

Product datasheet for RC236612

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:	Myc-DDK
Symbol:	PSMB6
Synonyms:	DELTA; LMPY; Y
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC236612 representing NM_001270481 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCTACCTTACTAGCTGCTCGGGAGCCGGCCAGCACCGGCTTGGGGCCGGAGGCGTTCCTC
CAGACTGGAAAGCCGAGAAGTTTCCACTGGGACCACTATCATGGCCGTGCAGTTTGACGGGGCGTGTT
TCTGGGGCGGACTCCAGAACAACCACTGGGTCTACATCGCCAATCGAGTGACTGACAAGCTGACACCT
ATTCACGACCGCATTTTTCTGCTGTGCTCAGGCTCAGCTGCTGATACCCAGGCAGTAGCTGATGCTGCA
CCTACCAGCTCGGTTTCCACAGCATTGAACTGAATGAGCCTCCACTGGTCCACACAGCAGCCAGCCCTCTT
TAAGGAGATGTGTTACCGATACCGGGAAGACCTGATGGCGGGAATCATCATCGCAGGCTGGGACCCTCAA
GAAGGAGGGCAGGTGTAAGTACAGTGCCTATGGGGGTATGATGGTAAGGCAGTCCTTTGCCATTGGAGGCT
CCGGGAGCTCCTACATCTATGGCTATGTTGATGCTACCTACCGGGAAGGCATGACCAAGGAAGAGTGTCT
GCAATTCAGTCCAATGCTTTCTTTTATCCACAGCTCTCGCTTTGGCCATGGAGCGGGATGGCTCCA
GTGGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC236612 representing NM_001270481
 Red=Cloning site Green=Tags(s)

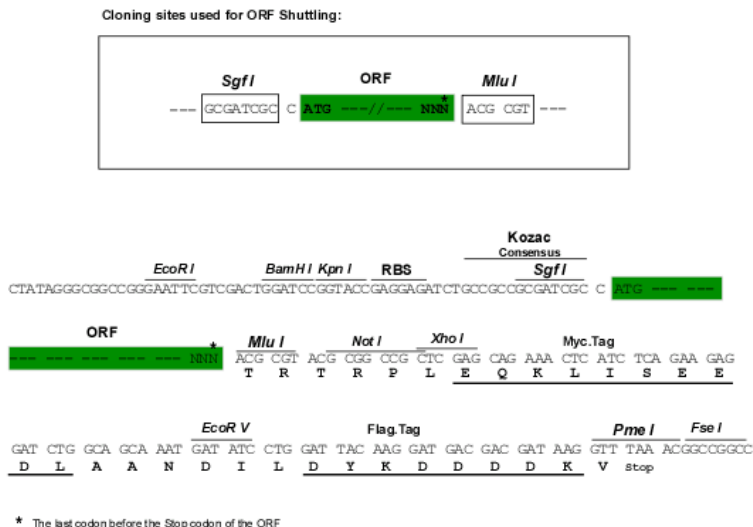
MAATLLAARGAGPAPAWGPEAFTPDWESREVSTGTTIMAVQFDGGVVLGADSRRTTGSYIANRVTDKLTPIH
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 EGGQVYSVPMGGMMVRQSF AIGGSGSSYIYGVDATYREGMTKEECLQFTANAFFFYQLSLWPWSGMAP
 VEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

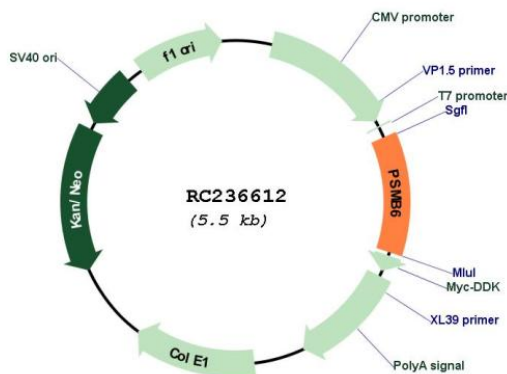
Restriction Sites:

Sgfl-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).
Reconstitution Method:	<ol style="list-style-type: none">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_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]