

Product datasheet for **MC206468**

Psmid14 (BC003742) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Psmid14 (BC003742) Mouse Untagged Clone
Tag: Tag Free
Symbol: Psmid14
Synonyms: Poh1, Pad1, rpm11
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC003742
 CGGGCTGATTCATCGCCTGTTCTCCGAGCCAGGTCTTGTGAGTGTGAGGCGCTGCCCTCGCCGCCGCG
 TCGCCACAAGGCCAGGAGAGAGAGAAAACTACTTGTGAAAAATTGTATCTGCCAGAATTAGCAAGACT
 TGGAGTTAATAACAAATTTGTCAAATTCACAAATTGAAGTTTAACTACTGTAAGAATTACAGTTACTGAA
 CAGAAATATGGACAGACTTCTTAGACTTGGAGGAGGTATGCCTGGACTGGCCAGGGCCACCTACAGAT
 GCTCCTGCCGTGGACACAGCAGAACAAGTTTATATCTCTTCTTGGCCTTGCTAAAGATGTTAAACATG
 GTCGTGCTGGAGTGCCTATGGAAGTTATGGGTCTAATGCTTGGTGAATTTGTTGATGATTACACCGTCAG
 AGTGATTGATGTGTTTGCTATGCCACAGTCAGGAAGTGGTGTGAGTGTGAAAGCAGTTGATCCAGTGTT
 CAAGCCAAATGTTGGATATGCTGAAACAACAGGAAGGCCGAGATGGTTGTTGGTTGGTATCACAGTC
 ACCCTGGCTTTGGCTGTTGGCTTTCTGGTGTGGATATCAACTCAGCAGAGCTTTGAAGCCTTGTGGGA
 GAGAGCTGTGGCAGTGGTTGTGGATCCCATTCAGAGTGTAAAAGGAAAGTTGTTATTGATGCCTTCAGA
 CTGATCAATGCTAATATGATGGTCTTAGGACATGAACCAAGACAACGACTTCAAATCTGGGCCACTTAA
 ACAAGCCATCTATCCAGGCATTAATTCACGGACTAAACAGACATTATTACTCCATCACTATTAATTACCG
 GAAAAATGAACTGGAACAGAAGATGCTGTTAAATTTGCATAAGAAGAGTTGGATGGAAGGATTGACACTT
 CAGGACTACAGTGAACACTGTAAACACAATGAATCGGTGGTAAAAGAAATGTTGGAATTAGCCAAGAATT
 ATAATAAGGCTGTGGAAGAAGAAGATAAGATGACACCTGAACAGCTGGCAATAAAGAATGTTGGCAAGCA
 GGATCCCAACGTCATTTGGAAGAACATGTGGATGTGCTTATGACTTCAAATATTGTCCAGTGTGTTGGCC
 GCAATGTTGGATACTGTTGTATTTAAATAAAGTGACGTAGAGAGCTGTCAGTGGCGCTCTGAGTGTATCG
 TCCTTCTCGTTCCTCAATGCTCACAGTTAAGGGAAGTGAAGGTGATCTGGTGATGTGTGAGACACCTGTG
 CCACCTCCATCTCAGTTGTGCACTCGCTTCTGTTTATTTTGTCCGGGTTTTGCGAGATTCCAAAGTTGTT
 CAGGAATACATCAAAGTGAACAAATTTTGTAAAGATCCCATTTACTATTTGAAAAAATCAGTAGCACAA
 ATATATTTGATTGTTGCTTACAAAATAAATACATTTACAATCCAAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI
ACCN: BC003742
Insert Size: 933 bp



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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:	BC003742 , AAH03742
RefSeq Size:	1460 bp
RefSeq ORF:	933 bp
Locus ID:	59029
Cytogenetics:	2 C1.3
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. The PSMD14 subunit is a metalloprotease that specifically cleaves 'Lys-63'-linked polyubiquitin chains within the complex. Plays a role in response to double-strand breaks (DSBs): acts as a regulator of non-homologous end joining (NHEJ) by cleaving 'Lys-63'-linked polyubiquitin, thereby promoting retention of JMJD2A/KDM4A on chromatin and restricting TP53BP1 accumulation. Also involved in homologous recombination repair by promoting RAD51 loading.[UniProtKB/Swiss-Prot Function]