

Product datasheet for **MG219996**

Pi16 (NM_023734) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pi16 (NM_023734) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pi16
Synonyms:	1200009H11Rik; Cripi; PI-16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219996 representing NM_023734
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACGGTTCCTGCAGCCCGTGGGTGATGTTGCCCGCCACTGCTCCTCTGCTGCTGCTGATTGCCA
 CTGCCCCCACCACAGCCCTCACAGAGGACGAGAAGCAAATATGGTGGATCTTACAACCACTACCGTGC
 CCAGGTGTCCCCGCCAGCCTCAGATATGCTGCAGATGAGGTGGGATGACGAGCTGGCCGCTTCGCCAAG
 GCCTACGCTCAGAAGTGCCTGTGGGGCCACAACAAGAACCGGGCGGCGGAGAGAATTGTTTGCCA
 TCACGGACGAGGGCATGGACGTGCCGTGGCCGTGGGAACTGGCAGGAGGAGCATGAGTATTACAATTT
 CAGCACGGCCACCTGCGATCCGAACCAGATGTGCGGCCACTACACTCAGGTAGTGTGGAGCAAGACTGAG
 AGAATTGGCTGTGGCTCCACTTCTGCGAGACGCTCCAGGGAGTGAAGAAGCTAACATCCATTTGCTGG
 TGTGCAACTATGAGCCTCCGGGAACTGAAGGGCCGTAAGCCCTACCAGGAGGGGACTCCTTGCTCCCA
 GTGCCCTCTTGGCTACAGCTGTGAGAATCTCTGTGAGCCCATGAGAAAACCCGAAAAGCGCCAGGAT
 TCGCCTCCAAGGGTGACCGAGGTCCCTCCACCCGCGCAACTGAAGCCCCAAGCTCCAGGAAACCGGTA
 CTCCATCCCTAGCAACCTCTGAGACTCTACATTTCTCGGTAACAAAGGTCTCGGACTCCCTGGCAACCGA
 GTCCTCACCTGCAGTAGAAAACAAGGCACCATCTTCTTAGCAACCGAAGGCCCTCCTCCATGGCAACA
 GAGGCTCAGGCTTTTGTAACTGAGGTCCCTTGGTTTCTGCAAGGCACATGCAGCCCTCGGTGGATGAAG
 GGCCAGTTAACTCCTCACATCAACACATATCCCTGTCCCAAATCTATGGACGAAGAAGCCAGCAAGTC
 GAGCGCAACCTCCGTGAGCCAAAGAAATCGCTGTACCCCAAGATGTCCCTGACAGAGTCAGGAGAGTCC
 GTACCCCAAATCCAGGAGGAGGCTGAACCAAGGACGAGTTGTCTGAGCCGAGGCCATATTGCCCGAGG
 CAGAGCCCGCACCAGACTGAGGCAGAGGTGAGTTGCGGGAGCCGAGGCTGAGTCTCCAAGGCCGAGTC
 GCCAGAGGCAGAGGCTGAGTCGCCTCTTTCCAGTGAGGCTTTGGTCCAGTTCTTCCAGCCAGGAGCGT
 GGTGGGCAGAAGGCCTCACTGGAACACTCTGGCCACCCTGCCTCCCCATCCCTGCCACCTTCCCTAGTG
 CTTGCGGTAATGCCACAGGTGGGCGCACCTGGCCCTACAATCATCCTGGACAGGTGCTGAGAACCCCGA
 AAAGGCCGACTGGGATTTGAAGAATTCTGCTCACGTGTGGGGACCTTCTGGGACTGCTGCTGCCTTCC
 CTGCTGCTGTTGGCTGGCATGGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG219996 representing NM_023734
 Red=Cloning site Green=Tags(s)

MHGSCSPWVMLPPPLLLLLLIATGPTTALTEDEKQTMVDLHNQYRAQVSPASDMLQMRWDELAAFAK
 AYAQKCVWGHNKERRRGENLFAITDEGMDVPLAVGNWHEEHEYNFSTATCDPNQMCGHYTVVWSKTE
 RIGCGSHFCETLQGVVEANIHLVLCNYEPPGNVGRKPYQEGTPCSQCPLGYSCENSLCEPMRNPEKAQD
 SPPRVTEVPSTRATEAPSSRETGTPSLATSETLHF SVTKVSDSLATESSPAVETKAPSSLATEGPSSMAT
 EAQAFVTEVPLVSARHMQPSVDEGPNVFLTSTHIPPVKSMDEEASKSSATSVSPKKSPLYPKMSL TESGES
 VPQIQEEAEPKDELSEPEAILPEAAAPTEAEVELREPEAESPKAESPEAEASPLSSEALVPVLP AQER
 GGQKASLEHSGHPASPSLPTFPSASGNATGGRTLALQSSWTGAENPEKADWDLKNSAHVWGPFLLGLLPS
 LLLLAGMV

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2242_g05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_023734

ORF Size: 1494 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

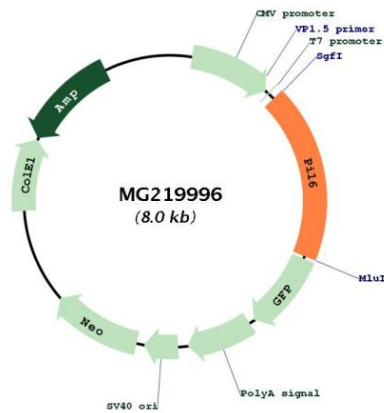
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_023734.3](#), [NP_076223.3](#)
 RefSeq Size: 2245 bp
 RefSeq ORF: 1497 bp
 Locus ID: 74116
 UniProt ID: [Q9ET66](#)
 Cytogenetics: 17 A3.3
 Gene Summary: May inhibit cardiomyocyte growth.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG219996