

Product datasheet for MR204756

Pim3 (NM_145478) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pim3 (NM_145478) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pim3
Synonyms:	BC026639; Kid1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204756 representing NM_145478 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGCTGTCCAAGTTCGGCTCCCTGGCGCACCTCTGCGGGCCTGGCGGCGTGGACCACCTCCCAGTGA
AGATCCTACAGCCAGCCAAGGCTGACAAGGAGAGCTTCGAGAAGGTGTACCAGGTGGCGCCGTGCTGGG
CAGCGCGGCTTCGGCACGGTCTACGCGGCAGCCGATCGCCGACGGACTCCCGTGGCTGTGAAGCAC
GTGGTGAAGGAGCGGGTACCGAGTGGGCAGTCTCGCGGAGTGGCCGTGCCCTGGAGGTGGTGTCTGC
TGCGAAGGTGGCGCGCGGGCGCGCGCGCTCATCCGCTTGCTGGACTGGTTCGAGCGGCCGA
CGGCTTCTTGGTGTGGAGCGACCCGAGCCGGCACAGGACCTCTCGACTTCATCACTGAACGAGGC
GCCCTGGACGAGCCGCTGGCGCTCGCTTCTTCGCGCAGGTGCTTGCCGCTGTGCGGCACTGCCACAATT
GTGGGGTTCGTGCACCGGACATCAAGGACGAGAACCTGCTGGTGGACTGCGCTCGGGAGAGCTGAAGCT
CATCGACTTCGGCTCGGGCGGGTGTCAAGGACACGGTCTACACTGACTTTGATGGCACCCGTGTGTAC
AGCCCCCAGAGTGGATCCGATACACCGATATCACGGCGGTCTGCCACTGTGTGGTCTCTGGGTGTAC
TGCTCTACGACATGGTGTGTGGGACATCCCTTTGAGCAGGATGAGGAGATCTTCCGCGGACAGGCTCTT
TTCCGGAGGAGGTCTCCCAAGTGCACAGCTTATTGAGTGGTGTCTCTCCCTGAGGCCCTCAGAG
AGGCCCTCCCTGGACAAATTGCTGCCACCCCTGGATGCTGGGACAGAGGGGAGCGTTCCAGAGAAT
GTGACCTTCGGCTTTGTGCCCTGGATACTGACGACGGAGCCAGTACCACCTCCAGCAGTGAGAGCTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204756 representing NM_145478
Red=Cloning site Green=Tags(s)

MLLSKFGSLAHLCPGGVDHLPVKILQPAKADKESFEKVYQVGAVLGSGGFGTVYAGSRIADGLPVAVKH
 VVKERVTEWGSLLGGVAVPLEVLLRKVGAAGGARGVIRLLDWFERPDPGLLVLERPEPAQDLDFDITERG
 ALDEPLARRFFAQVLAAVRHCHNCGVVHRDIKDENLLVDLRSSELKIDFGSGAVLKDTVYDFDGT
 RYV SPPEWIRYHRYHGRSATVWSLGVLLYDMVCGDIPFEQDEEILRGRLFRRRVVSPECQQLIEWCLSLR
 PSE RPSLDQIAAHPWMLGTEGSPENC DLRLCALDTDDGASTTSSSESL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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:

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

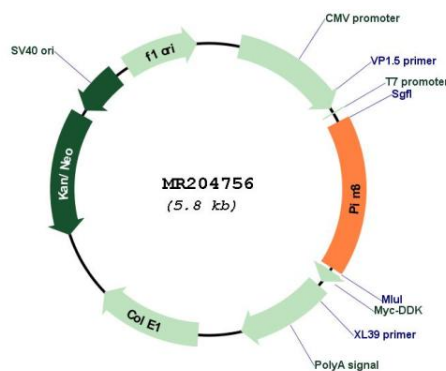
UniProt ID: [P58750](#)

Cytogenetics: 15 E3

MW: 36.4 kDa

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]

Product images:



Circular map for MR204756