OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG205907

Psmd4 (BC009005) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psmd4 (BC009005) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Psmd4
Synonyms:	Mcb1, angiocidin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG205907 representing BC009005
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGTTGGAGAGCACTATGGTTTGTGTGGACAACAGTGAGTACATGCGGAACGGAGACTTCCTTCCCA
CCCGGCTGCAGGCCCAGCAGGATGCCGTCAACATTGTATGTCACTCAAAGACCCGAAGCAACCCTGAGAA
TAACGTGGGCCTGATCACACTGGCCAATGACTGTGAGGTGCTGACCACACTCACCCCGGACACTGGCCGT
ATCCTCTCCAAGCTCCACACTGTCCAACCCAAAGGCAAGATCACCTTCTGCACTGGCATCCGCGTGGCCC
ACTTGGCTCTGAAGCACCGGCAGGGCAAGAATCACAAGATGCGCATCATCGCCTTTGTCGGTAGCCCTGT
GGAGGACAACGAGAAGGATCTGGTGAAACTAGCTAAACGCCTTAAGAAAGAAAAAGTGAATGTTGACATC
ATTAATTTTGGGGAAGAGGAGGTGAACACAGAGAAGCTGACAGCCTTTGTGAACACACTGAATGGCAAGG
ATGGAACTGGGTCCCATCTAGTGACAGTGCCTCCTGGACCTAGCTTGGCTGATGCTCTCATCAGTTCTCC
TATTCTGGCTGGTGAAGGCGGTGCCATGCTGGGTCTTGGTGCCAGTGACTTTGAGTTTGGAGTAGATCCC
AGTGCTGATCCTGAATTGGCCCTGGCCCTTCGAGTCTCTATGGAAGAGCAGCGGCAGCGGCAGGAGGAAG
AGGCACGGCGGGCCGCTGCGGCCTCTGCAGCTGAGGCTGGAATTGCTACACCTGGGACTGAAGGTGAAAG
AGACTCGGATGACGCCCTACTGAAGATGACCATCAACCAGCAGGAGTTTGGCCGTCCTGGGCTTCCAGAC
CTAAGCAGCATGACTGAGGAAGAGCAGATCGCCTACGCCATGCAGATGTCCCTGCAGGGAACAGAGTTTA
GCCAAGAATCGGCTGACATGGATGCCAGCTCAGCCATGGACACATCTGATCCAGTCAAGGAGGAGGATGA
CTATGACGTCATGCAGGACCCGGAGTTCCTTCAGAGCGTCCTAGAGAACCTTCCAGGTGTGGATCCCAAC
AATGCAGCCATTCGAAGTGTCATGGGGGCTCTGGCCTCCCAGGCCACCAAGGATGGCAAGAATGACAAGA
AAGAGGAAGAGAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

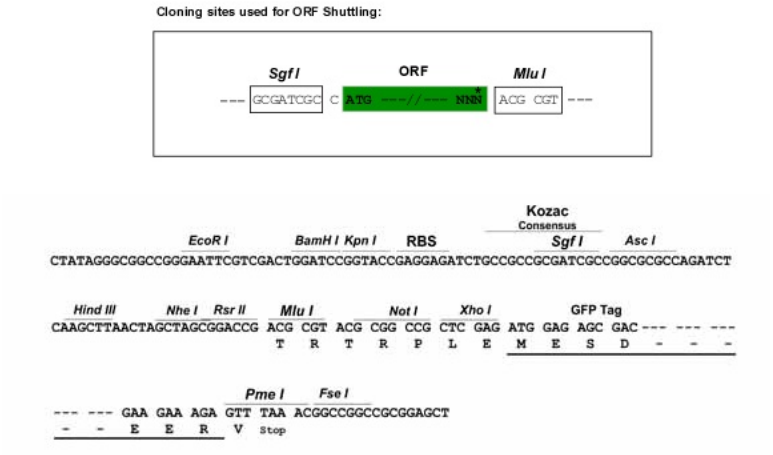
>MG205907 representing BC009005
Red=Cloning site Green=Tags(s)

MVLESTMVCVDNSEYMRNGDFLPTRLQAQQDAVNIVCHSKTRSNPENNVGLITLANDCEVLTTLTPDTGR
ILSKLHTVQPKGKITFCTGIRVAHLALKHRQGKNHKMRIIAFVGSPVEDNEKDLVKLAKRLKKEKVNVDI
INFGEEEVNTEKLTAFVNTLNGKDGTGSHLVTVPPGPSLADALISSPILAGEGGAMLGLGASDFEFGVDP
SADPELALALRVSMEEQRQRQEEEARRAAAASAAEAGIATPGTEGERDSDDALLKMTINQQEFGRPGLPD
LSSMTEEEQIAYAMQMSLQGTEFSQESADMDASSAMDTSDPVKEEDDYDVMQDPEFLQSVLENLPGVDPN
NAAIRSVMGALASQATKDGKNDKKEEEKK

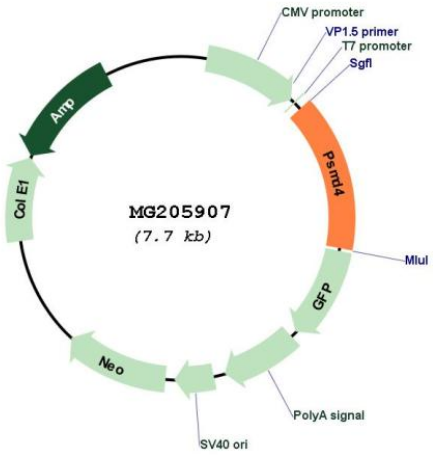
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC009005

ORF Size:	1139 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:	BC009005, AAH09005
RefSeq Size:	1301 bp
RefSeq ORF:	1139 bp
Locus ID:	19185
Cytogenetics:	3 40.74 cM
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. PSMD4 acts as an ubiquitin receptor subunit through ubiquitin-interacting motifs and selects ubiquitin-conjugates for destruction. Displays a preferred selectivity for longer polyubiquitin chains.[UniProtKB/Swiss-Prot Function]