

## Product datasheet for **MR215815**

### Gk5 (NM\_177352) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gk5 (NM_177352) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gk5
Synonyms:	AV095337; C330018K18Rik; G630067D24Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR215815 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCAGGGCAGCAGGAGCGTGCAGAGCGGCAGCGAGAGAACTGAGCGCGTCGGCTCGCCGCCCTCCC  
 GCTTCGTGCTGGGCTGGACGTGGGCAGCACGGTGATCCGCTGCCACGTCTATGACCAGACGGCGGAGT  
 GCGAGGCTCCAGCGCGCAGAAGGTAGAAAATGTTTACCCTCAACCTGGCTGGGTTGAAATCGATCCTGAT  
 TCTCTCTGGGCTCAGTTTGTTCGCGTAATAAAAGATGCTGTCAAAGCTGCAGGGTGCAGATGAATCAAA  
 TTGTGGTCTTGGCATAACAACACAGAGAGCCACTTTCATTACATGGAACAAGAAAACAGGCCATCATT  
 TCACAACCTCATTAGCTGGCAAGACCTAAGGGCAGCTGAACTTGTAAAGTCTGGAATAATTCTCTCATA  
 ATGAAGCTATTGCATGGGGCCACCCGAGTCCTTCAATTTCTCAGTAGAAGTAAAGTAATGCTAACGGTCA  
 GCCGCTTCAATTTAGCAGCCAGCATGCCACCTAAGATTGACCTGGATTTTACAAAACCTATCTGAGGT  
 GAAAAGGGCAGTTGAAGAAGACAATTGTGCTTTGGGACGATTGATACCTGGCTGTTATACAAGCTCAG  
 AAAGGTTCTTCTACGCCACGGATTATTCAAATGCCAGCACCACTGGATTTTTGATCCCTATGCGATGC  
 GCTGGAGCAGGCTCATAACCACCATGGTCTCCATCCCCTGTCTATCCTGCCTCCTGTGAAGGATACCAG  
 CTATAATTTGGATCAGTGGATGAGAAGATATTTGGCGTGCTATACCAGTTGTTGCCTTGGTTGGTGAC  
 CAGCAGTCGGCCATGTTTGGAGAGTGTCTTCGAGACGGGAGATGTGAAGCTAACCATGGGAACCTGGAA  
 CATTTTGGATATCAATACTGGAAAAACCTTCAGCATGTTAATGGAGGCTTTTATCCACTAATTGGATG  
 GAAGATTGGGCAAGAAGTGTATGTTTAGCTGAAGGCAATGCAGGAGACACGGGCACCCGCAATATGTTG  
 GCTCAAAAATTAGATCTCTTACAGACGCTGCTGAGACTGAAAAAATGGCCCTGAGCCTGGAAGATTCTG  
 AAGGGTTTACTTTGTTCCGTCGTTTGTGGATTACAGGCTCCATAAATGACCCCTGTGCTGTGCCTC  
 TTTTATGGGTTTGAAGCACTCCACTAATAAATACCATCTTGTCCGAGCAATATTGGAGTCAATAGCTTTC  
 AGGAACAAACAGTTGTACGACATGCTGCAGAGAGAAATCCAGATTCCCGTCACGAACATCCGGGCAGATG  
 GAGGCGTGTGAACAACGCTTTCGTCATGCAGATGACTTCAGACCTGATAAATGAGAAGTAGACAGACC  
 TGCCCACTTCGACATGCTCTGTTGGGGCAGCCTCTCTGGCTGGCCTCGCTGTTGGATTTTGGCGGCAC  
 AAGGAAGAGCTCCAGAAGCTGAGGCAAAGCGAGATGGTTTTCAAGCCTCAGAAGAAGTGGCAGGAATACG  
 AGGCATTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR215815 protein sequence  
 Red=Cloning site Green=Tags(s)

MSGQERAERQREEL SASAPPSRFVLGLDVGSTVIRCHVYDQATARVRGSSAQKVENVYPQPGWVEIDPD  
 SLWAQFVAVIKDAVKAAGVQMNQIVGLGISTQRATFITWNKKTGHHFHNFISWQDLRAAELVKSWNNSLI  
 MKLLHGATRVLHFFSRSKVMLTVSRFNFSTQHATLRLTWILQNLSEVKRAVEEDNCCFGTIDTWLLYKLT  
 KGSSYATDYSNASTTGFFDPYAMRWSRLITTMVSIPLSILPPVKDTSYFNFGSVDEKIFGVPPIPVVALVGD  
 QQSAMFGECCFETGDVKLTMGTGFLDINTGKNLQHVNGGFYPLIGWKIGQELVCLAEGNAGDTGTAIMW  
 AQKLDLFTDAAETKMALSLLEDSEGVYFVPSFSGLQAPLNDPCACASFMGLKHSTNKYHLVRAILESIAF  
 RNKQLYDMLQREIQIPVTNIRADGGVCNNAFVMQMTSDL INEKIDRPAHFDMSCLAGASLAGLAVGFWD  
 KEELQKLRQSEMVFQPKQKQWQEYEA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_177352

**ORF Size:** 1551 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\\_177352.5](#)

**RefSeq Size:** 2746 bp

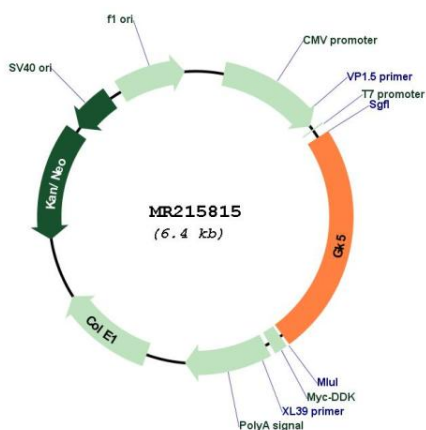
**RefSeq ORF:** 1551 bp

**Locus ID:** 235533

**UniProt ID:** [Q8BX05](#)

Cytogenetics: 9 E3.3  
 MW: 57.5 kDa

**Product images:**



Circular map for MR215815