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Product datasheet for MR222382

Kcne3 (NM_001190871) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcne3 (NM_001190871) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcne3
Synonyms:	2210017H05Rik; MiRP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222382 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGACTTCCAACGGGACTGAGACCTGGTACATGAGCCTCCATGCTGTGCTGAAGGCTCTGAACACAA CCCTTCACAGTCACTTGCTCTGCCGGCCTGGGCCAGGACCAGGGCCAGACAATCAAACTGAGGATCGTCG GGCTAGCCTTCCTGGTCGTAATGACAACTCCTACATGTATATTCTCTTTGTCATGTTCCTATTTGCCGTC ACTGTGGGCAGTCTCATCCTGGGATATACCCGTTCACGCAAAGTGGACAAACGTAGTGACCCCTATCATG TGTACATCAAGAACCGTGTGTCTATGATC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR222382 protein sequence Red=Cloning site Green=Tags(s) METSNGTETWYMSLHAVLKALNTTLHSHLLCRPGPGPGPDNQTEDRRASLPGRNDNSYMYILFVMFLFAV TVGSLILGYTRSRKVDKRSDPYHVYIKNRVSMI TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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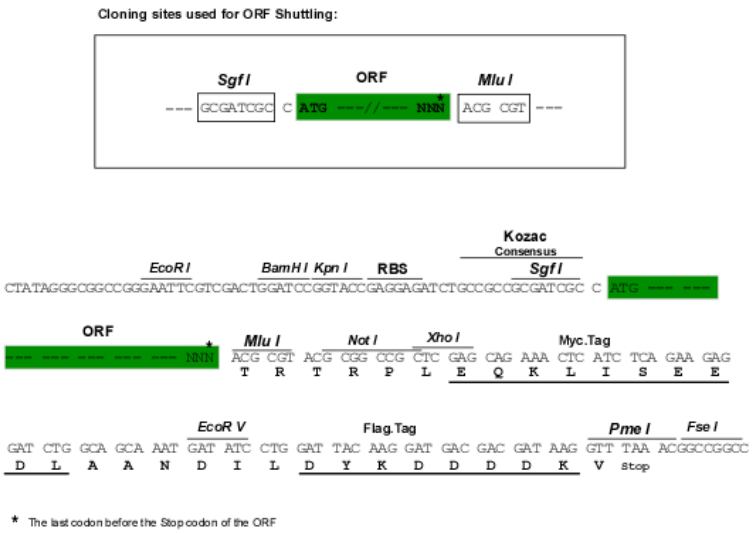
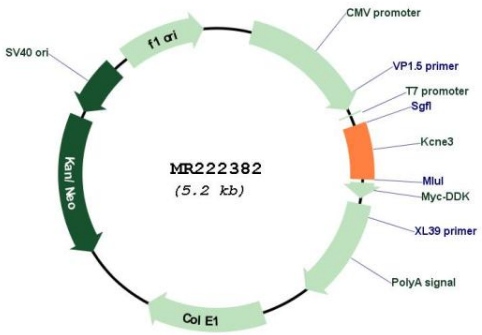
Cloning Scheme:



ACCN:	NM_001190871
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001190871.2, NP_001177800.1
RefSeq Size:	1097 bp

RefSeq ORF:	312 bp
Locus ID:	57442
UniProt ID:	Q9WTW2
Cytogenetics:	7 E2
MW:	11.7 kDa
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. Assembled with KCNB1 modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1. Associated with KCNC4/Kv3.4 is proposed to form the subthreshold voltage-gated potassium channel in skeletal muscle and to establish the resting membrane potential (RMP) in muscle cells. Associated with KCNQ1/KCLQT1 may form the intestinal cAMP-stimulated potassium channel involved in chloride secretion that produces a current with nearly instantaneous activation with a linear current-voltage relationship.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222382