

## Product datasheet for **MG219855**

### Kcnt1 (NM\_001145403) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnt1 (NM_001145403) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kcnt1
Synonyms:	C030030G16Rik; s; Sl; Slack; slo2; Slo2.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219855 representing NM_001145403 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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ATGAGACCCAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG219855 representing NM\_001145403  
 Red=Cloning site Green=Tags(s)

```
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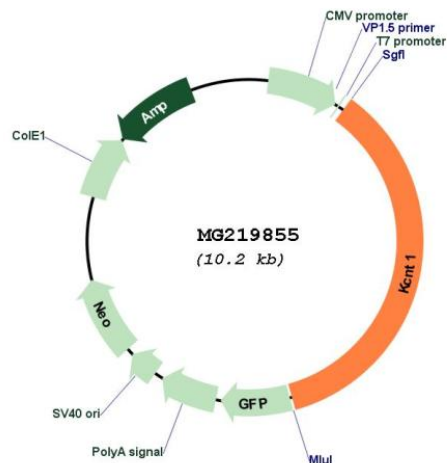
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001145403

**ORF Size:** 3654 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\\_001145403.2](#)

**RefSeq Size:** 3771 bp

**RefSeq ORF:** 3657 bp

**Locus ID:** 227632

**Cytogenetics:** 2 A3

**Gene Summary:**

This gene encodes a member of the Slo potassium channel family that has shown to be activated by both sodium and chloride ions. This channel represents the largest potassium channel subunit yet identified. This channel may be important in development and pain signaling. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]