

Product datasheet for **MG218015**

Kcnv1 (NM_026200) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnv1 (NM_026200) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kcnv1
Synonyms:	2700023A03Rik; vibe
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218015 representing NM_026200
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCTGTACCCCGCAACCGCCGCTACTGGACTCGTCGCTGGACAGCGTTCTCTGACCTCAC
 TGGACTCCAGTGTCTTCTGTAGCGAGGGCGAAGGGGAACCCTTGCTCTGGGGACTGCTTTACAGTCAA
 CGTGGGCGGTAGCCGCTTCTGTGCTCTCGCAGCAAGCTCTGTCTGCTTCCCGCACACGCGCTGGGCAAA
 CTGGCCGTAGTGGTGGCCTCCTACCGCCGCTGGGTGCCCTGGCTGCCGCCCCAGCCCCCTGGAGCTTT
 GCGATGATGCGAATCCGGTGGACAACGAGTACTTCTTTGATCGCAGCTCTCAGGCGTTCCGTTATGTCT
 GCACTACTATCGCACTGGTCGCCTGCATGTCTGAGCAGCTCTGTGCGCTCTCCTTTCTCAGGAGATC
 CAGTACTGGGGCAGATGAAGTCAAGTACTGCTGCTGCAGGACAGATACTCAGAAGAAAGGAGC
 TGAGTGAAGTCTTGACTTTAAGAAGGACACAGATGACCAGGAAAGTCAACATGAGAGTGAACAGGACTT
 CTCAAAAGGACCTTGCCACTGTCCGACAAAAGCTCTGGGATATTCTGGAGAACTGGATCTTCCACA
 GCAGCCCGGATCTTTGGAGTAATCTCCATATTTTTGTGGCAGTGTCCATCGTCAACATGGCCCTGATGT
 CAGCTGAGCTTAGCTGGCTCAACCTACAGCTGCTGGAGATCTTGAGATATGTGTGCATCAGCTGGTTCAC
 CGGGGAGTTCTGCTGCTTCCATATGTGTGAAAGACAGGTGCCACTTCTGAGGAAGGTTCCAAACATC
 ATAGACCTCCTTGCCATCTTGCCCTTCTATAAATCTTCTGGTGGAAAGCCTGAGCGGCAGCCACACCA
 CACAAGAGCTGGAAAATGTGGGACGTCTGGTCCAGGTCTTGAGGCTCCTCAGAGCTCTGCCATGCTGAA
 ACTGGGAAGGCATTCTACAGGATTGCGCTCACTGGGATGACAATCACTCAGTGCATGAAGAAGTTGGC
 TCTACTGCTCCTGTTTCTATCTGTGGGATTTCTATATTTTCAACAATAGAATACTTTCAGAGCAAAGCA
 TTCTCTGATACAACCTTCAAGTGTTCCTGTGCATGGTGGTGGCCACAACATCCATGACTACAGTACGTAAG
 ATATGGGACATTAGACCAGACACCACAGGCAAAATCGTGGCCTTCATGTGATTCTGTCAGGAATC
 CTTGTCTTGGCCTTGCCATTGCCATTATAATGATCGATTCTCTGCTTACTTACCTTGAAGTCA
 AGGAAGCAGCTGTGAGACAGCGTGAAGCTCTCAAGAACTTACCAAGAATATAGCCACTGACTCATATAT
 TAGTGTTAACTTGAGGGATGTCTATGCCCGAGCATAATGGAGATGCTTCGATTAAGGGCAGGGAGAGA
 GCAAGTACTAGAAGCAGTGGTGGAGATGATTTCTGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218015 representing NM_026200
 Red=Cloning site Green=Tags(s)

MDLSPNRPLLDSSSLDSGLTSLDSSVFCSEGEPLALGDCFTVNVGGSRFVLSQQALSCFPHTRLGK
 LAVVVASYRRLGALAAAPSPLELCDDANPVDNEYFFDRSSQAFRYVYLHYRTGRLHVMEQLCALSFQEI
 QYWGIDELSIDSCCRDRYFRRKELSETLDFKKDDDDQESQHESEQDFSKGPCPTVRQKLWDILEKPGSST
 AARIFGVISIIIFVAVSIVNMAELSWLNLQLEILEYVCISWFTGEFVLRFLCVKDRCHFRLKVPNI
 IDLLAILPFYITLLVESLSGSHTTQELENVGRVQVLRLLRALRMLKLRHSTGLRSLGMTITQCVEEVG
 LLLLFLSVGISIFSTIEYFAEQSIPDTTFTSVPCAWWATTSMTTVGYGDIRPDTTGTGKIVAFMCLSGI
 LVLALPIAIINDRFSACYFTLKLKEAAVRQREALKLTNIATDSYISVNLRDVYARSIMEMRLKGRER
 ASTRSSGGDDFWF

TRTRPLE - GFP Tag - V

Restriction Sites:

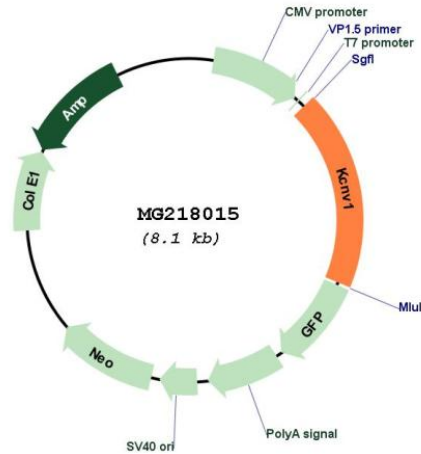
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_026200

ORF Size: 1509 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_026200.3](#), [NP_080476.2](#)

RefSeq Size: 4496 bp

RefSeq ORF: 1512 bp

Locus ID: 67498

UniProt ID: [Q8BZN2](#)

Cytogenetics: 15 B3.3

Gene Summary: Potassium channel subunit that does not form functional channels by itself. Modulates KCNB1 and KCNB2 channel activity by shifting the threshold for inactivation to more negative values and by slowing the rate of inactivation. Can down-regulate the channel activity of KCNB1, KCNB2, KCNC4 and KCND1, possibly by trapping them in intracellular membranes (By similarity).[UniProtKB/Swiss-Prot Function]