

Product datasheet for SC321319

S4 (PSMC1) (NM_002802) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	S4 (PSMC1) (NM_002802) Human Untagged Clone
Tag:	Tag Free
Symbol:	S4
Synonyms:	P26S4; p56; RPT2; S4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

OriGene Technologies, Inc.

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Fully Sequenced ORF:	>DriGene sequence for NM_002802.2 TTCCGGCAGCGGCAGCTCAAGTGGCCAAGGAGAGGGTCAAAGTCAGAGTGGTGGTCA TGGTCCTGGAGGTGGCAAGAAGAAGAAGAAGAAAACAAAGGAAATATGAACCTCCTGT ACCAACTAGAGTGGGGAAAAAGAAGAAGAAAAACAAAGGGACCAGATGCTGCCAGCAACT GCACTGGTGACACCTCACACTCAGTGCCGGTTAAAATTACTGAAGTTAGAAAACAATTAA AGACTATCTTCTCATGAGGGAGAAAACAAAGTGGATGATCAGGGGGACCCCGATGTCAGT AGGAACCTTGGAAGAGGATAATTGATGAAAGTGGATGATCTGAGGGGGACCCCGATGTCAGT AGGAACCTTGGAAGAGATTATTGATGAAATTAGAAATCAGGAACAATGAAACCATTAGA AGAAAAGCAAGAGGAGAAAGATCAAAAGTGGATGATCTGAGGGGGACCCCGGATGTCAGT AGGAACCTTGGAAGAGATTATTGATGACAATCATGCCATCGTGTCAACTGTGGGGCTC AGAACACTACGTCAGCATTCTTTCATTTGAGACAAGGATCTGCTGGTGACACGGGTCC CCTGGTCACAGTGATGAAGGTGGATGCCGTGATAGGGGTGCTGATGGGATGACCCGGCTC CGTGGCACAACCAAAGGTGCAGCCGCGTGATGGGGGTCTTCTCTCACGCATCGGGGG GTTGGACAACCAAATTCAGGAAATTAAGGAATCTGTGGAGCTTCCTCTCACCCATCCTGG CACAGGTAAAACCTTGTTAGCAAAGGCCCCCCCAAGGGGGCCTATTCTCTATGGTGCACCTGG CACAGGATGAAAAGCTTGTGAGAAAGGCCCCCCCAGGGGACCTATCGCACCTGG CACAGGATGACACCTGTTATTCAGAAGCGAAGCAAACCAAACCTCCACCCAC
Restriction Sites:	Please inquire
ACCN:	NM_002802
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).

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GRIGENE S4 (PSMC1) (NM_002802) Human Untagged Clone – SC321319

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 002802.2, NP 002793.2</u>
RefSeq Size:	1586 bp
RefSeq ORF:	1323 bp
Locus ID:	5700
UniProt ID:	<u>P62191</u>
Cytogenetics:	14q32.11
Domains:	ΑΑΑ, ΑΑΑ
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

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. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes one of the ATPase subunits, a member of the triple-A family of ATPases which have a chaperone-like activity. This subunit and a 20S core alpha subunit interact specifically with the hepatitis B virus X protein, a protein critical to viral replication. This subunit also interacts with the adenovirus E1A protein and this interaction alters the activity of the proteasome. Finally, this subunit interacts with ataxin-7, suggesting a role for the proteasome in the development of spinocerebellar ataxia type 7, a progressive neurodegenerative disorder. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) encodes the longer isoform (a).

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