

## Product datasheet for **RG206502**

### KCNE1L (KCNE5) (NM\_012282) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KCNE1L (KCNE5) (NM\_012282) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** KCNE1L  
**Synonyms:** KCNE1L  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG206502 representing NM\_012282  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGTCGACGAGAGCCAGCGGCTGCGAACCCCTTCTGAGCCGCCTGTTGCTCGAGCTGCACCACCGGG  
 GTAATGCCAGCGGCTTGGGCGTGGCCCTCGTCCAGCATGGGCATGGGGTCTGCCTGACCCCTTCGT  
 GGGCCGCGAGGTGACCAGCGCAAGGGCGACGACGCCTATCTCTACATCCTGCTCATCATGATCTTCTAC  
 GCCTGCTTGGCCGAGGCCTCATCCTGGCTACACCCGCTCCCGTAAGCTCGTCGAGGCCAAGGACGAGC  
 CGTCCCAGGCTTGCGCCGAGCACGAATGGGCCCGGGAGGCGCCCTGACCGCCGACGCCGAGGCTGCCGC  
 GGGCTCCCAGGCCGAGGCCGCCAGCTTGCCTCCGAGGGGCTGCCTGCCCTCGCCAGGGCGCTGAG  
 CGGGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG206502 representing NM\_012282  
 Red=Cloning site Green=Tags(s)

MNCSESQRLRTLRSRLLELHHRGNASGLGAGPRPSMGMGVVPDPFVGREVTSAGDDAYLYILLIMIFY  
 ACLAGGLILAYTRSRKLEAKDEPSQACAEHEWAPGGALTADAEAAAGSQAEGRRLASEGLPALAQGAE  
 RV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_012282

**ORF Size:** 426 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\\_012282.4](#)

**RefSeq Size:** 1465 bp

**RefSeq ORF:** 429 bp

**Locus ID:** 23630

**UniProt ID:** [Q9UJ90](#)

<b>Cytogenetics:</b>	Xq23
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other, Transmembrane
<b>Gene Summary:</b>	This gene encodes a member of a family of single pass transmembrane domain proteins that function as ancillary subunits to voltage-gated potassium channels. Members of this family affect diverse processes in potassium channel regulation, including ion selectivity, voltage dependence, and anterograde recycling from the plasma membrane. Variants of this gene are associated with idiopathic ventricular fibrillation and Brugada syndrome. [provided by RefSeq, Nov 2016]

### Product images:



Circular map for RG206502