

Product datasheet for **MR220934**

Pias3 (NM_018812) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pias3 (NM_018812) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pias3
Synonyms:	Pias3l
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR220934 representing NM_018812
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGAGCTGGGCGAGTTAAGCACATGGTGATGAGTTCCGAGTGTCTGAGCTCCAGGTGCTCCTCG
 GCTTCGCTGGCAGGAACAAGAGTGGGCGGAAACACGAGCTGCTGGCCAAGGCCCTGCACCTCCTCAAGTC
 TAGCTGCGCCCCAGCGTCCAGATGAAGATCAAAGAACTTTATCGCAGGCGCTTTCCCGGAAGACCCTG
 GGGCCTTCTGATCTCTCCTTGCTTTCTTTGCCCTTGGCACCTCTCCTCCTGTGCACCCCGATGTACCA
 TGAAGCCACTGCCCTTCTATGAAGTCTATGGGAGCTCATCCGACCCACCACCCTTGCCTCCACCTCCAG
 CCAGAGGTTCCGAGGAAGCCACTTACCTTCCGCGCTCACTCCCGAGCAGTGCAGCAGATTCTCACGTCC
 AGGGAGGTTCTGCCAGGAGCCAAGTGTATTACACCATAAAGTGCAGCTCAGATTCTGTCTCTGTGAGA
 CCAGCTGCCCTCAGGAGGACTATTTCCCCCTAACCTCTTTGTTAAGGTTAATGGGAAACTCGCCCTT
 GCCGGTTACCTCCCTCAACCAAGAATGGAGCTGAGCCCAAGAGGCCAGCCGTCGGATCAACATCACA
 CCCTTGGCTCGACTCTCAGCCACTGTCCCAACACCATCGTAGTTAATTGGTCATCTGAGTTGGACGGA
 ATTACTCCTTGTCCGTGTACCTGGTGAGGCAATTGACTGCAGGGACCCTTCTACAAAACTCAGAGCCAA
 GGGGATCCGGAATCCAGACCATTCCCGGCACTGATCAAGGAGAAACTGACTGCTGACCCCGACAGTGAA
 GTGGCTACTACAAGTCTCCGGGTGCTCACTCATGTGCCCGTAGGGAGATGCGCCTGACTGTCCCGTGT
 GTGCCCTCACCTGTGCCATCTGCAGAGTTTCGATGCTGCCCTTATCTACAGATGAATGAGAAGAAGCC
 GACATGGACGTCTCCTGTGTGACAAGAAGGCTCCCTATGAGTCGCTGATTATTGATGGTTTATTCATG
 GAAATTCCTAATTCCTGTTCCGATTGTGATGAGATCCAGTTCATGGAAGATGGATCCTGGTCCGATGA
 AACCAAGAAGGAGGCATCAGAGGTTTGCCTCCGAGGGTATGGGCTGGATGGTCTCCAGTACAGCCG
 AGTCCAGGAGGGAATTCAGCCAGAGATAAGAAGAGGGTGAAGTCAATTGACTTGACCATCGAAAGCTCA
 TCAGATGAGGAGGATTTGCCCCACCAAGAAGCACTGCCCTGTCACTCAGCGGCCATTCCAGCCCTT
 CTGGAAGCAAAGGAGCCCTGACCTCTGGTCAACAGCCATCCTCGGTGCTGCGGAGCCCTGCAATGGGAC
 ACTGGGCACTGACTTCTGTCTAGTCTCCCGCTACATGAGTACCCACTGCCTTCCCACTGGGGCTGAC
 ATCCAAGTTTAGATTTATTTCTTCTTCCAGTACGAGTACGACTACGAGTACGAGTACGAGTACGAGT
 CGCTAGATGAACAGGACACCCTTGGCCACTTCTCCAGTACCGGGGAACCCCTTCCCACTTCTGGGCC
 ACTGGCCCCACACTGGGAGCTCTCACCGAGCTCCACTCCAGCGCCCCCTCCTGGTGTGTGAGCAGC
 ATTTGGTCTCCTGGGAGCTCCTTGAGGGAAGGCATGGAGACCCCTGCCTTCAAGTCCCTTTGACTG
 GCTGTCGGTCAAGCTCATTTCCTTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220934 representing NM_018812
 Red=Cloning site Green=Tags(s)

MAELGELKHMVMSFRVSELQVLLGFAGRNKSGRKHLLAKALHLLKSSCAPSVQMKIKELYRRRFRPKTL
 GPSDLSSLSPPGTSPVHPDVTMKPLPFYEVYGEIIRPTTLASTSSQRFEEAHFTFALTPQQLQIILTS
 REVLPGAKCDYTIQVQLRFCLCETSCPQEDYFPPNLFVKVNGKLCPLPGYL PPTKNGAEPKRPSRPINIT
 PLARLSATVPNTIVVNSSEFGRNYSLSVYLVRQLTAGTLLQKLRAGIRNPDHSRALIKEKLTADPDSE
 VATTSLRVSLMCPLGKMRLTVPCRALTCAHLQSFDAALYLQMNEKKPTWTCPCVCDKAPYESLIIDGLFM
 EILNSCSDCEIQFMEDGSWCPMKPKKEASEVCPPPGYLDGLQYSAVQEGIQPESKKRVEIDLTISS
 SDEEDLPPTKKHCPVTSAAIPALPGSKGALTSGHQPSVLRSPAMGTLGSDFLSSLPLHEYPAFLGAD
 IQGLDLFSFLQTESQHYGPSVITSLDEQDTLGHFFQYRGTPSHFLGPLAPTLGSSHRSSTPAPPPGRVSS
 IVAPGSSSLREGHGGPLPSGPSLTGCRSDVISLD

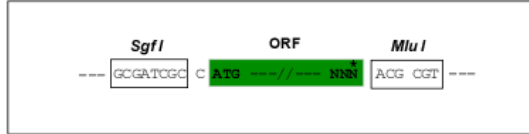
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

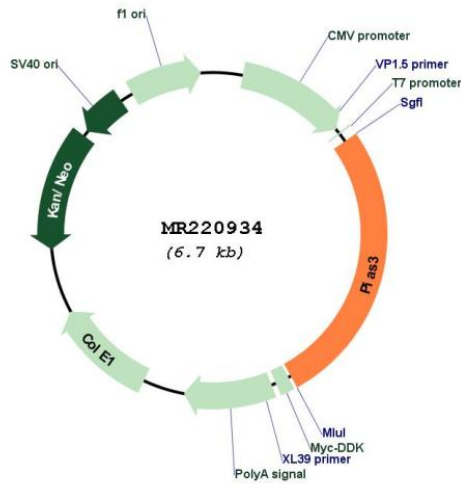
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_018812

ORF Size: 1779 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:	<ol style="list-style-type: none">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
MW:	65.2 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 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]