

Product datasheet for **MG204756**

Pim3 (NM_145478) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pim3 (NM_145478) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pim3
Synonyms:	BC026639; Kid1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204756 representing NM_145478 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTGTCCAAGTTCGGCTCCCTGGCGCACCTCTGCGGGCCTGGCGGCTGGACCACCTCCCAGTGA
AGATCCTACAGCCAGCCAAGGCTGACAAGGAGAGCTTCGAGAAGGTGTACCAGGTGGCGCCGTGCTGGG
CAGCGCGGGCTTCGGCACGGTCTACGCGGGCAGCCGATCGCCGACGGACTCCCGTGGCTGTGAAGCAC
GTGGTGAAGGAGCGGGTACCGAGTGGGCAGTCTCGCGGAGTGGCCGTGCCCTGGAGGTGGTGTCTGC
TGCGAAGGTGGCGCGGGCGGGCGCGCGCGCTCATCCGCTTGCTGGACTGGTTCGAGCGGCCGA
CGGCTTCTTGGTGTGGAGCGACCCGAGCCGGCACAGGACCTCTCGACTTCATCACTGAACGAGGC
GCCCTGGACGAGCCGCTGGCGCTCGCTTCTTCGCGCAGGTGCTTGCCGCTGTGCGGCACTGCCACAATT
GTGGGGTTCGTGCACCGCGACATCAAGGACGAGAACCTGCTGGTGGACTGCGCTCGGGAGAGCTGAAGCT
CATCGACTTCGGCTCGGGCGGGTGTCAAGGACACGGTCTACACTGACTTTGATGGCACCCGTGTGTAC
AGCCCCCAGAGTGGATCCGATACACCGATATCACGGCGGTCTGCCACTGTGTGGTCTCTGGGTGTAC
TGCTCTACGACATGGTGTGTGGGACATTCCCTTTGAGCAGGATGAGGAGATCTTCCGCGGACAGGCTCTT
TTCCGGAGGAGGTCTCCCCAGAGTGCCAGCAGCTTATTGAGTGGTGTCTCTCCCTGAGGCCCTCAGAG
AGGCCCTCCCTGGACAAATTGCTGCCACCCCTGGATGCTGGGACAGAGGGGAGCGTTCCAGAGAAT
GTGACCTTCGGCTTTGTGCCCTGGATACTGACGACGGAGCCAGTACCACCTCCAGCAGTGAGAGCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204756 representing NM_145478
 Red=Cloning site Green=Tags(s)

MLLSKFGSLAHLCPGGVDHLPVKILQPAKADKESFEKVYQVGAVLGSGGFGTVYAGSRIADGLPVAVKH
 VVKERVTEWGSLLGGVAVPLEVLLRKVGAAGGARGVIRLLDWFERPDPGLLVLERPEPAQDLDFDITERG
 ALDEPLARRFFAQVLA AVRHCNCGVVHRDIKDENLLVDLRSGELKLIDFGSGAVLKDTVYDFDGTTRVY
 SPPEWIRYHRYHGRSATVWSLGVLLYDMVCGDIPFEQDEEILRGRLFFRRRVSPECQQLIEWCLSLRPSE
 RPSLDQIAAHPWMLGTEGSPENC DLRLCALD TDDGASTTSSSESL

TRTRPLE - GFP Tag - V

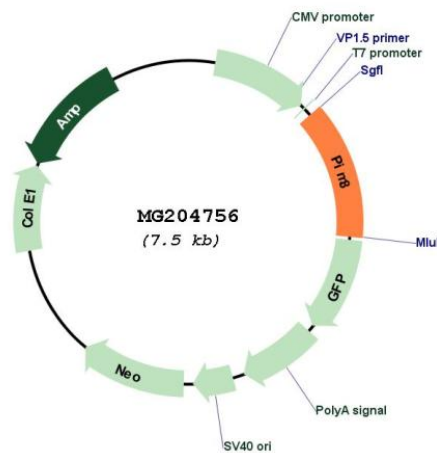
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_145478

ORF Size: 978 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_145478.2 , NP_663453.1
RefSeq Size:	2419 bp
RefSeq ORF:	981 bp
Locus ID:	223775
UniProt ID:	P58750
Cytogenetics:	15 E3
Gene Summary:	Proto-oncogene with serine/threonine kinase activity that can prevent apoptosis and promote cell survival and protein translation. May contribute to tumorigenesis through: the delivery of survival signaling through phosphorylation of BAD which induces release of the anti-apoptotic protein Bcl-X(L), the regulation of cell cycle progression and protein synthesis and by regulation of MYC transcriptional activity. Additionally to this role on tumorigenesis, can also negatively regulate insulin secretion by inhibiting the activation of MAPK1/3 (ERK1/2), through SOCS6. Involved also in the control of energy metabolism and regulation of AMPK activity in modulating MYC and PPARGC1A protein levels and cell growth.[UniProtKB/Swiss-Prot Function]