OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC402763

GRK5 (NM_005308) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	GRK5 (NM_005308) Human Mutant ORF Clone
Mutation Description:	Q41L
Affected Codon#:	41
Affected NT#:	122
Nucleotide Mutation:	GRK5 Mutant (Q41L), Myc-DDK-tagged ORF clone of Homo sapiens G protein-coupled receptor kinase 5 (GRK5) as transfection-ready DNA
Effect:	Decreased mortality in heart failure, association with
Symbol:	GRK5
Synonyms:	FP2025; GPRK5
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_005308
ORF Size:	1770 bp
Restriction Sites:	SgfI-MluI

View online »

ORF Nucleotide Sequence:

>RC402763 representing NM_005308
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCTGGAAAACATCGTGGCCAACACGGTCTTGCTGAAAGCCAGGGAAGGGGGCGGAGGAAAGCGCA
AAGGGAAAAGCAAGAAGTGGAAAGAAATCCTGAAGTTCCCTCACATTAGCCTGTGTGAAGACCTCCGAAG
GACCATAGACAGAGATTACTGCAGTTTATGTGACAAGCAGCCAATCGGGAGGCTGCTTTTCCGGCAGTTT
TGTGAAACCAGGCCTGGGCTGGAGTGTTACATTCAGTTCCTGGACTCCGTGGCAGAATATGAAGTTACTC
CAGATGAAAAACTGGGAGAGAAAGGGAAGGAAATTATGACCAAGTACCTCACCCCAAAGTCCCCTGTTTT
CATAGCCCAAGTTGGCCAAGACCTGGTCTCCCAGACGGAGGAGAAGCTCCTACAGAAGCCGTGCAAAGAA
CTCTTTTCTGCCTGTGCACAGTCTGTCCACGAGTACCTGAGGGGAGAACCATTCCACGAATATCTGGACA
GCATGTTTTTTGACCGCTTTCTCCAGTGGAAGTGGTTGGAAAGGCAACCGGTGACCAAAAACACTTTCAG
GCAGTATCGAGTGCTAGGAAAAGGGGGCTTCGGGGAGGTCTGTGCCTGCCAGGTTCGGGCCACGGGTAAA
ATGTATGCCTGCAAGCGCTTGGAGAAGAAGAGGATCAAAAAGAGGAAAGGGGAGTCCATGGCCCTCAATG
AGAAGCAGATCCTCGAGAAGGTCAACAGTCAGTTTGTGGTCAACCTGGCCTATGCCTACGAGACCAAGGA
TGCACTGTGCTTGGTCCTGACCATCATGAATGGGGGTGACCTGAAGTTCCACATCTACAACATGGGCAAC
CCTGGCTTCGAGGAGGAGCGGGCCTTGTTTTATGCGGCAGAGATCCTCTGCGGCTTAGAAGACCTCCACC
GTGAGAACACCGTCTACCGAGATCTGAAACCTGAAAACATCCTGTTAGATGATTATGGCCACATTAGGAT
CTCAGACCTGGGCTTGGCTGTGAAGATCCCCGAGGGAGACCTGATCCGCGGCCGGGTGGGCACTGTTGGC
TACATGGCTCCAGAGGTCCTGAACAACCAGAGGTACGGCCTGAGCCCCGACTACTGGGGCCTTGGCTGCC
TCATCTATGAGATGATCGAGGGCCAGTCGCCGTTCCGCGGCCGCAAGGAGAAGGTGAAGCGGGAGGAGGT
GGACCGCCGGGTCCTGGAGACGGAGGAGGTGTACTCCCACAAGTTCTCCGAGGAGGCCAAGTCCATCTGC
AAGATGCTGCTCACGAAAGATGCGAAGCAGAGGCTGGGCTGCCAGGAGGAGGGGGCTGCAGAGGTCAAGA
GACACCCCTTCTTCAGGAACATGAACTTCAAGCGCTTAGAAGCCGGGATGTTGGACCCTCCCTTCGTTCC
AGACCCCCGCGCTGTGTACTGTAAGGACGTGCTGGACATCGAGCAGTTCTCCACTGTGAAGGGCGTCAAT
CTGGACCACACAGACGACGACTTCTACTCCAAGTTCTCCACGGGCTCTGTGTCCATCCCATGGCAAAACG
AGATGATAGAAACAGAATGCTTTAAGGAGCTGAACGTGTTTGGACCTAATGGTACCCTCCCGCCAGATCT
GAACAGAAACCACCCTCCGGAACCGCCCAAGAAAGGGCTGCTCCAGAGACTCTTCAAGCGGCAGCATCAG
AACAATTCCAAGAGTTCGCCCAGCTCCAAGACCAGTTTTAACCACCACATAAACTCAAACCATGTCAGCT
CGAACTCCACCGGAAGCAGC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

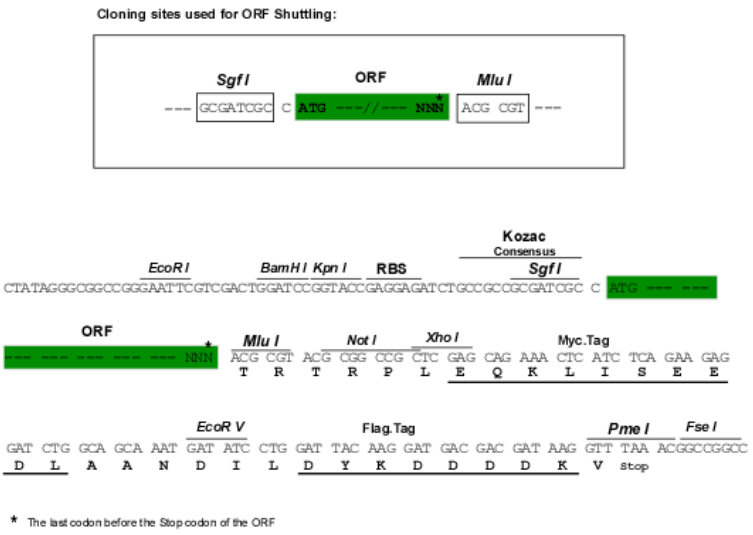
>RC402763 representing NM_005308
Red=Cloning site Green=Tags(s)

MELENIVANTVLLKAREGGGGKRKGKSKKWKEILKFPHISLCEDLRRTIDRDYCSLCDKQPIGRLLFRQF
CETRPGLECYIQFLDSVAEYEVTPDEKLGEKGKEIMTKYLTPKSPVFIAQVGQDLVSQTEEKLLQKPCKE
LFSACAQSVHEYLRGEPFHEYLDSMFFDRFLQWKWLERQPVTKNTFRQYRVLGKGGFGEVCACQVRATGK
MYACKRLEKKRIKKRKGESMALNEKQILEKVNSQFVVNLAYAYETKDALCLVLTIMNGGDLKFHIYNMGN
PGFEEERALFYAAEILCGLEDLHRENTVYRDLKPENILLDDYGHIRISDLGLAVKIPEGDLIRGRVGTVG
YMAPEVLNNQRYGLSPDYWGLGCLIYEMIEGQSPFRGRKEKVKREEVDRRVLETEEVYSHKFSEEAKSIC
KMLLTKDAKQRLGCQEEGAAEVKRHPFFRNMNFKRLEAGMLDPPFVPDPRAVYCKDVLDIEQFSTVKGVN
LDHTDDDFYSKFSTGSVSIPWQNEMIETECFKELNVFGPNGTLPPDLNRNHPPEPPKKGLLQRLFKRQHQ
NNSKSSPSSKTSFNHHHINSNHVSSNSTGSS

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

RefSeq: NP_005299

RefSeq Size: 1770 bp

RefSeq ORF: 1773 bp

Locus ID: 2869

Cytogenetics:	10q26.11
Domains:	RGS, pkinase, S_TK_X, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Chemokine signaling pathway, Endocytosis
MW:	64.9 kDa
Gene Summary:	This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor kinase subfamily of the Ser/Thr protein kinase family. The protein phosphorylates the activated forms of G protein-coupled receptors thus initiating their deactivation. It has also been shown to play a role in regulating the motility of polymorphonuclear leukocytes (PMNs). [provided by RefSeq, Jul 2008]