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Product datasheet for MG203694

Psmb8 (NM_010724) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psmb8 (NM_010724) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Psmb8
Synonyms:	Lmp-7; Lmp7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG203694 representing NM_010724
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTTACTGGATCTGTGCGGTGCCGCTCGGGGGCAGCGGCCCGAGTGGGCTGCCCTGGATGCGGGAA
GCGGGGGTCGCTCGGACCCGGGACACTACAGTTTCTCCGCGCAAGCTCCGGAGCTCGCACTTCCCCGGGG
AATGCAGCCCACCGCATTCCTGAGGTCCTTTGGTGGTGACCAGGAAAGGAATGTTCAAATTGAGATGGCC
CACGGCACAACCACACTCGCCTTCAAGTTCCAGCATGGCGTCATCGTGGCTGTGGACTCCAGGGCCACTG
CAGGGAGTTACATTAGCTCCTTAAGGATGAACAAAGTGATCGAGATTAACCCTTACCTGCTTGGCACCAT
GTCTGGTTGTGCAGCCGACTGCCAGTACTGGGAGAGGCTGTTGGCCAAGGAGTGCAGGTTGTATTATCTT
CGGAATGGGGAACGCATCTCCGTGTCTGCAGCATCCAAGCTGCTTTCCAACATGATGCTGCAGTACCGGG
GGATGGGCCTCTCCATGGGCAGCATGATCTGTGGCTGGGACAAGAAGGGACCAGGACTTTACTACGTAGA
TGACAATGGGACTCGGCTCTCGGGACAGATGTTTTCCACTGGCAGCGGGAACACCTATGCCTACGGGGTG
ATGGACAGTGGTTACCGGCAGGACCTCAGTCCTGAAGAGGCCTACGACCTTGGCCGCAGAGCTATTGCTT
ATGCTACCCACAGAGACAACTATTCTGGAGGAGTCGTCAACATGTACCATATGAAGGAAGACGGTTGGGT
GAAAGTGGAGAGTTCCGATGTCAGTGACCTGCTGTACAAGTACCGAGAGGCCGCTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

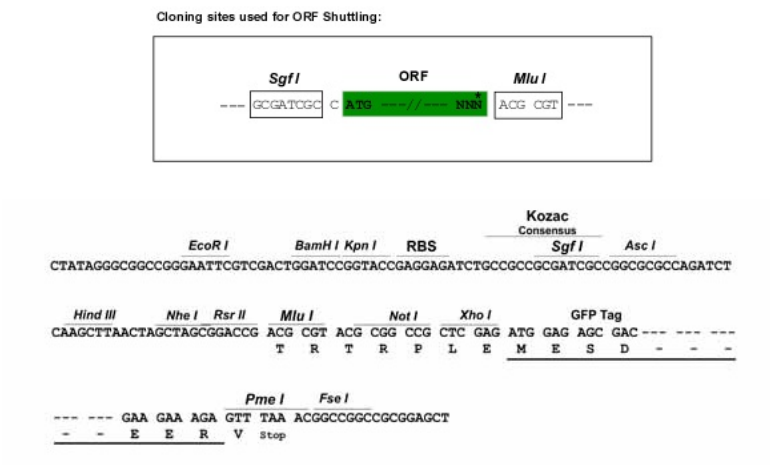
>MG203694 representing NM_010724
Red=Cloning site Green=Tags(s)

MALLDLCGAARGQRPEWAALDAGSGGRSDPGHYSFSAQAPELALPRGMQPTAFLRSFGGDQERNVQIEMA
HGTTTLAFKFQHGVIVAVDSRATAGSYISSLRMNKVIEINPYLLGTMSGCAADCQYWERLLAKECRLYYL
RNGERISVSAASKLLSNMMLQYRGMGLSMGSMICGWDKKGPGLYYVDDNGTRLSGQMFSTGSGNTYAYGV
MDSGYRQDLSPEEAYDLGRRAIAYATHRDNYSGGVVNMYHMKEDGWVKVESSDVSDLLYKYREAAL

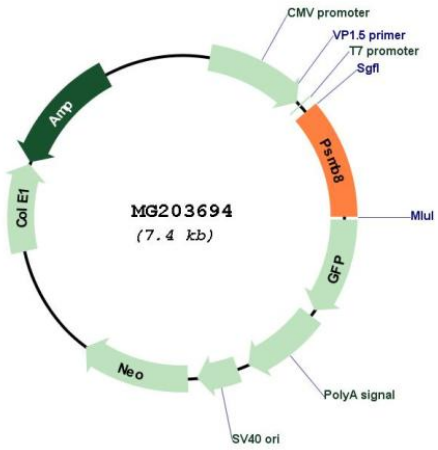
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010724

ORF Size: 831 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_010724.1, NP_034854.1
RefSeq Size:	828 bp
RefSeq ORF:	831 bp
Locus ID:	16913
UniProt ID:	P28063
Cytogenetics:	17 17.98 cM
Gene Summary:	The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity. This subunit is involved in antigen processing to generate class I binding peptides. May participate in the inflammatory response pathway. Required for adipocyte differentiation (PubMed:21881205, PubMed:22341445, PubMed:8066463). May be involved in the generation of spliced peptides resulting from the ligation of two separate proteasomal cleavage products that are not contiguous in the parental protein (By similarity).[UniProtKB/Swiss-Prot Function]