

Product datasheet for **RG205723**

Proteasome subunit beta type 4 (PSMB4) (NM_002796) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Proteasome subunit beta type 4 (PSMB4) (NM_002796) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Proteasome subunit beta type 4
Synonyms:	HN3; HsN3; PRAAS3; PROS-26; PROS26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205723 representing NM_002796 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCGTTTTGGGGTCGGGTCCGGACTTTGGGCGGGGGTCCGGCCCCAGGACAGTTTTACCGCA
TTCCATCCACTCCCGATTCTTCATGGATCCGGCGTCTGCACTTTACAGAGGTCCAATCACGCGGACCCA
GAACCCCATGGTGACCGGACCTCAGTCTCGGCGTTAAGTTCGAGGGCGGAGTGGTATTGCCGCAGAC
ATGCTGGGATCCTACGGCTCCTTGCTCGTTCCGCAACATCTCTCGCATTATGCGAGTCAACAACAGTA
CCATGCTGGGTGCCTCTGGCGACTACGCTGATTTCCAGTATTTGAAGCAAGTTCTCGGCCAGATGGTGAT
TGATGAGGAGCTTCTGGGAGATGGACACAGCTATAGTCTAGAGCTATTCATTATGGCTGACCAGGGCC
ATGTACAGCCGGCGCTCGAAGATGAACCCTTTGTGGAACACCATGGTCATCGGAGGCTATGCTGATGGAG
AGAGCTTCTCGGTTATGTGGACATGCTTGGTGTAGCCTATGAAGCCCTTCGCTGGCCACTGGTTATGG
TGCATACTGGCTCAGCCTCTGCTGCGAGAAGTTCTGGAGAAGCAGCCAGTGCTAAGCCAGACCGAGGCC
CGCGACTTAGTAGAACGCTGCATGCGAGTGCTGTACTACCGAGATGCCGTTCTTACAACCGGTTTCAA
TCGCCACTGTACCGAAAAGGTGTTGAAATAGAGGGACCATTGTCTACAGAGACCAACTGGGATATTGC
CCACATGATCAGTGGCTTTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205723 representing NM_002796
 Red=Cloning site Green=Tags(s)

MEAF LGSRSGLWAGGPAPGQFYRIPSTPDSFMDPASALYRGPITRTQNPMVTGTSVLGVKFEGGVVIAAD
 MLGSYGLARFRNISRIMRVNNS TMLGASGDYADFQYLKQVLGQMVIDEELLGDGHSYSPRAIHSWLTRA
 MYSRRSKMNPLWNTMVIIGGYADGESFLGYVDMLGVAYEAPSLATGYGAYLAQPLLREVLEKQPVLSQTEA
 RDLVERCMRVLYYRDARSYNRFQIATVTEKGVIEGPLSTETNWDIAHMISGFE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002796

ORF Size: 792 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_002796.2](#), [NP_002787.2](#)

RefSeq Size: 925 bp

RefSeq ORF: 795 bp

Locus ID: 5692

UniProt ID: [P28070](#)

Cytogenetics: 1q21.3

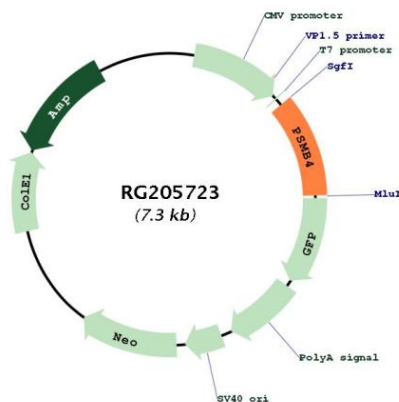
Domains: proteasome

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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205723