

Product datasheet for **RR207471**

Kcnd1 (NM_001105748) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnd1 (NM_001105748) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnd1
Synonyms:	Kv4.1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR207471 representing NM_001105748
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCAGGTGTGCCACATGGCTACCATTTGCAAGGGCTGCAGCAGTGGGCTGGCTGCCCTTAGCCC
 AGCAGCCCTACCCCAGCACCCGAGGTGAAGGCATCCCGAGGGGATGAGGTTCTGGTGGTGAACGTGAG
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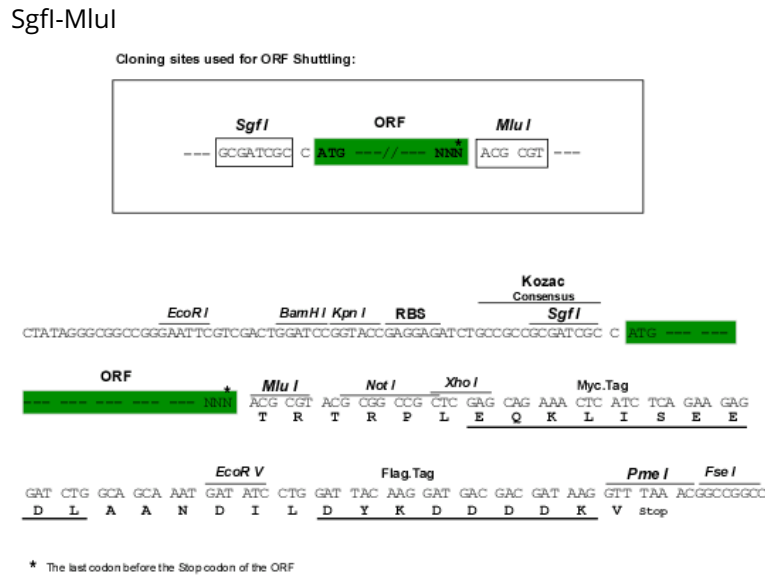
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RR207471 representing NM_001105748
 Red=Cloning site Green=Tags(s)

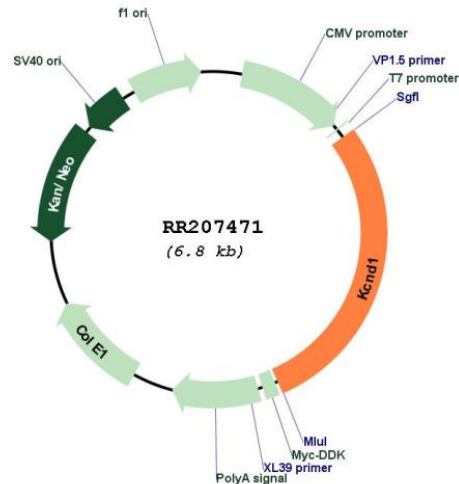
MAAGVATWLPFARAAAVGWLPLAQQPLPPAPEVKASRGDEVLVVNVSGRRFETWKNTLDRYPTLLGSSE
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 KENAERLAEDEEA EQAGEG PALPAGSSLRQRLWRAFENPHTSTAALVFYVYTGFF IAVSVIANVETIPC
 RGP ARWPTKEQPCGDRFPTAFFCMDTACVLI FTGEYLLRLFAAPSRRCRFLRSVMSLIDVVAILPYYIGLF
 VPKNDDVSGAFVTLRVFRVFRIFKFSRHSQGLRILGYTLKSCASELGFLLFSLTMAIIIFATVMFYAEKG
 TSKTNFTSIPAAFWYITVMTTLGYGDMVPSTIAGKIFGSICSLSGVLVIALPVPVIVSNFSRIYHQNQR
 ADKRR AQKVRLARIRLAKSGTTNAFLQYKQNGLED SGSGEGQMLCVRSRSAFEQHHHLLHCLEKTTCC
 HEFTDELTFSEALGAVSLGGRTSRSTSVSSQPMGPGSLFSSCCSRRGERRAIRLANSTASVSRGSMQELD
 TLAGLRRSPAPQSRSSLNAKPHDSL DLNCE SRDFVA AIIISIPTPPANTPDESQPS SPGGGGSGGMANTTL
 RNSSLATPCLLPETVKISSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:
Cloning Scheme:



Plasmid Map:



ACCN: NM_001105748

ORF Size: 1950 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_001105748.1](#), [NP_001099218.1](#)

RefSeq Size:	3712 bp
RefSeq ORF:	1953 bp
Locus ID:	116695
Cytogenetics:	Xq12
MW:	71.6 kDa
Gene Summary:	human homolog is a voltage-gated potassium channel responsible for inactivating (A-type) currents in the heart and neurons [RGD, Feb 2006]