

Product datasheet for **MC227897**

Kcns2 (NM_001271704) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcns2 (NM_001271704) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcns2
Synonyms:	E130006J24Rik; Kv9.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC227897 representing NM_001271704
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCGCCAGAGCCTGTGGGATGTGTCCGATACCGACGTCGAGGATGGAGAGATCCGCATCAATGTGG
 GTGGCTTCAAGAGACGGCTGCGTTCATACGCTGCTGCGCTCCCTGAGACACGCCTGGGCCGCTGCT
 CCTCTGCCACTCGCGAGAGGCCATTCTGGAACCTGCGATGACTACGATGACGTTACGCGTGAGTCTAC
 TTCGACCGTAACCCCGAGCTCTCCCTATGTGTTGCATTTCTACCACACCGCAAGCTTACGTCATGG
 CTGAGCTGTGCGTCTTCTCCTCAGCCAGGAGATCGAGTACTGGGGTATCAATGAGTTTTCATCGACTC
 TTGCTGCAGCTATAGCTATCACGGCCGAAAGTGAACCTGAGCAGGAGAAATGGGACGAGCAGAGTGAC
 CAGGAAAGCACCCTTCTCCTTCGATGAGATCTTGGCCTTCTATAATGATGCTTCCAAGTTCGATGGGC
 AACCCCTGGGCAACTCCCGCAGGACGCTGTGGCTGGCGTTGGACAACCCAGGCTACTCAGTCCTAAGCAG
 GGTCTTCACTGTCCTTTCCATCTTGGTGGTGTGGGCTCCATCATCACCATGTGCCTCAATAGCCTGCCA
 GACTTCCAAATCCCTGATAGCCAGGTAACCCCGTGAAGACCCAGGTTTCGAAATGTGGAGCACTTTG
 GCATTGCTTGGTTCACATTTGAGTTGGTGGCCAGGTTTGTGTGGCCCTGACTTTCTTAAAGTTCTCAA
 GAATGCTCTAAACCTTATTGATCTCATGTCCATTTGCCATTTTACATAACTCTAGTGGTGAACCTGGT
 GTGGAGAGTTCTCCTACCTTGGCTAACTTGGGCAGGGTGGCTCAAGTCTGAGGCTAATGAGGATCTTCC
 GAATTCTCAAGCTGGCCAGACACTCCACTGGCCTCCGCTCCTTGGGAGCCACCCTGAAGTACAGTACAA
 GGAAGTGGGGTTGCTCTTGTCTACCTCTCAGTGGGGATTTCCATCTTCTGTGGTGGCCTACACCATT
 GAAAAGGAGGAGAACGAAGGCCCTGGCCACCATCCCTGCCTGCTGGTGGTGGGCCACTGTCAGTATGACCA
 CAGTTGGGTACGGAGATGTGGTCCAGGGACAACAGCTGGGAAGTTGACTGCCTCTGCATCTTGGC
 AGGCATCCTGGTGGTCTTGGCCATCACTTTGATCTTCAATAAGTTCTCCATTCTATCGGCGCCAA
 AAGCAACTTGAGAGTGCTATGCGCAGCTGTGACTTTGGAGATGGAATGAAAGAGGTCCCTTCGGTCAATT
 TAAGGGACTACTATGCTCATAAAGTTAAGTCCCTCATGGCAAGTCTGACAAACATGAGTAGGAGTTCACC
 TAGTGAAGTGGTTAGATGATTCTCTACAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001271704
- Insert Size:** 1434 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001271704.1</u> , <u>NP_001258633.1</u>
RefSeq Size:	5105 bp
RefSeq ORF:	1434 bp
Locus ID:	16539
UniProt ID:	<u>O35174</u>
Cytogenetics:	15 B3.1
Gene Summary:	<p>Potassium channel subunit that does not form functional channels by itself. Can form functional heterotetrameric channels with KCNB1 and KCNB2; modulates the delayed rectifier voltage-gated potassium channel activation and deactivation rates of KCNB1 and KCNB2 (PubMed:9305895).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.</p>