

Product datasheet for **MG220936**

Pias3 (NM_001165949) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pias3 (NM_001165949) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pias3
Synonyms:	Pias3l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220936 representing NM_001165949
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGAGCTGGGCGAGTTAAAGCACATGGTGTAGATTCCGAGTGTCTGAGCTCCAGGTGCTCCTCG
 GCTTCGCTGGCAGGAACAAGAGTGGGCGGAAACACGAGCTGCTGGCCAAGGCCCTGCACCTCCTCAAGTC
 TAGCTGCGCCCCAGCGTCCAGATGAAGATCAAAGAACTTTATCGCAGGCGCTTTCCCGGAAGACCCTG
 GGGCCTTCTGATCTCCTTGTCTTTGCCCCCTGGCACCTCTCCTGTAGGCTCCCCGGCCCCCTTG
 CTCCCATCCCTCCACCCTTCTGACCCCTGGCACCTTGTAGGCCCTAAGCGTGAGGTGGACATGCATCC
 TCCTCTGCCGAGCCTGTGCACCCGATGTACCATGAAGCCACTGCCCTTCTATGAAGTCTATGGGGAG
 CTCATCCGACCCACCACCCTTGCCTCCACCTCCAGCCAGAGGTTTCGAGGAAGCCACTTCACCTTCGCGC
 TCACTCCCAGCAGCTGCAGCAGATTCTACGTCCAGGGAGGTTCTGCCAGGAGCAAGTGTGATTACAC
 CATAAAGTGCAGCTCAGATTCTGTCTGTGAGACCAGCTGCCCTCAGGAGGACTATTTCCCCCTAAC
 CTCTTTGTTAAGGTTAATGGGAAACTCTGCCCCCTGCCGGGTTACCTCCCTCCAACCAAGAATGGAGCTG
 AGCCCAAGAGGCCAGCCGTCGATCAACATCACACCCTTGGCTCGACTCTCAGCCACTGTCCCAACAC
 CATCGTAGTTAATTGGTCATCTGAGTTTGGACGGAATTACTCCTTGTCCGTGTACCTGGTGGGCAATTG
 ACTGCAGGGACCCTTCTACAAAACCTCAGAGCCAAGGGGATCCGGAATCCAGACCATTCCCGGGCACTGA
 TCAAGGAGAACTGACTGCTGACCCGACAGTGAAGTGGTACTACAAGTCTCCGGGTGTACTCATGTG
 CCCGCTAGGGAAGATGCGCCTGACTGTCCCGTGTCTGCCCTCACCTGTGCCATCTGCAGAGTTTCGAT
 GCTGCCCTTATCTACAGATGAATGAGAAGAAGCCGACATGGACGTGCTCTGTGTGACAAGAAGGCTC
 CCTATGAGTCGCTGATTATTGATGGTTTATTCATGGAAATCTTAATTCCTGTTCCGATGTGATGAGAT
 CCAGTTCATGGAAGATGGATCCTGGTGTCCGATGAAACCAAGAAGGAGGCATCAGAGGTTTGCCCCCG
 CCAGGGTATGGGCTGGATGGTCTCCAGTACAGCGCAGTCCAGGAGGAATTCAGCCAGAGAGTAAGAAGA
 GGGTCAAGTCAATTGACTTGACCATCGAAAGCTCATCAGATGAGGAGGATTTGCCCCCAACAAGAAGCA
 CTGCCCTGTACCTCAGCGGCCATTCCAGCCCTTCTGGAAGCAAGGAGCCCTGACCTCTGGTCAACAG
 CCATCCTCGTGTGCGGAGCCCTGCAATGGGCACACTGGGCAGTACTTCTGTCTAGTCTCCCGCTAC
 ATGAGTACCCACCTGCCTTCCACTGGGGCTGACATCCAAGTTTAGATTTATTTCTTCTTCCAGAC
 TGAGAGTCACTACGCGCCTTCAATTACCTTCGCTAGATGAACAGGACACCCTTGGCCACTTCTTC
 CAGTACCGGGGAACCCCTTCCACTTCTGGGCCACTGGCCCCACACTGGGGAGCTCTACCCGACGT
 CCACTCCAGCGCCCCCTCCTGGTGTGTCAGCAGCATTGTGGCTCCTGGGAGCTCCTTGGGGAAGGGCA
 TGGAGGACCCCTGCCTCAGTCCCTTTGACTGGCTGTGCGGTACAGACGTCATTTCTTGGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG220936 representing NM_001165949
 Red=Cloning site Green=Tags(s)

MAELGELKHMVMSFRVSELQVLLGFAGRNKSGRKHELLAKALHLLKSSCAPSVQMKIKELYRRRFRKTL
 GPSDL SLLSLPPGTSPVGSPLAPIPTLLTPGTLGPKREVDMPPLPQVHPDVTMKPLPFYEVYGE
 LIRPTTLASTSSQRFEFAHFTFALTPQQLQILTSREVLPGAKCDYTIQVQLRFCLCETSCPQEDYFPPN
 LFVKVNGKLCPLPGYLPPTKNGAEPKRPSRPINITPLARLSATVPNTIVNWSSEFGRNYSLSVYLVRQL
 TAGTLLQKLRKIRNPDHSRALIKEKLTADPDSEVATSLRVSLMCPLGKMRLTVPICALTCAHLQSF
 AALYLQMNKKTWTCPVCDKAPYELIIDGLFMEILNSCSDCDEIQFMEDGSWCPMKPKKEASEVCPP
 PGYGLDGLQYSAVQEGIQPESKKRVEIDLTISSSDEEDLPPTKKHCPVTSAAIPALPGSKGALTSGHQ
 PSSVLRSPAMGTLGSDFLSSLPLHEYPFPLGADIQGLDLFSFLQTESQHYGPSVITSLDEQDTLGHFF
 QYRGTPSHFLGLAPTLGSSHRSTPAPPPGRVSSIVAPGSSLREGHGGLPSGSLTGCERSDVISLD

TRTRPLE – GFP Tag – V

Restriction Sites:

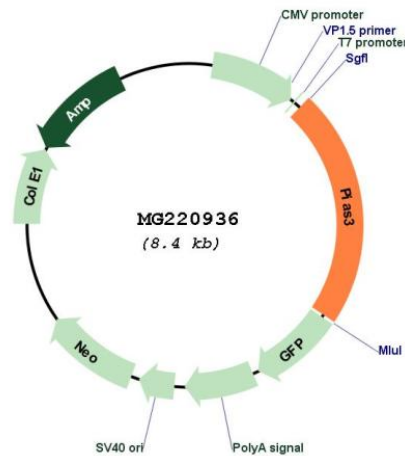
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001165949
 ORF Size: 1884 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_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]