

Product datasheet for **MG201421**

Kcne4 (NM_021342) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcne4 (NM_021342) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Kcne4
Synonyms: AW487937; MiRP3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201421 representing NM_021342
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGAGGATGGAGCCTCTGAACAGCACATACCCAGCGCTGCAGCCTCCAGCAGCCCCCTCGAGTCCC
 ATGTGCCTAGTAACAGCAGTGGTAATGGCAATGAATACTTCTATATTTGGTCGTATGTCCTTCTATGG
 CGTTTTCTGATCGGAATCATGCTGGGCTACATGAAATCCAAGAGCGGGAGAAGAAGTCCAGCCTTCTG
 CTGTTGTACAAAGACGAGGAGAGGCTGTGGGGGAGGCTATGAAGCCGCTACCTATGATGTCGGCTTGA
 GGTCAAGGCGAGTCCCCATGATGCTGAATATGCTGCAGGAGAGTGTGGCGCCGGCACTGTCCTGCACTCT
 TTGCTCGATGGAAGGGGACAGTGTGAGCTCCGAGTCCCTCCTCCTGATGTGCACCTCCCATCCAGGAG
 GAGGGGCTGATGACGAGCTGGAGGAGACCTCCGAGACGCTCTCAACGACAGCAGTGAAGGCTCTTCCG
 AGAACATCCACCAGAATTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201421 representing NM_021342
 Red=Cloning site Green=Tags(s)

MLRMEPLNSTYPSAAASSSPLESHVPSNSSNGNEYFYILVVMSEFYGVFLIGIMLGYMKSRRREKSSLL
 LLYKDEERLWGEAMKPLPMSGLRSGQVPMMLNMLQESVAPALSCTLCSMEGDSVSSSESSPDVHLPIQE
 EGADDELEETSETPLNDSSEGSSSENIHQNS

TRTRPLE - GFP Tag - V

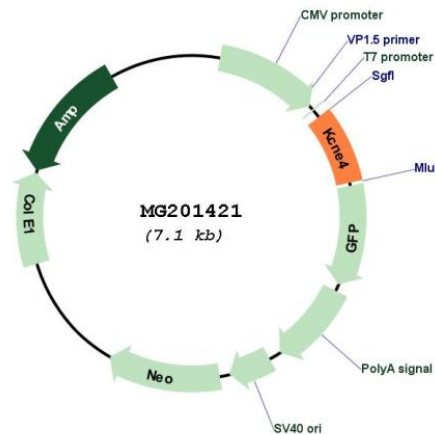
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_021342

ORF Size: 510 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:	<ol style="list-style-type: none">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:	<u>NM_021342.2</u>
RefSeq Size:	2487 bp
RefSeq ORF:	513 bp
Locus ID:	57814
UniProt ID:	<u>Q9WTW3</u>
Cytogenetics:	1 C4
Gene Summary:	Ancillary protein that assembles as a beta subunit with a voltage-gated potassium channel complex of pore-forming alpha subunits. Modulates the gating kinetics and enhances stability of the channel complex. Associated with KCNQ1/KVLTQ1 inhibits potassium current (By similarity).[UniProtKB/Swiss-Prot Function]