

Product datasheet for **RR204865**

Psm13 (NM_001108925) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psm13 (NM_001108925) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psm13
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR204865 representing NM_001108925 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGC**

ATGAAGGATGTGCCGGCCTTCTTACAGCAGAGTCAGAGCTCCGGGCCGGGCCAGGCCCGCTTTGGCACC
GTTTGAAGAGCTATACACGAAGAAGTTATGGCATCAGCTGACACTTCAGGTGCTTGATTTTGTGCAGGA
CCCATGCTTTGCCCAAGGAGATGGCCTCATTAAAGCTCTATGAAAACCTTCATCAGTGAATTTGAGCAGG
GTA AACCTTTGTCCTGGTAGAAATAATTCTTCATGTGGTTAGACAGATGACCGATCCTAATGTGGCTC
TTACTTTTCTGAAAAGACTCGTGAGAAGGTA AAAAGTAGTGATGAAGCCGTGATCTTGTAAGACAGC
AATCGGAGCTCTAAAATTGAACATCGGGGATCTGCAGGCTACAAAGGAAACCATTGAAGATGTTGAAGAG
ATGCTCAACAATCCTCCCTGGTGTGACGTGAGTTCACAGTCGTTTCTACGATCTCTCCAGTAAATACTATC
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TCTGCCAGTATCAGAACAGCAAGAAAGAGCCTCACACTGGGGCTTGGTGGACTTCTCGGAGAGGGAGTT
TTTAACTTTGGAGAACTTCTCATGCATCCTGTGCTGGAGTCACTGAGGAACACTGACCGGAGTGGCTGA
TTGACACCCTGTATGCTTCAACAGTGGTGTATGATAGGTTCCAGACTGAAGTCTGCTGGGCCA
GCAGCCTGACTTAGCAGCAACGAGGCCAGCTTCTGAGGAAGATCCAGCTGTTGTGCCCTATGGAGATG
ACGTTACACGGCCTGCCAACACAGACAACACTCACTTTTGAGGAAATTGCCAAAAGTGCCAAAGATCACTG
TCAACAAGGTGGAGCTGTTGGTGTGATGAAGGCACTCTCGGTGGGGCTGGTGGAGGCGAGCATAGACGAGGT
GGACAAGCGGGTTACATGACGTGGGTGCAGCCTCGAGTGTGGATTTGCAGCAGATCAAGGGGATGAAG
GACCGTCTGGAGCTCTGGTGCATGATGTGAAGAGCATGGAGTGTGGTGAACACCAGGCTCAAGACA
TCCTCACC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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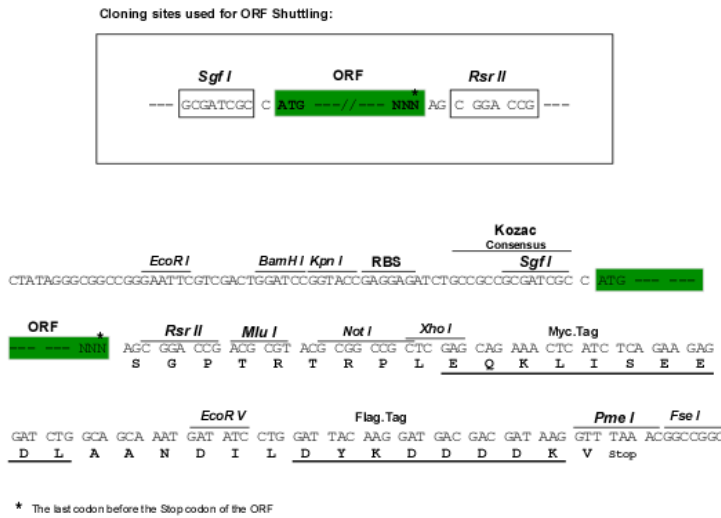
Protein Sequence: >RR204865 representing NM_001108925
 Red=Cloning site Green=Tags(s)

MKDVP AFLQSSQSSGPGQA AVWHRL EELYTKKLWHQL TLQV LDFVQDPCFA QGDGLIKL YENFISEFEHR
 VNPLSLVEIILHVVRQMTDPNVALTFLEKTRKVKSSDEAVILCKTAIGALKLNIGDLQATKETIEDVEE
 MLNNLPGVTSVHSRFDLSSKYQTI GNHASYKDALRFLGCVDIKDLPVSEQQERAF TLGLAGLLGEGV
 FNF GELLMHPVLES LRNTDRQWL IDTL YAFNSGDVDRFQTLKSAWQQPDLAANE AQLLRKIQLLCLMEM
 TFTRPANHRQLTFEEI AKSAKITV NKVELL VMKAL SVGLVRGSD EVDKRVHMTWVQPRVLDLQQIKGMK
 DRLELWCTDVKSMELLVEHQADILT

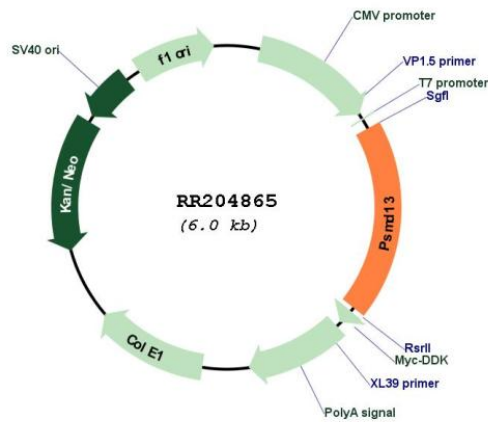
SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001108925

ORF Size:	1128 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:	<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:	NM_001108925.2 , NP_001102395.1
RefSeq Size:	1550 bp
RefSeq ORF:	1131 bp
Locus ID:	365388
UniProt ID:	B0BN93
Cytogenetics:	1q41
MW:	42.8 kDa
Gene Summary:	Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair.[UniProtKB/Swiss-Prot Function]