

Product datasheet for **MC219868**

Pias3 (NM_001165949) Mouse Untagged Clone

Product data:

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



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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGCTGGGCGAGTTAAAGCACATGGTGATGAGTTCCGAGTGTCTGAGCTCCAGGTGCTCCTCG
 GCTTCGCTGGCAGGAACAAGAGTGGGCGGAAACACGAGCTGCTGGCCAAGGCCCTGCACCTCCTCAAGTC
 TAGCTGCGCCCCAGCGTCCAGATGAAGATCAAAGAACTTTATCGCAGGCGCTTTCCCGGAAGACCCTG
 GGGCCTTCTGATCTCTCCTTGTCTTTGCCCCCTGGCACCTCTCCTGTAGGCTCCCCGGCCCCCTTG
 CTCCCATCCCTCCACCCTTCTGACCCCTGGCACCTTGTAGGCCCTAAGCGTGAGGTGGACATGCATCC
 TCCTCTGCCGAGCCTGTGCACCCGATGTACCATGAAGCCACTGCCCTTCTATGAAGTCTATGGGGAG
 CTCATCCGACCCACCCTTGGTCCACCTCCAGCCAGAGGTTTCGAGGAAGCCACTTCACCTTCGCGC
 TCACTCCCAGCAGCTGCAGCAGATTCTACGTCCAGGGAGGTTCTGCCAGGAGCAAGTGTGATTACAC
 CATAAAGTGCAGCTCAGATTCTGTCTGTGAGACCAGCTGCCCTCAGGAGACTATTTCCCCCTAAC
 CTCTTTGTTAAGGTTAATGGGAACTCTGCCCTGCGGGTTACCTCCCTCCAACAAGATGGAGCTG
 AGCCCAAGAGGCCAGCCGTCGATCAACATCACACCCTTGGCTCGACTCTCAGCCACTGTCCCAACAC
 CATCGTAGTTAATTGGTCATCTGAGTTTGGACGGAATTACTCCTTGTCCGTGTACCTGGTGGGCAATTG
 ACTGCAGGGACCCTTCTACAAAACCTCAGAGCCAAGGGGATCCGGAATCCAGACCATTCCCGGGCACTGA
 TCAAGGAGAACTGACTGCTGACCCGACAGTGAAGTGGTACTACAAGTCTCCGGGTGTACTCATGTG
 CCCGCTAGGGAAGATGCGCTGACTGTCCCGTGTCTGCCCTCACCTGTGCCATCTGCAGAGTTTCGAT
 GCTGCCCTTATCTACAGATGAATGAGAAGAAGCCGACATGGACGTGTCCTGTGTGACAAGAAGGCTC
 CCTATGAGTCGCTGATTATTGATGGTTTATTCATGGAAATCTTAATTCCTGTTCCGATTGTGATGAGAT
 CCAGTTTATGGAAGATGGATCCTGGTGTCCGATGAAACCAAGAAGGAGGCATCAGAGGTTTGCCCCCG
 CCAGGGTATGGGCTGGATGGTCTCCAGTACAGCCAGTCCAGGAGGAATTCAGCCAGAGAGTAAGAAGA
 GGGTCAAGTCAATTGACTTGACCATCGAAAGCTCATCAGATGAGGAGGATTTGCCCCCAACAAGAAGCA
 CTGCCCTGTACCTCAGCGGCCATTCCAGCCCTTCTGGAAGCAAGGAGCCCTGACCTCTGGTCAACAG
 CCATCCTCGTGTGCTGCGGAGCCCTGCAATGGGCACACTGGGCAGTGAATCCTGTCTAGTCTCCCGTAC
 ATGAGTACCCACCTGCCTTCCACTGGGGCTGACATCCAAGTTTAGATTTATTTCTTCTTCCCTCAGAC
 TGAGAGTCACTACGGCCCTTCAATTACCTCGCTAGATGAACAGGACACCCTTGGCCACTTCTTC
 CAGTACCGGGGAACCCCTTCCACTTCTGGGCCACTGGCCCCACACTGGGGAGCTCTACCCGAGCT
 CCACTCCAGCGCCCCCTCCTGGTGTGTCAGCAGCATTGTGGCTCCTGGGAGCTCCTTGAGGGAAGGGCA
 TGGAGGACCCCTGCCTCAGTCCCTTTGACTGGCTGTGCGGTGAGACGTCATTTCTTGGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 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).

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: [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 ZFH3 by preventing the colocalization of ZFH3 with SUMO1 in the nucleus (By similarity). [UniProtKB/Swiss-Prot Function]

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.