

Product datasheet for **MR223670**

Pigu (NM_001004721) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pigu (NM_001004721) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pigu
Synonyms:	5430426F17Rik; BC028278; Cdc9111
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223670 representing NM_001004721
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGCTCCCTTGGCCCTGGTCTTGTGGTGGCCGTGACCGTGAGGGCGCCCTGTTTCGCTCCAGTT
 TGGCCGAGTTCATTTCCGAGAGGGTGGAGGTGGTGTCCCACTGAGCTCTTGGAAGAGAGTGGTTGAAGG
 CCTTGCACTGTTGGATCTGGGAGTGTCTCCATATTCTGGAGCAGTATTTACGAAACTCCATTAATAATA
 TACCTCTTTCAATTCCTAATTGACTATGCAGAATTGGATTTATGATAACAGATGCCCTCACTGCTATTG
 CCCTGATTTTGAATTCAGGACTTCAATAAAGTTGTGTTTAAAAAGCAGAAGCTTCTCCTAGAGCTGGA
 CCAGTATGCTCCAGATGTGGCTGAACATCCGAACCCCATGGAATGCGCTACATCCCTCTGAAAGTG
 GCCCTGTCTATCTCTAAATCCCTACACGATCTGTCTGTGTTGCCAAGTCTACCTGCGCCATCAACA
 ACACCTCATTGCTTTCTTCAATTTGACCACAATAAAAGGCAGCGTTTTCTCAGTGCTGTTTTTCTTGC
 CTTAGCAACATACCAGTCTCTGTACCCAGTCACCTGTTTGGCCAGGACTTCTCTATCTCTCCAGCGG
 CAGTACATCCCTGTTAAAGTGAAGAGCAAAGCCTTCTGGATCTTCTCGTGGGAGTACGCCATGATGTACA
 CAGGAAGCCTGGTGGTATAGTTTGCCCTCTTTCTTCTCTCAGCTCCTGGGACTTATCCCTGCAGT
 CTATGGTTTCATACTCTCTGTTCCAGATCTCACTCCAAACATTGGTCTTTTCTGGTACTTCTTTCAGAG
 ATGTTTGAAGCACTTACGCTCTTTTGTCTGCGTGTTCAGATCAACGCTTCTTCTACACAGTCCAT
 TAGCCATCAAATTAAGGAGCATCCCATCTTCTCATGTTCAATCAGATTGCCATCATCTCTATCTTCAA
 GTCCTATCCAAGTGTGGGGATGTGGCCCTCTACATGGCTTTCTCCCTGTGTGGAACCATCTACAGA
 TTCTGCGGAACATCTTCTGCTCACCTGCATCATCATGCTGCTCTCTCTCTCCCTGTCTGTGGC
 ACCTATGGATTTATGCAGGAAGTGCCAACTCTAATTTCTTTTATGCCATCACACTGACCTCAATGTTGG
 GCAGATCTGCTCATCTGACTACTTCTATGCCTTCTGCGGGGAGTATTACCTCACACACGGCCCTC
 TACTTGACTGCCAAGGACGGCACTGAGGCCATGCTTGTGCTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223670 representing NM_001004721
 Red=Cloning site Green=Tags(s)

MAAPLALVAVTVRAALFRSSLAEFISERVEVVSPLSSWKRVEGLALLDLGVSPYSGAVFHETPLII
 YLFHFLIDYAELVFMITDALTAIALYFAIQDFNKVVFKKQKLLLELDQYAPDVAELIRTPMEMRYIPLKV
 ALFYLLNPYIILSCVAKSTCAINNTLIAFFILTTIKGSVFLSAVFLALATYQSLYPVTLFAPGLLYLLQR
 QYIPVKVKSFAWIFSWEYAMMYTGSLLVIVCLSFLLSSWDFIPAVYGFILSVPDLTPNIGLFWYFFAE
 MFEHFLFFVCFQINVFYTVPLAIKLKEHPIFFMFIQIAIISIFKSYPTVGDVALYMAFFPVWNHLYR
 FLRNIFVLTCTIIVCSLLFPVLWHLWIYAGSANSNFFYAITLTFNVGQILLISDYFYAFLRREYLLTHGL
 YLTAKDGTEAMLVLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9017_g09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001004721

ORF Size: 1305 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_001004721.1](#), [NP_001004721.1](#)

RefSeq Size: 1621 bp

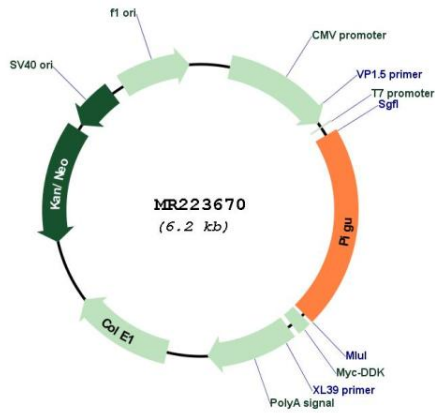
RefSeq ORF: 1308 bp

Locus ID: 228812

Cytogenetics: 2 H1

MW: 50.4 kDa

Product images:



Circular map for MR223670