

Product datasheet for **RG202307**

PSMD3 (NM_002809) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD3 (NM_002809) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSMD3
Synonyms:	P58; RPN3; S3; TSTA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202307 representing NM_002809
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCAGGAGGCTCGGCGCGGCCGCGCGGACAAGGCCAAACCGCCCGCGGAGGAGAAC
 AAGAACCACCGCCGCGGCCCGCCAGGATGTGGAGATGAAAGAGGAGGCAGCGACGGGTGGCGGGT
 AACGGGGAGGCAGACGGCAAGACGGCGCGGACGCGGCTGAGCACTCCCAGCGAGAGCTGGACACAGT
 ACCTTGGAGGACATCAAGGAGCACGTGAAACAGCTAGAGAAAGCGGTTTCAGGCAAGGAGCCGAGATT
 TGCTGCGGGCCCTGCGGATGCTGCCTCCACATCACGCCGCTCAACCACTATGTTCTGTATAAGGCTGT
 GCAGGGCTTCTCACTTCAAATAATGCCACTCGAGACTTTTTGCTCCCCTCCTGGAAGAGCCCATGGAC
 ACAGAGGCTGATTTACAGTTCGGTCCCCGACGGGAAAAGCTGCGTGAACACCCCTCCTGCCTGAAGTGG
 AAGCCTATCTCCAACCTCCTCGTGGTCATCTTCATGATGAACAGCAAGCGCTACAAAGAGGCACAGAAGT
 CTCTGATGATCTGATGCAGAAGTCACTACTCAGAACCAGCGGGCCCTAGACCTTGTAGCCGAAAGTGT
 TACTATTATCACGCCCGGGTCTATGAGTTCCTGGACAAGCTGGATGTGGTGGCAGCTTCTTGCATGCTC
 GGCTCCGGACAGCTACGCTTCGGCATGACGCAGACGGGACAGGCCACCCTGTTGAACCTCCTGCTGCGGAA
 TTACCTACACTACAGCTTGTACGACCAGGCTGAGAAGCTGGTGTCCAAGTCTGTGTTCCAGAGCAGGCC
 AACAAATGAGTGGGCCAGGTACCTCTACTACACAGGGCGAATCAAAGCCATCCAGCTGGAGTACTCAG
 TGGCCCGGAGAACGATGACCAACGCCCTTCGCAAGGCCCTCAGCACACAGCTGTGCGCTTCAAACAGAC
 GGTGCACAAGCTTCTCATCGTGGTGGAGCTGTTGCTGGGGAGATCCCTGACCGGCTGCAGTTCGCCAG
 CCCTCCCTCAAGCGCTCACTCATGCCCTATTTCTTCTGACTCAAGCTGTCAGGACAGGAAACCTAGCCA
 AGTTCAACCAGGCTCCTGGATCAGTTTGGGGAAGTTTCAAGCAGATGGGACCTACACCCTAATTATCCG
 GCTGCGGCACAACGTGATTAAGACAGGTGACGCATGATCAGCCTCCTATTCCCGAATCTCCTTGGCT
 GACATCGCCAGAACTGCAAGTGGATAGCCCCGAAGATGCAAGTTCATTGTTGCCAAGGCCATCCGGG
 ATGGTGCATTGAGGCCAGCATCAACCAGAGAAGGGCTATGTCCAATCCAAGGAGATGATTGACATCTA
 TTCCACCCGAGAGCCCCAGCTAGCCTTCCACCAGCGCATCTCCTTCTGCCTAGATATCCACAACATGTCT
 GTCAAGGCCATGAGGTTTCTCCAAATCGTACAACAAGGACTTGGAGTCTGCAGAGGAACGGCGTGAGC
 GAGAACAGCAGGACTTGGAGTTTCCAAGGAGATGGCAGAAGATGATGATGACAGCTTCCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG202307 representing NM_002809
 Red=Cloning site Green=Tags(s)

MKQEGSARRRGADKAKPPPGGGEQEP PPPPAPQD VEMKEEAATGGGSTGEADGKTA AAAAEHSQRELDTV
 TLEDIKEHV KQLEKAVSGKEPRFVLRALRMLPSTSRRLNHYVLKAVQGF FTSNNATRD FLLPFLEEPMD
 TEADLQFRPRTGKAASNTLLPEVEAYLQLLVIFMMNSKRYKEAQKISDDL MQKISTQNRRALDLVAAC
 YYYHARVYEF LDKLDVVR SFLHARLRTATLRHDADGQATLLNLLLRNYLHYSLYDQAEKLVSKSVFPEQA
 NNNEWARYLYYTGR IKAIQLEYSVARRTMTNALRKAPQHTAVGFKQTVHKLLIVVELLLGEIPDRLQFRQ
 PSLKRSLMPYFLLTQAVRTGNLAKFNQVLDQFGEK FQADGTYTLIIRLRHNVIKTGVRMISLSYSRISLA
 DIAQKLQLDSPEDA E FIVAKAIRDGVIEASINHEKGYVQSKEMIDIYSTREPQLAFHQRI SFCLDIHNMS
 VKAMRFPKSYNKDLES AEERREREQQDLEFAKEMAEDDDDSFP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_002809

ORF Size: 1602 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_002809.2](#), [NP_002800.2](#)

RefSeq Size: 2174 bp

RefSeq ORF: 1605 bp

Locus ID: 5709

UniProt ID: [O43242](#)

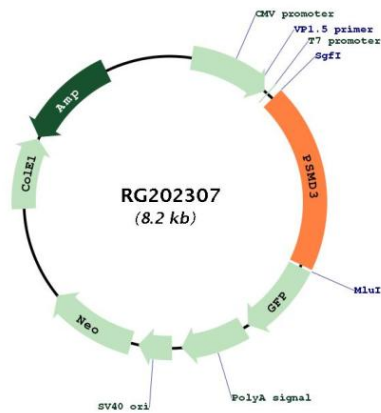
Cytogenetics: 17q21.1

Domains: PCI

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. This gene encodes a member of the proteasome subunit S3 family that functions as one of the non-ATPase subunits of the 19S regulator lid. Single nucleotide polymorphisms in this gene are associated with neutrophil count. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RG202307