

## Product datasheet for **RR216977**

### PIk5 (NM\_001170557) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIk5 (NM_001170557) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIk5
Synonyms:	PIk5p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR216977 representing NM\_001170557  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCCCCGGTTGAGGCGCGCGGAAGCCGCCAGCTAGTGCCACCTTCTGCGTGACCCGGGCTCAG  
 GCGCGTGTACCGCGCGGGAAGCTGATCGGCAAGGGCGCCTTCAGCCGCTGCTACAAGCTCACGGACAT  
 GTCACACAGCGCGGTGTTTGTCTTAAGGTGGTCCGAGGGGCGAGCGGGGCGGCTGCGCCTGCGCGGG  
 AAGGTGGAGCGTGAGATCGCCCTGCACAGCCGCTGCACCACCGCAACATCGTGCCCTTCCACGCACACT  
 TTGCTGACCGCGACCACGTGTATATGGTCTGGAGTACTGTAGCCGCCAGTCTTGGCTCATGTACTGAA  
 AGTGCGGCGGACCCTGACGGAGCCTGAAGTGGCTACTACTTTGCGGGCCTGGTCACTGGCCTCCGCTAC  
 CTGCACCAACAACGCATCGTGACAGGGACCTGAAACCCAGTAATTTCTCTTAAACAAGAACATGGAAG  
 TTAAGATAGGTGACCTGGGGCTGGCTGCCCGTGTGGGGCCGCTGGCCGCTGCCACAGGGTCTCTGTGG  
 GACTCCGAACCTCCAGGCTCCTGAAGTGGTGTCCCGAAATGGACTACTCGCCAAGTCTGACATCTGGGCC  
 CTGGGGTGCAATTATGTACACGGTCTGACGGGCACGCCCCCTTCGCTGCCGCACCCCTGTCCGAGATGT  
 ACCAAAACATCCGAGACGGTCACTACCTTGAGCCCACTCAGCTGTCAACAGCGCCCGTAGCCTCATTGC  
 ACGACTTCTGGCACCGGACCCTGATGAGCGGCCAGCCTGGACCACTTACTGCAAGATGACTTTTTTAGT  
 CAGGGCTTACCCAGAGCGGCTGCCTCCACATTCCTGCCACAGCCACCCGTTTGCCTTCCCCCGC  
 CACTGGGCAGGTTGTTCCGGAAGTGGGCAACTCCTGCTGACCCAGTGCCGGCCGCCCTGTCCCTTAC  
 CTCAAAGAGGCCCTCAGGCCCGGAGAAGAGAGTACAGAACCTGACCACATGGAGGCCAGCAACGAGGCA  
 AGGGCTCCTCTCTGCAGTGAAGCCGAATCCACCTCCTCACTCTTGAACCCCTCGGACTGACCCGGCCG  
 ATGCGAAGGGACCTTGGCCCTGCAGCTGGAGGTGGCAACCAGAAAACCTGTGCCTCTGCTGGATGCAGG  
 ACCTGTGGCTGGACAGGACCCCGGGGAGCAGCGCTCTGTCTCTGGGCTCCCAAGTGGGTGGATTAT  
 TCCTCAAGTATGGCTTCGGTTACCAGCTGTGGATGGGGCAGTGGCGTGTCTTTCGGGATGGCTCCC  
 ACATGGCCCTGCGCCCCCAGGAGGCCATGTCTCTACCAACCTGACCAAGGGACTCTGTGGATCTTCGC  
 CCTGAGGGACGTCCCGGCCACTCCCGCCAAGCTGGCCGCTCTGAGGCTCTTTCCTGCTACATGCAG  
 CGGCGTCTGCGGGAGGAGGGGACAGCACCCATGACGGCCACCCGCTCTCCTGACTTCTGTCTGTGA  
 GCTTACCCTGATGCCAAGCTCTGGCCATGCTCTTAGCAATGGGACAGTGCAGGTGAGTCCAAAAC  
 CTCCCAGTCCAGCTGGTGTGAGTGGGAAGGGGAGGACTTTCTGCTCACCATCCAGGACCCAGGGGGA  
 CCCAGCATGGGCACCTCCTACACGCTGGACGCTCTGCGGAGTACGGCATCAGCCTTGGGTCGCCACC  
 ACCTGCGCCTTGACTGCATCTGCTTCAAGTGTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216977 representing NM\_001170557  
 Red=Cloning site Green=Tags(s)

MEPRLRRRRSRQLVATFLRDPGSGRVYRRGKLIKGAFSRYKLTDMSTSAVFAKVVPRGGAGRLRLRG  
 KVEREIALHSRLHHRNIVAFHAHFADRDHVMVLEYCSRQSLAHVLKVRRTLTEPEVRYFRGLVSLGRY  
 LHQQRIVHRDLKPSNFFLNKNMEVKIGDLGLAARVGPAGRCHRVLCGTPNFQAPEVVSRRNGHSAKSDIWA  
 LGCIMYTVLTGTPPFAAAPLSEMYQNIRDGHYLEPTQLSPSARSLIARLLAPDPDERPSLDHLLQDDFFS  
 QGFTPERLPPHSCHSPPVFAFPPLGRLFRKVGQLLLTQCRPPCPFTSKEASGPGEESTEPDHMEASNEA  
 RAPLCTESRIHLLTLGTPRTDPADAKGTLALQLEVATRKLCLLDAGPVAGQDPPGEQRSVLWAPKWVDY  
 SLKYGFYQLSDGGSGVLFRDGSHMALRPPGGHVSYPDQGLWIFALRDVPGPLRAKLAVLRLRFACYMQ  
 RRLREEGTAPMTATPASPDFCLLSFTADAQALAMLFNGTVQVSSKTSVPVQLVLSGEGEDFLLTIQEPGG  
 PSMGTSYTLDVLRSHGISLAVRHHLRLGLHLLQSV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001170557

**ORF Size:** 1785 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\\_001170557.1](#), [NP\\_001164028.1](#)
**RefSeq Size:** 2094 bp

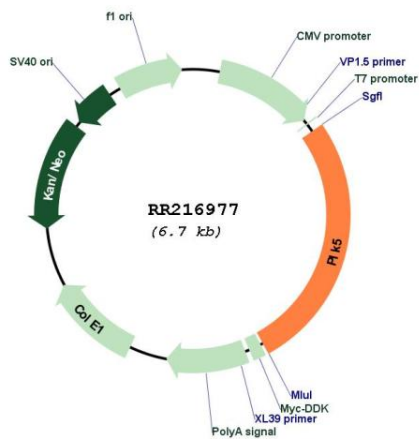
**RefSeq ORF:** 1788 bp

**Locus ID:** 314627

**Cytogenetics:** 7q11

MW: 65.9 kDa

Product images:



Circular map for RR216977