

Product datasheet for **RG210303**

KCNE3 (NM_005472) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KCNE3 (NM_005472) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KCNE3
Synonyms: BRGDA6; HOKPP; HYPP; MiRP2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG210303 representing NM_005472
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACTACCAATGGAACGGAGACCTGGTATGAGAGCCTGCATGCCGTGCTGAAGGCTCTAAATGCCA
CTCTTCACAGCAATTTGCTCTGCCGGCCAGGGCCAGGGCTGGGGCCAGACAACCAGACTGAAGAGAGGCG
GGCCAGCCTACCTGGCCGTGATGACAACCTACATGTACATTCTTTGTCATGTTTCTATTTGCTGTA
ACTGTGGGCAGCCTCATCTGGGATACACCGCTCCCGCAAAGTGGACAAGCGTAGTGACCCCTATCATG
TGTATATCAAGAACCGTGTGTCTATGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210303 representing NM_005472
Red=Cloning site Green=Tags(s)

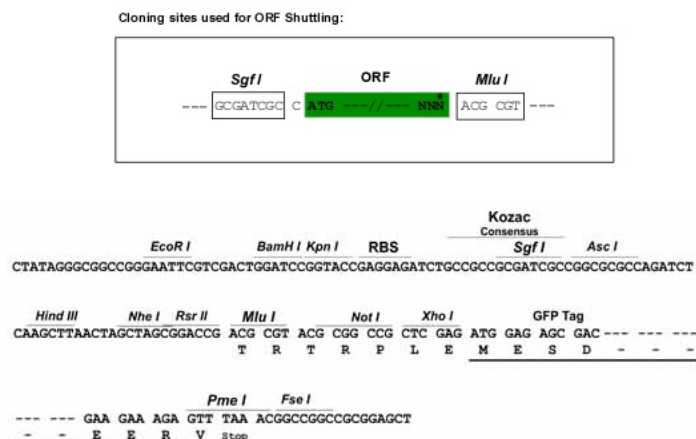
METTNGTETWYESLHVLKALNATLHSNLLCRPGPGLGPDNQTEERRASLPGRDDNSYMYILFVMFLFAV
TVGSLILGYTRSRLKVDKRSDDPYHVIKRVSMI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_005472

ORF Size: 309 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.

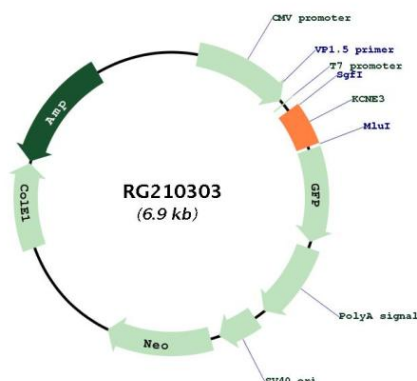
RefSeq: [NM_005472.5](#)

RefSeq Size: 2534 bp

RefSeq ORF: 312 bp

Locus ID:	10008
UniProt ID:	Q9Y6H6
Cytogenetics:	11q13.4
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Gene Summary:	Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a member of the potassium channel, voltage-gated, isk-related subfamily. This member is a type I membrane protein, and a beta subunit that assembles with a potassium channel alpha-subunit to modulate the gating kinetics and enhance stability of the multimeric complex. This gene is prominently expressed in the kidney. A missense mutation in this gene is associated with hypokalemic periodic paralysis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210303