

Product datasheet for **MG222036**

Psmid8 (NM_026545) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Psmid8 (NM_026545) 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: >MG222036 representing NM_026545
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCAATTAAGGGTCGGGCTGCGAAGACACCCGAGGAGAGCCGCGGCTCCTCCCGGGGGGGCGGA
AACTGGCAGTGGTAGCTCCGCCTCCAGTTTTGGGCTCCACCTCCCGGCTCATTCCCGGGGAGTCCAT
TGCCCGGCGTCGCTGCCGTAAGTCGGTCGGCGGCTTGCCGCATCACGGAAGATGGCGCCACAGCGGT
ACGGTGAACGGTCCGACCACGCTCGAGCTCCGGACCCGCGGCCACCTCGGTGGGATCCTGCAGGCAG
CGGCCGGCATGTACGAGCAACTCAAGGACGAGTGAACCGGAAGAACCCGAACCTTAGTAAATGTGGAGA
AGAACTGGGCCGCTGAAGTTGGTCTGCTTGAGCTCAATTCCTGCCAACCCAGGGACCAAAGTACTGACT
AAACAGCAACTATTCTGGCCGTGACATTCTGGAGATCGGGGCCAGTGGAGCATCCTGTGCAAAGACA
TTCCCTCCTTCGAGCGCTACATGGCCAACTCAAATGCTACTACTTTGATTACAAAGAACAGCTTCTCTGA
GTCAGCCTATATGCACCAGCTCCTGGGCCTCAATCTCCTCTTCTGCTATCTCAGAACCAGTGGCTGAG
TTCCACACAGAATTAGAACGATTACCTGCCAAGGACATCCAGACCAATGTCTACATCAAACCCCTGTT
CCCTCGAGCAATACCTCATGGAGGTAGCTACAACAAGTATTCTGGCTAAGGGGAACATCCCTGCCGA
AAGCTACACCTTCTTATTGACATCCTGCTGGATACCATCAGGGATGAAATCGCAGGATGCATTGAGAAG
GCCTATGAGAAAATCCTTTTTGCTGAGGCTACCCGGATCCTCTTCTCAGCACACCCAAAAGATGACAG
ACTATGCCAAGAAGCGAGGTTGGGTGCTGGCCCTAACAACTACTACAGCTTTGCCAGCCAGCAGCAGAA
GCCAGAAGACAGCACCATCCCCTCTACTGAACTGGCCAAACAAGTCATCGAGTATGCCCGCAGCTGGAG
ATGATTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222036 representing NM_026545
 Red=Cloning site Green=Tags(s)

MFIKGRAAKTPRGEPRSSRGGRKLAVVAPPPVLGSTRPHFRRESIARRRCRKSGRRLAASRKMAATAA
 TVNGSTTVSSSGPAATSVGILQAAAGMYEQLKDEWNRKNPNLSKCGEELGRLKLVLELNLFLPTTGKLT
 KQQLILARDILEIGAQWSILCKDIPSFERYMAQLKCYFYDYKEQLPESAYMHQLLGLNLLFLLSQNRVAE
 FHTELERLPAKDIQTNVYIKHPVSLQYLMEGSYNKVFLAKGNIPAESYTFIDILLDTIRDEIAGCIEK
 AYEKILFAEATRILFFSTPKKMTDYAKKRGWVLGPNNYYSFASQQQKPEDSTIPSTELAKQVIEYARQLE
 MIV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_026545

ORF Size: 1059 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: [NM_026545.3](#), [NP_080821.3](#)

RefSeq Size: 1529 bp

RefSeq ORF: 1062 bp

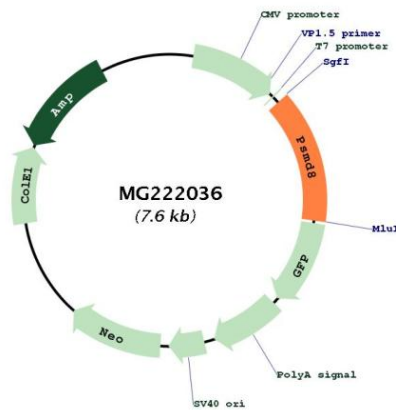
Locus ID: 57296

UniProt ID: [Q9CX56](#)

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]

Product images:



Circular map for MG222036