

## Product datasheet for **RG201127**

### **KEL (NM\_000420) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KEL (NM_000420) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KEL
Synonyms:	CD238; ECE3; Kell
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG201127 representing NM\_000420  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAAGTGGGGACAAAGTGAGGAAGAGCCGAGGGAACGCAGCCAGGCAGGTGGAATGGAACTCTCT  
GGAGCCAAGAGAGCACTCCAGAAGAGAGGCTGCCCGTGAAGGGAGCAGGCCATGGGCAGTGGCCAGGCG  
GGTGTGACAGCTATCCTGATTTTGGCCCTGCTCCTTTGTTTTCTGTGCTTTTGTCTACAACCTCCAG  
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TTTTCAGGAGCTTGCCACAAGAACAACAAACCGACTTCGGAGAATACTGGAGGTCCAGAATTCCTGGCAC  
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CAGGGACTGGTCCCTCAGACAAGTTATTGAGGAGCTTGGAGGCTGGCGCATCTCTGGTAAATGGACTTC  
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GGGAACCTTGCTGGGAGGAGACCCAAGCAAGGTGCAAGAACAACCTTCTCTGTCAATCTCCATCACTTCA  
CGGCTGTTCCAGTTTCTGAGGCCCTGGAGCAGCGGGCCAGGGCAAGCTCTTCAGATGGTCACTA  
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GTCCCTGAGCCCTTCTCAGTCCCTCGTGGTCCATGACGTGGAATATTTGAAAAACATGTCACAACCTGGT  
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CTCCAGCCCTGGACAGTCAATTCAGGAGGCACGCAGAAAGCTCAGCCAGAAACTGCGGGAACGACAGA  
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TGCCCAGGTGATGTGTAGGAAGCCAGCCCCAGGACTCTCACGACACTCACAGCCCTCCACACCTCCGA  
GTCCACGGGCCCTCAGCAGACCCAGCCTTTGCCAGGTATTTCCGCTGTGCAGTGGTGTCTCTTGA  
ACCCCTCCAGCCGCTGCCAGCTCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG201127 representing NM\_000420  
 Red=Cloning site Green=Tags(s)

```
MEGGDQSEEEPRERSQAGGMGLWSQESTPEERLPVEGSRPWAVARRVLTAILILGLLLCFSVLLFYNFQ
NCGPRPCETSVCLDLRDHYLASGNTSVAPCTDFFSFACGRAKETNNSFQELATKNKNLRRILEVQNSWH
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LGPHASPHTPVIQIDQPEFDVPLKQDQEQKIYAQIFREYLTYLNQLGTLGGDPSKVQEHSSLSISITS
RLFQFLRPLEQRRAQGKLFQMVITDQLKEMAPAIDWLSCLQATFTPMSLSPSQSLVVDVVEYLKNMSQLV
EEMLLKQRDFLQSHMILGLVVTLSPALDSQFQEARRKLSQKLRELTEQPPMPARPRWMCVEETGTFEPE
TLAALFVREAFGPSTRSAAMKFLT AIRDALITRLRNLPMNEETQNAQDKVAQLQVEMGASEWALKPEL
ARQEYNDIQLGSSFLQSVLSCVRSRLRARI VQSFLQHPQHRWKVSPWDVNAYYSVDHVVFPAGLLQPP
FFHPGYPRAVNFGAAGSIMAHELLHIFYQLLLPGGCLACDNHALQEHLCLKRHYAAFPLPSRTSFNDSL
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```

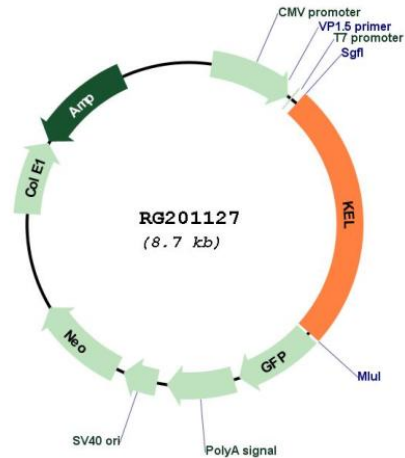
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_000420

**ORF Size:** 2196 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\\_000420.3](#)

**RefSeq Size:** 2562 bp

**RefSeq ORF:** 2199 bp

**Locus ID:** 3792

<b>UniProt ID:</b>	<u>P23276</u>
<b>Cytogenetics:</b>	7q34
<b>Domains:</b>	Peptidase_M13
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane
<b>Gene Summary:</b>	<p>This gene encodes a type II transmembrane glycoprotein that is the highly polymorphic Kell blood group antigen. The Kell glycoprotein links via a single disulfide bond to the XK membrane protein that carries the Kx antigen. The encoded protein contains sequence and structural similarity to members of the neprilysin (M13) family of zinc endopeptidases. [provided by RefSeq, Jul 2008]</p>