

Product datasheet for **MC219462**

Pias3 (NM_018812) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Pias3 (NM_018812) 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: >MC219462 representing NM_018812
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGAGCTGGGCGAGTTAAAGCACATGGTGATGAGTTCCGAGTGTCTGAGCTCCAGGTGCTCCTCG
 GCTTCGCTGGCAGGAACAAGAGTGGGCGGAAACACGAGCTGCTGGCCAAGGCCCTGCACCTCCTCAAGTC
 TAGCTGCGCCCCAGCGTCCAGATGAAGATCAAAGAACTTTATCGCAGGCGCTTTCCCGGAAGACCCTG
 GGGCCTTCTGATCTCTCCTTGTCTTTCTTTGCCCTGACCTCTCCTCCTGTGCACCCCGATGTACCA
 TGAAGCCACTGCCCTTCTATGAAGTCTATGGGAGCTCATCCGACCCACCACCCTTGCCTCCACCTCCAG
 CCAGAGGTTGAGGAAGCCACTTCACCTTCGCGCTCACTCCCAGCAGCTGCAGCAGATTCTCACGTCC
 AGGGAGGTTCTGCCAGGAGCCAAGTGTATTACACCATAAAGTGCAGCTCAGATTCTGTCTCTGTGAGA
 CCAGCTGCCCTCAGGAGGACTATTTCCCCCTAACCTCTTTGTTAAGGTTAATGGGAAACTGCCCCCT
 GCCGGTTACCTCCCTCAACCAAGAATGGAGCTGAGCCCAAGAGGCCAGCCGTCGGATCAACATCACA
 CCCTTGGCTCGACTCTCAGCCACTGTCCCAACACCATCGTAGTTAATTGGTCATCTGAGTTGGACGGA
 ATTACTCCTTGTCCGTGTACCTGGTGAGGCAATTGACTGCAGGGACCCTTCTACAAAACTCAGAGCCAA
 GGGGATCCGGAATCCAGACCATCCCGGGCACTGATCAAGGAGAACTGACTGCTGACCCCGACAGTGAA
 GTGGCTACTACAAGTCTCCGGGTGCTCACTCATGTGCCCGTAGGGAAAGTGCCTGACTGTCCCGTGT
 GTGCCCTCACCTGTGCCATCTGCAGAGTTTCGATGCTGCCCTTATCTACAGATGAATGAGAAGAAGCC
 GACATGGACGTCTCCTGTGTGACAAGAAGGCTCCCTATGAGTCGCTGATTATTGATGGTTTATTCATG
 GAAATTCCTAATTCCTGTTCCGATTGTGATGAGATCCAGTTCATGGAAGATGGATCCTGGTGTCCGATGA
 AACCAAGAAGGAGGCATCAGAGGTTTGCCCCCGCCAGGATATGGCTGGATGGTCTCCAGTACAGCGC
 AGTCCAGGAGGGAATTCAGCCAGAGAGTAAGAAGAGGGTTCGAAGTCATTGACTTGACCATCGAAAGCTCA
 TCAGATGAGGAGGATTTGCCCCACCAAGAAGCACTGCCCTGTACCTCAGCGGCCATTCCAGCCCTT
 CTGGAAGCAAAGGAGCCCTGACCTCTGGTCAACAGCCATCCTCGGTGCTGCGGAGCCCTGCAATGGGCAC
 ACTGGGCACTGACTTCTGTCTAGTCTCCCGCTACATGAGTACCCACCTGCCTTCCCACTGGGGCTGAC
 ATCCAAGTTTAGATTTATTTCTTCTTCCAGTACGAGTACGACTGAGAGTACGACTACGGCCCTTCACTT
 CGCTAGATGAACAGGACACCCTTGCCACTTCTCCAGTACCGGGGAACCCCTTCCCACTTCTGGGCC
 ACTGGCCCCACACTGGGAGCTCTCACCGCAGCTCCACTCCAGCGCCCCCTCCTGGTGTGTGAGCAGC
 ATTTGTGGCTCCTGGGAGCTCCTTGAGGGAAGGGCATGGAGGACCCTGCCTTCAAGTCCCTTTGACTG
 GCTGTCGGTCAAGCGTCATTTCTTGGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_018812
- Insert Size:** 1782 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_018812.2](#), [NP_061282.2](#)

RefSeq Size: 2833 bp

RefSeq ORF: 1782 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 (2) differs in the 5' UTR and 5' coding region, and uses an alternate translational start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. CCDS Note: The coding region has been updated to extend the N-terminus to one that is supported by available conservation data. The use of an alternative upstream start codon would result in a protein that is 9 aa longer.