

Product datasheet for **RG203161**

Tbp7 (PSMC4) (NM_153001) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbp7 (PSMC4) (NM_153001) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tbp7
Synonyms:	MIP224; RPT3; S6; TBP-7; TBP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203161 representing NM_153001 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGATAGGCATCTTGGTGGAGAAGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCCGGCCCC
AGACCGGCTGTCTTCTGGGCCCTGAGCCTGAGGACCTGGAGGACCTGTACAGCCGCTACAAGGAGGA
GGTGAAGCGAATCAAAGCATCCCCTGGTTCATCGGACAATTTCTGGAGGCTGTGGATCAGAATACAGCC
ATCGTGGGCTCTACCACAGGCTCCAATATTATGTGCGCATCCTGAGCACCATCGATCGGGAGCTGTCTCA
AGCCCAACGCCTCAGTGGCCCTCCACAAGCACAGCAATGCACTGGTGGACGTGTGCCCCCGAAGCCGA
CAGCAGCATCATGATGCTCACCTCAGACCAGAAGCCAGATGTGATGTACGCGGACATCGGAGGCATGGAC
ATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCGCTCACGATTTTCGAGCTCTACAAGCAGATCG
GCATCGATCCCCCGGAGGCGTCTCATGTATGGCCACCTGGCTGTGGGAAGACCATGTTGGCAAAGGC
GGTGGCACATCACACAACAGCTGCATTCATCCGGTCTGTGGGCTCGGAGTTTGTACAGAAGTATCTGGGT
GAGGGCCCCGCATGGTCCGGATGTGTCCGCTGGCCAAGGAGAATGCACCTGCCATCATCTTCATAG
ACGAGATTGATGCCATCGCCACCAAGAGATTCGATGCTCAGACAGGGCCGACAGGGAGGTTTCAGAGGAT
CCTGCTGGAGCTGCTGAATCAGATGGATGGATTTGATCAGAATGTCAATGTCAAGTAATCATGGCCACA
AACAGAGCAGACACCCCTGGATCCGGCCCTGCTACGGCCAGGACGGCTGGACCGTAAAATTGAATTTCCAC
TTCTGACCGCCGAGAGAGATTGATTTTCCACTATCACTAGCAAGATGAACCTCTCTGAGGAGGT
TGACTTGAAGACTATGTGGCCGGCCAGATAAGATTTTCAGGAGCTGATATTAATCCATCTGTACAGGAG
AGTGGAATGTTGGCTGTCCGTGAAAACCGCTACATTGTCTGGCCAAGGACTTCGAGAAAGCATAACAAGA
CTGTATCAAGAAGGACGAGCAGGAGCATGAGTTTACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203161 representing NM_153001
 Red=Cloning site Green=Tags(s)

MEEIGILVEKAQDEIPALSVSRPQTGLSFLGPEPEDELDYSRYKEEVKRIQSIPLVIGQFLEAVDQNTA
 IVGTTGSNYYVRILSTIDRELLKPNASVALHKHSNALVDVLPPEADSSIMMLTSDQKPDVYADIGGMD
 IQKQEVREAVELPLTHFELYKQIGIDPPRGVLMYGGPPCGCKTMLAKAVAHHTTAAFIKRVGSEFVQKYL
 EGPRMVRDVFRLAKENAPAIIFIDEIDAIAIKRFDAQTGADREVQRILLELLNQMDGFDQNVNKKVIMAT
 NRADTLDPALLRPGRLDRKIEFPLPDRRQKRLIFSTITSKMNLSEEVDLEDYVARPKISGADINSICQE
 SGMLAVRENRYIVLAKDFEKAYKTVIKKDEQEHEFYK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153001

ORF Size: 1161 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_153001.2](#)

RefSeq Size: 1363 bp

RefSeq ORF: 1164 bp

Locus ID: 5704

UniProt ID: [P43686](#)

Cytogenetics: 19q13.2

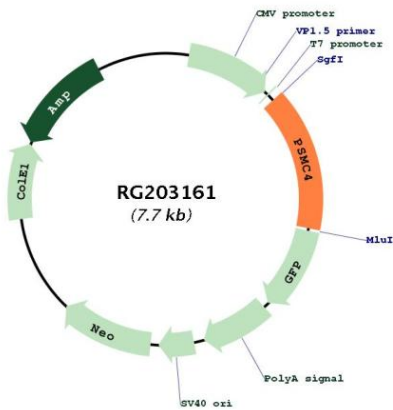
Domains: AAA, AAA

Protein Families: Druggable Genome

Protein Pathways: Proteasome

Gene Summary: The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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. This gene encodes a member of the triple-A family of ATPases that is a component of the 19S regulatory subunit and plays a role in 26S proteasome assembly. The encoded protein interacts with gankyrin, a liver oncoprotein, and may also play a role in Parkinson's disease through interactions with synphilin-1. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RG203161