCCACAATCTGGAGAACATTGCCTTCCCTAAGCGGGACTCC}$

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202051 representing NM_011970

Red=Cloning site Green=Tags(s)

MEYLIGIQGPDYVLVASDRVAASNIVQMKDDHDKMFKMSEKILLLCVGEAGDTVQFAEYIQKNVQLYKMR NGYELSPTAAANFTRRNLADCLRSRTPYHVNLLLAGYDEHEGPALYYMDYLAALAKAPFAAHGYGAFLTL

SILDRYYTPTISRERAVELLRKCLEELQKRFILNLPTFSVRVIDKDGIHNLENIAFPKRDS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



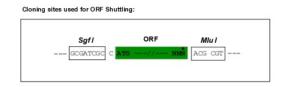
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

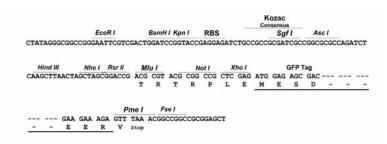
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

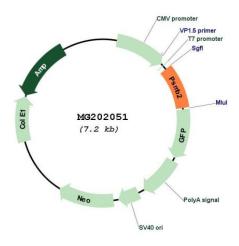


Cloning Scheme:





Plasmid Map:



ACCN: NM_011970

ORF Size: 603 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 011970.4</u>, <u>NP 036100.3</u>

 RefSeq Size:
 817 bp

 RefSeq ORF:
 606 bp

 Locus ID:
 26445

 UniProt ID:
 Q9R1P3

 Cytogenetics:
 4 60.9 cM

Gene Summary: Component of the 20S core proteasome complex involved in the proteolytic degradation of

most intracellular proteins. This complex plays numerous essential roles within the cell by associating with different regulatory particles. Associated with two 19S regulatory particles, forms the 26S proteasome and thus participates in the ATP-dependent degradation of ubiquitinated proteins. The 26S proteasome plays a key role in the maintenance of protein

homeostasis by removing misfolded or damaged proteins that could impair cellular

functions, and by removing proteins whose functions are no longer required. Associated with

the PA200 or PA28, the 20S proteasome mediates ubiquitin-independent protein degradation. This type of proteolysis is required in several pathways including

spermatogenesis (20S-PA200 complex) or generation of a subset of MHC class I-presented

antigenic peptides (20S-PA28 complex).[UniProtKB/Swiss-Prot Function]