

Product datasheet for **MG226301**

Psmid10 (NM_001164177) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Psmid10 (NM_001164177) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Psmid10
Synonyms: AW554874
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226301 representing NM_001164177
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGGGTGTGTCTAACATAATGATCTGTAACTGGCCTACAGTGGGAAGCTGGATGAGTTGAAGG
AGCGCATTTTGGCTGATAAATCTCTGGCTACTAGAACTGATCAGGACAGCAGAACAGCTTTCAGCTGGGC
ATGCTCAGCTGGCCATACAGAAATTGTTGAATCTTGCTGCAACTGGAGTGCCAGTGAATGATAAAGAT
GACGCAGGTTGGTCTCCTCTTCATATTGCTGCCTCCGCTGGCCGGGATGAGATTGTAAGCCCTTCTGG
TAAAAGGTGCACATGTGAATGCTGTCAATCAAAACGGCTGCACTCCACTCCATTATGCAGCTTCGAAGAA
TAGGCATGAGATTGCTGTTATGTTACTAGAAAGTGGGGCTAACCCAGATGCGAAGGACCATTACGATGCT
ACAGCAATGCACCGGGCAGCAGCAAGGACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226301 representing NM_001164177
Red=Cloning site Green=Tags(s)

MEGCVSNIMICNLAYSGKLDLKERILADKSLATRTDQDSRTALHWACSGHTEIVEFLLQLGVPVNDKD
DAGWSPLHIAASAGRDEIVKALLVKGAVNAVQNQNGCTPLHYAASKNRHEIAVMLLEGGANPDAKDHYDA
TAMHRAAKDT

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



ACCN: NM_001164177

ORF Size: 453 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_001164177.1](#), [NP_001157649.1](#)

RefSeq Size: 1377 bp

RefSeq ORF: 456 bp

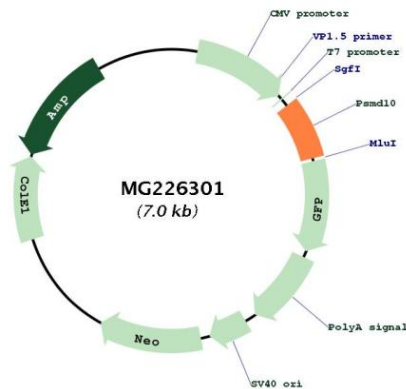
Locus ID: 53380

UniProt ID: [Q9Z2X2](#)

Cytogenetics: X F1

Gene Summary: Acts as a chaperone during the assembly of the 26S proteasome, specifically of the PA700/19S regulatory complex (RC). In the initial step of the base subcomplex assembly is part of an intermediate PSMD10:PSMC4:PSMC5:PAAF1 module which probably assembles with a PSMD5:PSMC2:PSMC1:PSMD2 module (By similarity). Independently of the proteasome, regulates EGF-induced AKT activation through inhibition of the RHOA/ROCK/PTEN pathway, leading to prolonged AKT activation. Plays an important role in RAS-induced tumorigenesis. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226301