

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for RG233363

Proteasome subunit beta type 2 (PSMB2) (NM_001199779) Human Tagged ORF Clone

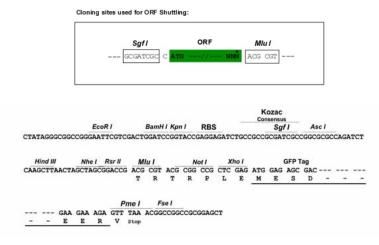
Product data:

Product Type:	Expression Plasmids
Product Name:	Proteasome subunit beta type 2 (PSMB2) (NM_001199779) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Proteasome subunit beta type 2
Synonyms:	HC7-I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG233363 representing NM_001199779 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGAGTACCTCATCGATCATGACAAGATGTTTAAGATGAGTGAAAAGATATTACTCCTGTGTGTTGGAG AGGCTGGAGACACTGTACAGTTTGCAGAATATATTCAGAAAAACGTGCAACTTTATAAGATGCGAAATGG ATATGAATTGTCTCCCACGGCAGCAGCTAACTTCACACGCCGAAACCTGGCTGACTGTCTTCGGAGTCGG ACCCCATATCATGTGAACCTCCTCCTGGCTGGCTATGATGAGCATGAAGGGCCAGCGCTGTATTACATGG ACTACCTGGCAGCCTTGGCCAAGGCCCCTTTTGCAGCCCACGGCTATGGTGCCTTCCTGACTCTCAGTAT CCTCGACCGATACTACACCGACTATCTCACGTGAGAGGGCAGTGGAACTCCTTAGGAAATGTCTGGAG GAGCTCCAGAAACGCTTCATCCTGAATCTGCCAACCTTCAGTGTTCGAATCATTGACAAAAATGGCATCC ATGACCTGGATAACATTTCCTTCCCCAAACAGGGCTCC
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>RG233363 representing NM_001199779 <mark>Red=</mark> Cloning site Green=Tags(s)
	MEYLIDHDKMFKMSEKILLLCVGEAGDTVQFAEYIQKNVQLYKMRNGYELSPTAAANFTRRNLADCLRSR TPYHVNLLLAGYDEHEGPALYYMDYLAALAKAPFAAHGYGAFLTLSILDRYYTPTISRERAVELLRKCLE ELQKRFILNLPTFSVRIIDKNGIHDLDNISFPKQGS
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul



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Cloning Scheme:

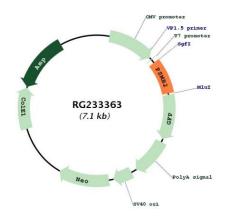


ACCN:	NM_001199779
ORF Size:	-
OTI Disclaimer:	528 bp The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001199779.2</u>
RefSeq Size:	4391 bp
RefSeq ORF:	531 bp
Locus ID:	5690
Cytogenetics:	1p34.3

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	Proteasome subunit beta type 2 (PSMB2) (NM_001199779) Human Tagged ORF Clone – RG233363
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Proteasome
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. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RG233363

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