

## Product datasheet for MC225438

### Kalrn (NM\_177357) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Kalrn (NM\_177357) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Kalrn  
**Synonyms:** 2210407G14Rik; AV235988; DUET; E530005C20Rik; Gm539; Hapip; TRAD  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225438 representing NM\_177357  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACGGACCGCTTCTGGGACCAGTGGTATCTTTGGTATCTCCGCTTGCCTCGGCTTCTGGATCGAGGAT  
 CTTTTCGGAATGATGGTTTGAAGCTTCTGATGTCCTTCTCATCCTAAAGGAGAAAGTGGCCTTTGTGTC  
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 ACTTCCATATCCACCATCTGCTGGGGAACCTGAGTTCGCTGCCCCGAAGTGTCCAAGGCATCCCTGT  
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 TCTGCGGTGTGAGCAATGCTGCCAGGATTTTATCAACGTAATCTTACAGGAAGACTTCCGGAGGCGGCC  
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GACACCTCCCGTCTGGCCTGCTTCATAGAACGCCGCAAGCACCAGAATGATGTGCGGCCCATTCCCAATG  
TCAAGAGTTACATCGTCAATAGGGTGAACCAAGGGACCTCGCTATCCCACAACCCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_177357
<b>Insert Size:</b>	8949 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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><a href="#">NM_177357.3</a></u> , <u><a href="#">NP_796331.2</a></u>
<b>RefSeq Size:</b>	15439 bp
<b>RefSeq ORF:</b>	8949 bp
<b>Locus ID:</b>	545156
<b>Cytogenetics:</b>	16 B3
<b>Gene Summary:</b>	<p>Promotes the exchange of GDP by GTP. Activates specific Rho GTPase family members, thereby inducing various signaling mechanisms that regulate neuronal shape, growth, and plasticity, through their effects on the actin cytoskeleton. Induces lamellipodia independent of its GEF activity (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript, and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence because no single transcript was available for the full length of the gene. The genomic coordinates used for the transcript record were based on transcript alignments and orthologous data, including rat AF232669.1.</p>