

Product datasheet for **MC223566**

Kcnh8 (NM_001031811) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnh8 (NM_001031811) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kcnh8
Synonyms: C130090D05Rik; ELK; ELK1; ELK3; Kv12.1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223566 representing NM_001031811
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCGGTTATGAAAGGATTACTGGCGCCACAGAACACCTTCTGGACACTATTGCCACCCGTTTCGACG
GAACACATAGCAACTTCATCCTGGCCAATGCCAAGTGGCAAAGGGTTTCCCATAGTCTACTGTTCCAGA
TGGCTTCTGTGAGCTGGCCGGGTTTGCACGAAGTGAAGTCAAGAGAGAGCTGCAGCTGCAAGTTTTTG
TTTGGGTGGAGACCAACGAGCAGCTGATGCTTCAGATAGAAAAGTCCCTGGAGGAGAAAGTAGAATTC
AAGGAGAAATTATGTTCTACAAGAAGAATGGGGCTCCATTTTGGTGCCTGCTGGATATCGTTCTATAAAA
GAATGAGAAAGGAGATGTAGTCCTTTCTGGCCTCATTCAAAGACATAACAGACACGAAAGTGAAGATT
ACATCAGAAGATAAAAAAGAAGACAGAACCAAAGGAAGATCAAGAGCAGGGAGCCACTTTGACTCAGCCC
GGAGACGGAGCCGAGCCGTCCTTTATCACATCTCAGGACACCTTCAAAGAAGAGAAAAGAACAAATTGAA
AATAAATAAACGTGTTGTAGATAAACCAGCGTTTCCAGAGTATAAGGTTTCTGATGCAAAAAAGTCC
AAGTTCATCCTGCTGCATTTCAGCACTTCAAAGCTGGCTGGACTGGCTCATTTTGGTGGCAACGTTTT
ATGTTGCTGTGACAGTCCCTTACAATGTGTGTTTCATTGGCAATGAGGACCTGTCACCACCTCGGAGCAC
AACGGTCAGTGACATTGCAGTGGAGATACTGTTTATTATAGATATTATTCTAAATTTCCGAACAATTAT
GTCAGCAAGTCTGGCCAAGTTATCTTTGAAGCGAGATCCATTTGCATTCCTACGTCACCACTGCTGTTCA
TCATTGATCTGATTGCTGCCTTGCCTTTGACCTCCTGTATGCTTTCAATGTCACAGTGGTGTCCCTCGT
TCATCTCCTGAAGACTGTTGGCTGCTGCTGCTTTTGGCCTCCTCCAGAAGCTGGACCGTTATTCTCAG
CACAGTACCATCGTCTCACCCTGCTCATGTCCATGTTTGGTCTCCTTGCACACTGGATGGCATGTATCT
GGTATGTCATTGGAAAAATGGAGAGGGAGGACAACAGCCTTCTCAAGTGGGAAGTCGGTTGGCTTCATGA
GCTGGGAAGAGACTGGAATCTCCATATTATGGCAACAACACGCTGGGGGGCCCATCCATCCGAAGTGCC
TATATTGGGCCCTGTACTTCACTCTCAGCAGCCTCACAAGCGTTGGGTTTGGGAATGTGTCTGCTAACA
CAGATGCAGAGAAGATCTTCTCCATCTGCACCATGCTGATTGGAGCCCTGATGCATGCCTTAGTATTTGG
GAACGTGACTGCCATCATACAGAGAATGTACTCTAGATGGAGCCTGTACCACACTAGAACCAAGGACCTA
AAAGACTTCATCCGTGTGCACCACCTGCCCCAGCAACTCAAGCAGAGGATGCTCGAGTACTTTCAGACAA



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CTTGGTCAGTCAACAATGGGATAGATTCAAATGAGCTTTTAAAAGACTTTCCAGATGAGCTGCGCTCTGA
CATCACAATGCATCTGAACAAGGAGATCTTACAGCTGTCCCTGTTTGAATGTGCCAGCCGGGGCTGCCTC
AGGTCTCTGTCTCCATATTAACCTCCTTTTGTGCTCCAGGAGAGTATCTGCTGCGCCAGGGGGATG
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TGAGAGTGATGTAATATCAAGATTATCGAACAAATCTACAGTCTCACAGGCAGAGCCCAAGGGGAATGGA
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CCTCCCTTTCTCTATCTACACAAGGGGATCCTCTGTCTCACATAGCAAAAAGACTGGAAGCAATAAGAC
CTATCTAGGCTTGAGCTTAAAGCAACTGGCCTCAGGAACGGTACCATTCCACTCACCTATCAGAGTCTCC
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TGAAAGTGCAGCTTCCAGCCTGGGTAGTGTGGAACCCAGAGCTTAGTCCAAGGATTGTTGATGGAAT
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AGGATTTCCCTCCCTGCAGAATCCGAGATCGGAGTGCCTTTCTGTTTCAAGGCTGAAGAAACCA
AGCAGCAGATTAACAAGCTCAACAGTGAGGTCAACATTAAGTCAAGGAGTTTCCAGCTAGGGAGAGA
TATGAGAAGCATCATGCAACTTCTGAAAAACATCTTGTCACCTCAGCAGCCATCCAGTTTTGTTCTCTA
CATCCCACCCCAATGTGTCTTCCAGAGAAAGTTTACAGACTAGGGTGAGTTGGAGTGCTCACCAGCCTT
GCCTACATTTGCAGGCAGGTGGAGCACATCTTTACCATGGTAATGTGCGCTCTGGTATCTGGAGTGTGA
TCCATCCTTGGTGGGCAGCAGCCCTCAACGAAGTGAAGCTCACAGAGCAAAACCCAGCAGACAGTGAACCT
CATCATTCTCAAACCTGGATTATCTCCATCCCACTGCCAGGTTATCCAAGAAGGCCACTTGCAGTTC
TGAGGTGCATCTCCCCCATTAGATACCACACTGACACCTTTGAGTCCATCTCTGCCACTCTCTCATC
TTCTGTGTGCTCCTCATCAGAAACATCCTTGACCTGGTTCTCCAAGTAGGTGAGGAGGAGGAGCAGCATC
ACTCACGGACCGGTGAGTCTTTTCAAGTTTGGAAAACCTTACCAGGCTCTTGGGACCGAGAACAATGATGT
CAGCCTTTCAGAACGCTTGGAGAATTTCCAGTAGAAGTTGTCACAAGCACAGCGGATGTAAGGACAG
CAAAGCCATAACGTAATA
    
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001031811
- Insert Size:** 3309 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_001031811.2](#), [NP_001026981.2](#)

RefSeq Size: 4305 bp

RefSeq ORF: 3309 bp

Locus ID: 211468

UniProt ID: [P59111](#)

Cytogenetics: 17 C

Gene Summary: Pore-forming (alpha) subunit of voltage-gated potassium channel. Elicits a slowly activating, outward rectifying current (By similarity). Channel properties may be modulated by cAMP and subunit assembly (By similarity).[UniProtKB/Swiss-Prot Function]