

Product datasheet for **RG204911**

GKAP1 (NM_025211) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GKAP1 (NM_025211) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GKAP1
Synonyms:	FKSG21; GKAP42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204911 representing NM_025211 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCCTCAGCAGTACTTAGTTCTGTTCCACCACCGCTTCTCGTTTGGCCTGTTACAAGTGGATAGTG
 GCAGTGGCTCTGATTCTGAACCTGGAAAAGGTAAGGTCGAAATACTGGAAAGTCTCAAACCTTAGGAAG
 CAAGTCAACTACAAATGAGAAAAAGAGAGAAAAAGAAAAAGAAAGAACAGCAACAGAGTGAAGCA
 AATGAGCTCAGGAATCTTGCTTTAAGAAAATCCCCAGAAATCCTCCCATGCTGTTGTAAACGCTCAAC
 ATGATCTTCCATTGTCAAACCCAGTACAGAAGGATTCACGAGAAGAAAATTGGCAAGAGTGGAGACAAAG
 AGATGAGCAGCTGACATCTGAAATGTTTGAAGCAGATCTTGAGAAGGCATTGTTACTAAGTAAACTAGAA
 TATGAAGAGCACAAAAAGGAGTATGAAGATGCTGAAAATACTTCAACTCAGTCCAAAGTTATGAATAAAA
 AAGATAAAAGAAAGAATCATCAGGGAAAAGACAGACCTCTCACAGTATCACTAAAAGATTTTCATTCGGA
 AGATCACATTAGTAAAAAGACTGAGGAATTGAGTTCTTCTCAGACTTTATCACATGATGGAGGATTCTTC
 AATAGACTGGAAGATGATGTTCAAAAATCTTATTAGAGAAAAACGAAGAGAACAGCTTACAGAATATA
 ATGGAACAGATAATTGTACAGCTCATGAACACAACCAGGAAGTGGTCTGAAAGATGGAAGAATTGAAAG
 ACTAAAGTTAGAGCTTGAAAGGAAAGATGCTGAAATCCAGAAGCTGAAAAATGTAATCACTCAATGGGAG
 GCAAAGTATAAGGAAGTAAAGGCAAGAAATGCACAATTATTGAAAATGCTTCAGGAAGGTGAAATGAAAG
 ATAAGGCAGAAATACTTCTGCAAGTTGATGAATCACAAGTATCAAGAATGAGCTCACTATTCAAGGTGAC
 TTCACTTCATGCTGCATTAGAACAAGAAAGATCTAAAGTAAAAGTATTACAAGCAGAGTTAGCCAAATAC
 CAGGGTGGCAGAAAAGGAAAAGAACTCTGAATCCGACCACTGTAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204911 representing NM_025211
 Red=Cloning site Green=Tags(s)

MASAVLSSVPTTASRFALLQVDSGSGSDSEPGKGKGRNTGKSQTLGSKSTTNEKKREKRRKKKEQQQSEA
 NELRNLAFFKKIPQKSSHAVCNAQHDLPLSNPVQKDSREENWQEWQRDEQLTSEMFEADLEKALLSKLE
 YEEHKKKEYEDAENTSTQSKVMNKKDKRKNHQGKDRPLTVSLKDFHSEDHISKKTEELSSSQTLSHDGGFF
 NRLEDDVHKILIREKRREQLTEYNGTDNCTAHEHNQEVVLKDGRIERLKLLELRKDAEIQKLKNVITQWE
 AKYKEVKARNAQLLKMLQEGEMKDKAEILLQVDESQSIKNELTIQVTSLHAALEQERSKVYVLQAEALAKY
 QGGRKGKRNSQDQCR

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_025211

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: [NM_025211.4](#)

RefSeq Size: 1796 bp

RefSeq ORF: 1101 bp

Locus ID: 80318

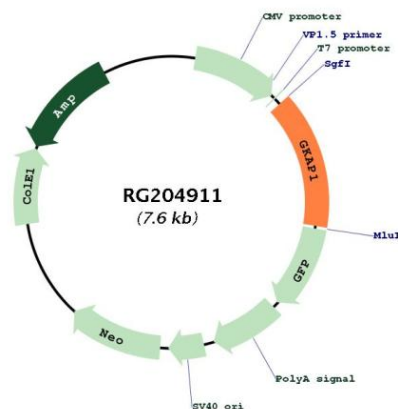
UniProt ID: [Q5VSY0](#)

Cytogenetics: 9q21.32

Protein Families: Druggable Genome

Gene Summary: This gene encodes a protein that is highly similar to the mouse cGMP-dependent protein kinase anchoring protein 42kDa. The mouse protein has been found to localize with the Golgi and recruit cGMP-dependent protein kinase I alpha to the Golgi in mouse testes. It is thought to play a role in germ cell development. Transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RG204911