

Product datasheet for **RR216766**

Pi16 (NM_001170481) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pi16 (NM_001170481) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pi16
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR216766 representing NM_001170481
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCACAGCTCCTGCAGCCCGTGGGTGATGCTGCCCCAGCTGCCACTGCTGCTCCTGTTGCTTCTGCTGC
 TGCTGACTGCCACTGGCCCCGCCACAGCCCTCACAGAGGACGAGAAGCAAACCATGGTGGAGCTTACAA
 CCACTACCGCGCCAGGTGTCCCGCCAGCCTCAGACATGCTGCAGATGAGGTGGGACGACGAGCTGGCC
 GCCTTCGCCAAGGCCTACGCTCAGAAGTGCCTGTGGGACACAACAAGGAGCGGGCGCGCGGAGAGA
 ACCTGTTTGCCATCACGGACGAGGGCATGGATGTACCGCTGGCCGTGGGAACTGGCAGGAGGAGCATGA
 ATATTACAATCTCAGCACAGCCACTGTGATCCGGCCAGATGTGCGGCCACTACACTCAGGTAGTGTGG
 AGCAAACTGAGAGAATCGGCTGTGGTCCCCTTCTGCGAGACGCTCCAGGGAGTGGAGGAAGCTAACA
 TCCATTTGCTGGTGTGCAACTATGAGCCCCGGGGAACGTGAAGGGCCGGAAGCCCTACCAGGAGGGGAC
 GCCTTGCTCCCAGTGCCTCTTGGCTACAGCTGCGTGAACCTCTCTGTGAGCCGGAGAGAAAACCGGAA
 AAAGCGCAGGATTCGCCTCCAAGGGTGAAGTCCCAGGCTCCAGGAAACCGGTATCCATCCCTAG
 CAACCTCTGAATCTTACATTTCTCCTCGTAACAAGGTCTCGGACTCCCTGGCAACCGAGCCCTCACC
 TGCGGTAGAAACAAGGCCACCTTCTTAGCAACCGAAGGCCCTCCTCCATGGCAACAGAGGCTCAG
 TCTTTTCTAACTGAGGTCCCCTCGGTTTCTGCAACGCACATCCAGCCTTCACTGGATGAAGGGCCAGTTA
 ACTTCTCACATCAACACACATCCCTGTCCCCAAATCTACGGACAAGAAGCCAGCAGCAAGTCCGAGAGC
 AGCCTCCGTGAGCCAGAGAAATCTCTGTACCCCAAGATGTCCCCGACAGAGACAGGAGAGTCCCCACCC
 CAAATCCAGGAGGAGGCTGAGCCCAAGGCCGAGTTGCCGAGCGGAGGACGAGTTGCCCGAGGCGAGG
 TCGAATTGCCGTGAGGCAGAGGCCGAGTTGCCAGAGGCCAAGGCCGAGTTGCCTGTTCCAGTGAAGCTTT
 GGTCCCAGTTCTCCAGCTCAGGAGCGCGGTGGGCCGAAGGCCTCACTGGAACACTCCAGCTACCCTGTC
 CCCACATATCTGCCCAACTTCCCTAGTGCTCGGGCAATGCCACAGGTGGGCGCACCCCTGCCCTACAAT
 CATCCCGGACAGGTGCAGAGGACCCTGAAAAGGCCAGCTGGGATTGGAAGAACTCTGCTCCTGTGTGGG
 CCCTTCCCGGACTGCTGCTGCCTCTCCTGCTGTTGGCTGGCATATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216766 representing NM_001170481
 Red=Cloning site Green=Tags(s)

MHSSCSPWMLPQLPLLLLLLLLLLTTATGPATALTEDEKQTMVELHNNHYRAQVSPASDMLQMRWDELA
 AFAKAYAQKCVWGHNKERRRGENLFAITDEGMDVPLAVGNWHEEHEYNYLSTATCDPGQMCGHYTVVW
 SKTERIGCGSHFCETLQGVEEANIHLVCNYEPPGNVGRKPYQEGTPCSQCPLGYSCVNSLCEPERKPE
 KAQDSPPRVTEVPGSRETGIPSLATSESLHFSVTKVSDSLATEPSPAVETKAPPSLATEGPPSSMATEAQ
 SFLTEVPSVSATHIQPSLDEGPVNFLTSTHIPPVKSTDKEASSKSRAASVSPEKSLYPKMSPTETGESPP
 QIQEEAEPKAELPEREDELPEAEVELPEAEALPEAKAELPVSSEALVPVLPVLAQERGGPKASLEHSSYPV
 PTYLPNFPASGNATGGRTLALQSSRTGAEDPEKASWDSKNSAPVWGFPGLLLLLLLLLAGIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

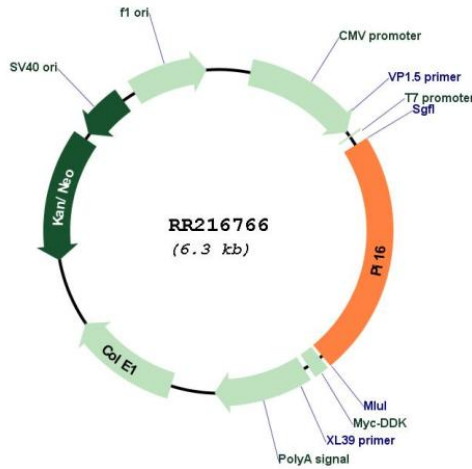
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001170481

ORF Size: 1449 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_001170481.1](#), [NP_001163952.1](#)

RefSeq Size: 1900 bp

RefSeq ORF: 1452 bp

Locus ID: 294312

Cytogenetics: 20p12

MW: 52.1 kDa