

Product datasheet for **MC229408**

Gak (NM_001282051) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gak (NM_001282051) 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: >MC229408 representing NM_001282051
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCACAGGCAGAAACCACCCATCATCCACAGAGATCTCAAGGTTGAAAACCTACTGCTTAGTAACCAGG
 GGACCATTAAGCTGTGTGACTTTGGCAGTGCCACAACCATCTCCCATTATCCTGACTACAGCTGGAGTGC
 CCAGAAGCGAGCCATGGTGGAGGAAGAGATCACAAGGAACACCACACCCATGTACAGAACCAGAAATT
 GTAGACCTGTATTCCAACCTCCCATTTGGCGAAAAGCAGGATATCTGGGCACTGGGCTGTATCTTATACC
 TGCTGTGTTTTCCGGCAGCATCCTTTTGAGGATGGAGCAAAAACCTTCGGATAGTCAATGGGAAGTATCCAT
 TCCTGTGAATGACACTCGTTACACAGTCTTCCATGACCTTATTCGTGCCATGCTAAAGGTCAACCCAGAG
 GAGAGGCTGTCCATTGCTGAAGTGGTCCGACAACCTGCAGGAAATTGCAGCAGCTAGGAATGTGAACCCCA
 AAGCTCCCATCACAGAGCTGCTGGAGCAGAATGGTGGCTATGGGAACTCAGGGCCTCCCGAGCACAAAC
 ACCTTGCGGGGGCACCCTGAACAGCAGTGGAGTTTTGGCTCTGGCAGAGTATGACCAGCCCTACGGTGGG
 TTTCTTGATATTCTGCGGGTGGGACCGAACGGCTCTTACCAACCTCAAGGATACTTCTCCAAGGTCA
 TCCAGTCTGTGGCTAACTATGCAAAGGGTGATCTGGACATATCTTACATCACATCCAGGATTCAGTGAT
 GTCATTTCCAGCAGAAGGTGTGGAGTCTGCAATCAAAAACAATATAGAGGATGTGCGAATGTTTCTGGAT
 GCTAAGCATCCAGGACATTATGTGTCTACAACCTTTCTCCAAGGATATACCGGGCTTCCAAGTTTCACA
 ACCGGGCTCACTGAGTGTGGCTGGGCAGTCAGACGGGCACCCACATCTCCACAGTTTGTATACTCTATGTAG
 GAGCATGCATGCCTGGCTCCGGGAAGACCACAGGAACGTCTGTGTTGTGCATTGCATGGATGGGAGAGCT
 GCATCTGCTGTGGCAGTCTGTGCATTCTGTGCTTCTGCCGTCTTTCAGCACTGCAGAGGCTGCTGTGT
 ACATGTTCAAGCGCTGCCACCCAGGCATTTGGCCATCCCACAAAAGGTACATTGAATATGTATG
 TGACATGGTGGCAGAGGAGCCCATCACGCCCCATAGCAAGCCAATGCTGGTAAAATCTGTTGTCATGACC
 CCCGTGCCACTGTTCAAGCAGAGGAATGGCTGCCACCGTCTGTGAGGTCTACGTTGGAGAGGAGC
 GTGTCACCACCAGTCCGAGGAATATGACAGAATGAAGGAATTTAAAATTGAGGATGGCAAGGCTGTCAT
 CCCCTGGGCGTAACAGTTCAAGGAGACGTGCTCATCATCTACCATGCCAGGGCCACTGGGAGGG
 AGGCTGCAGGCTAAGATGGCGTCCATGAAAATGTTCCAGATCCAGTTCACACTGGGTTCTGTCCTCGAA



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ACGCAACCACTGTGAAATTTGCAAAATATGACCTGGATGCTTGTGATATTCAAGAGAAGTACCCAGATCT
GTTCCAGGTGAACCTGGAAGTGGAGGTAGAGCCTAGAGACAGGCCAGCCGAGAAGCTCCACCTGGGAG
AACACCAGCCTAAGGGGGTTAAACCCCAAGATCCTCTTTTCCAACAGGGAAGAGCAGCAGGACATTCTGT
CTAAGTTTGGGAAGCCGGAGCTACCCCGCAGCCGGGCTCCACAGCTCAGTATGATGCTGAGGCAGGGTC
TCCGGAGGCTGAGATCACAGAGTCGGACTACCCGACAGCAGCAGTACGGACACCAACCACTTTCTTAC
ACACTGGATTGGCAGGAGGAAAAAGAACCAGAGACTGGGTTAGACAATACCTCTCCTAAGGAGAGTCAGT
CTGTCTGATTGCAGACGGAGATGGAAGTGAAGTATCAGATGAAGAAGAGGCTTCATCCCCAGTGAGGA
GAGGAAACCAGGAGCTGGAGAAGATACACCAAGGCTGGCTGCTGGGACCAAACAGCAAGACTTAATATTT
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ACTCTGAGGGGACTTAAGGCCTGCTGCCCCCTTACAGGCTTGTGGGTCCCATCTAGCAACACTGACCT
GTTGAGCTGCCTTCTGAACCATCTGATGCTGCTCAAGTAGGGCCTCCTGGTGACCTGCTTGGTGGTGAG
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TCTCTTTGGAGAGTTTCTCAACTCTGACTCTGTAGCTTCTCAACTGCCTTCCCATCCACCCACAGTGCC
CCACCCCATCCTGTAGCACTGCCTTCTGCACCTAGGGGATCTGCCAGCAGAGCCAGCAAGGTAATAG
CTTCATCCAGCCACCCAGATCTGCTAGGAGGATGGGATACGTGGGCTGACACAGCTACACCTGGGCCAGC
CTCCATCCAGTACCAGAAGGTACCCTCTTCTTCTGTCAGGTACCCAGCCCTCCTGGCCCAACCC
AGCCAAACCAAGTCTCAGAACCTTGACCCATTTGCTGATCTCAGTGATCTCAGCTTAGCCTCAAGGCC
TGCTGCTGGACTTCTGCAGGGGGCTTGTGGCGCACCAGCCCACTCAAAGAGCAACAGCCCTG
GCAGGCAAATCGTCCACAGCCCTGGAACCTCATGGACCCCAAGCCAGCCCAAGCCAGCCCTG
GAACAGCTAAGGTCTCACTTCAGTGTGATCGGGGGCCGAGAAGAGAGGGGCGTCCGTGTGCCAGCTTG
CCAAAAGCCAAAGGTCTCAGAAAATGATTTTGAAGATCTTCTGCCTAATCAAGGCTTCTCTAAGTCTGA
CAAGAAGGGGCCAAAGACCATGGCAGAGATGCGGAAACAGGAATTGCCAGAGATACAGACCCCACTCAA
TTGAAGCTTTTGGACTGGATTGAAGGCAAGGAGAGGAACATTCTGCACACTGCTGTCCACTGTGCACACGG
TATTGTGGGATGGGAGAGCCGCTGGACACCTGTGAGTATGGCTGACCTGGTACTCCAGAGCAGGTGAA
GAAGCAGTACCGCGTGCAGTGCTGGTAGTGCATCCTGATAAGGCCACAGGGCAGCCGTATGAACAGTAT
GCCAAGATGATCTTCATGGAGCTGAATGATGCATGGTCTGAGTTTAAAACCAGGGCTCGAGGCCCTCT
TCTGA

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001282051
- Insert Size:** 3435 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_001282051.1](#), [NP_001268980.1](#)

RefSeq Size: 4793 bp

RefSeq ORF: 3435 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 (2) differs in its 5' UTR and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1. Variants 2 and 6 both encode the same isoform (2).