

## Product datasheet for **MG218495**

### **Psmf1 (NM\_212446) Mouse Tagged ORF Clone**

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Psmf1 (NM_212446) Mouse Tagged ORF Clone                                    |
| Tag:                      | TurboGFP  |
| Symbol:                   | Psmf1   |
| Synonyms:                 | AW048666; BC012260; PI31  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG218495 representing NM_212446<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGGTCTCGAGTTCTCTTCGCGTCGGCCGCTCCATCCATGAGCTGCCCGCAGGACGCACTCGTCT  
GCTTCCTGCACTGGGAAGTGGTGACAAACGGCTACTATGCCTTGGGCACGGGCGACCAGCCAGGTCCCAG  
TGATAAGAAATCAGAACTACTGCCAGCTAAGTGGAACAGCAATAAAGAACTGTATGCCCTCCGGTATGAG  
TCTAAGGATGGAGCCAGAAAACCTCTTCTGAAAGCTGTCTCTGTGGAGAACGGCATGATCATCAACGTGC  
TGGAACTTGGCACACAGCAGGTGGCAGACTTGACCCTGAACCTTAGATGATTATATTGATGCAGAAGACCT  
GAGTGACTTCCACAGGACCTATAAGAACAGTGAGGAGCTTCGGTCTCAGATCAGATCTGGAATTATCACA  
CCTATCCATGAGCAGTGGGAGAAGGCTCGTGCAAACAGTCCCGAGGGAGTTCCCACCTGCCACTGCCA  
GAGAGGTGGACCCACTCCAGATTTCTCACACCGTCTCATACTAGCAGGCAGCCTGCTTGGCGTGATCC  
CCTGAGCCATTTGCTGTGCGGGGAGATGACCTAGACCCTTTTGGGTGTCAGAGAGGTGGCATGATTGTG  
GATCCCTGAGATCCGGCTTCCAAGAGTACTTATTGACCCATCCTCAGGCCTCCCAAACCGGCTTCTCT  
CTGGTGTGTGCCCCAGGAGCTCGCTTTGACCCCTTTGACCCATTGGGACCAGCCATCTGGACCTAA  
CCCTGACCATCTCCCCACCGGCTACGATGACATGTACCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG218495 representing NM\_212446  
Red=Cloning site Green=Tags(s)

MAGLEVLFAASAAPSMSCPQDALVCFLHWEVVTNGYYALGTGDQPGPSDKKSELLPAKWNSNKELYALRYE  
 SKDGARKLLKAVSVENGMIIINVLELGTQQVADLTNLDDYIDAEDLSDFHRTYKNSEELRSQIRSGIIT  
 PIHEQWEKARANSPPREFPPATAREVDPLQISSHRPHTSRQPARDPLSPFAVGGDDLDPFGCQRGGMIV  
 DPLRSGFPRVLIDPSSGLPNRLPPGAVPPGARDFDFGPIGTSPSGPNPDHLPPPGYDDMYL

TRTRPLE - GFP Tag - V

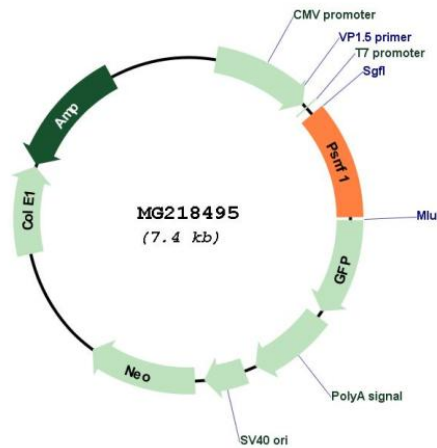
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_212446

**ORF Size:** 813 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_212446.2</a>   |
| <b>RefSeq Size:</b>           | 3542 bp   |
| <b>RefSeq ORF:</b>            | 816 bp  |
| <b>Locus ID:</b>              | 228769  |
| <b>UniProt ID:</b>            | <a href="#">Q8BHL8</a>  |
| <b>Cytogenetics:</b>          | 2 G3  |
| <b>Gene Summary:</b>          | Plays an important role in control of proteasome function. Inhibits the hydrolysis of protein and peptide substrates by the 20S proteasome. Also inhibits the activation of the proteasome by the proteasome regulatory proteins PA700 and PA28 (By similarity).[UniProtKB/Swiss-Prot Function]   |