

Product datasheet for **MG208155**

Pias4 (NM_021501) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pias4 (NM_021501) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pias4
Synonyms:	Pias-gamma; Piasg; PIASY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208155 representing NM_021501
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCAGAGCTGGTGGAGGCCAAAAACATGGTGATGAGCTTCCGAGTATCAGACCTGCAGATGCTGC
 TGGGCTTTGTAGCCGGAGCAAGAGTGGGCTGAAGCACGAACTGGTGACCAGGGCCTTGCACTGGTGCA
 GTTCGACTGTAGCCAGAGCTTTTCAAGAAGATCAAAGAGCTGTATGAGACTCGCTATGCCAAGAAGAGT
 GCAGAGCCCGGCCACAGGCACCACGGCCCTGGATCCCCTGGCACTACACTCCATGCCAGGACTCCCC
 TGTGAGGGCCACCGTGGACTACCCCGTGTACGGGAAGTACTTGAATGGACTGGGGCGCTGCCAC
 CAAGACCCCTAAGCCGGAGGTACGCTGGTTAAGCTCCCCTTCTCAACATGCTGGACGAATTGCTGAAG
 CCCACTGAACTGGTCCCACAGAGTGCAGAGAAGCTGCAAGAGAGCCCATGCATCTTCGCGCTAACACCTC
 GGCAGGTGGAGATGATCCGCAACTCCAGGGAGCTGCAGCCTGGAGTAAAAGCTGTGCAGGTGGTGTGAG
 GATCTGTTACTCTGATACCAGCTGTCCGAGGAGACCAATACCCACCAACATCGCTGTGAAGGTCAAC
 CACAGCTACTGCTCAGTCCGGGCTACTATCCCTCCAACAAGCCTGGTGTGGAACCTAAGAGGCCCTGCC
 GCCCATCAACCTTACCCACCTCATGTATCTGTCTCGGCCACCAACCGCATTACTGTACCTGGGGCAA
 CTATGGCAAGAGCTACTCTGTGGCTTTGTACCTGGTGGCAGAGCTGACCTCCTCAGACCTGCTACAGAGG
 TTGAAGACGATTGGGGTGAAGCATCCTGAGCTGTGCAAGGCTTTGGTCAAGGAGAAGCTTCGCCTAGACC
 CCGACAGCGAGATCGCCACTACCGGAGTGCAGTGTCCCTCATCTGCCCACTGGTGAAGATGCGCCTCTC
 GGTGCCCTGCCGTGCAGAGACCTGCGCACACCTGCAGTGTCTTGTGCTGTGTTCTACCTGCAAAATGAAT
 GAGAAGAAGCCCACCTGGATGTGCCCTGTGTGACAAGCCTGCAGCCTATGACCAGCTCATCATAGATG
 GGCTGCTGTGCAAGATCCTGAGTGTGAGTGTGAGGGCGCGGATGAGATTGAGTTCTGGCGAAGGCATG
 GGTCCAATCCGTGCAGAGAAGGAGCAAGCTGCAGCCACAGGGCCCATCCTGGTGTAGGCACCTCG
 GACGCCAATGGGCTCGCACAGCCTCCAGCACCCCGGTATAGGCAGTGGCCTGAGTGGCCAGGCAGCG
 CCGGCAGCGGTGCGGGGCGAGCAGGCAGCCTGGAGAATGGCAAGACGGGAGCCGACGTGGTGGACCTCAC
 ACTGGACAGCTCGTCTCGGAAGATGAAGATGAGGACGAGGACGACGATGAGGACGAGGACGAGGGG
 CCCCGGCCGAGCGCCGCTGCCGTTCCAGAAAGGCTGGTGGCCGCTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208155 representing NM_021501
 Red=Cloning site Green=Tags(s)

MAAELVEAKNMVMSFRVSDLQMLLGFVGRSKSGLKHELVTALQLVQFDCSPELFFKIKELYETRYAKKS
 AEPGPQAPRPLDPLALHSMPTPLSGPTVDYPVLYGKYLNGLGRLPTKTLKPEVRLVKLPFFNMLDELLK
 PTELVPQSAEKLQESPCIFALTPRQVEMIRNSRELQPGVKAVQVLRICYSYDTSQPEDQYPPNIAVKVN
 HSYCSVPGYYPNSKPGVEPKRCPINLTHLMYLSSATNRITVTWGNYGKSYSVALYLVRQLTSSDLLQR
 LKTIGVKHPELCKALVKEKLRLLDPDSEIATTGVRVSLICPLVKMRLSVP CRAETCAHLQCFDAVFYLMN
 EKKPTWMCVPVCDKPAAYDQLIIDGLLSKILSECEGADEIEFLAEGSWRPIRAEKEPSCSPQGPILVLGTS
 DANGLAPASSTPGIGSGLSGPGSAGSGAGAAGSLENGKTADVVDLTLDSSSSSEDEDEDEDEDEDEDE
 PRPKRRCPFQKGLVPAC

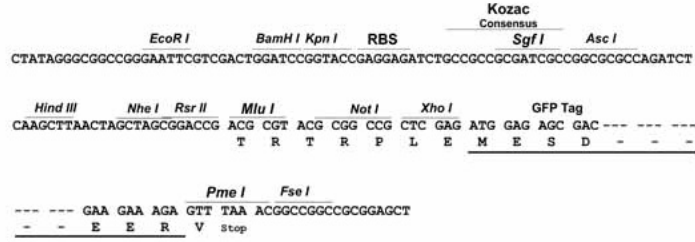
TRTRPLE – GFP Tag – V

Restriction Sites:

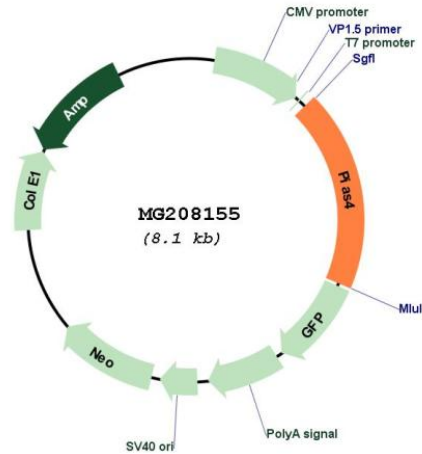
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_021501

ORF Size: 1521 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_021501.4](#)

RefSeq Size: 2441 bp

RefSeq ORF: 1524 bp

Locus ID: 59004

UniProt ID: [Q9JIM05](#)

Cytogenetics: 10 C1

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/TP53 pathway, the Wnt pathway and the steroid hormone signaling pathway. Involved in gene silencing. Mediates sumoylation of CEBPA, PARK7, HERC2, MYB, TCF4 and RNF168. In Wnt signaling, represses LEF1 and enhances TCF4 transcriptional activities through promoting their sumoylations. Enhances the sumoylation of MTA1 and may participate in its paralog-selective sumoylation (By similarity).[UniProtKB/Swiss-Prot Function]