

Product datasheet for **MC229364**

Gak (NM_001282052) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gak (NM_001282052) Mouse Untagged Clone
Tag: Tag Free
Symbol: Gak
Synonyms: D130045N16Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229364 representing NM_001282052
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGGAGGAAGAGATCACAAGGAACACCACACCCATGTACAGAACACCAGAAATTGTAGACCTGTATT
 CCAACTTCCCATTGGCGAAAAGCAGGATATCTGGGCACTGGGCTGTATCTTATACCTGCTGTGTTCCG
 GCAGCATCCTTTTGAGGATGGAGCAAACCTTCGGATAGTCAATGGGAAGTATTCCATTCTGTGAATGAC
 ACTCGTTACACAGTCTTCCATGACCTTATTCGTGCCATGCTAAAGGTCAACCCAGAGGAGAGGCTGTCCA
 TTGCTGAAGTGGTCCGACAACCTGCAGGAAATTGCAGCAGCTAGGAATGTGAACCCCAAAGCTCCCATCAC
 AGAGCTGCTGGAGCAGAAATGGTGGCTATGGGAACTCAGGGCCTTCCCAGCACAACCCACCTTGCAGGGGC
 ACCGTGAACAGCAGTGGAGTTTTGGCTCTGGCAGAGTATGACCAGCCCTACGGTGGGTTTCTTGATATTC
 TGCGGGGTGGGACCGAACGGCTTCCCAACCTCAAGGATACTCCTCCAAGGTCATCCAGTCTGTGGC
 TAACTATGCAAAGGGTATCTGGACATATCTTACATCACATCCAGGATTGCAGTGTGTCATTCCCAGCA
 GAAGGTGTGGAGTCTGCAATCAAAAACAATATAGAGGATGTGCGAATGTTTCTGGATGCTAAGCATCCAG
 GACATTATGCTGTCTACAACCTTCTCCAAGGATATACCGGGCTTCCAAGTTTCAACAACCGGGTCACTGA
 GTGTGGCTGGGACGTGACACGGGACCCACATCTCCACAGTTTGTATACTCTATGTAGGAGCATGCATGCC
 TGCTCCGGGAAGACCACAGGAACGTCTGTGTTGTGCATTGCATGGATGGGAGAGCTGCATCTGCTGTGG
 CAGTCTGTGCATTCTGTGCTTCTGCCGCTCTTTCAGCACTGCAGAGGCTGCTGTGTACATGTTCCAGCAT
 GAAGCGCTGCCACCAGGCATTTGGCCATCCCACAAAAGGTACATTGAATATGTATGTGACATGGTGGCA
 GAGGAGCCATCACGCCCATAGCAAGCCAATGCTGGTGAATCTGTTGTCATGACCCCCGTGCCACTGT
 TCAGCAAGCAGAGGAATGGCTGCCGACCGTTCTGTGAGGCTACGTTGGAGAGGAGCGTGTACCACCAC
 GTCGCAGGAATATGACAGAATGAAGGAATTTAAAATTGAGGATGGCAAGGCTGTATCCCCCTGGGCGTA
 ACAGTTCAAGGAGACGTGCTCATCATCATCTACCATGCCAGGGCCACACTGGGAGGGAGGCTGCAGGCTA
 AGATGGCGTCCATGAAAATGTTCCAGATCCAGTTCACACTGGGTTTCGTGCCTCGAAACGCAACCACTGT
 GAAATTTGCAAAAATGACCTGGATGCTTGTGATATTCAGAGAGAAGTACCAGATCTGTTCCAGGTGAAC
 CTGGAAGTGGAGGTAGAGCCTAGAGACAGGCCAGCCGAGAAGCTCCACCTTGGGAGAACCAGCCTAA



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GGGGGTTAAACCCCAAGATCCTCTTTTCCAACAGGGAAGAGCAGCAGGACATTCTGTCTAAGTTTGGGAA
GCCGGAGCTACCCCGGCAGCCGGGCTCCACAGCTCAGTATGATGCTGAGGCAGGGTCTCCGGAGGCTGAG
ATCACAGAGTCGGACTCACCGCAGAGCAGCAGTACGGACACCAACCCTTTCTTACACACTGGATTGGC
AGGAGGAAAAAGAACCAGAGACTGGGTTAGACAATACCTCTCCTAAGGAGAGTCAGTCTGTCCTGATTGC
AGACGGAGATGGAAGTGAAGTATCAGATGAAGAAGAGGCTTATTCCCCAGTGAGGAGAGGAAACCAGGA
GCTGGAGAAGATACACCAAGGCTGGCTGCTGGGACCAACAGCAAGACTTAATATTTGATGTGGGCATGC
TGGCTGCCCCACAGGAGCCTGTACAGCCGAAGAAGGTGTTGATCTCCTGGGGCTACACTCTGAGGGGGA
CTTAAGGCTGCTGCCCCCTTACAGGCTTGTGGGGTCCCATCTAGCAACACTGACCTGTTGAGCTGCCTT
CTTGAACCATCTGATGCTGCTCAAGTAGGGCTCCTGGTGACCTGCTTGGTGGTGAAGCTCCACTGCTGC
TAGCAAGCCAGTTTCTCCTCTTGGGCTGCAGAACAACCTACAAGGAAAAGTCCCTGACACTGTGGACCC
ATTTGACCAGTTCCTGCTGTCACTCAACTCAGACACCCAGCCCTGCTCCAAGCCTGATCTCTTTGGAGAG
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GTAGCACTGCCTCCTGCACCTAGGGGATCTGCCAGCAGAGCCCAGCAAGGTAATAGCTTCATCCAGCCA
CCCAGATCTGCTAGGAGGATGGGATACGTGGGCTGACACAGCTACACCTGGGCCAGCCTCCATTCCAGTA
CCAGAAGTACCCTCTTCTCTTCTGAGGTCAACCAGCCCTCCTGGCCCAACCCAGCCAAACCAAGT
CTCAGAACCTTGACCCATTTGCTGATCTCAGTATCTCAGCTCTAGCCTCAAGGCTGCCTGCTGGACT
TCTGTCAGGGGGCTTTGTTGGCGCACCAGCCCACTCAAAGAGCAACAGCCCTGGCAGGCAAAATCGT
CCCACAGCCCCTGGAACCTCATGGACCCCCAGGCCAAGCCAGCCCCAGAGCCTCTGAACAGCTAAGGT
CTCACTTCAGTGTGATCGGGGCCGAGAAGAGAGGGGCGTCCGTGTGCCAGCTTTGCCAAAAGCCAAA
GGTCTCAGAAAATGATTTTGAAGATCTTCTGCCTAATCAAGGCTTCTCTAAGTCTGACAAGAAGGGGCCA
AAGACCATGGCAGAGATGCGGAAACAGGAACCTTGCCAGAGATACAGACCCACTCAAATTTGAAGCTTTTGG
ACTGGATTGAAGCAAGGAGAGGAACATTCGTGCACTGCTGTCCACTCTGCACACGGTATTGTGGGATGG
GGAGACCCGCTGGACACCTGTGAGTATGGCTGACCTGGTGACTCCAGAGCAGGTGAAGAAGCAGTACCGC
CGTGCACTGCTGGTAGTGATCCTGATAAGGCCACAGGGCAGCCGTATGAACAGTATGCCAAGATGATCT
TCATGGAGCTGAATGATGCATGGTCTGAGTTTAAAACCAGGGCTCGAGGCCCTCTTCTGA

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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001282052
- Insert Size:** 3282 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001282052.1](#), [NP_001268981.1](#)

RefSeq Size: 4655 bp

RefSeq ORF: 3282 bp

Locus ID: 231580

UniProt ID: [Q99KY4](#)

Cytogenetics: 5 F

Gene Summary: Associates with cyclin G and CDK5. Seems to act as an auxilin homolog that is involved in the uncoating of clathrin-coated vesicles by Hsc70 in non-neuronal cells. Expression oscillates slightly during the cell cycle, peaking at G1 (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3) differs in its 5' UTR and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus, compared to isoform 1.