

Product datasheet for **MG212350**

Kcnh4 (NM_001081194) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnh4 (NM_001081194) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Kcnh4
Synonyms: BEC2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG212350 representing NM_001081194
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGTCATGAAGGGGTTGCTGGCCCCGAAAAACACCTTTCTGGACACCATCGCCACCCGCTTTGACG
GCACGCACAGCAACTTCCTTCTGGCCAATGCACAGGGCCACGGGGTTTTCCCATCGTCTACTGCTCTGA
CGGCTTCTGTGAGCTCACAGGCTACGGCCGACCGAGGTCATGCAGAAAACCTGTAGCTGTCGGTTCCTC
TATGGCCAGAGACCAGTGAACCAGCCCTGCAACGGTTGCAAAAAGCCCTGGAGGGCCACCAAGAACACC
GAACTGAAATCTGCTTTTACCGAAAGGATGGCTCAGCCTTCTGGTGTCTTCTGGACATGATGCCATCAA
GAATGAGATGGGGGAGGTTGTGCTTTTCTTATTTCTTCAAGGACATCTCTCAGAGTGGAGGCCAGGA
CTTGGCTCACCAGGAATCCATGGGGACAATAATCACGAAAACCTCTTGGGAGGAGAGGAAGTACTCAA
GACTTAGGTCCACGAAGAGGCAGAACCGGACTGTCTACACCGGTTGACTGGCCACTTTGGTTCGCCGGGG
CCAGAGCAGTGTGAAGGCCAACAGTAACCTGTTGAGCCAAAACCATCAGTGCAGGAGTACAAGTGGCC
TCTGTGGGGGGCTCCCGCTGCCTCCTCCACTACAGCATCCCCAAGGCTGTCTGGGATGGTCTCATCC
TCCTCGCCACATTCTACGTCGCGGTCACTGTCCCTACAACGTCTGCTTCGCGGGTATGACGACACCCC
CATCACTTCCCGACACACCCTTGTCACTGACATCGCTGTGAAATGCTCTTATCCTGGACATCATCTTG
AACTTCCGACACCCTACGTGTCCAGTCTGGCCAGGTGATTTGGCTCCTCGGTCATTGGCCTCCACT
ATCTGGCCACCTGGTCTTTGTAGACCTCATTGCTGCTTTGCCCTTTGATCTGCTGTATGTCTTCAACAT
CACTGTGACCTCACTGGTACATCTGCTGAAAACCGTGCAGGCTCCTGCGGCTGCTGCGGCTGCTGCAAG
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TCTCGGCGCAGTGCCTACATCGCTGCGTGTACTTACGCTGAGCAGCCTCACCAGTGTAGGCTTCGGCA
ACGTGTGTGCCAACACAGACGCTGAGAAGATCTTCCATCTGCACGATGCTCATAGGCGCGCTGATGCA
CGCAGTGGTGTGGGAATGTCACAGCCATCATCCAGCGCATGTACTCCGACGCTCGCTCTACCACAGC



CGCATGAAGGATCTCAAGGACTTCATCCGAGTGCATCGCCTGCCCGCCCACTCAAGCAGCGCATGCTCG
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 TGAGCTGCGTGCTGACATTGCTATGCACCTGAACAGGGAGATCCTGCAGCTGCCTCTGTTTGGAGCGGT
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 TACGCCGTGGGGATGCCCTCCAGGCACACTACTACGTCTGCTCTGGCTCGCTTGGAGTGTCCGGGACAA
 CATGGTCTGTGGCCATCCTGGGGAAGGGGGACTTGATTGGGGCAGACATCCCTGAGTTGGGACAGGAGCCT
 GGGTCAGGGGCAGGCCCCAGCTGTGTGCTGAAGACCAGCGCCGATGTGAAAGCTTGACTTACTGTGGCC
 TGACAGCAGCTGAGCAGCCGAGGGCTGGCGGAGGTCTGCGGCTGTATCCGGAATATGCAGCTGCCTTCCG
 GGCTGGCCTACCCCGGGACCTAACCTTCAACCTGCGCCAAGGTTCTGAAAACAATGGCCTCGGCCGCTT
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 CCATCACAGAAACCAGGGTGGCACGGAGCCTGGGGCTGGTTCCAAGCCCCGTCGGCCCCACCTGTGCC
 CAACCTCAGTCCAGCAGACCTCGGGGTCCCTGGTCAGCCTTTTGGCGAGGAGCTGCCCCATTCTCA
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 CCCCACAGGCCCCCAGGGGCTCTGCTGCTGGAAGCCCCCAGCTCCTCATTCCCCACTGGGAAC
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 CCTACATTCGGCTTACAGCAAGAGGCCAGAGCCCACCAGAACTCGTCCACAGGCTCCCCCTCAGGCCCA
 GGCTCAGCCGGAACTGGCCACAGAGGCAGCAGAGGAGGTGAAGGAAAAGGTCTGACGGCTGAACCAAGA
 GATCTCCCGTCTCAATCAGGAAGTGTCTCAGCTGAGCCGGGAGCTGCGGCAAGTATGGGTCTCTTACAG
 GCCAGGCTGGGACCCCCAAGTCACACAGCTGGTCCAGCTTGGCTCCAGACCTTCCCTGCCCCACCAGA
 GACTACCATGCATCTCCTCATATGTCTGGACCACCCTGGTCTCCAGAATACTACACTCGCTGTAGT
 CCACTGTCCAGCCAGTGTGGGACAGTGGAGATAGGGGCCACCCCTCAGAGCTGAGACCTTCCACGATA
 CCACCTATCCCTCGGAACCTGATCCTCTGGGACCCTTCCAGCGCCAGAGGCTCCTCCCTGACCCCAA
 GCCTCTGAAGCACAGCTTCCAGTCTGGTCCAGACACATCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG212350 representing NM_001081194
 Red=Cloning site Green=Tags(s)

MPVMKGLLAPQNTFLDTIATRFDGTHSNFLLANAQGRGFPPIVYCSDFCEL TGYGRTEVMQKTCSCRFL
 YGPETSEPALQRLQKALEGHQEHRTEICFYRKDGSFAFWCLLDMMPIKNEMGEVVLFLFSFKDISQSGGPG
 LGSPGIHGDNHNSLGRRTSSRLRSTKRQNRVTLHRLTGHFGRRGQSSVKANSNLFEPKPSVPEYKVA
 SVGGSRLLLLHYSIPKAVWDGLILLATFYVAVTVPNVCFAGDDDPITSRHTLVSDIAVEMLFILDIIIL
 NFRTTYVSQSGQVISAPRSIGLHYLATWFFVDLIAALPFDLLYVFNITVTSLVHLLKTVRLLRLLRLLQK
 LERYSQSAVVL TLLMSVFALLAHWMAVWYVIGRREMEANDPLLWDIGWLHELKRLPEEPYVNGSAGGP
 SRRSAYIAALYFTLSSLTSVGFGNVCANTDAEKIFSICTMLIGALMHAVVFGNVTAI IQRMYSRRSLYHS
 RMKDLKDFIRVHRLPRPLKQRMLEYFQTTWAVNSGIDANELLRDFPDELADIAMHLNREILQLPLFGAA
 SRGCLRALSLHIKTSFCAPGEYLLRRGDALQAHYYVCSGSLEVL RDNMVLAILGKGLIGADIPELGQEP
 GSGAGPSCVLKTSADV KALTYCGLQQLSSRGLAEVLRLYPEYAAA FRAGLPRDLTFNLRQSENGLGRF
 SRSPRLSQARSDTLGS SSDKTLPSITETEGGTEPGAGSKPRRPHLLPNLSPARPRGSLVSLLGEELPPFS
 ALVSSPSL SPTSPALAGRQSPSPHGPPRGSAAWKPPQLLIPPLGTFGPPDLSPRIVDGIEDSSNTAEA
 PTFRF SKRPEPTRRSQAPPSGPRLSRELATEAAEEVKEKVCRLNQEISRLNQEVSQLSREL RQVMGLLQ
 ARLGPPSHTAGPAWLPDLPCPHQRLPCISPHMSGPPPGLQNTTLAVVHCPASVGTVEIGATPSELRPSTI
 PYPSEPDPLGSPAPEAPPLTPSLLKHSFQSGSDTFH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001081194.2</u> , <u>NP_001074663.1</u>
RefSeq Size:	3784 bp
RefSeq ORF:	3057 bp
Locus ID:	380728
Cytogenetics:	11 63.57 cM