

## Product datasheet for **MG220928**

### Kalrn (NM\_177357) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kalrn (NM_177357) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kalrn
Synonyms:	2210407G14Rik; AV235988; DUET; E530005C20Rik; Gm539; Hapip; TRAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220928 representing NM_177357 Red=Cloning site Blue=ORF Green=Tags(s)

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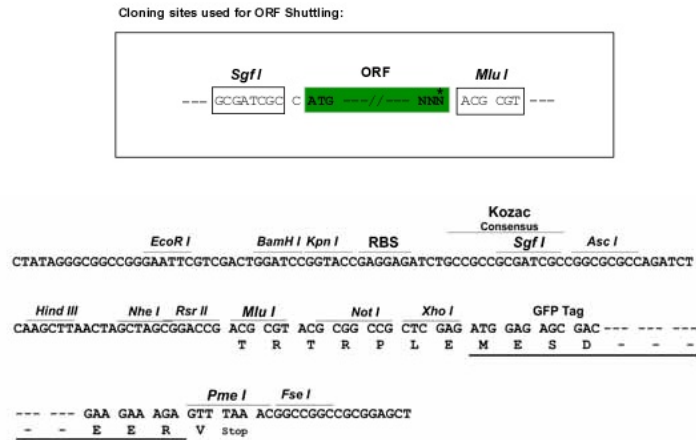
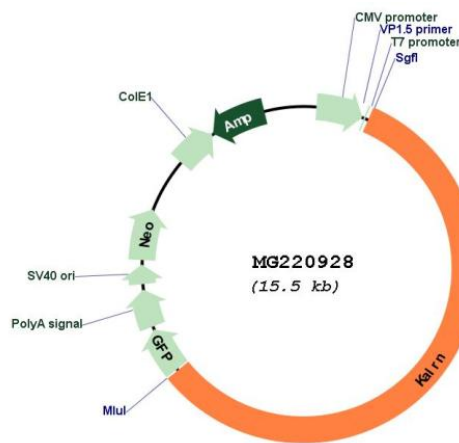
**Protein Sequence:** >MG220928 representing NM\_177357  
 Red=Cloning site Green=Tags(s)

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```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_177357

**ORF Size:** 8946 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\\_177357.3](#), [NP\\_796331.2](#)

**RefSeq Size:** 15439 bp

**RefSeq ORF:** 8949 bp

**Locus ID:** 545156

**Cytogenetics:** 16 B3

**Gene Summary:** 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]