

## Product datasheet for **MR209486**

### **Pias3 (NM\_146135) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pias3 (NM_146135) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pias3
Synonyms:	Pias3l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209486 representing NM\_146135  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGATGAGTTCCGAGTGTCTGAGCTCCAGTGCTCCTCGGCTTCGCTGGCAGGAACAAGAGTGGC  
 GGAACACGAGCTGCTGGCCAAGGCCCTGCACCTCCTCAAGTCTAGCTGCGCCCCAGCGTCCAGATGAA  
 GATCAAAGAACTTTATCGCAGGCCTTTCCCGGAAGACCCTGGGGCCTTCTGATCTCTCCTTGCTTTCT  
 TTGCCCTTGGCACCTCTCCTGTAGGCTCCCCGGCCCCCTTGCTCCCATCCCTCCCACCCTTCTGACCC  
 CTGGCACCTTGTAGGCCCTAAGCGTGAGGTGGACATGCATCCTCCTGCGCGAGCCTGTGACCCCCGA  
 TGTACCATGAAGCCACTGCCCTTCTATGAAGTCTATGGGGAGCTCATCCGACCCACCACCCTTGCCTCC  
 ACCTCCAGCCAGAGGTTGAGGAAGCCACTTCACCTTCGCGTCACTCCCAGCAGCTGCAGCAGATTC  
 TACGTCCAGGGAGGTTCTGCCAGGAGCAAGTGTGATTACACCATAAAGTGCAGCTCAGATTCTGTCT  
 CTGTGAGACCAGCTGCCCTCAGGAGGACTATTTCCCCCTAACCTCTTTGTTAAGGTTAATGGGAAACTC  
 TGCCCCCTGCCGGTTACCTCCCTCCAACCAAGAATGGAGCTGAGCCCAAGAGGCCAGCGTCCGATCA  
 ACATCACACCCTTGGCTCGACTCTCAGCCACTGTCCCAACACCATCGTAGTTAATTGGTCATCTGAGTT  
 TGGACGGAATTACTCCTTGTCCGTGTACCTGGTGGGCAATTGACTGCAGGGACCCTTACAAAAACTC  
 AGAGCCAAGGGGATCCGGAATCCAGACCATTCCCGGCACTGATCAAGGAGAAACTGACCCTGACCCCG  
 ACAGTGAAGTGGCTACTACAAGTCTCCGGGTGTCACTCATGTGCCGCTAGGGAAGATGCGCCTGACTGT  
 CCCGTGTCGTGCCCTCACCTGTGCCATCTGCAGAGTTTCGATGCTGCCCTTTATCTACAGATGAATGAG  
 AAGAAGCCGACATGGACGTGCTGTGTGTGACAAGAAGGCTCCCTATGAGTCGCTGATTATTGATGGTT  
 TATTCATGGAAATCTTAATTCCTGTTCCGATTGTGATGAGATCCAGTTTCATGGAAGATGGATCCTGGTG  
 TCCGATGAAACCCAAGAAGGAGGCATCAGAGGTTTGCCCCCGCAGGGTATGGGCTGGATGGTCTCCAG  
 TACAGCGCAGTCCAGGAGGAATTCAGCCAGAGAGTAAGAAGAGGGTCAAGTCATTGACTTGACCATCG  
 AAAGCTCATCAGATGAGGAGGATTTGCCCCCAACAAGAAGCACTGCCCTGTACCTCAGCGGCCATTCC  
 AGCCCTTCTGGAAGCAAAGGAGCCCTGACCTCTGGTACCAGCCATCCTCGGTGCTGCGGAGCCCTGCA  
 ATGGGCACACTGGGCAGTGACTTCTGTCTAGTCTCCCGTACATGAGTACCCACCTGCCTTCCACTGG  
 GGGCTGACATCCAAGTTTAGATTTATTTCTTCTTCCAGACTGAGAGTCAGCACTACGGCCCTTCACT  
 TATCACTTCGCTAGATGAACAGGACACCCTTGGCCACTTCTTCCAGTACCGGGGAACCCCTTCCACTTC  
 CTGGGCCACTGGCCCCACACTGGGAGCTCTACCGCAGCTCCACTCCAGCGCCCCCTCTGGTCTGTG  
 TCAGCAGCATTGTGGCTCCTGGGAGCTCCTTGGGGAAGGCATGGAGGACCCCTGCCTTCAAGTCCCTC  
 TTTGACTGGCTGTGCGTCAGACGTCATTTCTTGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209486 representing NM\_146135  
 Red=Cloning site Green=Tags(s)

MVMSFRVSELQVLLGFAGRNSGRKHELLAKALHLLKSSCAPSVQMKIKELYRRRFPRKTLGPSDSL  
 LPPGTSVPGSPGLAPIPPTLLTPGTLGPKREVDMPPLPQPVHPDVTMKPLPFYEVYGELIRPTLAS  
 TSSQRFEAHFTFALTPQQQLQILTSREVLPGAKCDYTIQVQLRFCLCETSCPQEDYFPPNLFVKVNGK  
 CPLPGYLPPTKNGAEPKRPSRPINITPLARLSATVPNTIVVNWSSEFGRNYSLSVYLVRQLTAGTLLQKL  
 RAKGIRNPDHSRALIKEKLTADPDSEVATTSLRVSLMCPLGKMRLTVPCRALTAHLQSFDAALYLQMN  
 KKPTWTCPVCDKKAPYELIIDGLFMEILNSCSDCEIQFMEDGSWCPMKPKKEASEVCPPPGYGLDGLQ  
 YSAVQEGIQPESKKRVEVIDLTISSSDEEDLPPTKHKCPVTSAAIPALPGSKGALTSGHQPSSVLRSPA  
 MGTLGSDFLSSLPLHEYPPAFPLGADIQLDLFSFLQTESQHYGPSVITSLDEQDQLGHFFQYRGTSPHF  
 LGPLAPTLGSSHRSSSTPAPPGRVSSIVAPGSSSLREGHGGLPSGPSLTGCRSDVISLD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_146135

ORF Size: 1857 bp

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.

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\\_146135.1](#), [NP\\_666247.1](#)

RefSeq Size: 2975 bp

RefSeq ORF: 1860 bp

Locus ID: 229615

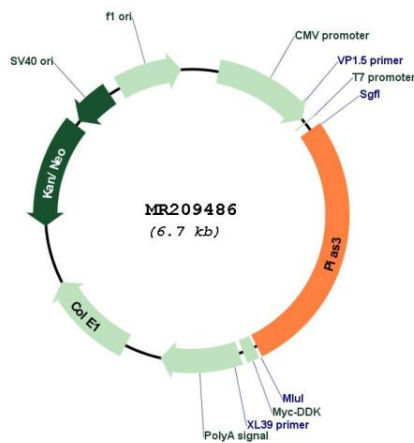
UniProt ID: [O54714](#)

**Cytogenetics:** 3 F2.1

**MW:** 67.8 kDa

**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 paralogue-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]

**Product images:**



Circular map for MR209486