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Product datasheet for RC232790

PSMD5 (NM_001270427) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMD5 (NM_001270427) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSMD5
Synonyms:	S5B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

ORF Nucleotide Sequence:

>RC232790 representing NM_001270427
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGCCCAGGCTTTGGCGCTGCTGAGAGAGGTAGCGAGGCTGGAAGCGCCGCTGGAGGAGCTACGCG
CGCTTCACTCCGTGCTGCAGGCAGTGCCGCTCAACGAGCTTCGCCAGCAAGCGGCGGAGCTGCGCCTCGG
CCCGCTCTTCTCCCTGCTTAACGAGAACCATAGGGAAAAGACTACTTTGTGTGTATCCATTCTGGAGAGA
TTGCTCCAAGCTATGGAACCGGTTCACGTGGCCCGGAACCTCAGGGTTGACCTGCAGAGGGGACTAATTC
ACCCTGATGATTCTGTAAAAATCCTCACTCTTTCCCAGATTGGAAGAATTGTTGAAAATTCTGATGCTGT
TACTGAGATTCTAAATAATGCTGAATTACTAAAACAAATTGTTTATTGCATTGGTGGAGAGAATCTATCT
GTAGCAAAAGCGCTAATTATAGAGATTTCTTCCGTGTCACCAGAATCTTTAAACTACTGTACCACAAGTG
GATTGGTAACCCAGCTCCTGAGAGAGCTGACTGGTGAGGATGTGTTGGTCAGAGCCACCTGTATAGAAAT
GGTGACATCACTGGCATATACTCATCATGGGCGACAATATCTTGCTCAAGAAGGAGTAATTGACCAAATT
TCTAATATAATTGTTGGGGCAGATTCAGACCCTTTCTCTAGCTTCTATCTGCCAGGATTCGTGAAGTTTT
TTGGAAACCTGGCTGTCATGGATAGTCCTCAACAGATCTGTGAGCGTTATCCTATCTTTGTGGAAAAAGT
CTTTGAAATGATAGAAAGTCAGGACCCCACTATGATTGGTGTAGCTGTAGACACAGTTGGAATCTTGGGA
TCCAATGTTGAAGGAAAACAGGTTTTACAGAAAACAGGAACTCGCTTTGAACGCTTGCTTATGAGAATAG
GACATCAATCAAAGAATGCCCCAGTGGAGCTAAAAATTAGATGTTTGGATGCAATTTCATCTCTTCTGTA
CTTACCACCTGAGCAGCAGACTGATGACCTTCTGAGGATGACAGAATCCTGGTTTTCTTCTTTATCTCGG
GATCCACTGGAGCTCTTCCGTGGCATTAGTAGTCAGCCCTTCCCTGAACTACACTGTGCTGCCTTAAAAG
TGTTTACGGCCATTGCAAACCAACCCTGGGCTCAGAAACTTATGTTTAACAGTCCAGGTTTTGTAGAATA
TGTGGTGGACCGGTCTGTGGAGCATGACAAAGCTTCAAAGGATGCCAAATATGAACTAGTGAAAGCACTT
GCCAATTCCAAGACAATTGCAGAAATCTTTGGGAACCCAAATTATTTGAGGCTCAGAACTTACCTGAGTG
AAGGGCCATACTATGTGAAACCTGTTTCCACGACAGCAGTAGAAGGAGCCGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

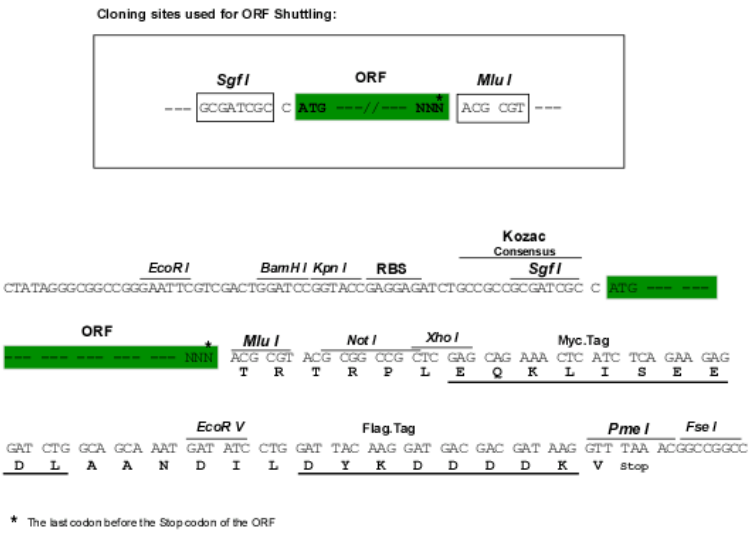
>RC232790 representing NM_001270427
Red=Cloning site Green=Tags(s)

MAAQALALLREVARLEAPLEELRALHSVLQAVPLNELRQQAAELRLGPLFSLLNENHREKTTLCVSILER
LLQAMEPVHVARNLRVDLQRGLIHPDDSVKILTLSQIGRIVENSDAVTEILNNAELLKQIVYCIGGENLS
VAKALIIEISSVSPESLNYCTTSGLVTQLLRELTGEDVLVRATCIEMVTSLAYTHHGRQYLAQEGVIDQI
SNIIVGADSDPFSSFYLPGFVKFFGNLAVMDSPQQICERYPIFVEKVFEMIESQDPTMIGVAVDTVGILG
SNVEGKQVLQKTGTRFERLLMRIGHQSKNAPVELKIRCLDAISSLLYLPPEQQTDDLLRMTESWFSSLSR
DPLELFRGISSQPFPELHCAALKVFTAIANQPWAQKLMFNSPGFVEYVVDRSVEHDKASKDAKYELVKAL
ANSKTIAEIFGNPNYLRLRTYLSEGPYYVKPVSTTAVEGAE

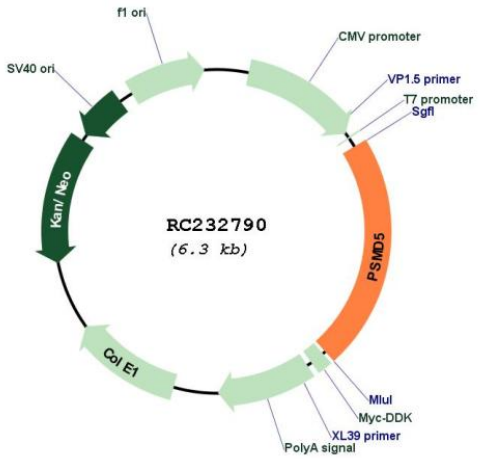
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001270427

ORF Size: 1383 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_001270427.2
RefSeq Size:	3375 bp
RefSeq ORF:	1386 bp
Locus ID:	5711
UniProt ID:	Q16401
Cytogenetics:	9q33.2
MW:	51.8 kDa
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 non-ATPase subunit of the 19S regulator base that functions as a chaperone protein during 26S proteasome assembly. [provided by RefSeq, Jul 2012]