

Product datasheet for **MG216784**

Kcnh8 (NM_001031811) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnh8 (NM_001031811) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kcnh8
Synonyms:	C130090D05Rik; ELK; ELK1; ELK3; Kv12.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216784 representing NM_001031811 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGTTATGAAAGGATTACTGGCGCCACAGAACACCTTCCTGGACACTATTGCCACCCGTTTCGACG
GAACACATAGCAACTTCATCCTGGCCAATGCCAAGTGGCAAAGGGTTCCCATAGTCTACTGTTCCAGA
TGGCTTCTGTGAGCTGGCCGGTTTGCACGAAGTGAAGTGCAGAAAGAGCTGCAGCTGCAAGTTTTTG
TTGGGGTGGAGACCAACGAGCAGCTGATGCTTCAGATAGAAAAGTCCCTGGAGGAGAAAGTAGAATTCA
AAGGAGAAATTATGTTCTACAAGAAGAATGGGGTCCATTTTGGTGCCTGCTGGATATCGTTCCTATAAA
GAATGAGAAAGGAGATGTAGTCCTTTCCCTGGCCTCATTCAAAGACATAACAGACACGAAAGTGAAGATT
ACATCAGAAGATAAAAAAGAAGACAGAACCAAAGGAAGATCAAGAGCAGGGAGCCACTTTGACTCAGCCC
GGAGACGGAGCCGAGCCGTCCTTTATCACATCTCAGGACACCTTCAAAGAAGAGAAAAAGAACAAATTGAA
AATAAATAATAACGTGTTGTAGATAAACCAGCGTTTCCAGAGTATAAGGTTTCTGATGCAAAAAAGTCC
AAGTTCATCCTGCTGCATTTCAGCACTTCAAAGCTGGCTGGGACTGGCTCATTTTGGTGGCAACGTTTT
ATGTTGCTGTGACAGTCCCTTACAATGTGTGTTTCATTGGCAATGAGGACCTGTCCACCACTCGGAGCAC
AACGGTCAGTGACATTGCAGTGGAGATACTGTTCAATTATAGATATTATTCTAAATTTCCGAACAACATTAT
GTCAGCAAGTCTGGCCAAGTTATCTTTGAAGCGAGATCCATTTGCATTCACTCAGTCCACCACTGGTTCA
TCATTGATCTGATTGCTGCCTTGCCTTTGACCTCCTGTATGCTTTCAATGTCACAGTGGTGTCCCTCGT
TCATCTCTGAAGACTGTTGGGCTGCTGCGCTTTTGGCGCTCCTCCAGAAGCTGGACCGTTATTCTCAG
CACAGTACCATCGTCTCACCCCTGCTCATGTCCATGTTTGGTCTCCTTGCACACTGGATGGCATGTATCT
GGTATGTCATTGGAAAAATGGAGAGGGAGGACAACAGCCTTCTCAAGTGGGAAGTCGGTTGGCTTCATGA
GCTGGGGAAGAGACTGGAATCTCCATATTATGGCAACAACACGCTGGGGGGCCATCCATCCGAAGTGCC
TATATTGGGCCCTGTACTTCACTCTCAGCAGCCTCACAAGCGTTGGGTTTGGGAATGTGTCTGCTAACA
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GAACGTGACTGCCATCATACAGAGAATGTACTCTAGATGGAGCCTGTACCACACTAGAACCAAGGACCTA



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AAAGACTTCATCCGTGTGCACCACCTGCCCCAGCAACTCAAGCAGAGGATGCTCGAGTACTTTTCAGACAA
 CTTGGTCAGTCAACAATGGGATAGATTCAAATGAGCTTTTAAAAGACTTTCCAGATGAGCTGCGCTCTGA
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 CCTCCCTTTCTCTATCTACACAAGGGATCCTCTGTCTCACATAGCAAAAAGACTGGAAGCAATAAGAC
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 AGTGCCAACTCCCCTAAAACCAAGCAGGAAGCTGACCCACCTAACATGGTAGAAAGAAAGAGAAGAACC
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 AGGATTTCCCCTCCCCTTGCAGAATCCGAGATCGGAGCTGCGTTTCTGTTTCATCAAGGCTGAAGAAACCA
 AGCAGCAGATTAACAAGCTCAACAGTGAAGTCAACAATTAAGTCAAGGAGTTTCCCAGCTAGGGAGAGA
 TATGAGAAGCATCATGCAACTTCTGAAAAACATCTTGTCACTCAGCAGCCATCCCAGTTTTGTTCTCTA
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 TCCATCCTTGGTGGCAGCAGCCCTCAACGAAGTGAAGCTCAGAGCAAAAACCCAGCAGACAGTGAAGT
 CATCATTCTCAAACCTGGATTATCTCCATCCCAGTCCAGGTTATCCAAGAAGGCCACTTGCAGTCTCC
 TGAGGTGCATCTCCCCCATTAGATACCACACTGACACCTTTGCAGTCCATCTCTGCCACTCTCATC
 TTCTGTGTGCTCCTCATCAGAAACATCCTTGCACCTGGTTCTCCAAGTAGGTGAGGAGGAGGAGCATC
 ACTCACGACCGGTGAGTCTTTTCAAGTTTGGAAAACCTACCAGGCTCTTGGGACCAGAAACAAATGATG
 CAGCCTCTTCAAGCCTTGGAGAACTTCCAGTAGAAGTTGTCACAAGCACAGCGGATGTAAGGACAG
 CAAAGCCATAAACGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216784 representing NM_001031811
 Red=Cloning site Green=Tags(s)

MPVMKGLLAPQNTFLDTIATRFDGTHSNFILANAQVAKGFPIVYCSDFCELAGFARTEVMQKSCSCKFL
 FGVETNEQLMLQIEKSLEEKVEFKGEIMFYKKNAPFWCLLDIVPIKNEKGDVVLFLASFKDITDKVKI
 TSEDKKEDRTKGRSRAGSHFDSARRRSRAVLYHISGHLQRREKNLKLINNVFVDKPAFPEYKVSADAKS
 KFILLHFSTFKAGWDWILLLATFYVAVTVPYNVCFIGNEDLSTTRSTTVSDIAVEILFIIDIIILNFRTTY
 VSKSGQVIFEARSICIHVYVTTWFIIDLIAALPFDLLYAFNVTVVSLVHLLKTVRLLRLLRLLQKLD RYSQ
 HSTIVLTLLMSMFAALLAHWMACIYWYVIGKMEREDNSLLKWEVWGLHELKRLSPYGNNTLGGPSIRSA
 YIAALYFTLSSLTSVGFGNVSANTDAEKIFSICTMLIGALMHALVFGNVTAIQRMYSRWSLYHTRTKDL
 KDFIRVHHLPPQLKQRMLEYFQTTWSVNNGIDSNELLKDFPDELRSITMHLNKEILQLSLFECASRGCL
 RSLSLHIKTSFCAPGEYLLRQGDALQAIYFVCSGSMEVLKDSMVLAILGKGLIGANLSIKDQVIKTNAD
 VKALTYCDLQCIILKGLFEVLGLYPEYAHKFVEDIQHDLTYNLREGHESDVISRLSNKSTVSQAEPKNG
 SINKRPLSIVEDEEEEEVEEETSLSPIYTRGSSVSHSKKTGSNKTYLGLSLKQLASGTVPFHSPIRVS
 SANSPKTKQEADPPNHGRKKEKNLKVQLSSLGSAGTPELSPRIVDGIEDGNSNEETQTFDFGSEQIRPEP
 RISPLAESEIGAAFLFIKAEETKQQINKLNSEVTTLTQEVSQVGRDMRSIMQLLENILSPQQPSQFCSL
 HPTPMCPRESLQTRVSWSAHQPLHLQAGGAHLYHGNVASGIWSVPSLVGSSPQRTAEHQNPADSEL
 HHPNLDYSPSHCQVIQEGHLQFLRCISPHSDTTLTPLQSIATLSSVCSSETSLHLVLP SRSEEGSI
 THGPVSSFSLENLPGSWDREQMMSASSERLENFPVEVVTSTADVKDSKAINV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_001031811.2, NP_001026981.2</u>
RefSeq Size:	4072 bp
RefSeq ORF:	3309 bp
Locus ID:	211468
UniProt ID:	<u>P59111</u>
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]