

Product datasheet for **MC200758**

Pias2 (BC005596) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pias2 (BC005596) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pias2
Synonyms:	Dib, ARIP3, PIASxbeta, SIZ2, PIASxb, PIASxalpha
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC005596
TCTCCCTCGGCGTGGGAGAAGCGCGCTCTTTGGGAACGCCGCTTCCGTAGTCGGCCTCCTACCCAGA
GACTTGGTTTGTAAACATGAATATGGTTTCTAGTTTTAGGGTTTCTGAGTTACAAGTGTTACTGGGCTTT
GCTGGACGGAATAAAAGTGGGCGCAAGCATGACCTCCTGATGAGGGCGTTGCATTTATTGAAGAGTGGCT
GCAGCCCTGCGGTTTCAGATTAATAATTCGAGAATTATATAGACGCCGATACCCACGGACACTTGAAGGACT
TTGTGATCTTTCCACAATCAAATCATCGGTTTTTCAGCTTGGATGGTAGCTCATCACCCGTAGAACCCTGAC
TTGCCTGTGGCTGGGATCCACTCGTTGCCTTCGACTTCAATTACACCTCATTACCCTCATCTCCTGTTG
GTTCTGTACTGTGCAAGACACTAAGCCACCTTTGAGATGCAGCAGCCGTCTCCGCCATTCTCCTGT
CCATCCTGATGTGCAGTTAAAAAACCTGCCTTTCTATGATGTCCTTGATGTTCTCATCAAGCCACGAGT
TTAGTTCAAAGCAGTATTAGCGGTTTTCAAGAGAAGTTTTTTATTTTTGCTTTGACACCTCAGCAAGTTA
GAGAAATATGATTTCAAGGGACTTTTTGCCGGGTGGCAGGAGAGACTACACAGTCCAAGTCCAGCTGCG
ACTTTGCTTGGCAGAGACCAGTTGCCCTCAAGAAGATAACTATCCCAATAGTTTGTGTATAAAAGTCAAT
GGGAAACTCTTTCTTTGCTGGCTATGCGCCACCACCTAAAAATGGGATTGAACAGAAGCGCCCTGGAC
GCCCCCTGAACATTACGTCTTTAGTTAGTTGTCTTCAGCTGTGCCAAATCAGATTTCTATTTCTTGGGC
ATCTGAAATTGAAAAGAATTACTCCATGTCTGTGTATCTTGTACGACAGCTTACATCAGCCATGTTATTA
CAGAGATTAATAATGAAAGGTATTAGAAATCCTGATCATTCCAGAGCACTAATAAAGAAAAAATTACTG
CAGACCCTGATAGTAAAATTGCTACAACACTAGTCTTCGAGTGTCCCTTGATGTGCCCTTTAGAAAAATGAG
GCTGACAAATCCCGTGCCGTGCAGTGACTTGTACACATCTGCAGTGCTTTGATGCTGCCCTCTATCTTCAG
ATGAATGAGAAAAAGCCACCTGGATCTGTCTGTTTGTGACAAAAAGGCTGCCTATGAGAGTCTGATAC
TAGATGGGCTTTTTATGGAAATCTCAATGACTGTTCTGATGTGGATGAGATCAAATCCAGGAAGATGG
TTCTTGGTGTCCCATGAGACCTAAAAAGAAGCTATGAAAGTAACCAGCCAGCCCTGTACAAAAGTAGAA
AGTTCAAGTGTCTTTAGTAAACCTTGTTCAGTGACTGTAGCCAGTGATGCAAGCAAGAAGAAGATAGATG
TTATTGATCTAACAATAGAGAGCTTTCTGATGAAGAGGAAGACCCTCCCGCCAAAAGGAAATGCATCTT
TATGTCAGAAACACAAAGCAGTCCAACCAAGGGTTCTCATGTATCAGCCATCTTCTGTAAGGGTGCCC
AGTGTGACTTCAGTTGATCCTGCTGCTATTCCACCTTCATTAACAGACTACTCAGTACCATTCCACCACA
CGCCAGTGTCAAGCATGTCATCAGATTTGCCAGGTTTGGATTTTCTTTCCCTTATTCCAGTTGATCCCCA
GTACTGCTCCTCTATGTTTTGGATAGTCTCACCTCACCTTAACAGCAAGCAGTACGTCTGTACCACC
ACCAGCCCCATGAAAGCAGTACTCACGTTAGTTCATCCAGCAGCAGGAGTGAGACAGGGGTATAACCA
GCAGTGGGAGGAACATTCCTGACATCATCTTTGGACTAAAGGGCGACATACTTGATTCTGGGAATCAT
TCATCAAACTCTTTCTGGATGTTTAGTCCATGGAAGCTGATTTTTGCAACTTAATATTTATTGAAATG
TCAAAATGGATTCTTTGCTCTCTGAGAGATGAACATCGATGACTTCAGCAAGAACCAGATGACATGCAAGG
ACTTTTCTATGCTGTACATGGAGCATCAGATCTATCTCATCCACAACGGTGGCTTGTGGGACAGTTGAT
TTCAGTTTCTACGTTACTGGATGGATTCTACACACCAGTTAATCTTTTGTACAATAAACAGCAATAAAG
TTATGTAATAGTTAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: BC005596

Insert Size: 1839 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: [BC005596](#), [AAH05596](#)

RefSeq Size: 2269 bp

RefSeq ORF: 1839 bp

Locus ID: 17344

Cytogenetics: 18 E3

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, the p53 pathway and the steroid hormone signaling pathway. The effects of this transcriptional coregulation, transactivation or silencing may vary depending upon the biological context and PIAS2 isoform studied. However, it seems to be mostly involved in gene silencing. Binds to sumoylated ELK1 and enhances its transcriptional activity by preventing recruitment of HDAC2 by ELK1, thus reversing SUMO-mediated repression of ELK1 transactivation activity. Isoform PIASx-beta, but not isoform PIASx-alpha, promotes MDM2 sumoylation. Isoform PIASx-alpha promotes PARK7 sumoylation. Isoform PIASx-beta promotes NCOA2 sumoylation more efficiently than isoform PIASx-alpha (By similarity). Sumoylates PML at 'Lys-65' and 'Lys-160' (By similarity).[UniProtKB/Swiss-Prot Function]