

Product datasheet for **RG221094**

KCNU1 (NM_001031836) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNU1 (NM_001031836) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNU1
Synonyms:	KCa5; KCa5.1; Kcnma3; KCNMC1; Slo3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221094 representing NM_001031836 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RG221094 representing NM_001031836
 Red=Cloning site Green=Tags(s)

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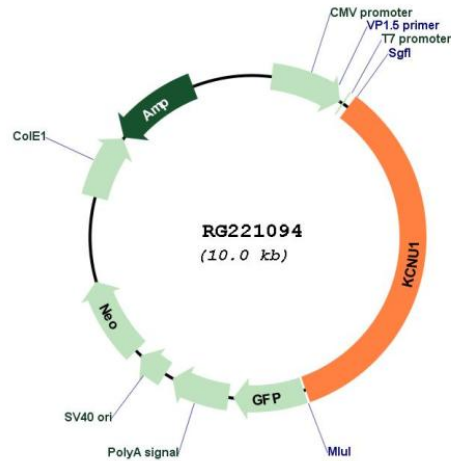
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```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI
Cloning Scheme:



Plasmid Map:



ACCN: NM_001031836

ORF Size: 3447 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_001031836.3](#)

RefSeq Size: 3756 bp

RefSeq ORF: 3450 bp

Locus ID: 157855

UniProt ID: [A8MYU2](#)

Cytogenetics: 8p11.23

Protein Families: Ion Channels: Potassium

Gene Summary: This gene encodes a member of the potassium channel family of proteins. The encoded voltage-gated ion channel allows the outward flow of potassium ions during plasma membrane hyperpolarization in sperm. Opening of this channel may be regulated by calcium ion levels. Homozygous knockout mice that lack the related mouse gene exhibit male sterility. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]