

Product datasheet for **MR207362**

Pik3r3 (NM_181585) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pik3r3 (NM_181585) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pik3r3
Synonyms:	AA414954; p55pik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207362 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACAATACGGTGTGGAGTATGGACCGCATGACGCAGACTGGAGGGAGGTGATGATGCCTATTCGA
 CAGAACTGATATTTTATATTGAAATGGATCCTCCAGCTCTCCACCAAAGCCACCTAAGCCAATGACTCC
 AGCAGTCACAAATGGAATGAAGGACAGTTTCATTTCTCTTCAAGATGCAGAGTGGTACTGGGAGATATT
 TCCAGGGAAGAGGTAAATGACAAATTCGCGGACATGCCAGATGGTACCTTCTTAGTTCGTGATGCCTCAA
 CGAAAAATGCAGGGGATTATACATTGACTTTGAGGAAGGGAGGAAATAATAAATTAATAAAGATCTATCA
 TCGGGATGGTAAATATGGCTTCTCTGAGCCCTGACGTTTACTTCTGTGGTGGAGCTTATTAACCACTAC
 CACCACGAGTCTCTCGCTCAGTACAATCCCAAACCTCGACGTGAAGCTGACGTACCCAGTATCCAGATTCC
 AACAGGATCAGTTGGTAAAAGAAGATAACATTGATGCAGTAGGTAATAAATCTGCAGGAGTCCACTCTCA
 GTATCAGGAGAAGAGCAAAGAGTATGACAGGCTGTATGAAGAGTACACAAGGACATCACAGGAAATACAA
 ATGAAGAGGACTGCCATTGAAGCCTTAAATGAAACAATTAATAATTTGAGGAGCAGTGTCATACCCAAG
 AACACACAGTAAAGACTATATCGAGCGCTTTCGACAGAGAGGGGAATGAGAAGGAGATCGAGCGAATTAT
 GATGAATTATGATAAATTGAAATCACGCTTGGTGGAGTTCATGATAGCAAACCTGCGCTTGGAGCAGGAC
 TTGAAGAAAACAGCTTTGGACAACCGGAAATAGATAAAAAATGAATAGCATCAAACCCGACTTGATCC
 AGCTGCGTAAGATCCGGGATCAGCACCTTGATGGCTCAATCACAGAGGAGTGGGCAGAGGCGCCTGAA
 TGCTGGCTGGGGATCAAGAATGAGGACTCAGATGAAAGCTATTTTATCAATGAGGAAGATGAGAACCTG
 CCGCATTATGATGAGAAAACCTGGTTTGTGGAGGATATCAACCGAGTACAAGCAGAGGACTTGCTTTATG
 GGAAACCAGATGGTGCATTCTTAATTCGTGAGAGTAGCAAGAAAGGATGTTACGCTTGTCTGTGGTTGC
 AGACGGGGAAGTGAAGCACTGTGTCTACAGCACGGCTCGAGGATATGGCTTTGACAGAACCCCTACAAC
 CTGTACAGCTCACTGAAGGAGCTGGTGCTCCATTACCAGCAGACATCCCTGGTTCAGCACACGACTCCC
 TCAACGTCAGGCTCGCTACCCTGTCCATGCACAGATGCCTACGCTCTGCAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207362 protein sequence
 Red=Cloning site Green=Tags(s)

MYNTVWSMDRDDADWREVMMPYSTELEFYIEMDPPALPPKPPKPMTPAVTNGMKDSFISLQDAEWYWGDI
 SREEVNDKLRDMPDGTFLVRDASTKMQGDYTLTLRKGGNNKLIKIYHRDGKYGFSEPLTFTSVVELINHY
 HHESLAQYNPKLDVKL TYPVSRFQQDQLVKEDNIDAVGNLQEFHSQYQEKESKEYDRLYEEYTRTSQEIQ
 MKRTAIEAFNETIKIFEEQCHTQEQHSKDYIERFRREGNEKEIERIMMNYDKLKSRLGEIHDSKLRLEQD
 LKKQALDNREIDKMNKSIKPDLIQLRKIRDQHLVWLNHRGVRQRRLNAWLGIKNEDSDESYFINEEDENL
 PHYDEKTFWVEDINRVQAEDLLYGKPDGAFLIRESSKKGACYACSVVADGEVKHCVIYSTARGYGFAPYPN
 LYSSLKELVLHYQQTSLVQHNSLNVRLAYPVHAQMPTLCR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_181585

ORF Size: 1386 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_181585.6](#)
RefSeq Size: 5004 bp

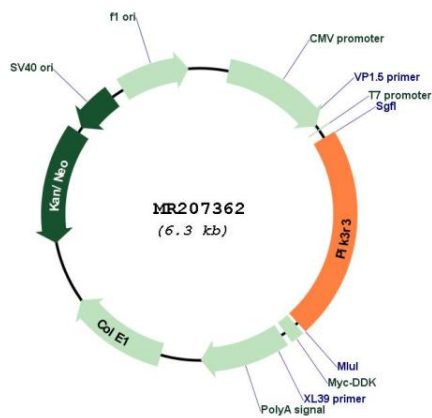
RefSeq ORF: 1386 bp

Locus ID: 18710

UniProt ID: [Q64143](#)

Cytogenetics: 4 D1
MW: 54.5 kDa
Gene Summary: Binds to activated (phosphorylated) protein-tyrosine kinases through its SH2 domain and regulates their kinase activity. During insulin stimulation, it also binds to IRS-1. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207362