

Product datasheet for **MG207362**

Pik3r3 (NM_181585) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pik3r3 (NM_181585) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pik3r3
Synonyms:	AA414954; p55pik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207362 representing NM_181585
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACAATACGGTGTGGAGTATGGACCGCATGACGCAGACTGGAGGGAGGTGATGATGCCTATTCGA
 CAGAACTGATATTTTATATTGAAATGGATCCTCCAGCTCTCCACCAAAGCCACCTAAGCCAATGACTCC
 AGCAGTCACAAATGGAATGAAGGACAGTTTCATTTCTCTTCAAGATGCAGAGTGGTACTGGGAGATATT
 TCCAGGGAAGAGGTAAATGACAAATTCGCGGACATGCCAGATGGTACCTTCTTAGTTCGTGATGCCTCAA
 CGAAAAATGCAGGGGATTATACATTGACTTTGAGGAAGGGAGGAAATAATAAATTAATAAAGATCTATCA
 TCGGGATGGTAAATATGGCTTCTCTGAGCCCTGACGTTTACTTCTGTGGTGGAGCTTATTAACCACTAC
 CACCACGAGTCTCTCGCTCAGTACAATCCCAAACCTCGACGTGAAGCTGACGTACCCAGTATCCAGATTCC
 AACAGGATCAGTTGGTAAAAGAAGATAACATTGATGCAGTAGGTAATACTGCAGGAGTCCACTCTCA
 GTATCAGGAGAAGAGCAAAGAGTATGACAGGCTGTATGAAGAGTACACAAGGACATCACAGGAAATACAA
 ATGAAGAGGACTGCCATTGAAGCCTTTAATGAAACAATTAATAATTTGAGGAGCAGTGTCATACCCAAG
 AACAAACACAGTAAAGACTATATCGAGCGCTTTCGACAGAGAGGGGAATGAGAAGGAGATCGAGCGAATTAT
 GATGAATTATGATAAATTGAAATCACGCTTGGTGGAGTTCATGATAGCAAACCTGCGTCTTGAGCAGGAC
 TTGAAGAAAACAGCTTTGGACAACCGGAAATAGATAAAAAATGAATAGCATCAAACCCGACTTGATCC
 AGCTGCGTAAGATCCGGGATCAGCACCTTGATGGCTCAATCACAGAGGAGTGGGCAGAGGCGCCTGAA
 TGCTGCTGGTGGGATCAAGAATGAGGACTCAGATGAAAGCTATTTATCAATGAGGAAGATGAGAACCTG
 CCGCATTATGATGAGAAAACCTGGTTTGTGGAGGATATCAACCGAGTACAAGCAGAGGACTTGCTTTATG
 GGAAACAGATGGTGCATTCTTAATTCGTGAGAGTAGCAAGAAAGGATGTTACGCTTGTCTGTGGTTGC
 AGACGGGGAAGTGAAGCACTGTGTCTACAGCACGGCTCGAGGATATGGCTTTGCAGAACCCTACAAC
 CTGTACAGCTCACTGAAGGAGCTGGTGCTCCATTACCAGCAGACATCCCTGGTTCAGCACACGACTCCC
 TCAACGTCAGGCTCGCTACCCTGTCCATGCACAGATGCCTACGCTCTGCAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207362 representing NM_181585
 Red=Cloning site Green=Tags(s)

MYNTVWSMDRDDADWREVMMPYSTELEFYIEMDPPALPPKPPKPMTPAVTNGMKDSFISLQDAEWYWGDI
 SREEVNDKLRDMPDGTFLVRDASTKMQGDYTLTLRKGGNNKLIKIYHRDGKYGFSEPLTFTSVVELINHY
 HHESLAQYNPKLDVKLTYPVSRFQQDQLVKEDNIDAVGKNLQEFHSQYQEKSKKEYDRLYEEYTRTSQEIQ
 MKRTAIEAFNETIKIFEEQCHTQEQHSKDYIERFRREGNEKEIERIMMNYDKLKSRLGEIHDSKLRLEQD
 LKKQALDNREIDKKMNSIKPDLIQLRKIRDQHLVWLNHRGVRQRRLNAWLGIKNEDSDESYFINEEDENL
 PHYDEKTFWVEDINRVQAEDLLYGKPDGAFIRESSKKGCYACSVVADGEVKHCVIYSTARGYGF AEPYN
 LYSSLKELVLHYQQTSLVQHNSLNVRLAYPVHAQMPTLCR

TRTRPLE – GFP Tag – V

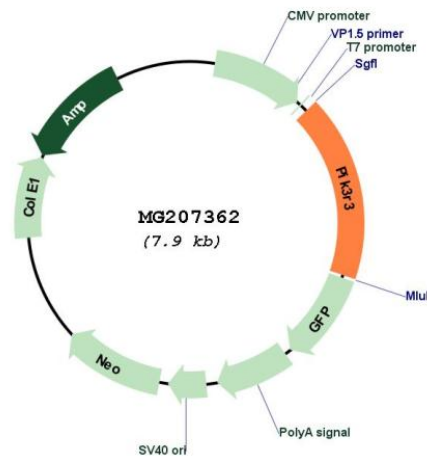
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_181585

ORF Size: 1383 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_181585.6
RefSeq Size:	5004 bp
RefSeq ORF:	1386 bp
Locus ID:	18710
UniProt ID:	Q64143
Cytogenetics:	4 D1
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]