

## **Product datasheet for RC212154**

### KCNH8 (NM\_144633) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** KCNH8 (NM\_144633) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: KCNH8

Synonyms: ELK; ELK1; elk3; Kv12.1

Mammalian Cell Neomycin

Selection:

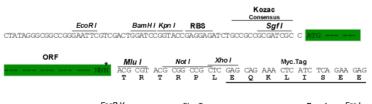
Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 

Cloning sites used for ORF Shuttling:





**ACCN:** NM\_144633

ORF Size: 3321 bp



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<sup>\*</sup> The last codon before the Stop codon of the ORF

#### KCNH8 (NM\_144633) Human Tagged ORF Clone - RC212154

**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:** <u>NM 144633.3</u>

 RefSeq Size:
 5106 bp

 RefSeq ORF:
 3324 bp

 Locus ID:
 131096

 UniProt ID:
 Q96L42

**Domains:** cNMP, PAC, ion trans

3p24.3

**Protein Families:** Druggable Genome, Ion Channels: Potassium, Transmembrane

**MW:** 123.6 kDa

Cytogenetics:

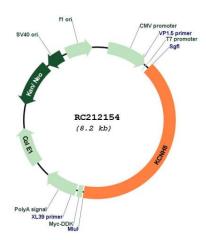
**Gene Summary:** Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion

channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a member of the potassium channel, voltage-gated, subfamily H. This member is a

pore-forming (alpha) subunit. [provided by RefSeq, Jul 2008]



# **Product images:**



Circular map for RC212154