

Product datasheet for RC224611

PSMB8 (NM_148919) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	PSMB8 (NM_148919) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSMB8
Synonyms:	ALDD; D6S216; D6S216E; JMP; LMP7; NKJO; PRAAS1; PSMB5i; RING10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC224611 representing NM_148919 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCGCTACTAGATGTATGCGGAGCCCCCCGAGGGCAGCGGCCGGAATCGGCTCTCCCGGTTGCGGGAA GCGGGCGTCGCTCGGACCCAGGACACTACAGTTTCTCTATGCGATCTCCAGAGCTCGCTTTACCCCGGGG AATGCAGCCCACAGAATTCTTCCAGTCCCTGGGTGGGGACGGAGAAAGGAACGTTCAGATTGAGATGGCC CATGGCACCACCACGCTCGCCTTCAAGTTCCAGCATGGAGTGATTGCAGCAGTGGATTCTCGGGCCTCAG

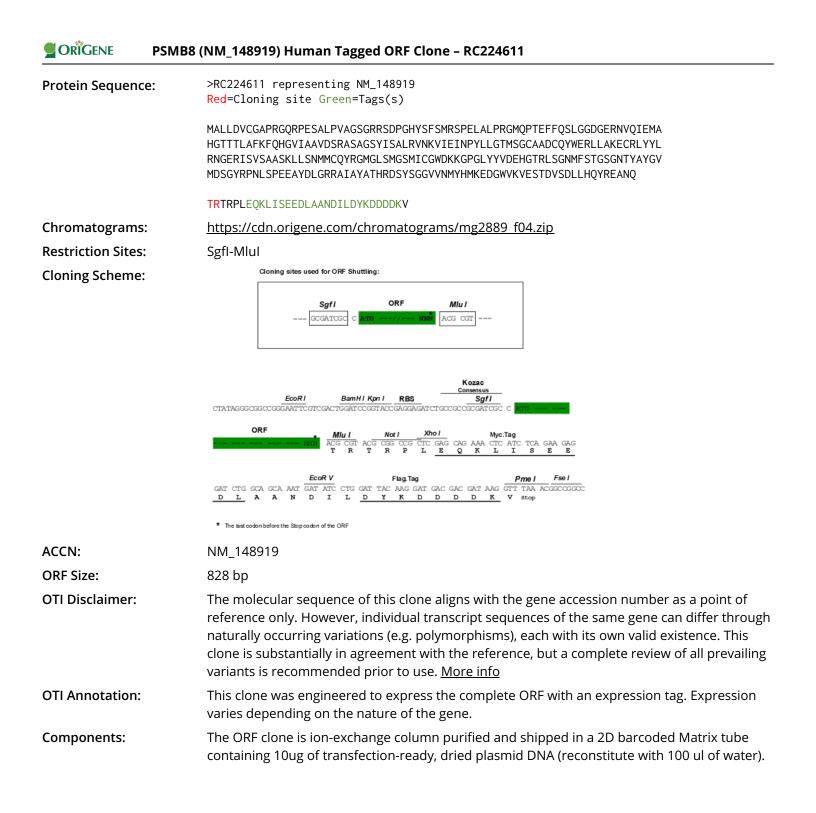
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

GAAAGTAGAAAGTACAGATGTCAGTGACCTGCTGCACCAGTACCGGGAAGCCAATCAA

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ACAAGGATGACGACGATAAGGTTTAA



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SMB8 (NM_148919) Human Tagged ORF Clone – RC224611

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 148919.4</u>
RefSeq Size:	1135 bp
RefSeq ORF:	831 bp
Locus ID:	5696
UniProt ID:	<u>P28062</u>
Cytogenetics:	6p21.32
Domains:	proteasome
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Proteasome
MW:	30.2 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. 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. This gene is located in the class II region of the MHC (major histocompatibility complex). Expression of this gene is induced by gamma interferon and this

immunoproteasome. Proteolytic processing is required to generate a mature subunit. Two alternative transcripts encoding two isoforms have been identified; both isoforms are

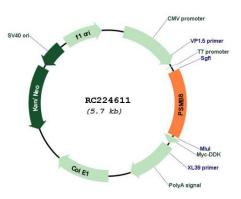
gene product replaces catalytic subunit 3 (proteasome beta 5 subunit) in the

processed to yield the same mature subunit. [provided by RefSeq, Jul 2008]

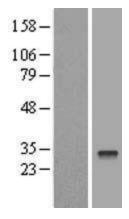
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Product images:

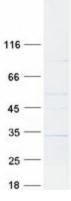


Circular map for RC224611



Western blot validation of overexpression lysate (Cat# [LY407730]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224611 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified PSMB8 protein (Cat# [TP324611]). The protein was produced from HEK293T cells transfected with PSMB8 cDNA clone (Cat# RC224611) using MegaTran 2.0 (Cat# [TT210002]).

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