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Product datasheet for RC201127

KEL (NM_000420) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KEL (NM_000420) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KEL
Synonyms:	CD238; ECE3; Kell
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201127 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGGTGGGGACCAAAGTGAGGAAGAGCCGAGGGAACGCAGCCAGGCAGGTGGAATGGGAACTCTCT
GGAGCCAAGAGAGCACTCCAGAAGAGAGGCTGCCCGTGGAAGGGAGCAGGCCATGGGCAGTGGCCAGGCG
GGTGCTGACAGCTATCCTGATTTTGGGCCTGCTCCTTTGTTTTTCTGTGCTTTTGTTCTACAACTTCCAG
AACTGTGGCCCTCGCCCCTGTGAGACATCTGTGTGTTTGGATCTCCGGGATCATTACCTGGCCTCTGGGA
ACACAAGTGTGGCCCCCTGCACCGACTTCTTCAGCTTTGCCTGTGGAAGGGCCAAAGAGACCAATAATTC
TTTTCAGGAGCTTGCCACAAAGAACAAAAACCGACTTCGGAGAATACTGGAGGTCCAGAATTCCTGGCAC
CCAGGCTCTGGGGAGGAGAAAGCCTTCCAGTTCTACAACTCCTGCATGGATACACTTGCCATTGAAGCTG
CAGGGACTGGTCCCCTCAGACAAGTTATTGAGGAGCTTGGAGGCTGGCGCATCTCTGGTAAATGGACTTC
CTTAAACTTTAACCGAACGCTGAGACTTCTGATGAGTCAGTATGGCCATTTCCCTTTCTTCAGAGCCTAC
CTAGGACCTCATCCTGCCTCTCCACACACACCAGTCATCCAGATAGACCAGCCAGAGTTTGATGTTCCCC
TCAAGCAAGATCAAGAACAGAAGATCTATGCCCAGATCTTTCGGGAATACCTGACTTACCTGAATCAGCT
GGGAACCTTGCTGGGAGGAGACCCAAGCAAGGTGCAAGAACACTCTTCCTTGTCAATCTCCATCACTTCA
CGGCTGTTCCAGTTTCTGAGGCCCCTGGAGCAGCGGCGGGCACAGGGCAAGCTCTTCCAGATGGTCACTA
TCGACCAGCTCAAGGAAATGGCCCCCGCCATCGACTGGTTGTCCTGCTTGCAAGCGACATTCACACCGAT
GTCCCTGAGCCCTTCTCAGTCCCTCGTGGTCCATGACGTGGAATATTTGAAAAACATGTCACAACTGGTG
GAGGAGATGCTGCTAAAGCAGAGGGACTTTCTGCAGAGCCACATGATCTTAGGGCTGGTGGTGACCCTTT
CTCCAGCCCTGGACAGTCAATTCCAGGAGGCACGCAGAAAGCTCAGCCAGAAACTGCGGGAACTGACAGA
GCAACCACCCATGCCTGCCCGCCCACGATGGATGAAGTGCGTGGAGGAGACAGGCACGTTCTTCGAGCCC
ACGCTGGCGGCTTTGTTTGTTCGTGAGGCCTTTGGCCCGAGCACCCGAAGTGCTGCCATGAAATTATTCA
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GCCCGACAAGAATACAACGATATACAGCTTGGATCGAGCTTCCTGCAGTCTGTCCTGAGCTGTGTCCGGT
CCCTCCGAGCTAGAATTGTCCAGAGCTTCTTGCAGCCTCACCCCCAACACAGGTGGAAGGTGTCCCCTTG
GGACGTCAATGCTTACTATTCGGTATCTGACCATGTGGTAGTCTTTCCAGCTGGACTCCTCCAACCCCCA
TTCTTCCACCCTGGCTATCCCAGAGCCGTGAACTTTGGCGCTGCTGGCAGCATCATGGCCCACGAGCTGT
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ACATTCTTAGAGAATGCTGCAGACGTTGGGGGGCTAGCCATCGCGCTGCAGGCATACAGCAAGAGGCTGT
TACGGCACCATGGGGAGACTGTCCTGCCCAGCCTGGACCTCAGCCCCCAGCAGATCTTCTTTCGAAGCTA
TGCCCAGGTGATGTGTAGGAAGCCCAGCCCCCAGGACTCTCACGACACTCACAGCCCTCCACACCTCCGA
GTCCACGGGCCCCTCAGCAGCACCCCAGCCTTTGCCAGGTATTTCCGCTGTGCACGTGGTGCTCTCTTGA
ACCCCTCCAGCCGCTGCCAGCTCTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201127 protein sequence
Red=Cloning site Green=Tags(s)

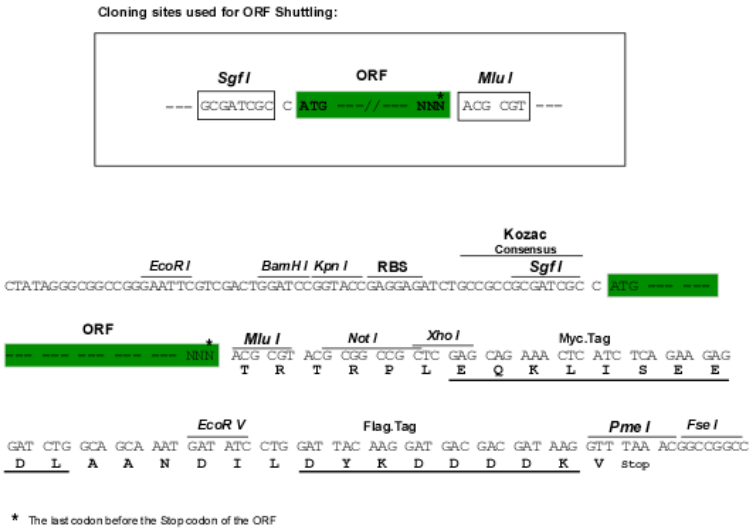
MEGGDQSEEEPRERSQAGGMGTLWSQESTPEERLPVEGSRPWAVARRVLTAILILGLLLCFSVLLFYNFQ
NCGPRPCETSVCLDLRDHYLASGNTSVAPCTDFFSFACGRAKETNNSFQELATKNKNRLRRILEVQNSWH
PGSGEEKAFQFYNSCMDTLAIEAAGTGPLRQVIEELGGWRISGKWTSLNFNRTLRLLMSQYGHFPFFRAY
LGPHPASPHTPVIQIDQPEFDVPLKQDQEQKIYAQIFREYLTYLNQLGTLLGGDPSKVQEHSSLSISITS
RLFQFLRPLEQRRAQGKLFQMVTIDQLKEMAPAIDWLSCLQATFTPMSLSPSQSLVVHDVEYLKNMSQLV
EEMLLKQRDFLQSHMILGLVVTLSPALDSQFQEARRKLSQKLRELTEQPPMPARPRWMKCVEETGTFFEP
TLAALFVREAFGPSTRSAAMKLFTAIRDALITRLRNLPWMNEETQNMAQDKVAQLQVEMGASEWALKPEL
ARQEYNDIQLGSSFLQSVLSCVRSLRARIVQSFLQPHPQHRWKVSPWDVNAYYSVSDHVVVFPAGLLQPP
FFHPGYPRAVNFGAAGSIMAHELLHIFYQLLLPGGCLACDNHALQEAHLCLKRHYAAFPLPSRTSFNDSL
TFLENAADVGGLAIALQAYSKRLLRHHGETVLPSLDLSPQQIFFRSYAQVMCRKPSPQDSHDTHSPPHLR
VHGPLSSTPAFARYFRCARGALLNPSSRCQLW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6083_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000420

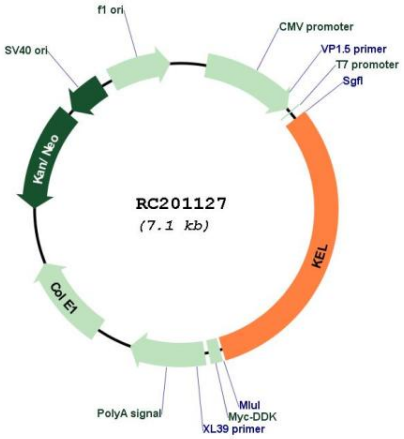
ORF Size: 2196 bp

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

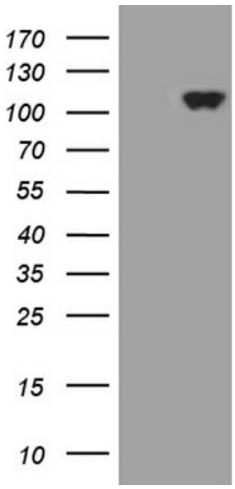
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_000420.3
RefSeq Size:	2562 bp
RefSeq ORF:	2199 bp
Locus ID:	3792
UniProt ID:	P23276
Cytogenetics:	7q34
Domains:	Peptidase_M13
Protein Families:	Druggable Genome, Protease, Transmembrane
MW:	82.8 kDa
Gene Summary:	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]

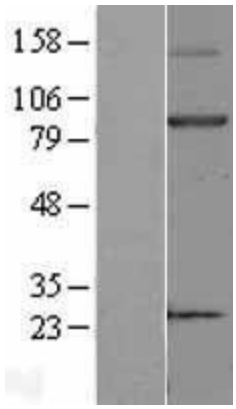
Product images:



Circular map for RC201127



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY KEL (Cat# RC201127, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-KEL (Cat# [TA811548])(1:500). Positive lysates [LY400148] (100ug) and [LC400148] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400148]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201127 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).