

Product datasheet for **MG211392**

Kcnh5 (NM_172805) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnh5 (NM_172805) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kcnh5
Synonyms:	Eag2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG211392 representing NM_172805
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGGGGCAAGAGAGGGCTGGTGGCTCCGAGAACACATTTTTGGAGAACATCGTCAGGCGCTCCA
 GTGAATCAAGTTTCTTACTGGGAAATGCCCAAATTGTGGACTGGCCTGTAGTTTATAGTAATGACGGTTT
 TTGTAACCTCTCTGGATATCATCGAGCTGACGTATGCAGAAAAGCAGCACCTGCAGTTTATGTATGGA
 GAAGTACCGACAAGAAGACCATTGAGAAAAGTCAGGCAGACTTTTGACAACACGAGTCAAAGTGTGTTG
 AAGTTCTTCTGTACAAAAAACCGTACCCTGTTTGGTTTTACATGCAAATCGACCAATAAGAAATGA
 ACACGAGAAGGTGGTCTTGTCTGTGTACATTCAAGGACATTACACTGTTCAAACAGCCTATAGAGGAT
 GACTCAACGAAAGTTGGACGAAGTTGCCGATTGACACGGGCTTTGACAAATAGCCGAAGTGTGTTTAC
 AGCAGCTTACACCAATGAATAAAACAGAGACAGTCCACAAGCATTCAAGACTAGCTGAAGTGCTTACAGT
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 ACAATGTTTCTTTCAAAACAAGCAGAACAATATCGCCTGGCTGGTGTGGACAGTGTGGTGGACGTGAT
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 ACATCATCAATGCCTTTGAAAATGTGGATGAGGGAATCAGCAGTCTTTCAGCTCTTTAAAGGTGGTGCG
 CCTTTACGCCTGGGCCGTGTTGCTAGGAACTGGACCATTACCTGGAATATGGAGCAGCGGTCTTGTG
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 AGGTGGCAGAGATTTTAAACTACTCTCAGAGAAAAGCGTACCCAGACATCTTCTCAAACCCCAAT
 TCCACTCAAAGTACCTCCCAAAATACCATGTGAGGATATTTTAGTGTCTCAAGGCTGAGTCACCCGAA
 TCTGACAAAGACGAAATCACTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211392 representing NM_172805
 Red=Cloning site Green=Tags(s)

MPGGKRGLVAPQNTFLENIVRRSSESSFLLGNAQIVDWPVVYSNDGFCKLSGYHRADVMQKSSTCSFMYG
 ELTDKKTIEKVRQTFDNYESNCFEVLLYKKNRTPVWFYMQIAPIRNEHEKVVLFLCTFKDITLTKQPIED
 DSTKGWTKFARL TRAL TNSRSVLQQLTPMNKTETVHKHSRLAEVLQLGSDILPQYKQEAPKTPPHIILHY
 CAFKTTWDWVILILTFYTAIMVPYNVSVFKTKQNNIAWL VLDSDVDVIFLVDIVLNFHTTFFVGPGEVISED
 PKLIRMNYLKTWFVIDLLSCLPYDIINAFENVDEGISSLFSSLKVVRLRLGRVARKLDHYLEYGA AVL V
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 SSLYFTMTSLTTIGFNIAPTTDVEKMF SVAMMMVGSLLYATIFGNVTTIFQQMYANTNRYHEMLNVRD
 FLKLYQVPKGLSERVMDYIVSTWSMSKIDTEKVL SICPKDMRADICVHLNRKVFNEHPAFRLASDGCLR
 ALAVEFQTIHCAPGDLIYHAGESVDALCFVVSLSLEVIQDEEVVA ILGKGDVFGDIFWKETTLAHACANV
 RALTYCDLHIKREALLKVLDFYAFANSFSRNLTLTCNLRKRIIFRKISDVKKEEEEERLRQKNEVTL SI
 PVDHPVRKLFQKFKQKELRIQGSAQSDPERSQLQVESRPLQNGASITGT SVVTVSQITPIQTS LAYVKT
 SESLKQNNRDAMELKPNGGAEPKCLKVNSPIRMKNGNGKWLRLKNNMGAQEKKEDWNNVTKAESMGLL
 SEDPKGSDSENSVTKNPLRKTDS CDSGITKSDLRLDKAGEARSPL EHSQSADVKHSFYPIPEQALQTTL
 QEVKHELKEDIQLLSCRM TALEKQVAEILKLLSEKSVPTSSPKQIPLQVPPQIPQC DIFSVSRPESPE
 SDKDEINF

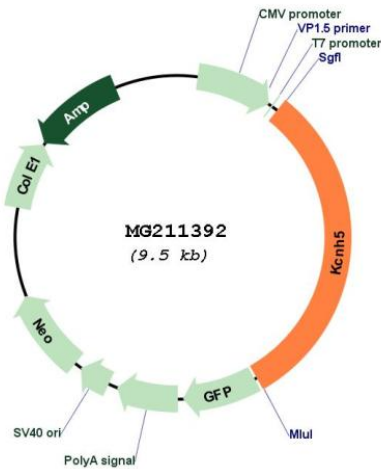
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_172805

ORF Size: 2964 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:

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_172805.3](#), [NP_766393.2](#)

RefSeq Size: 4061 bp

RefSeq ORF: 2967 bp

Locus ID: 238271

UniProt ID: [Q920E3](#)

Cytogenetics: 12 C3

Gene Summary:

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