

Product datasheet for **RG236612**

Proteasome 20S beta 6 (PSMB6) (NM_001270481) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Proteasome 20S beta 6 (PSMB6) (NM_001270481) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSMB6
Synonyms:	DELTA; LMPY; Y
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236612 representing NM_001270481. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGCTACCTTACTAGCTGCTCGGGGAGCCGGGCCAGCACCGGCTTGGGGGCCGGAGGCGTTCACT
CCAGACTGGGAAAGCCGAGAAGTTTCCACTGGGACCACTATCATGGCCGTGCAGTTTGACGGGGCGTG
GTTCTGGGGCGGACTCCAGAACAACCACTGGGTCCTACATCGCCAATCGAGTGACTGACAAGCTGACA
CCTATTCACGACCGCATTTTCTGCTGTCGCTCAGGCTCAGCTGCTGATACCCAGGCAGTAGCTGATGCT
GTCACCTACCAGCTCGGTTTCCACAGCATTGAACTGAATGAGCCTCCACTGGTCCACACAGCAGCCAGC
CTCTTTAAGGAGATGTGTTACCGATACCGGAAGACCTGATGGCGGGAATCATCATCGCAGGCTGGGAC
CCTCAAGAAGGAGGGCAGGTGACTCAGTGCCTATGGGGGTATGATGGTAAGGCAGTCCTTTGCCATT
GGAGGCTCCGGGAGCTCCTACATCTATGGCTATGTTGATGCTACCTACCGGAAGGCATGACCAAGGAA
GAGTGTCTGCAATTCAGTCCAATGCTTTCTTTTATCCACAGCTCTCGCTTTGGCCATGGAGCGGG
ATGGCTCCAGTGGAGGAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236612
 Blue=ORF Red=Cloning site Green=Tag(s)

MAATLLAARGAGPAPAWGPEAFTPDWESREVSTGTTIMAVQFDGGVVLGADSRRTTGSYIANRVTDKLT
 PIHDRIFCCRSASAADTQAVADAVTYQLGFHSIELNEPPLVHTAASLFKEMCYRYREDLMAGIIAGWD
 PQEGGQVYVPMGGMMVRQSF AIGGSGSSYIYGVDATYREGMTKEECLQFTANAFFFFYPQLSLWPWSG
 MAPVEE

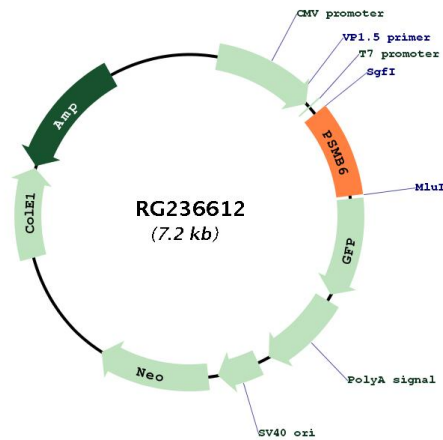
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
 SVIFTDKIIIRSNAVTEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001270481

ORF Size:	639 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).
RefSeq:	NM_001270481.1 , NP_001257410.1
RefSeq Size:	889 bp
RefSeq ORF:	642 bp
Locus ID:	5694
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Proteasome
MW:	23.6 kDa
Gene Summary:	The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure 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. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. The encoded protein is a member of the proteasome B-type family, also known as the T1B family, and is a 20S core beta subunit in the proteasome. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]