

Product datasheet for **MG203487**

Psemb4 (NM_008945) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Psemb4 (NM_008945) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Psemb4
Synonyms: Pros-27
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203487 representing NM_008945
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCGTTTTGGGAGTCACGGGCTGGCCACTGGGCCGGGGTCCGGCTCCGGGGCAGTTTTACCGCA
TCCCGTCCACCCCAGCGGCCTCATGGACCCGGCGTCGGCGCCCTGCGAGGGTCCCATCACTCGGACCCA
GAACCCCATGGTGACCGGACATCGGTACTCGGGTGAAGTTCGACGGCGGAGTGGTGATTGCTGCAGAC
ATGCTGGGCTCCTACGGCTCCCTGGCTCGTTCCGCAATATCTCTCGTATTATGCGAGTCAACGACAGCA
CTATGCTGGGTGCCTCGGAGACTACGCTGATTTCCAGTATTTGAAACAAGTTCTCGGCCAGATGGTGAT
TGATGAAGAGCTGTTGGGAGATGGACACAGCTATAGCCCTAGAGCTATTCATTATGTTGACAAGAGCC
ATGTACAGCCCGCTCCAAGATGAATCCCTGTGGAACACCATGGTCATTGGAGGCTATGCTGACGGAG
AAAGCTTCCTCGTTATGTGGACATGCTTGGTGTAGCTTATGAAGCCCTTCACTGGCCACTGGTTATGG
TGCATACTGGCTCAGCCTCTGCTTCGAGAAGTTCTAGAGAAGCAGCCAGTGCTGAGTCAGACTGAGGCT
CGGGAGCTTGTGGAGCGCTGCATGAGAGTGCTGTACTACAGAGATGCCCGTTCGTATAACCGGTTTCAA
TTGCCACTGTGACTGAAAAGGTGTCGAGATAGAAGGACCGCTGTCCGCACAGACCAACTGGGACATCGC
TCACATGATCAGTGGCTTTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203487 representing NM_008945
 Red=Cloning site Green=Tags(s)

MEAFWESRAGHWAGGPAPGQFYRIPSTPSGLMDPASAPCEGPITRTQNPMVTGTSVLGVKFDGGVVIAAD
 MLGSYGLARFRNISRIMRVNDSTMLGASGDYADFQYLKQVLGQMVIDEELLGDGHSYSPRAIHSWLTRA
 MYSRRSKMNPWLNTMVIIGGYADGESFLGYVDMLGVAYEAPSLATGYGAYLAQPLLREVLEKQPVLSQTEA
 RELVERCMRVLYYRDARSYNRFQIATVTEKGVIEGPLSAQTNWDIAHMISSGFE

TRTRPLE - GFP Tag - V

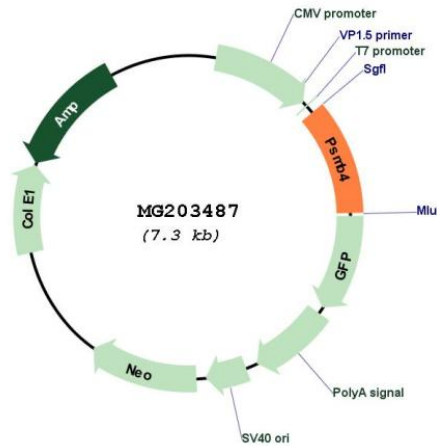
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_008945

ORF Size: 792 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:	<ol style="list-style-type: none"> 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:	NM_008945.1 , NP_032971.1
RefSeq Size:	926 bp
RefSeq ORF:	795 bp
Locus ID:	19172
UniProt ID:	P99026
Cytogenetics:	3 40.74 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). SMAD1/OAZ1/PSMB4 complex mediates the degradation of the CREBBP/EP300 repressor SNIP1.[UniProtKB/Swiss-Prot Function]