

Product datasheet for **RG206654**

KCNS2 (NM_020697) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNS2 (NM_020697) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNS2
Synonyms:	KV9.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG206654 representing NM_020697
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACCGCCAGAGCCTGTGGACGTGTGCGGAGGCTAACGTGCGAGGAGGAGATCCGCATCAATGTGG
 GCGGCTTCAAGAGGAGGCTGCGCTCGCACACGCTGCTGCGCTTCCCCGAGACGCGCTGGGCCGCTTGCT
 GCTCTGCCACTCGCGGAGGCCATTCTGGAGCTCTGCGATGACTACGACGACGTCCAGCGGGAGTTCTAC
 TTCGACCGCAACCCTGAGCTCTTCCCCTACGTGCTGCATTTCTATCACACCGGCAAGCTTACGTCATGG
 CTGAGCTATGTGCTTCTCCTTACGCCAGGAGATCGAGTACTGGGGCATCAACGAGTTTCTCATTGACTC
 CTGCTGCAGTACAGCTACCATGGCCGCAAAGTAGAGCCCAGCAGGAGAAGTGGGACGAGCAGAGTGAC
 CAGGAGAGCACCAGCTTCTCCTCGATGAGATCCTTGCCCTTACAACGACGCTCCAAGTTCGATGGGC
 AGCCCCCGCAACTTCCGAGGACGTGTGGTGGCGCTGGACAACCCCGGCTACTCAGTGTGAGCAG
 GGTCTTACAGCATCTGTCCATCCTGGTGGTGGTGGGTCATCATCACCATGTGCCTCAATAGCCTGCC
 GATTTCCAAATCCCTGACAGCCAGGGCAACCCTGGCGAGGACCCTAGGTTGAAAATCGTGGAGCACTTTG
 GCATTGCCTGGTTCACATTTGAGCTGGTGGCCAGGTTTGTGTGGCCCTGACTTCTCAAGTTCTTCAA
 GAATGCCCTAAACCTTATTGACCTCATGTCCATCGTCCCCTTTACATCACTCTGGTGGTGAACCTGGT
 GTGGAGAGCACACTACTTTAGCCAACCTGGGCAGGGTGGCCAGGTCTGAGGCTGATGCGGATCTTCC
 GCATCTTAAAGCTGGCCAGGCACTCCACTGGCCTCCGCTCCCTGGGGGCCACTTTGAAATACAGTACAA
 AGAAGTAGGGCTGCTCTTGTCTACCTCTCCGTGGGATTTCCATCTTCTCCGTGGTGGCTACACCATT
 GAAAAGGAGGAGAACGAGGGCTGGCCACCATCCCTGCCTGCTGGTGGTGGGCTACCGTCAGTATGACCA
 CAGTGGGGTACGGGGATGTGGTCCAGGGACACGGCAGGAAAGCTGACTGCCTGCCTGCATCTTGGC
 AGGCATCCTCGTGGTGGTCTGCCATCACCTTGATCTTCAATAAGTTCTCCCACTTTTACCGGCGCCAA
 AAGCAACTTGAAGTGCATGCGCAGCTGTGACTTTGGAGATGGAATGAAGGAGGTCCCTTCGGTCAATT
 TAAGGGACTATTATGCCATAAAGTTAAATCCCTTATGGCAAGCCTGACGAAATGAGCAGGAGCTCACC
 AAGTGAATCAGTTTAAATGATTCCTACGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206654 representing NM_020697
 Red=Cloning site Green=Tags(s)

MTGQSLWDVSEANVEDGEIRINVGGFKRRLRSHTLLRFPETRLGRLLLCHSREAILELDDYDDVQREFY
 FDRNPELFPYVLHFYHTGKLVHMAELCVFSFSQIEYWGINEFFIDSCCSYSYHGRKVEPEQEKWDEQSD
 QESTTSSFDEILAFYNDASKFDGQPLGNFRRQLWLALDNPYVLSRVFVILSILVVMGSIITMCLNSLP
 DFQIPDSQGNPGEPRFEIVEHFGIAWTFELVARFAVAPDFLKFKNALNLDLMSIVPFYITLVVNLV
 VESTPTLANLGRVAQVLRMRIFRILKLARHSTGLRSLGATLKYSYKEVGLLLLYLVGSIIFSVVAYTI
 EKEENEGLATIPACWWWATVSMTTVGYGDVVPPTAGKLTASACILAGILVVVLPITLIFNKFSHFYRRQ
 KQLESAMRSCDFGDGMKEVPSVNLRDYYAHKVKSLMASLTNMSRSPSELSLNDLRL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_020697

ORF Size: 1431 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_020697.4](#)

RefSeq Size: 3219 bp

RefSeq ORF: 1434 bp

Locus ID: 3788

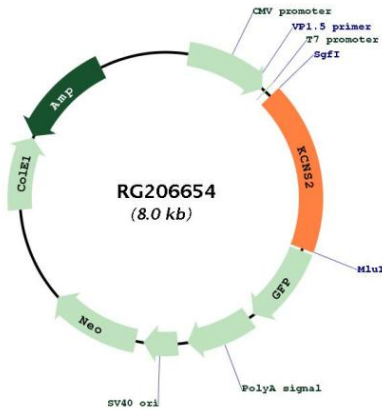
UniProt ID: [Q9ULS6](#)

Cytogenetics: 8q22.2

Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

Gene Summary: Potassium channel subunit that does not form functional channels by itself. Can form functional heterotetrameric channels with KCNB1 and KCNB2; modulates the delayed rectifier voltage-gated potassium channel activation and deactivation rates of KCNB1 and KCNB2. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206654