

Product datasheet for **MG203313**

Psmid8 (BC005717) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psmid8 (BC005717) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Psmid8
Synonyms:	672045J22Rik; AA407360; AL033291; AL033322; AL033323; C76433
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203313 representing BC005717 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACGAGCAACTCAAGGACGAGTGAACCGGAAGAGCCCGAACCTTAGTAAATGTGGAGAAGAAGCTGG
GCCGCCTGAAGTTGGTTCTGCTTGAGCTCAATTCCTGCCAACCCACGGGGACAACTGACTAAACAGCA
ACTCATTCTGGCCGTGACATTCTGGAGATCGGGGCCAGTGGAGCATCCTGTGCAAAGACATTCCTCC
TTCGAGCGCTACATGGCCCAACTCAAATGCTACTACTTTGATTACAAAGAAGACAGCTTCCTGAGTCAGCCT
ATATGCACCAGCTCCTGGCCTCAATCTCCTCTCCTGCTATCTCAGAACCGAGTGGCTGAGTTCACAC
AGAATTAGAACGATTACCTGCCAAGGACATCCAGACCAATGTCTACATCAAACACCCTGTTCCCTCGAG
CAATACCTCATGGAGGTAGCTACAACAAGGTATTCTGCTAAGGGGAACATCCCTGCCGAAAGCTACA
CCTTCTTCATTGACATCCTGCTGGATACCATCAGGGATGAAATCGCAGGATGCATTGAGAAGGCCTATGA
GAAAATCCTTTTTGCTGAGGCTACCCGGATCCTCTTTCAGCACACCCAAAAAGATGACAGACTATGCC
AAGAAGCGAGGTTGGGTGCTGGGCCCTAACAACTACTACAGCTTTGCCAGCCAGCAGCAGAAGCCAGAAG
ACAGCACCATCCCCTCTACTGAAGTGGCCAAACAAGTCATCGAGTATGCCCGCAGCTGGAGATGATTGT
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203313 representing BC005717
Red=Cloning site Green=Tags(s)

MYEQLKDEWNRKSPNLSKCGEELGRLKLVLELNFLPTTGTKLTKQQLILARDILEIGAQWSILCKDIPS
 FERYMAQLKCYFDYKEQLPESAYMHQLLGLNLLFLLSQNRVAEFHTELERLPAKDIQTNVYIKHPVSLE
 QYLMESYKVF LAKGNIPAESYTFIDILLDIRDEIAGCIEKAYEKILFAEATRILFFSTPKKMTDYA
 KKRGWVLGPNNYSFASQQKPEDSTIPSTELAKQVIEYARQLEMIV

TRTRPLE - GFP Tag - V

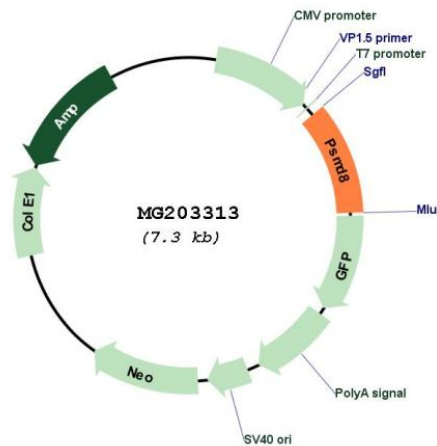
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC005717

ORF Size: 773 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:	BC005717 , AAH05717
RefSeq Size:	1178 bp
RefSeq ORF:	773 bp
Locus ID:	57296
Cytogenetics:	7 B1
Gene Summary:	Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair.[UniProtKB/Swiss-Prot Function]