

Product datasheet for **SC109643**

Tbp7 (PSMC4) (NM_153001) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbp7 (PSMC4) (NM_153001) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSMC4
Synonyms:	MIP224; RPT3; S6; TBP-7; TBP7
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_153001, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGAGATAGGCATCTTGGTGGAGAAGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCCCGGCCCC
AGACCGGCCTGTCTTCTGGGCCCTGAGCCTGAGGACCTGGAGGACCTGTACAGCCGCTACAAGGAGGA
GGTGAAGCGAATCCAAGCATCCCCTGGTTCATCGGACAATTTCTGGAGGCTGTGGATCAGAATACAGCC
ATCGTGGGCTCTACCACAGGCTCCAATATTATGTGCGCATCCTGAGCACCATCGATCGGGAGCTGTCTCA
AGCCCAACGCCTCAGTGGCCCTCCACAAGCACAGCAATGCACTGGTGGACGTGTGCCCCCGAAGCCGA
CAGCAGCATCATGATGCTCACCTCAGACCAGAAGCCAGATGTGATGTACGCGGACATCGGAGGCATGGAC
ATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCGCTCACGATTTTCGAGCTCTACAAGCAGATCG
GCATCGATCCCCCGGAGGCGTCTCATGTATGGCCACCTGGCTGTGGGAAGACCATGTTGGCAAAGGC
GGTGGCACATCACACAACAGCTGCATTCATCCGGGTCGTGGGCTCGGAGTTTGTACAGAAGTATCTGGGT
GAGGGCCCCGCATGGTCCGGGATGTGTTCCGCTGGCCAAGGAGAATGCACCTGCCATCATCTTCATAG
ACGAGATTGATGCCATCGCCACCAAGAGATTCGATGCTCAGACAGGGGCCGACAGGGAGGTTTCAGAGGAT
CCTGCTGGAGCTGCTGAATCAGATGGATGGATTTGATCAGAATGTCAATGTCAAGGTAATCATGGCCACA
AACAGAGCAGACACCCCTGGATCCGGCCCTGCTACGGCCAGGACGGCTGGACCGTAAAATTGAATTTCCAC
TTCTGACCGCCGCCAGAAGAGATTGATTTTCTCACTATCACTAGCAAGATGAACCTCTCTGAGGAGGT
TGACTTGAAGACTATGTGGCCCGCCAGATAAGATTTTCAGGAGCTGATATTAATCCATCTGTCCAGGAG
AGTGGAATGTTGGCTGTCCGTGAAAACCGCTACATTGTCTGGCCAAGGACTTCGAGAAAGCATACAAGA
CTGTTCATCAAGAAGGACGAGCAGGAGCATGAGTTTTACAAGTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_153001 unedited ACACGACTACTATAGGGCGGCCCAATTCGGCACGAGGCAGAGGCCGTCTTGGTCACTA TGGAGGAGATAGGCATCTTGGTGGAGAAGGCTCAGGATGAGATCCCAGCACTGTCCGTGT CCCGGCCCCAGACCGGCCTGTCTTCTGGGCCCTGAGCCTGAGGACCTGGAGGACCTGT ACAGCCGCTACAAGAAGCTGCAGCAAGAGCTGGAGTTCCTGGAGGTGCAGGAGGAATACA TCAAAGATGAGCAAAAAGAACCTGAAAAAGGAATTTCTCCATGCCTAGGAGGAGGTGAAGC GAATCCAAAGCATCCCGCTGGTCATCGGACAATTTCTGGAGGTGTGGATCAGAATACAG CCATCGTGGGCTCTACCACAGGCTCCAACTATTATGTGCGCATCCTGAGCACCATCGATC GGGAGCTGCTCAAGCCCAACGCCTCAGTGGCCCTCCACAAGCACAGCAATGCACTGGTGG ACGTGCTGCCCCCGAAGCCGACAGCAGCATCATGATGCTCACCTCAGACCAGAAGCCAG ATGTGATGACGCGGACATCGGAGGCATGGACATCCATAAGCAGGAGGTGCGGGAGGCCG TGGAGCTCCCGCTCACGCATTTGAGCTCTACAAGCAGATCGGCATCGATCCCCCCGAG GCGTCCTCATGTATGGCCCACTGGCTGTGGGATGACCATGTGGCAAGGCGGTGCACATC ACCAACAGCTGCATCATCCNGTCGTGGGCTCGGAGTTGTACAGAGTATCTGGGTGAGGG CCCCGCATGGTCCGGATGTGTCCGCTGGCCAGGAGATGCCCTGCCTCATCTNATAGACA GATGATGCATCGCACCAGAGATCCAGCTAACAGGCCGACAGGAGGTANAGATCTGCC AGCGCTGATANATGATGATTGACAAATGCATGTCAGG
Restriction Sites:	NotI-NotI
ACCN:	NM_153001
Insert Size:	1500 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	<u>NM_153001.1</u> , <u>NP_694546.1</u>
RefSeq Size:	1363 bp
RefSeq ORF:	1164 bp
Locus ID:	5704
UniProt ID:	<u>P43686</u>
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]

Transcript Variant: This variant (2) uses an alternate splice site in the 5' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.