

## Product datasheet for **MR210838**

### **Pign (BC021148) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pign (BC021148) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pign
Synonyms:	Gm20308; PIG-N
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR210838 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGCTGTTTTTGGCTTTGGGATTGCTTATCCATTTTGTGTTCTTCGCTTCCATCTTTGACATTTATT  
 TTACATCTCCTTTGGTTCATGGAATGACTCCCCAGTTTACACCTTTGCCTCCTCCAGCAAAAAGATTAGT  
 GCTATTTGTTGCTGATGGCCTGAGAGCAGATACTTTATGAATTAGATGAAGATGGAACTCCAGAGCA  
 CCTTTCATTAGGAATGTTATAATTCATGAAGGCAGCTGGGGAGTATCTCACACACGTGTGCCAACAGAAT  
 CTCGGCCTGGCCATGTAGCCTTGATAGCTGGATTTTATGAGGATGTCAGTGCAGTTGCCAAAGGATGGAA  
 AGAAAATCCTGTAGAATTTGACTCTCTTTTAAATGAAAGCAAGTACACGTGGAGCTGGGGGAGTCCAGAT  
 ATCTTGCCCATGTTTGCCAAAGGTGCTAGTGGTGACCATGTCTATACATATAGTTACGATGCTCAAAGAG  
 AAGATTTTGGTGGCCACGATGCCACAAAAGTGGATACGTGGGTTTTTGTAAAAGTAAAGGACTTCTTTGA  
 TGCTGCAAGAAACAACCAATCTTTGTTCAAAAAGTAAATGAAGAAAAAGTAGTTTTTTTCTTACATTTA  
 TTGGGAATAGATACAAATGGACATGCTCATCGACCATCGTCAAGGGAATAAAGGACAATATTA AAAAG  
 TTGATGATGGAGTGAAGGAAATCGTATCAATTTTCAAGCATTTTTATGGAGATGATGGGAAAACAGCATT  
 TATCTTTACCTCTGACCATGGAATGACAGACTGGGGTTCCCATGGGGCTGGTCAATCCGTCAGAGACTTTA  
 ACTCCGTTTCGTTACTTGGGGAGCTGGAATCAAATTTTCTCAAATGTATCAGCTCAGCAATATGATGATG  
 AGTTTTTAAAAGAATGGAGATGGAAAAGTGGAAAAGGAGAGATGCAATCAGGCTGATATTGCACCTCT  
 GATGGCATCCCTTATTGGAGTCCCCTTCTCTTAATTCGGTGGGAATACTTCTGTGGGTTATCTTAAC  
 AACACTGGTCTCTTCAAAGCAGAGAGCATGTTTACCAATGCAGTACAGATTCTTGAACAGTTCAAGGTGA  
 AAATGACTCAGAAAAAAGAAAGCTACTTTACCGTTTTTGTTTACACCATTTAAGTTGCTTTCTGATTCTCA  
 ACAACTGGACATTTTAAAGAAAAGCAAGATCTTACATAAAAACAAGAAAAATTTGATGAAGTAGTGTCCCTC  
 TGTGAGGAGCTGATTGACCTCGCCCTGAGAGGATTGTCCTATTATCATACTTATGACAGACTGTTTCTGG  
 GCATCAATGTTGCAGTTGGTTTTGTGGGATGGATGCTTATACTTCTTTGTTAATCATCAAGTCGCATTC  
 TAATATCCCAAAGGCACTAGGAAGGAAGTAAGAAGCCACACTGTCTCCTGCTTTATAGCTTCATAGCT  
 ACTGGTGTCTTAGTAGCATGCTTCTGATGATCCAAGCCTGTCCCTGGACTTACTATGTGTACTGCTTGC  
 TGCCAGTGCTATATGGTATGCAGTCTAAGAGAACATGAAGTATTCAAGACCTGGTTGAATCACTATT  
 GACTTTTCTCGGAGCCATTTTGTGCCTACTTGTCTTTACCTTGGGTATTGAAGTACTGGTGCTC  
 AGTTTTCTTACCGCTACATGTTGACAGCGGGACTGATTGTGTTGCAGGCTGGCCGTTTCTCACTCAGC  
 TGTGGACCCGAGCAAAGATCACCTTCTGAGTTGGGCTTTCTTCTTTGCTTCTGGCAGTGTCCCACT  
 GATGCCTGTTGTGGGTAGAAAGCCAAACCTTTCTAGTAAATGGGTGCTGGATTCCCTGGTCTTCTGCTG  
 TCGCTGGCTGTTGTAACAACTCTCGAAAAAGAAACATTAATTTGGTAAAGGGCGAGCTGTTGGTACTTC  
 TGTTACAGATGCTGAGTACAGTGTCTCTATGTATGTGGTGTATAGCACCCACCAGTCTGTTAAAGAA  
 AGAAGGCTGCCTCTTATGAATCAGATTGTGAGCTGGGCAACATTAGCCTCTTCTCTGGTGGCACCCTC  
 CTGAGCTCCACAGCTCTCTCAGCGACTGGCCAGCATACTCCTCCTTGTATGTCACCTACCTGCTCC  
 TAAGCACTGGGTATGAAGCTCTCTTTCTTTAGTGCTGTCTGTTGATGTTGTCTGGATCCAAGTGGAA  
 ACAAGAGACCCCTCAACAGCCTGGTGTCTTTGTAACAGAAGCTCACCAGCATCCAGTCCACCTGTGAC  
 ACTGATATAGCTCAGTTCGACAGCTCTGTCGGATGACATCCGTAGGGCCTTTTTCTCATATTGTTGA  
 TCTTTCTGTATTCTTAAGACTATTCGACTACAAAAGAATAAGGATTCTGTTAGCCCAAGAAAATTATCA  
 TAGGTCATTAAGGCTGCCTGGGAGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

&gt;MR210838 protein sequence

Red=Cloning site Green=Tags(s)

MLLFFALGLLIHFVFFASIFDIYFTSPLVHGMPQFTPLPPPAKRLVLFVADGLRADTLYELDEDGNSRA  
PFIRNVIIEGSGVSHTRVPTESRPGHVALIAGFYEDVSAVAKGWKENPVEFDSL FNESKYTWSWGSPD  
ILPMFAKGASGDHYYTYSYDAQREDFGAHDATKLDTWVFDKVKDFDAARNNQSLFTKVNEEKVFFLHL  
LGIDTNGHAHRPSSREYKDNIKKVDGKVEIVSIFKHFYGGDGKTAFFITSDHGMDWGSHGAGHPSETL  
TPFVTWGAGIKFPQNVSAQQYDDEFLKEWRELENWKRDRVNQADIAPLMASLIGVPFPLNSVGILPVGYN  
NTGLFKAESMFTNAVQILEQFKVKMTQKKEATLPFLFTPFKLLSDSQQLDILRKARSYIKQEKFDEVVSL  
CEELIDLALRGLSYYHTYDRLFLGINVAVGVGMSYTSLLIIKSHSNIPKGRKEGKPKHCLLLYSFIA  
TGVLVACFLMIQACPWTYYVYCLLPVPIWYAVLREHEVIQDLVESLLTFPRSHFVAYLLVFTLGIEVLV  
SFFYRYMLTAGLIVFAGWPFLTQLWTRAKITFLSWAFFSLLLAVFPLMPVVGRKPNLSLVMGAGFLVLL  
SLAVVTTLGKRNKLVKGELLVLLQMLSTVL SMYVVYSTHHSLLKKEGLPLMNQIVSWATLASSLVAPL  
LSSTALSQRLASILLSLMSTYLLSTGYEALFPLVLSCLMFVWIQVEQETLQQPGVSCQKLTSIQFTCD  
TDIAQFRQLCPDDIRRAFFLILLIFPVFLRLFDYKRIRILLAQENYHRSLKAAWEL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

## Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: BC021148

ORF Size: 2478 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:** [BC021148](#), [AAH21148](#)

**RefSeq Size:** 4038 bp

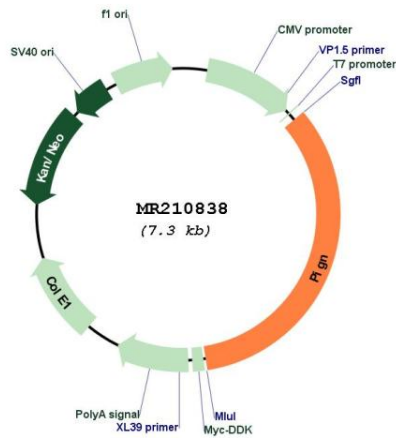
**RefSeq ORF:** 2480 bp

**Locus ID:** 27392

**Cytogenetics:** 1 E2.1

**MW:** 93.8 kDa

**Product images:**



Circular map for MR210838