

Product datasheet for **RG224409**

GK5 (NM_001039547) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GK5 (NM_001039547) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GK5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224409 representing NM_001039547
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGGGCTGCTCACGGACCCGAGCAGAGAGCGCAGGAGCCGCGGTACCCCGCTTCGTGCTGGGGC
 TGGATGTGGGCAGTTCTGTGATCCGCTGCCACGCTATGACCGGGCGGCCGGGTCTGCGCTCCAGCGT
 GCAGAAGGTAGAAAATCTTTATCCTCAAATTTGGCTGGGTAGAAAATTGATCCTGATGTTCTTTGGATTCAA
 TTTGTTGCCGTAATAAAGAAGCAGTCAAAGCTGCAGGAATACAGATGAATCAAATTGTTGGTCTTGCCA
 TTTCAACACAGAGAGCAACTTTTATTACGTGGAACAAGAAAACAGGAAATCATTTTCACAACCTTTATAAG
 TTGGCAAGACTTAAGAGCTGTTGAACTTGTAATACTTGAATAATTCTCTTCTTATGAAGATATTTAC
 AGTTCTTGCCGAGTGCTCACTTTTTCACTAGAAGTAAACGACTTTTTACAGCCAGTTTGTTCACCTTTCA
 CAACCCAGCAGACTTCTTTGAGATTGGTCTGGATTTTACAGAACTTGACTGAGGTGCAAAAGGCAGTTGA
 AGAAGAAAATTGCTGCTTTGGGACTATTGATACCTGGTGTATATAAGCTCACAAAAGGTTCTGTATAT
 GCCACAGATTTTTCAAATGCTAGTACAACCTGGACTTTTTGACCCATATAAGATGTGTTGGAGTGGGATGA
 TTACCTCTCTAATTTGATACCACTTTCTCTCCTACCTCCTGTGAGGGACACAAGCCACAATTTTGGATC
 AGTGGATGAAGAGATATTTGGTGTGCCTATACCAATAGTTGCCTTGGTGTGCTGACCAGCAATCAGCCATG
 TTTGGAGAGTGCTGCTTCCAGACAGGTGATGTGAAATTAACCATGGGAAGTGGGACATTTTGGATTA
 ACCTGGAATAGCCTTCAACAGACTACTGGAGGCTTTTATCCATTAATTGGGTGGAAGATTGGGCAAGA
 AGTCGATGCTTAGCTGAAAGCAATGCAGGAGACTGGTACTGCCATAAAATGGGCTCAGCAGTTAGAC
 CTTTTACAGATGCTGCTGAGACTGAAAAAATGGCCAAAAGTTTGGAGGATTCTGAAGGAGTTTGTTTG
 TTCCATCTTTTAGTGGATTACAGGCTCCATTAATGACCCCTGGGCATGTGCCTTTTTATGGGTTTGA
 GCCTTCTACCAAGTAAATACCATCTTGTACGAGCAATATTGGAGTCAATAGCTTTTCAGAAAACAACAGTTA
 TATGAGATGATGAAGAAAGAGATTCATATTCCTGTAAGAAAAATCCGGGCAGATGGAGGAGTTTGTAAAG
 ATGGTTTTGTCATGCAGATGACTTCAGACCTGATTAATGAGAATATAGACAGACCTGCCGACATTGACAT
 GTCATGCCTGGGTGCAGCTTCTCTAGCTGGCCTTGGTGTGGGTTTTGGACTGACAAGGAGGAACTAAAG
 AAAGTGAACAAGTGAAGTGGTTTTCAAGCCACAGAAGAAATGTCAAGAATATGAAATGAGTCTGGAAA
 ACTGGGCCAAAGCAGTGAACGCTCCATGAATTGGTATAACAAGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224409 representing NM_001039547
 Red=Cloning site Green=Tags(s)

MSGLLTDPEQRAQEPRYPGFVLGLDVGSSVIRCHVYDRAARVCGSSVQKVENLYPQIGWVEIDPDVLWIQ
 FVAVIKEAVKAAGIQMNQIVGLGISTQRATFITWNKKTGNHFNHFSWQDLRAVELVKSWNNSLLMKIFH
 SSCRVLHFFTRSKRLFTASLFTFTTQQTSLRLVWILQNLTEVQKAVEEENCCFGTIDTWLLYKLTGKSVY
 ATDFSNASTTGLFDPYKMCWSGMITSLISIPLSLLPPVRDTSNHFVSVDEEIFGVPIPIVALVADQQSAM
 FGECFFQTGDVCLTMGTGFLDINTGNSLQQTGGFYPLIGWKIGQEVVCLAESNAGDTGTAIKWAQQLD
 LFTDAAETEKMAKSLEDSEGVCVPSFSGLQAPLNDPWACASFMGLKPSTSKYHLVRAILESIAFRNKQL
 YEMMKKEIHIPVRKIRADGGVCKNGFVMTSDLINENIDRPADIDMSCLGAASLAGLAVGFWDKLEELK
 KLRQSEVVFKPKKCKQEYEMSLNWKAVKRSMNWNK

TRTRPLE - GFP Tag - V

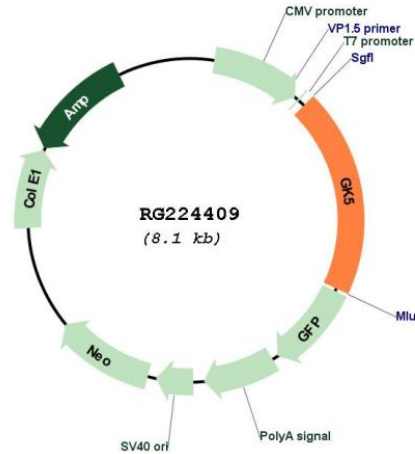
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001039547

ORF Size: 1587 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_001039547.3](#)

RefSeq Size: 9834 bp

RefSeq ORF: 1590 bp

Locus ID: 256356

UniProt ID: [Q6ZS86](#)

Cytogenetics: 3q23

Protein Families: Druggable Genome