

## Product datasheet for **MG205634**

### Gkap1 (BC052347) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gkap1 (BC052347) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gkap1
Synonyms:	42kDa; 4933400B15Rik; D13ErtD340e; Gkap42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205634 representing BC052347 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTCTGCAGTCTCAGCTCTGTGCTCACAACCTGCCTCTCGCTTGGCCCTGCTACAAGTGGACAGCG  
GCAGTGGCTCTGATTCGAGCCTGGAAAGGCAAAGGCCGGAGTAATGGGAAGTCTCAAACCTCTGGGAAA  
CAAAGCAACCTCAAATGAGAAGAAACGGGAGAAGAGAAGAAAAAGAAGGAACAGCAGCAGAGTGAAGCA  
AACGAGCTCAGGAATCTTGCTTTCAAGAAAATCCCCAGAAATCCTCCATTCCATTTGCAATGTTCAAC  
ATGAGCTTTCATCGCAAACCCAGCACAGAAGGAGTACGGGAAGAAAAGTGGCAAGAGTGGAGACAGAA  
AGATGAACAGCTGACCTCTGAAATGTTTGAAGCTGACCTTGAGAAGGCGTTGCTGTTGAGTAAGCTGGAG  
TATGAAGAGCACAAACAGGATTATGAAAATGCTGAGACTGCTTCAACTCAGACAAAAGGTATAAAATAAAA  
AAGATAAAGGAAGAACCACCAGGGCAAGGACAAACCTGTACGGTGTCACTCAAAGACTCCAGTGTGA  
AGATCATATTAGTAAAAAGGCAGAGGAATCGAATTCGCTCAGACTTTATCACACGATGGGGATTCTTC  
AATAGACTGGAAGATGATGTTTATAAGATTCTGATTAGAGAAAAAGGAGAGAACAACCTCACAGAGCACA  
ACGGAACAGATAACTCTCCCGCTCCAGAGCACAAACCAGGAAGTAGGTCTAAAAGATGGAAGAATTGAAAG  
ACTAAAGTTAGAAGTAAAGGAAAGACGCAGAAATTCAGAAGCTCAAAGCTGTGATCACTCAGTGGGAG  
GCAAAGTATAAAGAAGTAAAGCAAGAAATGGACAATTACTGAAAATGCTTCAGGAGGGAGAGATGAAAG  
ATAAGGCCGAGATACTTCTGCAAGTGGATGAGTCTCAGAGCATCAAGAACGAGCTGACGGTCCAGGTGTC  
TTCACCTTCATGCCGCACTGGAACAAGAAAGATCTAAAGTAAAAGTATTACAGGCAGAATTAGCCAATAC  
CAGGGAGGCAGGAAGGGGAAAAGGAACCTCGAACCTGACCATTGCAGG

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205634 representing BC052347  
 Red=Cloning site Green=Tags(s)

MASAVLSSVLTTASRFALLQVDSGSGSDSEPGKGGKGRSNGKSQTLGNKATSNEKKREKRKKKEQQQSEA  
 NELRNLAFKKIPQKSSHSICNVQHELSSPNAQKESREENWQEWQKDEQLTSEMFEADLEKALLSKLE  
 YEEHKQDYENAETASTQTKGINKKDKRKNHQGKDKPVTVSLKDFQCEDHISKKAEESSNAQTLSHDGGFF  
 NRLEDDVHKILIREKRREQLTEHNGTDNSPAPEHNQEVGLKDGRIERLKLLELRKDAEIQKLVKAVITQWE  
 AKYKEVKARNQQLKMLQEEMKDKAEILLQVDESQSIKNELTVQVSSLHAALEQERSKVYVLAELAKY  
 QGGRKGGKRNFPDHC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC052347

**ORF Size:** 1098 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [BC052347](#), [AAH52347](#)

**RefSeq Size:** 1548 bp

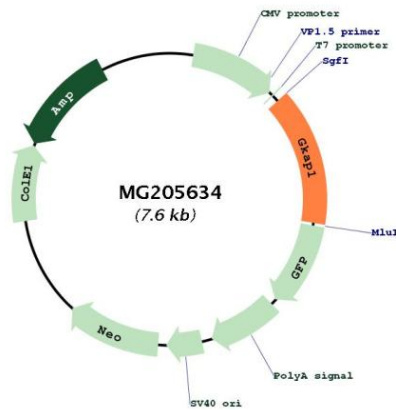
**RefSeq ORF:** 1100 bp

**Locus ID:** 56278

**Cytogenetics:** 13 30.97 cM

**Gene Summary:** Regulates insulin-dependent IRS1 tyrosine phosphorylation in adipocytes by modulating the availability of IRS1 to IR tyrosine kinase. Its association with IRS1 is required for insulin-induced translocation of SLC2A4 to the cell membrane. Involved in TNF-induced impairment of insulin-dependent IRS1 tyrosine phosphorylation.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG205634