

## Product datasheet for **MG220934**

### **Pias3 (NM\_018812) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pias3 (NM_018812) 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:**

>MG220934 representing NM\_018812  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGAGCTGGGCGAGTTAAAGCACATGGTGATGAGTTCCGAGTGTCTGAGCTCCAGGTGCTCCTCG  
 GCTTCGCTGGCAGGAACAAGAGTGGGCGGAAACACGAGCTGCTGGCCAAGGCCCTGCACCTCCTCAAGTC  
 TAGCTGCGCCCCAGCGTCCAGATGAAGATCAAAGAACTTTATCGCAGGCGCTTTCCCGGAAGACCCTG  
 GGGCCTTCTGATCTCTCCTTGTCTTTCTTTGCCCTTGGCACCTCTCCTCCTGTGCACCCCGATGTACCA  
 TGAAGCCACTGCCCTTCTATGAAGTCTATGGGAGCTCATCCGACCCACCACCCTTGCCTCCACCTCCAG  
 CCAGAGGTTTCGAGGAAGCCACTTCACCTTCGCGCTCACTCCCAGCAGCTGCAGCAGATTCTCACGTCC  
 AGGGAGGTTCTGCCAGGAGCCAAGTGTATTACACCATAAAGTGCAGCTCAGATTCTGTCTCTGTGAGA  
 CCAGCTGCCCTCAGGAGGACTATTTCCCCCTAACCTCTTTGTTAAGGTTAATGGGAAACTGCCCCCT  
 GCCGGTTACCTCCCTCAACCAAGAATGGAGCTGAGCCCAAGAGGCCAGCCGTCGGATCAACATCACA  
 CCCTTGGCTCGACTCTCAGCCACTGTCCCAACACCATCGTAGTTAATTGGTCATCTGAGTTGGACGGA  
 ATTACTCCTTGTCCGTGTACCTGGTGAGGCAATTGACTGCAGGGACCCTTCTACAAAACTCAGAGCCAA  
 GGGGATCCGGAATCCAGACCATTCCCGGCACTGATCAAGGAGAACTGACTGCTGACCCCGACAGTGAA  
 GTGGCTACTACAAGTCTCCGGGTGCTACTCATGTGCCCGTAGGGAAGATGCGCCTGACTGTCCCGTGT  
 GTGCCCTCACCTGTGCCATCTGCAGAGTTTCGATGCTGCCCTTATCTACAGATGAATGAGAAGAAGCC  
 GACATGGACGTCTCCTGTGTGACAAGAAGGCTCCCTATGAGTCGCTGATTATTGATGGTTTATTCATG  
 GAAATCTTAATTCCTGTTCCGATTGTGATGAGATCCAGTTCATGGAAGATGGATCCTGGTCCGATGA  
 AACCAAGAAGGAGGCATCAGAGGTTTGCCTCCGAGGGTATGGGCTGGATGGTCTCCAGTACAGCGC  
 AGTCCAGGAGGGAATTCAGCCAGAGATAAGAAGAGGGTCAAGTCACTGACTTGACCATCGAAAGCTCA  
 TCAGATGAGGAGGATTTGCCCCACCAAGAAGCACTGCCCTGTACCTCAGCGGCCATTCCAGCCCTT  
 CTGGAAGCAAAGGAGCCCTGACCTCTGGTCAACAGCCATCCTCGGTGCTGCGGAGCCCTGCAATGGGCAC  
 ACTGGGCACTGACTTCTGTCTAGTCTCCCGCTACATGAGTACCCACCTGCCTTCCCACTGGGGCTGAC  
 ATCCAAGTTTAGATTTATTTCTTCTTCCAGTACGAGTACGACTACGGCCCTTCACTTATCACTT  
 CGCTAGATGAACAGGACACCTTGGCCACTTCTCCAGTACCGGGGAACCCCTTCCCACTTCTGGGCC  
 ACTGGCCCCACACTGGGAGCTCTCACCGCAGCTCCACTCCAGCGCCCCCTCCTGGTGTGTGAGCAGC  
 ATTTGGTCTCCTGGGAGCTCCTTGAGGGAAGGCATGGAGACCCCTGCCTTCAAGTCCCTTTGACTG  
 GCTGTCGGTCAAGCAGTCAATTCCTTGGAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG220934 representing NM\_018812  
 Red=Cloning site Green=Tags(s)

MAELGELKHMVMSFRVSELQVLLGFAGRNKSGRKHELLAKALHLLKSSCAPSVQMKIKELYRRRFPRKTL  
 GPSDL SLLSLPPGTSPVHPDVTMKPLPFYEVYVYELIRPTTLASTSSQRFEEAHFTFALTPQQLQQLILTS  
 REVLPGAKCDYTIQVQLRFCLCETSCPQEDYFPPNLFVKVNGKLCPLPGYL PPTKNGAEPKRPSRPINIT  
 PLARLSATVPNTIVVNWSSEFGRNYSLSVYLVRQLTAGTLLQKLRAKIRNPDHSRALIKEKLTADPDSE  
 VATTSLRVSLMCPLGKMRLTVPCRALTCAHLQSFDAALYLQMNEKKPTWTCPVCDKKAPYESLIIDGLFM  
 EILNSCSDCEIQFMEDGSWCPMKPKKEASEVCPPPGYGLDGLQYSAVQEGIQPESKKRVEIDLTISS  
 SDEEDLPPTKKHCPVTSAAIPALPGSKGALTSQHQPSSVLRSPAMGTLGSDFLSSLPLHEYPPAFPLGAD  
 IQGLDLFSLQTESQHYGPSVITSLDEQDTLGHFFQYRGTPSHFLGPLAPTLGSSHRSSPTAPPPGRVSS  
 IVAPGSSLREGHGGLPSGSLTGCRSDVISLD

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

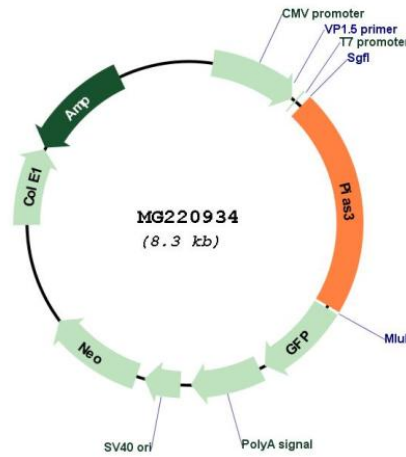
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_018812

ORF Size: 1779 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_018812.2</a> , <a href="#">NP_061282.2</a>
<b>RefSeq Size:</b>	2833 bp
<b>RefSeq ORF:</b>	1782 bp
<b>Locus ID:</b>	229615
<b>UniProt ID:</b>	<a href="#">O54714</a>
<b>Cytogenetics:</b>	3 F2.1
<b>Gene Summary:</b>	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]