

Product datasheet for **MR221798**

Kcng2 (NM_001190373) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcng2 (NM_001190373) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcng2
Synonyms:	AA591524
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221798 representing NM_001190373
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCCGCTCCTGGGGCACCCGGAGGCCCCGACGCGGAGCCTGGCAGCGCAGGCCAGGGGCCGTG
 GCGGCCGCGGGGCCGGGCGCGCCACGTATTATCAACGTCGGGGCTGCAGGGTGCCTGGCCTGGGC
 CGCGCTGGCCCGCTGTCCCTGGCGCGCCTCGAGCGCCTGCGAGCCTGCCGCGGCCACGACGAGCTGCTG
 CGCGTGTGTGACGACTACGACGTGAGCCGCGACGATTCTTTCGACCGCAGCCGTGCGCTTTCGCGG
 CCATCGTGGCGCTGCTGCGCGCCGGAAGCTAAGGCTGCTGCGCGGCCGTGCGCCCTGGCCTTCCGCGA
 CGAGCTGGCCTACTGGGGCATCGACGAGGCGGGCTGGAGCGTGTGCTGCGCCGCTGCGCCGCCG
 GAGGAGGAGGCCCGGAGGCCAGCGCCGCGAGCCCGCCGAGGGCCGCCGACCAGCCCCGGCCGAGCCC
 TGGGCAGCGGGCGGCTGGAGCGAGGCCGACAGCGCCTGCGCGACGTGGTGGAGAACCCTCCGGCT
 GCGGGGACAGGCTCTTCGCTACGTCTCCGTGGCCTTCGTGGCCGTACAGCCGTGCGCCTGTGCCTGAGC
 ACCATGCCGACGTCCGCGCAGAAGAGGAACGGGGCGAGTGTCCACAAAGTGCCGCAACCTGTTCTGTGC
 TGGAGACGGTGTGCGTGGCCTGGTTCTCCTTCGAGTTCCTGCTGCGCTCCCTGCAGGCTGAGAGCAAGT
 CGCCTTCTCCGACGCCGCTTGCCATCATCGACATCCTGGCCATCCTGCCCTTCTACGTGTGCTGCTC
 GCGGGACTGGCGGCAGGGCCACGGGCAGCAAGATGCTGGAGCGCGGGTCTGGTGTGCGGCTGCTGC
 GGGCGTGCAGTGTCTACGTGATGCGCCTGGCGGCCACTCGTTGGGGCTGCGCTCGCTTGGCCTCAC
 CGTGGCCGCTGCGCACGCGAGTTCGGACTGCTGCTGCTTCTCCTGCTGCGTGGCCATGGCGCTTTCGCG
 CCGTCTGTCACCTGGCTGAGCGCGAGCTGGGCGCTCACCGGACTTCTCCAGCGTCCCCGCCAGTACT
 GGTGGGACGTACTCTCCATGACCACCGTGGGCTATGGAGACATGGTGGCGCGAGCCTTCCGGCCAGGT
 GGTGGCGCTGAGCAGCATCCTCAGCGGCATCCTGCTCATGGCCTCCCTGTACCTCCATCTTCCACACC
 TTCTCGCGCTCCTATTCCGAGCTCAAGGAGCAGCAACAGCGCGGCCAGCCCTGAACCGCCCTGCGCG
 AGGACAGCACGCGTGATGACAGTACAGTTTCGGCCAGCGCCACTGAGGACAGCTCTCAGGACCTGAGAC
 CGCAGGCGCGGCAGGAGCTTGCCGGGCCGGTGGGACCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221798 representing NM_001190373
 Red=Cloning site Green=Tags(s)

MARLLGHPEAPDAEPGSAGRRRGRGRGARARHVIINVGGCRVRLAWAALARCPLARLERLRACRGHDELL
 RVCDDYDYSRDEFFFDSPCAFRAIVALLRAGKLRLLRGPCALAFRDELAYWGIDEARLERCCLRRLRRR
 EEEAAEASAAQPARGPPTSPGRALGSGRLERGRQRLRDVVENPHSGLAGRLFAYVSVAFVAVTAVGLCLS
 TMPDVRAEEEREGCSTKCRNLFVLETVCVAWFSFEFLRSLQAESKCAFLRTPLAIDILAILPFYVSL
 AGLAAGPTGSKMLERAGLVLRLLRALRVLYVMRLARHSLGLRSLGLTVRRCAREFLLLLFLCVAMALFA
 PLVHLAERELGAHRDFSSVPASYWAVISMVTVGYGDMVPRSLPGQVVALSSILSGILLMAFPVTSIFHT
 FRSYSSELKEQQRAASPEPALREDSTRDDSTRSASATEDSSQDPETAGAAGSLPGRVGP

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_g09.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_001190373

ORF Size: 1440 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_001190373.1](#), [NP_001177302.1](#)

RefSeq Size: 2815 bp

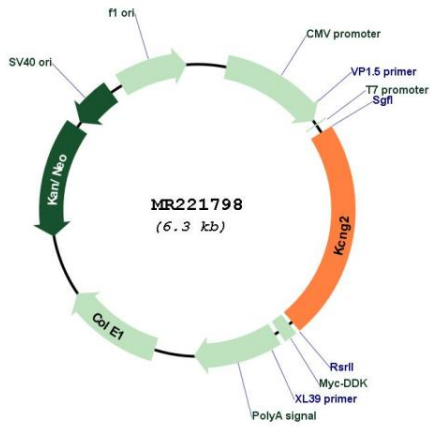
RefSeq ORF: 1443 bp

Locus ID: 240444

Cytogenetics: 18 E3

MW: 53 kDa

Product images:



Circular map for MR221798