

Product datasheet for **MG222249**

Kcnk5 (NM_021542) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnk5 (NM_021542) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kcnk5
Synonyms:	KCNK5b; TASK-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG222249 representing NM_021542
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGACCGGGTCCTTTACTCACCTCGGCCATCATATTCTACCTGGCCATCGGGCAGCGATCTTCG
 AAGTGCTGGAGGACCACTGGAAGGAGGCCAAGAAAACTACTATACAGAAACTGCATCTACTCAA
 GGAGTTTCCGTGCCTGAGTCAGGAGGGACTGGACAAGATCCTACAGGTGGTGTCTGATGCTGCGGATCAG
 GGTGTGGCCATCACCGGGAACCAGACTTCAACAAGTGAAGTGGCCAAATGCAATGATTTTTGCTGCCA
 CAGTCATACCACCATCGGTTATGGCAATGTGGCTCCCAAGACCCAGCTGGGCGCCTCTTCTGTGTCTT
 CTACGGCCTCTTCGGGTGCCGCTGTGCCTGACATGGATCAGTGCCTGGGCAAGTTCTTCGGGGGACGT
 GCAAAGAGGTTGGCCAGTTTCTTACCAGGAGAGGAGTGAGCCTGAGGAAGGCTCAGATCACGTGTACAG
 CCATCTTCATCGTGTGGGTGTCTTGGTCCATCTGGTATCCCGCCTTTGTGTTTCATGGTGACAGAAGA
 ATGGAACACATTGAGGGCCTACTATTCTTTCATCACCATCTCCACCATTGGCTTTGGGGACTTTGTG
 GCCGGTGTGAACCCAGTGCCAACCTACCAGCCCTATACCGATACTTTGTGGAGCTTTGGATCTACCTGG
 GGCTGGCTTGGCTGTCCCTCTTTGTCAACTGGAAGGTGAGCATGTTTGTGGAAGTACACAAGCCATTAA
 AAAGAGCGCGCGCGGCCAAGGAATCCTTTGAGAGCTCTCCACACTCCCGAAGGCCCTACAGATGGCT
 GGAAGTACAGCATCCAAGGACGTCAACATCTTCAGCTTCTATCCAAAAGGAGGAGACCTACAATGACC
 TCATCAACAGATTGGGAAGAAGCAATGAAAACAAGTGGGGGAGGGGAGAGGGTCCCAGGACCTGGACA
 CGGGCTGGGACCTCAAGGGGATAGACTACCCACCATCCCTGCATCCCTGGCACCTTTGGTGGTCTATTCC
 AAGAATCGGGTCCCAGCTTGAAGAGGTATCTCAGACTCTAAAAACAAGGGACATGTGTCAAGGCCAC
 TTGGTGAGGAGGCTGGGGCACAGGCCCAAGGATAGTTACCAACCTCTGAAGTGTTTATTAACCAACT
 GGACCGTATCAGTGAGGAGGGAGAGCCGTGGGAAGCCCTGGACTACCACCCGCTCATCTTCCAAAATGCC
 AACATTACCTTTGAAAATGAAGAAACCGCCTCTCAGACGAGGAGACCTCTAAGTCTTGTGGAGGACA
 ACCTGACCTCAAAGGAGCAGCCTGAACAGGACCATGGCTGAGGCACCTTGAGCAGCAGGGTGAATT
 CCCTTCATCCGATGAGTCCACCTTACCAGCACCAGTCCAGACTCTCCGTGCCTTACGAGCAGCTGATG
 AACGAATACAACAAGGCAGATAACCCAGGGGCACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222249 representing NM_021542
 Red=Cloning site Green=Tags(s)

MVDRGPLLTSAIIFYLAIGAAIFEVLEEPHWKEAKKNYYTQKLHLLKEFPCLSQEGLDKILQVVS DAADQ
 GVAITGNQTFNNWNWPNAMIFAATVITTIIGYGNVAPKTPAGRLFCVFYGLFGVPLCLTWISALGKFFGGR
 AKRLGQFLTRRGVSLRKAQITCTAIFIVWGLVHLVIPPFVFMVTEEWNYIEGLYYSFITISTIGFGDFV
 AGVNPSANYHALYRYFVELWIYGLAWLSL FVNKVS MFVEVHKAIKRRRRRRESFESSPHSRKALQMA
 GSTASKDVNIF SFLSKKEETYNDLIKQIGKKAMKTSGGGERVPGPGHGLGPQGDRLPTIPASLAPLVVYS
 KNRVPSLEEVSQTLKNKGHYSRPLGEEAGA QAPKDSYQTSEVFINQLDRISEEGEPWEALDYHPLIFQNA
 NITFENEETGLSDEETSKSSVEDNLT SKEQPEQGPMAEAPLSSTGEFPSSDESTFTSTESEL SVPYEQLM
 NEYNKADNPRGT

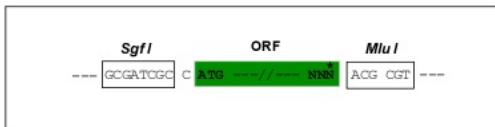
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac
Consensus

EcoRI BamHI KpnI RBS SgfI AscI

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag

CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --

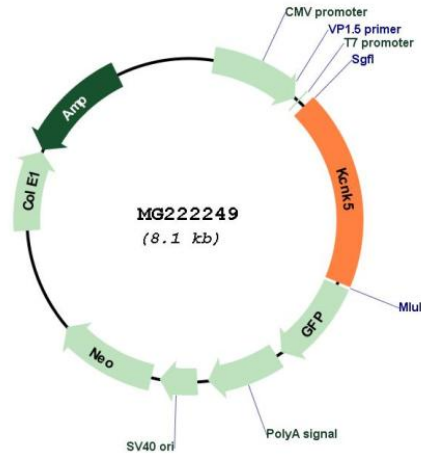
T R T R P L E M E S D - - -

PmeI FseI

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT

- - E E R V Stop

Plasmid Map:



ACCN: NM_021542

ORF Size: 1506 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_021542.4](#), [NP_067517.1](#)

RefSeq Size: 3364 bp

RefSeq ORF: 1509 bp

Locus ID: 16529

Cytogenetics: 14 A3