

## Product datasheet for **RG210046**

### PSMD4 (NM\_002810) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD4 (NM_002810) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSMD4
Synonyms:	AF; AF-1; ASF; MCB1; pUB-R5; Rpn10; S5A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210046 representing NM_002810 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGTGTTGGAAAGCACTATGGTGTGTGGACAACAGTGAGTATATGCGGAATGGAGACTTCTTACCCA  
CCAGGCTGCAGGCCAGCAGGATGCTGTCAACATAGTTTGTTCATTCAAAGACCCGAGCAACCCTGAGAA  
CAACGTGGCCTTATCACACTGGCTAATGACTGTGAAGTGTGACCACACTACCCAGACTGGCCGT  
ATCCTGTCCAAGCTACATACTGTCCAACCAAGGCAAGATCACCTTCTGCACGGGCATCCGCGTGGCC  
ATCTGGCTCTGAAGCACCACAAGCAAGAATCACAAGATGCGCATCATTGCCTTTGTGGGAAGCCAGT  
GGAGGACAATGAGAAGGATCTGGTGAAACTGGCTAAACGCCTCAAGAAGGAGAAAGTAAATGTTGACATT  
ATCAATTTTGGGAAGAGGAGGTGAACACAGAAAAGCTGACAGCCTTTGTAACACGTTGAATGGCAAAG  
ATGGAACCGGTTCTCATCTGGTGACAGTGCCTCCTGGGCCAGTTTGGCTGATGCTCTCATCAGTTCTCC  
GATTTTGGCTGGTGAAGGTGGTGCCATGCTGGTCTTGGTGCCAGTGACTTTGAATTTGGAGTAGATCCC  
AGTGCTGATCCTGAGCTGGCCTTGGCCCTTGTGTATCTATGGAAGAGCAGCGCCAGCGGAGGAGGAGG  
AGGCCCGCGGGCAGCTGCAGCTTCTGTGCTGAGGCCGGATTGCTACGACTGGGACTGAAGACTCAGA  
CGATGCCCTGCTGAAGATGACCATCAGCCAGCAAGAGTTTGGCCGCACTGGGCTTCTGACCTAAGCAGT  
ATGACTGAGGAAGAGCAGATTGCTTATGCCATGCAGATGCCCTGCAGGGAGCAGAGTTTGGCCAGGCCG  
AATCAGCAGACATTGATGCCAGCTCAGCTATGGACACATCTGAGCCAGCCAAGGAGGAGGATGATTACGA  
CGTGATGCAGGACCCCGAGTTCTTTCAGAGTGTCTAGAGAACCCTCCAGGTGTGGATCCCAACAATGAA  
GCCATTCGAAATGCTATGGGCTCCCTGGCTCCAGGCCACCAAGGACGGCAAGAAGGACAAGAAGGAGG  
AAGACAAGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**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\\_002810.4](#)

**RefSeq Size:** 1332 bp

**RefSeq ORF:** 1134 bp

**Locus ID:** 5710

**UniProt ID:** [P55036](#)

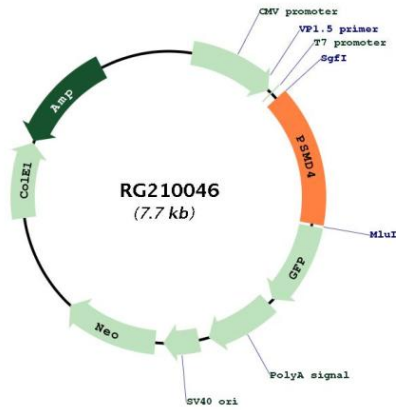
**Cytogenetics:** 1q21.3

**Domains:** VWA, UIM

**Protein Pathways:** Proteasome

**Gene Summary:** The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes one of the non-ATPase subunits of the 19S regulator lid. Pseudogenes have been identified on chromosomes 10 and 21. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210046