

Product datasheet for MR206299

Kcnab1 (NM_010597) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Kcnab1 (NM_010597) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnab1
Synonyms:	Akr8a8; Kvbeta1.1; mKv(beta)1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206299 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

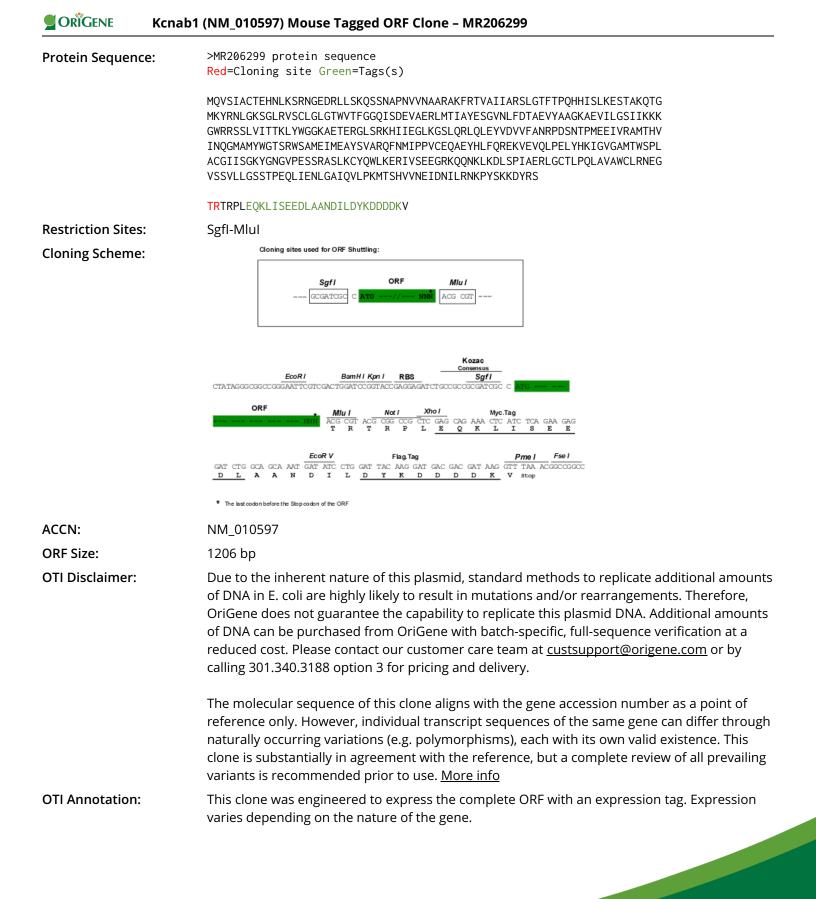
ATGCAAGTCTCCATAGCCTGCACAGAGCACAATTTGAAGAGTCGAAATGGTGAGGACCGACTTCTGAGCA AGCAGAGCTCCAACGCCCCCAATGTGGTGAACGCAGCCCGGGCCAAATTCCGCACTGTCGCTATCATCGC TCGCAGCCTGGGGACCTTCACCCCTCAGCATCACATTTCTCTCAAAGAGTCCACCGCAAAGCAGACTGGC ATGAAATATAGGAATCTTGGGAAATCAGGACTCAGAGTTTCATGCTTGGGTCTTGGAACATGGGTGACAT TTGGAGGTCAAATCTCAGATGAGGTTGCTGAACGGCTGATGACAATTGCCTACGAAAGTGGAGTTAATCT CTTCGACACAGCTGAGGTCTATGCTGCTGGGAAGGCTGAGGTGATTCTGGGAAGCATCATCAAGAAGAAA GGCTGGAGGAGGTCCAGCTTGGTCATCACCAAACCTAACTCTACTGGGGTGGAAAAGCTGAGACAGAAAGGG TGTGGTCTTTGCAAATCGCCCAGACAGCAACACTCCCATGGAAGAAATCGTTCGAGCCATGACGCACGTG ATCAACCAAGGCATGGCCATGTACTGGGGGCACCTCGAGGTGGAGCGCGATGGAGATCATGGAAGCCTACT CTGTCGCACGGCAGTTCAACATGATCCCGCCTGTCTGTGAGCAAGCTGAGTACCATCTTTTCCAGAGAGA GAAGGTGGAGGTCCAGCTGCCGGAGCTCTACCATAAAATAGGAGTTGGTGCAATGACATGGTCTCCACTT GCTTGTGGAATTATTTCAGGAAAATATGGAAATGGGGTGCCAGAAAGTTCTAGAGCTTCACTGAAGTGCT ACCAGTGGTTGAAGGAAAGAATCGTAAGTGAAGAAGGGAGAAAACAGCAAAACAAGCTGAAAGACCTCTC GTGAGTTCTGTGCTCCTGGGATCATCCACTCCGGAACAACTCATTGAAAACCTTGGTGCCATTCAGGTCC TCCCTAAGATGACATCTCACGTGGTGAACGAGATTGATAACATACTGCGCAACAAGCCCTACAGCAAAAA **GGACTATAGATCA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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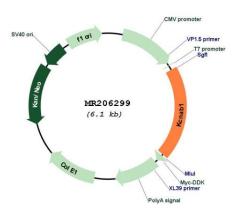


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Sevent Sevent Constant (NM_010597) Mouse Tagged ORF Clone – MR206299	
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Metho	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 010597.5</u>
RefSeq Size:	3267 bp
RefSeq ORF:	1206 bp
Locus ID:	16497
UniProt ID:	<u>P63143</u>
Cytogenetics:	3 30.15 cM
MW:	44.7 kDa
Gene Summary:	 Cytoplasmic potassium channel subunit that modulates the characteristics of the channel-forming alpha-subunits (PubMed:10454353). Modulates action potentials via its effect on the pore-forming alpha subunits (PubMed:10454353). Promotes expression of the pore-forming alpha subunits at the cell membrane, and thereby increases channel activity (PubMed:8824288). Mediates closure of delayed rectifier potassium channels by physically obstructing the pore via its N-terminal domain and increases the speed of channel closure for other family members (By similarity). Promotes the closure of KCNA1, KCNA2 and KCNA5 channels (By similarity). Accelerates KCNA4 channel closure (By similarity). Accelerates the closure of heteromeric channels formed by KCNA1 and KCNA4 (By similarity). Accelerates the closure of heteromeric channels formed by KCNA2, KCNA5 and KCNA6 (By similarity). Enhances KCNB1 and KCNB2 channel activity (PubMed:8824288). Binds NADPH; this is required for efficient down-regulation of potassium channel activity (By similarity). Has NADPH-dependent aldoketoreductase activity (By similarity). Oxidation of the bound NADPH strongly decreases N-type inactivation of potassium channel activity (By similarity).

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Product images:



Circular map for MR206299

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