Datasheet for ABIN4928238

Human KCNJ18 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	KCNJ18
Species:	Human
Fusion tag:	DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PExp)

Product Details

Purpose:	Expression/transfection ready cDNA ORF clone of Human KCNJ18 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1302 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGACCGCGG CCAGCCGGGC CAACCCCTAC AGCATCGTGT CATTGGAGGA GGACGGGCTG CACCTGGTCA CCATGTCGGG CGCCAACGGC TTCGGCAACG GCAAGGTGCA CACGCGGCGC AGGTGCCGCA ACCGCTTCGT CAAGAAGAAT GGCCAGTGCA ACATTGCGTT CGCCAACATG GACGAGAAGT CACAGCGCTA CCTGGCTGAC ATGTTCACCA CCTGTGTGGA CATCCGCTGG CGCTACATGC TGCTCATCTT CTCGCTGGCC TTCCTTGCCT CCTGGCTGCT GTTCGGCGTC

Product Details

	ATCTTCTGGG TCATCGCGGT GGCACACGGT GACCTGGAGC CGGCTGAGGG CCACGGCCGC ACACCCTGTG TGATGCAGGT GCACGGCTTC ATGGCGGCCT TCCTCTTCTC CATCGAGACG CAGACCACCA TCGGCTACGG GCTGCGCTGT GTGACGGAGG AGTGCCTGGT GGCCGTCTTC ATGGTGGTGG CCCAGTCCAT CGTGGGCTGC ATCATCGACT CCTTCATGAT TGGTGCCATC ATGGCCAAGA TGGCAAGGCC CAAGAAGCGG GCACAGACGC TGCTGTTCAG CCACAACGCC GTGGTGGCCC TGCGTGACGG CAAGCTCTGC CTCATGTGGC GTGTGGGCAA CCTGCGCAAG AGCCACATTG TGGAGGCCCA TGTGCGCGCG CAGCTCATCA AGCCGCGGGT CACCGAGGAG GGCGAGTACA TCCCGCTGGA CCAGATCGAC ATCGATGTGG GCTTCGACAA GGGCCTGGAC CGCATCTTTC TGGTGTCGCC CATCACCATC TTGCATGAAA TTGACGAGGC CAGCCCGCTC TTCGGCATCA GCCGGCAGGA CCTGGAGACG GACGACTTTG AGATCGTGGT CATCCTGGAA GGCATGGTGG AGGCCACAGC CATGACCACC CAGGCCCGCA GCTCCTACCT GGCCAATGAG ATCCTGTGGG GTCACCGCTT TGAGCCCGTG CTCTTCGAGG AGAAGAACCA GTACAAGATT GACTACTCGC ACTTCCACAA GACCTATGAG GTGCCCTCTA CGCCCCGCTG CAGTGCGAAG GATCTGGTAG AGAACAAGTT CCTGCTGCCC AGTGCCAACT CCTTCTGCTA TGAGAACGAG CTGGCCTTCC TGAGCCGTGA CGAGGAGGAT GAGGCGGACG GAGACCAGGA CGGCCGAAGC CGGGATGGCC TCAGCCCCCA GGCCAGGCAT GACTTTGACA GACTCCAGGC TGGCGGCGGG GTCCTGGAGC AGCGGCCCTA CAGACGGGGG TCAGAGATCT GA
Specificity:	ORF Insert Method: CloneEZ® Seamless cloning technology, recombination-based cloning technology
Characteristics:	Gene cDNA ORF clone sequences were retrieved from the NCBI Reference Sequence Database (RefSeq). These sequences represent the protein coding region of the gene cDNA ORF which is encoded by the open reading frame (ORF) sequence.
Sequencing Primer:	• Forward primer: 5'-TAATACGACTCACTATAGGG-3' • Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'
Grade:	End-sequenced
Components:	The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

Target Details

Gene:	KCNJ18
Alternative Name:	KCNJ18 (KCNJ18 Products)
Background:	This gene encodes a member of the inwardly rectifying potassium channel family. Transcription of this locus is regulated by thyroid hormone, and the encoded protein plays a role in resting membrane potential maintenance. Mutations in this locus have been associated

Target Details

	with thyrotoxic hypokalemic periodic paralysis. [provided by RefSeq, Jan 2013].
Gene ID:	100134444
NCBI Accession:	NM_001194958

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Storage:	RT/-20 °C
Storage Comment:	• Keep the vial sealed and store at -20°C for long-term storage. • Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C. • Open the lid and add 100 µl (or other volume depending on your desired final concentration) of distilled water (or TE buffer) to dissolve the DNA. • If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA. • Close the lid and vortex the vial for 1 minute. • Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.
Expiry Date:	12 months

Publications

Product cited in:	Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)