

Product datasheet for **RG227915**

GKAP1 (NM_001135953) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GKAP1 (NM_001135953) 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:	>RG227915 representing NM_001135953 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCCTCAGCAGTACTTAGTTCTGTTCCACCACCGCTTCTCGTTTTGCCCTGTTACAAGTGGATAGTG
 GCAGTGGCTCTGATTCTGAACCTGGAAAAGGTAAGGTCGAAATACTGGAAAGTCTCAAACCTTAGGAAG
 CAAGTCAACTACAAATGAGAAAAAAGAGAGAAAAAGAAGAAAAAGAAGAACAGCAACAGAGTGAAGCA
 AATGAGCTCAGGAATCTTGCTTTTAAGAAAATCCCCAGAAATCCTCCCATGCTGTTTGAACGCTCAAC
 ATGATCTTCCATTGTCAAACCCAGTACAGAAGGATTCACGAGAAGAAAATTGGCAAGAGTGGAGACAAAG
 AGATGAGCAGCTGACATCTGAAATGTTTGAAGCAGATCTTGAGAAGGCATTGTTACTAAGTAAACTAGAA
 TATGAAGAGCACAAAAAGGAGTATGAAGATGCTGAAAAATCTTCAACTCAGTCCAAAGTTATGAATAAAA
 AAGATAAAGAAAGAATCATCAGGGAAAAGACAGACCTCTCACAGTATCACTAAAAGATTTTCATTCGGA
 AGATCACATTAGTAAAAAGACTGAGGAAGTGGTTCTGAAAGATGGAAGAATTGAAAGACTAAAGTTAGAG
 CTTGAAAGGAAAGATGCTGAAATCCAGAAGCTGAAAAATGTAATCACTCAATGGGAGGCAAGTATAAGG
 AAGTAAAGGCAAGAAATGCACAATTATTGAAAATGCTTCAGGAAGGTGAAATGAAAGATAAGGCAGAAAT
 ACTTCTGCAAGTTGATGAATCACAAAGTATCAAGAATGAGCTCACTATTCAGGTGACTTCACTTCATGCT
 GCATTAGAACAAGAAAGATCTAAAGTAAAGTATTACAAGCAGAGTTAGCCAAATACCAGGGTGGCAGAA
 AAGGGAAGAAAGAACTCTGAATCCGACCACTGTAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG227915 representing NM_001135953
 Red=Cloning site Green=Tags(s)

MASAVLSSVPTTASRFALLQVDSGSGSDSEPGKGKGRNTGKSQTLGSKSTTNEKKREKRRKKKEQQQSEA
 NELRNLAFFKKIPQKSSHAVCNAQHDLPLSNPVQKDSREENWQEWQRDEQLTSEMFEADLEKALLSKLE
 YEEHKKEYEDAENTSTQSKVMNKKDKRKNHQGKDRPLTVSLKDFHSEDHISKKTEEVVLKDGRIERLKE
 LERKDAEIQKLKNVITQWEAKYKEVKARNAQLLKMLQEGEMKDKAEILLQVDESQSIKNETLIQVTSLHA
 ALEQERSKVVLQAELAKYQGGRGKGRNSES DQCR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135953

ORF Size: 945 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_001135953.1](#), [NP_001129425.1](#)

RefSeq Size: 1738 bp

RefSeq ORF: 948 bp

Locus ID: 80318

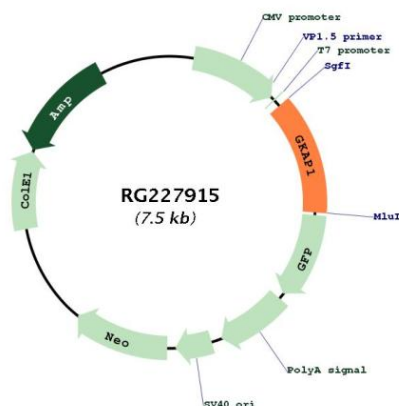
UniProt ID: [Q5VSY0](#)

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 RG227915