

Product datasheet for **MG221902**

PIk5 (NM_183152) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIk5 (NM_183152) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIk5
Synonyms:	6330514A18Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221902 representing NM_183152
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCCCGGTCCCGGCGCGCGGAGCCGCCAGCTTGTGGCCACCTTCTGCGCGACCCAGGCTCGG
 GGCGCGTGTACCGGCGCGGAAGCTGATCGGCAAGGGAGCCTTACGCCGCTGCTACAAGCTCACGGACAT
 GTCACACAGCGTGTGTTGCTCTTAAGGTGGTCCAAAGGGGCGAGCGGGGCGGCTGCGCCTGCGCGGG
 AAGGTGGAGCGTGAGATCGCCCTGCACAGCCGCTGCGCCACCGCAACATCGTGGCCTTCCACGCACACT
 TTGCTGACCGGATCACGTGTACATGGTGTGAGTATTGTAGCCGCCAGGTCCCTCTACAGTCTTGGC
 TCATGTGCTGAAAGTGGCGGACTCTGACAGAGCCTGAAGTGCCTATTACCTTCGGGGCTGGTCAGC
 GGCTGCGCTACTGCACCAACAACGCATCGTGCACAGGGACCTGAAACCCAGTAATTTCTTCTTAACA
 AGAACATGGAGGTTAAGATAGGTGACCTGGGGTGGCTGCCCGTGTGGGGCTGTGGTGTGCTGCCACAG
 GGTGCTTGGCGGACTCCAACTTCCAGGCACCTGAAGTGGTGTCCCGAAATGGACTACTGTGCAATCT
 GACATCTGGGCTCTGGGATGCATCATGTACACGGTGTGACAGGCACGCCACCCTTTCGCCGCGCACCT
 TGTGAGAGATGTACAAAACATCCGTGACGGCCACTACCTCGAGCCTACTCACCTGTGCGCCAGCGCCC
 CAGCCTCATTGCACGGCTCCTGGCACCGGACCCCGCCGAGCGGCCAGCCTGGACCACTTACTGCAAGAT
 GACTTCTTCAGTCAGGGCTTACCCCGGAGCGGCTGCCTCCACATTCCTGCCACAGCCCACCTGTGTTTG
 CCTTCCCCACCTCTGGGCAGGTTGTTCCGGAAGGTGGCCAGCTCCTGCTGACCCAGTGGCGGCCACC
 TTGTCCCTTACCTCAAAGAGGCTCAGGCCCTGGAGAAGAGGGCACAGAACCAGACCACATGGAAGCC
 GGCAACGAGGAAAGGGATCCTCTCTGCACCGAGGGCCGAATCCACCTCCTCACCTTGGGACCCCGCGGA
 CTGGCTGGCGGGCCAAAAGGGAGCTTGGCTCTGCAGCTGGAAGTGGCAACCAGAAAACCTGTTCCCTCTG
 CTTGGACGAGGACCTATGGCTGGACAGGACCCCGAGGGGAGCAGCGGCTGTTCTCTGGGCTCCTAAG
 TGGGTGGATTACTCCCTCAAGTATGGCTTCGGCTACCAGCTGTGCGATGGGGCAGTGGGGTGTGTTTC
 GGGATGGCTCCACATGGCCCTGCGCCCCAAGGCGGCCATGTCTCCTACCAACCTGACCAAGGACTCT
 CTGGACCTTACCCTGAGGGACGTCCCCAGCCACTTCGTGCCAAGCTGGCTGTCTGCGGCTCTTTGCC
 TGCTATATGCAGCGCGTCTGCGGGAGGAGGGACTGTGCCATGCCTGCCACACCTGCCTCTCTGACA
 TCTCTGCTGAGCTTATTGCTGACTCCAGGCTATGGTCATGTGTTAGCAATGGGACAGTGCAGGT
 CAGCCTCAAACCTCCAAACCCAGCTGGTGTAAAGTGGGAGGACGAGGACCTCCTGCTCACCTCCAG
 GAGCCAGGGGACCCGCTGTGGCGTCTCTACACTCGATGTCTGCGGAGCCATGGCTTACCCTTG
 CAGTCCACCATCACTGCGCCATGGCCTGCATCTGCTACAGAGTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221902 representing NM_183152
 Red=Cloning site Green=Tags(s)

MEPRSRRRSRQLVATFLRDPGSGRVYRRGKLIKGAFSRYKLTDMSTSAVFALKVVPGRGAGRLRLRG
 KVEREIALHSRLRHRNIVAFHAHFADRDHVMVLEYCSRQVPLQSLAHVLKVRRTLTEPEVRYLRLGLVS
 GLRYLHQQRIVHRDLKPSNFFLNKNMEVKIGDLGLAARVGPAGRCHRVLGTPNFQAPEVVS RNGHSCKS
 DIWALGCIMYTVLTGTPPFAAAPLSEMYQNI RDGHYLEPHTLSPSARSLIARLLAPDPAERPSLDHLLQD
 DFFSQGF TPERLPPHSCHSPPVFAFPPLGRLFRKVGQLLLTQCRPPCPFTSKEASGPGEETEPDHMEA
 GNEERDPLCTEGRIHLLTLGTPRTGLAGPKGSLALQLEVATRKLFLCLDAGPMAGQDPPGEQRPVLWAPK
 WVDYSLKYGFYQLSDGSGVLFRDGSHMALRPQGGHVSYPDQGTLWTFTLRDVPSPLRAKLAVLRLFA
 CYMQRRLREEGTVPMPATPASPDISLLSFIADSQAMVMLFSNGTVQVSLKTSQTQLVLSGEDEDLTLQ
 EPGGPAVGVSYTLDVLRSHGFTLAVHHHLRHGLHLLQSV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_183152

ORF Size: 1797 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_183152.4](#)

RefSeq Size: 2112 bp

RefSeq ORF: 1800 bp

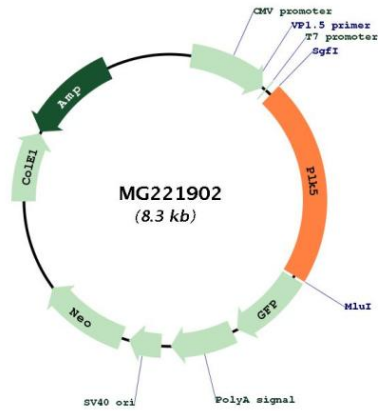
Locus ID: 216166

UniProt ID: [Q4FZD7](#)

Cytogenetics: 10 C1

Gene Summary: Inactive serine/threonine-protein kinase that plays a role in cell cycle progression and neuronal differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG221902