

## Product datasheet for **RR209678**

### Kcnh8 (NM\_145095) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnh8 (NM_145095) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnh8
Synonyms:	Elk1; ELK3; Ets-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209678 representing NM_145095 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGGTTATGAAAGGATTGCTGGCGCCACAGAACACCTTCTGGACACTATTGCCACCCGTTTCGACG  
GAACACATAGCAACTTCATCCTGGCCAATGCCAAGTGGCAAAGGTTTCCCATAGTCTACTGTTCCAGA  
TGGCTTCTGTGAGCTGGCTGGGTTTGTCTGAACTGAAGTCATGCAGAAGAGTTGCAGCTGCAAGTTCTG  
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AAGGAGAAATTATGTTCTACAAGAAGAATGGGGCTCCATTTTGGTGCCTGTTGGATATCGTTCTATAAAA  
GAATGAGAAAGGAGATGTGGTCTTTTCTGGCCTCATTCAAAGATATAACAGACACGAAAGTGAAGATT  
ACTTCAGAAGATAAAAAAGAAGACAGAGCCAAAGGAAGATCAAGAGCAGGGAGCCACTTCGACTCAGCCC  
GCAGACGGAGCCGAGCAGTCTTTATCACATCTCAGGACACCTGCAAAGAAGAGAAAAGAACAAATTGAA  
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CACAGCACAATTGCTCACCCTGCTCATGTCCATGTTTGTCTCCTTGCACACTGGATGGCATGTATCT  
GGTATGTCATTGGAATAATGGAGAGGGAGGACAACAGCCTTCTCAAGTGGGAAGTCGGTTGGCTTCAG  
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AAGGACTTCATCCGTGTGCATCACCTGCCCCAGCAACTCAAGCAGAGGATGCTTGAGTACTTTCAGACAA



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CTTGGTCTGTCAACAATGGAATAGATTCAAATGAGCTTTTGAAAGACTTTCCAGATGAGCTGCGCTCTGA  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR209678 representing NM\_145095  
 Red=Cloning site Green=Tags(s)

MPVMKGLLAPQNTFLDTIATRFDGTHSNFILANAQVAKGFPIVYCSDFCELAGFARTEVMQKSCSCKFL  
 FGVETNEQLMLQIEKSLEEKVEFKGEIMFYKKNAPFWCLLDIVPIKNEKGDVVLFLASFKIDITDKVKI  
 TSEDKKEDRAKGRSRAGSHFDSARRRSRAVLYHISGHLQRREKNLKLINNVFVDKPAFPEYKVSADAKS  
 KFILLHFSTFKAGWDWILLLATFYVAVTVPYNVCFIGNEDLSTTRSTTVSDIAVEILFIIDIIILNFRTTY  
 VSKSGQVIFEARSICIHVYVTTWFIIDLIAALPFDLLYAFNVTVVSLVHLLKTVRLLRLLRLLQKLD RYSQ  
 HSTIVLTLLMSMFAALLAHWMACIYWYVIGKMEREDNSLLKWEVWGLHELKRLKLESPYYGNNTLGGPSIRSA  
 YIAALYFTLSSLTSVGFGNVSANTDAEKIFSICTMLIGALMHALVFGNVTAIIRMYSRWSLYHTRTKDL  
 KDFIRVHHLPPQLKQRMLEYFQTWTSVNNGIDSNELLKDFPDELRSIDITMHLNKEILQLSLFECASRGCL  
 RSLSLHIKTSFCAPGEYLLRQGDALQAIYFVCSGSMEVLKDSMVLAILGKGDILGANLSIKDQVIKTNAD  
 VKALTYCDLQCIILKGLFEVLGLYPEYAHKFVEDIQHDLTYNLREGHESDVISRLSNKSTVPQAEPKNG  
 SIKKRLPSIVEDEEEEEVEEETSLSPIYTRGSSVSHSKKTGSSKSYLGLSLKQLTSGTVPFHSPIRVS  
 SANSPKTKQEAADPPNHGTRKEKNLKVQLCSLGTAGTPELSPRIVDGIEDGNSSEETQTFDFGSEQIRPEP  
 RISPSLGESEIGAAFLFIKAEETKQQINKLNSEVTTLTQEVSQLGKDMRSIMQLLENILSPQQPSQFCSL  
 HPTSICPSRESFQTRVSWSAHQPLHLQANGAHL YHGNVTSDIWSVDPVSLVGSNPORTEAHEQSPVDSSEL  
 HHSPLNAYSPSHCQVIQEGHLQFLRCISPHSDTTLTPLQSIATLSSVCSSETSLHLVLP SRSEEGSI  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

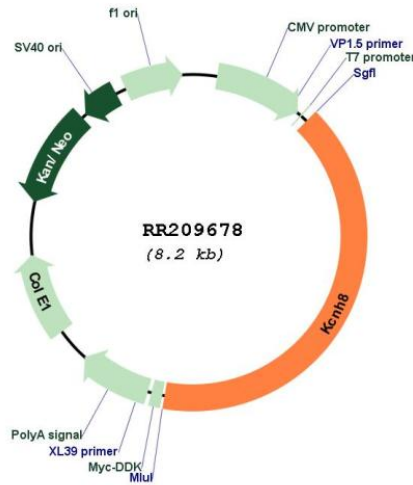
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_145095

ORF Size: 3306 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_145095.2, NP_659563.1</u>
<b>RefSeq Size:</b>	3739 bp
<b>RefSeq ORF:</b>	3309 bp
<b>Locus ID:</b>	246325
<b>UniProt ID:</b>	<u>Q9QWS8</u>
<b>Cytogenetics:</b>	9q11
<b>MW:</b>	123.2 kDa
<b>Gene Summary:</b>	Pore-forming (alpha) subunit of voltage-gated potassium channel. Elicits a slowly activating, outward rectifying current. Channel properties may be modulated by cAMP and subunit assembly.[UniProtKB/Swiss-Prot Function]