

Product datasheet for **RG216876**

PRKAG2 (NM_001040633) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRKAG2 (NM_001040633) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRKAG2
Synonyms:	AAKG; AAKG2; CMH6; H91620p; WPWS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216876 representing NM_001040633
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGCTCTGGACGGAGACCTGGAGGGTTCCGAAAGCATTCTCTCGAAAGGTGGACAGCCCTTCG
 GCCCGGGCAGCCCTCCAAGGGTCTTCTCCAGAGGCCCCAGCCCGGCCCTCAGCCCATGTCTGC
 ACCTGTGAGGCCAAGACCAGCCCGGCTCTCCAAAACCGTGTCCCGTCTCCTACCAGGAGTCCCGG
 CCACGCTCCCCTCGACGCATGAGCTTCACTGGGATCTTCCGCTCCTCCTCAAAGAGTCTTCCCAACT
 CCAACCTGTACCTCGCCCGGGGCACTCAGGTTTTTCTCCGCTCCAGAAAACTCCGGCCTCTCCTC
 CTCTCCGTC AACACCCACCAAGTGACCAAGCAGCACAGTTCCTGGAATCTATAAGCAGGAGCT
 GAACGGTTAGAGAATCGCATCTATGCCTCGTCTTCCCCCGGACACAGGGCAGAGGTTCTGCCGCTT
 CCTTCCAGAGCCCGACCGGCTCCACTGGCATACCGACACACTATGCTCCCTCAAAGCCGGCGCT
 GCGCGCGCCCTGGGACCGGGAAGCCGGCATGCTGGAGAAGCTGGAGTTCGAGGACGAAGCAGTAGAA
 GACTCAGAAAGTGGTGTTCATGCGATTATGAGGTCACACAAGTGTATGACATCGTTCCAACAGTT
 CAAAGCTTGTGTCTTTGATACTACATTACAAGTTAAAAAGCCTTCTTTGCTTTGGTAGCCAACGGTGT
 CCGAGCAGCGCCACTGTGGGAGAGTAAAAACAAGTTTTGTAGGAATGCTAACAAATTACAGATTTCATA
 AATATACTACATAGATACTATAAATCACCTATGGTACAGATTTATGAATTAGAGGAACATAAAATTGAAA
 CATGGAGGGAGCTTTATTTACAAGAAACATTTAAGCCTTAGTGAATATATCTCCAGATGCAAGCCTCTT
 CGATGCTGATACTCCTTGATCAAAAATAAAATCCACAGATTGCCGTTATTGACCCTATCAGTGGGAAT
 GCACCTTATATACTTACCACAAAAGAATCCTCAAGTTCCTCCAGCTTTTATGTCTGATATGCCAAAGC
 CTGCCTTCATGAAGCAGAACCTGGATGAGCTTGGAAATAGGAACGTACCACAACATTGCCTCATACTCC
 AGACACTCCCATCATCAAAGCCTTGAACATATTTGTGGAAAGACGAATATCAGCTCTGCCTGTTGTGGAT
 GAGTCAGGAAAAGTTGTAGATATTTATCCAAATTTGATGTAATTAATCTTGCTGCTGAGAAAACATACA
 ATAACCTAGATATCACGGTGACCCAGGCCCTTCAGCACCGTTCACAGTATTTGAAGGTGTGTGAAGTG
 CAATAAGCTGAAACTGGAGACCATCGTGGACAGAATAGTAAGAGCTGAGGTCCATCGCTGTTGGTG
 GTAATGAAGCAGATAGTATTGTGGTATTATTTCCCTGTGGACATTCTGCAAGCCTGATCCTCACAC
 CAGCAGGTGCCAAAACAAAAGGAGACAGAAACGGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG216876 representing NM_001040633
 Red=Cloning site Green=Tags(s)

MPLLDGDLESGKHSSRKVDSPFGPGSPSKGFFSRGPQPRPSSPMSAPVVRPKTSPGSPKTVFPFSYQESP
 PRSPRRMSFSGIFRSSSESSPNSNPATSPGGIRFFSRSRKTSGLSSSPSTPTQVTKQHTFPLESYKHEP
 ERLENRIYASSPPDTGQRFQPSFQSPTRPPLASPTHYAPSKAAALAAALGPAEAGMLEKLEFEDEAVE
 DSESGVYMRFMRSKCYDIVPTSSKLVVFDTTLQVKKAFALVANGVRAAPLWESKKQSFVGMILTITDFI
 NILHRYKSPMVQIYELEEHKIEWREL YLQETFKPLVNI SPDASLFDVYSLIKNKIHLRPVIDPISGN
 ALYILTHKRILKFLQLFMSDMPKPAFMKQNLDELGIGTYHNI AF IHPDTP I I KALNIFVERRISALPVVD
 ESGKVVDIYSKFDVINLAAEKTYNNLDITVTQALQHR SQYFEGVVKCNKLEILETIVDRIVRAEVHRLVV
 VNEADSI VGIISLSDILQALILTPAGAKQKETETE

TRTRPLE – GFP Tag – V

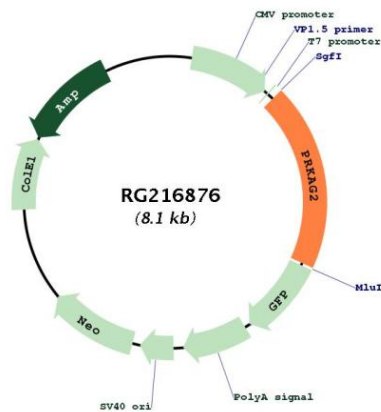
Restriction Sites:

Sgfl-Mlul

RefSeq Size: 3154 bp
RefSeq ORF: 1578 bp
Locus ID: 51422
UniProt ID: [Q9UGJ0](#)
Cytogenetics: 7q36.1
Protein Families: Druggable Genome
Protein Pathways: Adipocytokine signaling pathway, Hypertrophic cardiomyopathy (HCM), Insulin signaling pathway

Gene Summary: AMP-activated protein kinase (AMPK) is a heterotrimeric protein composed of a catalytic alpha subunit, a noncatalytic beta subunit, and a noncatalytic regulatory gamma subunit. Various forms of each of these subunits exist, encoded by different genes. AMPK is an important energy-sensing enzyme that monitors cellular energy status and functions by inactivating key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This gene is a member of the AMPK gamma subunit family. Mutations in this gene have been associated with Wolff-Parkinson-White syndrome, familial hypertrophic cardiomyopathy, and glycogen storage disease of the heart. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jan 2015]

Product images:



Circular map for RG216876