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# Product datasheet for MC219868

## Pias3 (NM_001165949) Mouse Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Pias3 (NM_001165949) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Pias3 |
| **Synonyms:** | Pias3l |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

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**Fully Sequenced ORF:**

>MC219868 representing NM_001165949
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGCTGGGCGAGTTAAAGCACATGGTGATGAGTTTCCGAGTGTCTGAGCTCCAGGTGCTCCTCG
GCTTCGCTGGCAGGAACAAGAGTGGGCGGAAACACGAGCTGCTGGCCAAGGCCCTGCACCTCCTCAAGTC
TAGCTGCGCCCCCAGCGTCCAGATGAAGATCAAAGAACTTTATCGCAGGCGCTTTCCCCGGAAGACCCTG
GGGCCTTCTGATCTCTCCTTGCTTTCTTTGCCCCCTGGCACCTCTCCTGTAGGCTCCCCCGGCCCCCTTG
CTCCCATCCCTCCCACCCTTCTGACCCCTGGCACCTTGCTAGGCCCTAAGCGTGAGGTGGACATGCATCC
TCCTCTGCCGCAGCCTGTGCACCCCGATGTCACCATGAAGCCACTGCCCTTCTATGAAGTCTATGGGGAG
CTCATCCGACCCACCACCCTTGCGTCCACCTCCAGCCAGAGGTTCGAGGAAGCCCACTTCACCTTCGCGC
TCACTCCCCAGCAGCTGCAGCAGATTCTCACGTCCAGGGAGGTTCTGCCAGGAGCCAAGTGTGATTACAC
CATACAAGTGCAGCTCAGATTCTGTCTCTGTGAGACCAGCTGCCCTCAGGAGGACTATTTCCCCCCTAAC
CTCTTTGTTAAGGTTAATGGGAAACTCTGCCCCCTGCCGGGTTACCTCCCTCCAACCAAGAATGGAGCTG
AGCCCAAGAGGCCCAGCCGTCCGATCAACATCACACCCTTGGCTCGACTCTCAGCCACTGTCCCCAACAC
CATCGTAGTTAATTGGTCATCTGAGTTTGGACGGAATTACTCCTTGTCCGTGTACCTGGTGAGGCAATTG
ACTGCAGGGACCCTTCTACAAAAACTCAGAGCCAAGGGGATCCGGAATCCAGACCATTCCCGGGCACTGA
TCAAGGAGAAACTGACTGCTGACCCCGACAGTGAAGTGGCTACTACAAGTCTCCGGGTGTCACTCATGTG
CCCGCTAGGGAAGATGCGCCTGACTGTCCCGTGTCGTGCCCTCACCTGTGCCCATCTGCAGAGTTTCGAT
GCTGCCCTTTATCTACAGATGAATGAGAAGAAGCCGACATGGACGTGTCCTGTGTGTGACAAGAAGGCTC
CCTATGAGTCGCTGATTATTGATGGTTTATTCATGGAAATTCTTAATTCCTGTTCGGATTGTGATGAGAT
CCAGTTCATGGAAGATGGATCCTGGTGTCCGATGAAACCCAAGAAGGAGGCATCAGAGGTTTGCCCCCCG
CCAGGGTATGGGCTGGATGGTCTCCAGTACAGCGCAGTCCAGGAGGGAATTCAGCCAGAGAGTAAGAAGA
GGGTCGAAGTCATTGACTTGACCATCGAAAGCTCATCAGATGAGGAGGATTTGCCCCCCACCAAGAAGCA
CTGCCCTGTCACCTCAGCGGCCATTCCAGCCCTTCCTGGAAGCAAAGGAGCCCTGACCTCTGGTCACCAG
CCATCCTCGGTGCTGCGGAGCCCTGCAATGGGCACACTGGGCAGTGACTTCCTGTCTAGTCTCCCGCTAC
ATGAGTACCCACCTGCCTTCCCACTGGGGGCTGACATCCAAGGTTTAGATTTATTTTCTTTCCTTCAGAC
TGAGAGTCAGCACTACGGCCCTTCAGTTATCACTTCGCTAGATGAACAGGACACCCTTGGCCACTTCTTC
CAGTACCGGGGAACCCCTTCCCACTTCCTGGGCCCACTGGCCCCCACACTGGGGAGCTCTCACCGCAGCT
CCACTCCAGCGCCCCCTCCTGGTCGTGTCAGCAGCATTGTGGCTCCTGGGAGCTCCTTGAGGGAAGGGCA
TGGAGGACCCCTGCCTTCAGGTCCCTCTTTGACTGGCTGTCGGTCAGACGTCATTTCCTTGGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_001165949

**Insert Size:** 1887 bp

**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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001165949.1, NP_001159421.1 |
| **RefSeq Size:** | 2938 bp |
| **RefSeq ORF:** | 1887 bp |
| **Locus ID:** | 229615 |
| **UniProt ID:** | O54714 |
| **Cytogenetics:** | 3 F2.1 |
| **Gene Summary:** | Functions as an E3-type small ubiquitin-like modifier (SUMO) ligase, stabilizing the interaction between UBE2I and the substrate, and as a SUMO-tethering factor. Plays a crucial role as a transcriptional coregulation in various cellular pathways, including the STAT pathway and the steroid hormone signaling pathway. Repressor of STAT3 signaling via inhibiting STAT3 DNA-binding and suppressing cell growth. Repressor of MITF transcriptional activity. Enhances the sumoylation of MTA1 and may participate in its paralog-selective sumoylation. Sumoylates CCAR2 which promotes its interaction with SIRT1 (By similarity). Diminishes the sumoylation of ZFHX3 by preventing the colocalization of ZFHX3 with SUMO1 in the nucleus (By similarity). [UniProtKB/Swiss-Prot Function]<br>Transcript Variant: This variant (3) differs in the 5' UTR and 5' coding region, and uses an alternate translational start codon, compared to variant 1. The encoded isoform (3) has a distinct N-terminus and is longer than isoform 1. |

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