

Product datasheet for **MG224440**

Kcng4 (NM_025734) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcng4 (NM_025734) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kcng4
Synonyms:	4921535I01Rik; AW049024; KV6.3; KV6.4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224440 representing NM_025734
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCATGTCTTCCAGAGACAGGGACTTGCATCCTGGACACCATCACTTTGGCTCCTGCAGCCCCTTGA
 GCCAGCTCTGGCCGGGCCCCGAGCCTAAGTCAGTCAAGGGCCTTTACTACAGCAGGGCCCGAAGGTGGG
 CAACCAGGACGCCTCTCCGGAGGCCAATTGAAGGAGATCCTAGTGAATGTGGGTGGCCAGCGGTACCTG
 CTGCCCTGGAGCACCTGGATGCCTTCCCGCTGAGCCGCCTGAGCAGGCTCCGGTGTGCCGAGCCATG
 AGGAGATCACGCAGCTCTGCGATGACTACGATGAGGACAGCCAGGAGTTCTTCTCGACAGGAACCCAG
 CGCCTTCGGGGTGCCTGAGCTTCTGGCCGGGAAAGCTGGTGTCTGCGAGAGATGTGCCCTG
 TCCTTCCGGGAGGAGCTGAGCTACTGGGCATCGAGGAAACCACTGGAGCGTGTCTGCGCAAGC
 TGCTGAAGAAGCTGGAGGAGCGCCGAGCTGCGCCGGGAGGAGCTGCCAGCGCCAGCAGCAGCGCCA
 GGCTGCCACTCCGAGGTGCAGGCTTACGATGGGCCCGCAGCATGAACCAGCTGCGTGAATGGTGGAG
 GACCCACAGTCCGGGGCTGCCCGGAAGGTCTTCGCTGCCTCTCCGTGCTCTTCTGGCAACCACGGCTG
 TCAGCCTGTGTGTGAGCACCATGCCGACTTCAGGGCTGAGGAGGGCAAGGGAGAATGACTAGAAAAGT
 CTATTACATCTTCGTGGTGAATCCATCTGTGTGGCCTGGTTCTCGCTGGAGTTTTCCTGCGCTTTGTC
 CAGGCCCGAACAATGTGAGTTCTTCCGCGGGCCCTGAATGTCATCGACATTCAGCCATCTCCCAT
 ACTATGTGTGCTGCGAGTGTCTGACGAATCCCGGAGGCAGGCGAGAGGCCGAGCAGCAGCTCCTACCT
 GGAGAAAGTGGGGTTAGTGTGCGTGTCTGCGGGCACTACGCATCCTCTACGTAATGCGCTGGCTGCG
 CACTCCCTGGGGTGCAGACGCTGGCCCTCACTGTGCGCCGCTGCGCCGAGAGTTTGGTCTCCTGATGC
 TCTTCTGGCTGTGGCGGTTACCTCTTCTCACCGTTGGTCTATGTAGCTGAGAATGAGTCCGGAAAGGGT
 CCTGGAGTTCAGTACATCCCGCATCCTATTGGTGGCCATCATCTCCATGACGACCGTGGGCTATGGG
 GACATGGTCCCTCGCAGCGTCCCGGACAGATGGTGGCTCTGAGCAGCATCCTTAGCGGGATCCTTATCA
 TGGCTTCCAGCCACATCCATCTTCCACACGTTCTCTACTCCTACCTGGAGCTGAAGCGGGAGCAGGA
 GCAGGTCCAGGCCCGCTCCGGCGTCTTCAAGACCAATTTCGGCCAGCGAACGGGAGCTCCTGAGTGAC
 GTAGATGATCTGGTCCCTGAGGGTCTGACCTCCCGAGCCGCTACATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

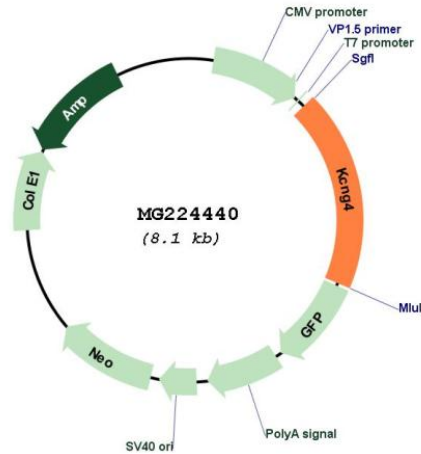
>MG224440 representing NM_025734
 Red=Cloning site Green=Tags(s)

MPMSSRDRDLHPGHHFGSCSPLSQLWPGPEPKSVKGLYYSRARKVGNQDASPEANLKEILVNVGGQRYL
 LPWSTLDAFPLSRLSRLRLCRSHEEITQLCDDYDEDSQEFFFDNRNPSAFGVIVSFLAAGKLVLLREMCAL
 SFREELSYWGIETNLERCCRLKLLKLEEAELRREEAAQRQQRQACHSEVQASRWARSMNQLREMVE
 DPQSGLPKVFACLSVLFVATTAVSLCVSTMPDFRAEEGKGECTRKCYIFVVESICVAWFLEFLRFV
 QAPNKCQFFRGPPLNVIDILAI SPYYVSLAVSDESPEAGERPSSSSYLEKVGLVLRVLRALRILYVMRLAR
 HSLGLQTLGLTVRRRCAREFGLLMLFLAVAVTLFSPLVVYAENESGRVLEFTSIPASYWWAII SMTTVGYG
 DMVPRSVPGQMVALLSSILSGILIMAFPATSIHFTHSHSYLELKRQEQVQARLRRQLQNTNSASERELSD
 VDDLVPPEGLTSPGRYM

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: NM_025734

ORF Size: 1518 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_025734.2](#), [NP_080010.2](#)

RefSeq Size: 3822 bp

RefSeq ORF: 1521 bp

Locus ID: 66733

UniProt ID: [Q80XM3](#)

Cytogenetics: 8 E1

Gene Summary: Potassium channel subunit that does not form functional channels by itself. Can form functional heterotetrameric channels with KCNB1; modulates the delayed rectifier voltage-gated potassium channel activation and deactivation rates of KCNB1.[UniProtKB/Swiss-Prot Function]