

Product datasheet for **MC223642**

Kcnu1 (NM_008432) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnu1 (NM_008432) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kcnu1
Synonyms: Kcnma3; mSlo3; Slo3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223642 representing NM_008432
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCTCAAACATTGCTAGACAGTTTAAATCAGAAGGAGTTGACGAAACGTCATGTACAATCGAAATCC
AGGCAGCGTTCATTCTTTCCTCCTTGCGACTTCTTCGGGGACTCATCATCTTATTCTTTTCAGAAT
AGCCTTGAAAAGCTCAAGAAGTTGGAAATACGTCAAGGGGCCAAGAGGACTCTTGAAGTATTCTCATCA
CGTAGAATCGAGGCTAATCCTTTGAGGAACTTTACTTTCATGGAGTATTTGTCAGCGCATCGAAATGC
TGCTTCTGCACAGACCGTCGTGGGGCAAGTGTGGTGATCCTTGTCTTTGTAAGCATCGGGTCTCT
TGTGATCTATTTCAATCAATTCAATGGATCCTGTTGGAAGGTGTTCTTCATATGAAGACAAAATTGTCAT
GTGGATTTGAGTTTCAACGCTTCTTTAGCTTCTATTTTGGGTTGAGTTTTGGGCAGCTGAAGACAAGA
TCAAGTTCTGGTTGGAGATGAATTCAATTGTAGACATTTTACCATCCCGCCAACCTTTATTTCTTATTA
TTTGAAGAGTAATTGGCTAGGTTTGAGATTTCTAAGAGCTCTGCGGTTGCTCGAACTCCCTAAAATCTTA
CAGATCCTACAAGTCATCAAGACCAGCAATTCAAGTGAAGCTTCCAAACTGTTGTCAATAGTTATCAGTA
CCTGGTTCACGGCAGCAGGATTCCTTACCTGGTGGAAAATTCTGGTGACCCCTGGCTCAACGGAAGAAA
CTCACAGACTATGTCATACTTTGAGTCTATTTATCTGGTGACAGCAACAATGTCAACTGTTGGCTTTGGG
GACGTGGTGGCCAAGACATCCCTAGGACGATTTTCATTGTTTTCTTACCCTTGGGAGTTTGATACTAT
TTGCAAACTACATTCCAGAAATGGTGGAGCTCTTTTCTACCAGGAAGAAATACACCAAGCCCTACGAAGC
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AATTTTCTCCACTGGAAGTCCGGGAAAATCAATATTGAGATCGTATTCTTGGAGAGACTCTCCCTTGCT
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CGAGGATCTGAAGCGAGTTGCAGTGGAGAACTCGGAGGCGTGCCTGATTCTAGCCAACCATTTCTGTAGT
GACTTACATGACGAAGACAACCTCAAACATTATGAGGGTGTCTCGATCAAGAAGTATTATCCACAGACCA
GAGTCATCATTAGATACCTCAGTCTCAAACAAGTTTTCTGTCAAAAATCCCAACTGGGACTGGAG
TGCTGGAGACAATATCCTCTGCTTTGCAGAGCTAAAGCTCGGATTTATCGCCCAAGGCTGCTTGGTGCCA
GGGCTGTGCACCTTTCTCAGACTCTGTTTCATTGAACAAAACAAAAGGTTTTCTTAAACATCCCTGGC



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AAAAACATTTCTTGAATGGCTTGAAGAACAAGATTCTGACACAGCGCCTCTCTAACGACTTCGTGGGGAT
GACATTTCCCGAGTCTCCCGGCTCTGCTTTGTGAAGCTAAATCTCATGCTGATCGCCATCCAACACAAG
CCCTTCTTTACAGTTGTTGCACTCTGATACTAAACCCATCATCCCAAGTGAGGCTGAATAAGGACACCT
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CGATGTGTGCAATCCTGAGCTAATTGAAAAGTGAAGTGTAAAATCAAGAGCCGACAACAACATCATAGCA
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GACAAACGACACAGTGGATGATACCGACATGCTGGACAGCAGTGGCATGTTTCACTGGTGCAGAGCAATG
CCCTTGGACAAGGTGGTTCTGAAACGAAGTGAGAAGGCAAAACACGAGTTTCAGAACCACATTGTAGTAT
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TCTTCAAAGTCAAGTAAAGCCATCATCTGCCTTTGATAGTAAAGAAAGGAAGCAAAGTACAAACAGA
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AATGCTCAAAGGGACTAGCTTGCATCTCAGCACTTCTTTCTCCACCGGTGCTGTCTTTTCAGACACCTTC
TTGGATTCTCTCGCCACGTCCTTCTACAATTACCATGTGCTGGAAATTAAGTTCAGATGCTAGTACTG
GAGGCATAAGCTCTGAGATGGAACACTATTTGGTTAAGGAGAAGCCCTATAAGACAACACTGACGACTATGA
GGCAATCAAGTCTGGGAGGACGCGGTGTAAGCTGGGACTCCTCTTTAGACCAACCGTTCTATCAGGC
ATTAATCCAAGAAAACCTTTGGACAGCTGTTCTGTGGCTCATTGGATAATTTCCGGATCCTATGTGTGC
GCTTATACCGTATGATTGATGAAGAGGAACCCAGCCAAGAACAACAAAAGTTTGTGATCACCAGGCCATC
CAATGAGTGCCACCTGCTGCCCTCAGATCTCGTGTGTTTGTGCCATCCCTTCAACACCACCTGTGGCAA
TCAGACAGCAGTCTTCAATTCAGGCTCAAACAACACTTACAAACGCGACGACGCCATTGGCCAGGGGT
CGAATTTCTCGATTGACCATGCCGACGAGTCCACGATCTTTACCCAGTCCGACGACGCGGAGAGAG
GTGGTCTCAGCACCACCTCCCGAGTCTATCCTTTGGACACGTTAGATGCCAGTATTTGTTCAAGAA
AAATAA

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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_008432
- Insert Size:** 3366 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).
- 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.

RefSeq: [NM_008432.3](#), [NP_032458.3](#)

RefSeq Size: 3548 bp

RefSeq ORF: 3366 bp

Locus ID: 16532

UniProt ID: [O54982](#)

Cytogenetics: 8 A2

Gene Summary: Testis-specific potassium channel activated by both intracellular pH and membrane voltage that mediates export of K(+). Represents the primary spermatozoan K(+) current. In contrast to KCNMA1/SLO1, it is not activated by Ca(2+) or Mg(2+). Critical for fertility. May play an important role in sperm osmoregulation required for the acquisition of normal morphology and motility when faced with osmotic challenges, such as those experienced after mixing with seminal fluid and entry into the vagina.[UniProtKB/Swiss-Prot Function]