

Product datasheet for **MG215790**

Pik3r5 (NM_177320) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pik3r5 (NM_177320) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pik3r5
Synonyms:	AV230647; F730038I15Rik; Foap2; p101
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG215790 representing NM_177320
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGCCAGCAGCCACAACGTGCACAGAGACCGCATCCAGCATGCTCTGGAGCGATGCTTGCATGGAC
 TGAGCCTCGGACGCCGTTCTGCTCCCTGGTCAGCCGGGCTGTGTCTGAACTGCTGGAGCCTACAGGAGCT
 GGTGAGCAGGGACCCGGGCCACTTCTCATCTCTGGAACAGATCCTACAAAAGACCCAAGAGGTCCTAA
 GAGAAAGGCACCTATGACCTCTCGCCCGCTGGCTCTGCTTTTATTCCACTGTCTCTGTACACCAC
 ACTTCCCACCAGACTCCGACCTCTGCTGAAGGCAGCCAGCACCTACCACTGCTTCTGACCTGGCCAGT
 TCCCTACTGCAGCATCTGCAGAGAGATGCTCACCTTCATTGATGCTGAACTCAAGCCCCAGGAATCTCC
 TACCAGCGGCTGGTGAGGGCTGAGCAGGGCTGCCCGTCAGGAGCCACCGAAGTCCACTGTCAGTGTGC
 TGTTGCTGAACCCGGTAGAGGTACAGGCTGAATTCCTTGTGTGGCAGACAAGCTGAGCACGCTGGACA
 GTCACCCACGGCACCTACACCACCTGCTCCTGCATGCCTTCCAGGCCACCTTTGGGGCCCACTGCGAC
 CTTCTAAACTACACCGCAAACCTCAGTCCAAGACAATAGAAGAGCTGGAGGACATCTTACCGAGACGA
 CAGAAGCCAGGAGCTGGCGTCTGGCATTGGGGATGTAGCAGAGGCCCGAGAGTGGCTCCGGACCAAGCT
 GCAGGCAGTGGGAGAAAAGCGGGCTTCCCTGGCATCTTAGACACTGCAAGCCCTGGGAACTCCACACC
 ATCCCCATCCCTGTCCAGATGCTACACCTACAGCTGGAACAGGACAGCTTTGACATCTACAGGAAG
 TCCTTCTCAAGGAACAGGAGCTGCTGCAGCCAGGGATCTTGGGAGATGATGAAGAGGAGGAAGAGGAGGA
 CTTGGAGATGGACAGGCATTGCGCTGAGAGGGACTCTCTCTCTCCACCAGCTCCCTGGTGTCTCACGAC
 TCCACACTGTTGCTCACCTCCTCAGGCCTCAGAACCAGTGTGTCCCAGAGATGCTGACCACCTTTG
 TCTCAGGCCTCTCGGATGGCATGGACAGTGGCTACGTGGAGGACAGCGAGGAAAACCTCAGAGTGGCCCCA
 AAAGCCCGCAGCCAGAAACCGCCAGGGTTCATCGCAGGCCTGGGCAGAAAGTTCAACAGGTTCTATAAACTC
 TTAAGAGCACCGCCAGTTAGTCTGAGGAGGGACTCTCGGAGCCTGGAGAGCAGTGTAGACCCAAACC
 TGCTCTGCGAAGGGCTGGGAGCCTCTGCAGCCCTTGGACTGTCCCGCTCAGCTCCCCTCCCGGGCTCA
 GCGCTCACGGTCTTGCCTCAGGCCAAGCTCACCACTCCAGATGGTTCTGGCACCACCCTCA
 CACCACCAGCGCCCGTCCCTCCTCAGTGGGATGAGGACCCAAAGCTTCCACACTACGGGTTGTGG
 TCTTTGGCTGTATCGGATTTCAAGGAAGGTGGCTAGGGCCTATAGCAAGCTCAGGAGGCTGGAGACCAG
 TCACCCTATCCTCACAGCTTCTCAAGCTTCAGTTCCTCTATGTGCTGTGAAGAGAAGCCACGGAACC
 AGCCCCAGTGCCTGCCATCCTCTCTGAGCCAAGCATCTCCACTCCCTGCAGACTCCCTGAAGTACCCCA
 GCCCTACAGACCTTGGCATGGCCCCATGGGAGGACAGTACCAATGACATCTCTACTACCTCGGTATGCT
 TGACCCCTGTTACGAACGCAATGTGTTGGGCTCATGCACCTGCCTCCTGAAGTCTTTGTGAGCAGTCC
 CTGAAGGCAGACTCTCGGCCCTGGAGGGATCGGCCACCCAGCTGCCATCCTGGCCGATATGTTACTCT
 ACTACTGCCGCTTTGCGGCCCGCCCGTGTGTGTCAGGTTTACCAGACAGAGCTGACCTTTGTACCCGG
 GGAGAAGACCACAGAGATCTTATCCAGTCTCTGGAGCTGGGTCACTCTGCGACCACTCGGGCTATCAAG
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 TTATTTACAGCAAGGGAGCCATCAGTGGCGAAGCCGCTGGAGCAACCTGGAGAAGGTCTGCACCTCTGT
 TAACCTCAGCAAGGCCTGCCAGAAGCCGAGGAGCTAGACTCCAGCATGGAGGCGCTAACGCTAACCTG
 ACAGAAGTGGTGAAGAGGCAGAACCCTAAATCCAAAAGGGCTTTAACAGATCAGTACATCCTACATCA
 AAGTGGACAAGGTGCAGATCATCGGCTCTAGCAGCTGCCCTTTGCCGTGTGTCTAGACCAGGATGAGAG
 AAAGATCCTGCAGAGTGTGGTCAAGTGTGAAAGTGTACCCTGCTACAAGCCAGAGAAGAGCAGCTTGCCA
 CCCGAGAGGTCCTCAGCCAGCCAGCAGAGACTGGGTCCGACCTGTGCTCCCTTCTGCTTCCCATCA
 TGACATTCAGTGGGGCTCTGCC

ACGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG215790 representing NM_177320
 Red=Cloning site Green=Tags(s)

MQPAATTCTEDRIQHALLERCLHGLSLGRRSAPWSAGLCLNCWSLQELVSRDPGHFLILLEQILQKTQEVQ
 EKGTYDLLAPLALLFYSTVLCPTHFPDSDLLKAASYHCFLTWPVPYCSICREMLTFIDAELKAPGIS
 YQRLVRAEQGLPVRSHRSSTVTVLLLNPEVQAEFLAVADKLPSTPGQSPHGTYTLLHAFQATFGAHC
 LPKLHRKLSKTIIEELEDIFTEETEAQELASGIGDVAEAREWLRTKLQAVGEKAGFPGLDASPGLHT
 IPIPVARCYTYSWNQDSFDILQEVLLKEQELLQPGILGDDEEEEEEDLEMDRHAERDSSLSTSSLVSHD
 STLLLTSSQASEPVL SRQMLTTFVSGLSDGMDSGYVEDSEENSEWPQKPGSQKRQGHRRPGQKFNRFYKL
 LKSTSQLVLRDRSRLESSEVDPTLPLRRAGSLCSPLDCPAQLPSRAQSRSLPQAKLTTQLPRWLLAPPS
 HHQRRRPFLSGDEDPKASTLRVVVFGSDRISGKVARAYSKLRRLETSHPIILTRFFKLQFFVYVVKRSHGT
 SPSACPSSLQASPLPADSLKYPSTDLGMAPWEDSTNDISHYLGMLDPWYERNVGLMHLPPPEVLCQQS
 LKADSRPLEGSATQLPILADMLLYCRFAARPVLLQVYQTELTFTVTEKTEIFIQSLELGHSAATTRAIK
 ASGRGRKRLGIDDDREAVPLTLQIIYSKGAISGRSRWSNLEKVTSVNLSKACQKPEELDSSMEALTLTL
 TEVVKRQNPKSKKGFNQISTSYIKVDKQIIGSSSCPFAVCLDQDERKILQSVVRCEVSPCYKPEKSSLP
 PERSFSQPAETGSDLCSLLCLPIMTFSGALP

TRTRPLE - GFP Tag - V

Restriction Sites:

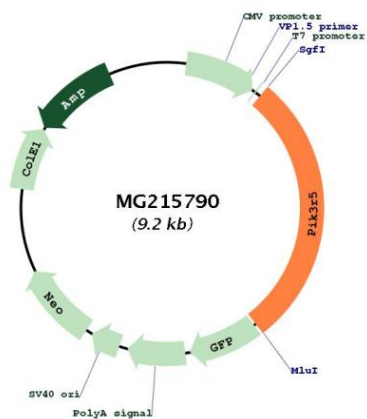
SgfI-MluI

Cloning Scheme:



ACCN:	NM_177320
ORF Size:	2613 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_177320.2 , NP_796294.2
RefSeq Size:	4363 bp
RefSeq ORF:	2616 bp
Locus ID:	320207
UniProt ID:	Q5SW28
Cytogenetics:	11 B3
Gene Summary:	Regulatory subunit of the PI3K gamma complex. Required for recruitment of the catalytic subunit to the plasma membrane via interaction with beta-gamma G protein dimers. Required for G protein-mediated activation of PIK3CG (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215790