

Product datasheet for **MR204368L4V**

Psmid14 (NM_021526) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

| | |
|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | Psmid14 (NM_021526) Mouse Tagged ORF Clone Lentiviral Particle |
| Symbol: | Psmid14 |
| Synonyms: | 2610312C03Rik; 3200001M20Rik; AA986732; Pad1; Poh1; rpm11 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_021526 |
| ORF Size: | 933 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(MR204368). |
| 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. |
| RefSeq: | NM_021526.1 |
| RefSeq Size: | 1560 bp |
| RefSeq ORF: | 933 bp |
| Locus ID: | 59029 |
| UniProt ID: | O35593 |
| Cytogenetics: | 2 C1.3 |



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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]