

## **Product datasheet for RR205044**

## Kdelr2 (NM 001013122) Rat Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Kdelr2 (NM\_001013122) Rat Tagged ORF Clone

Tag: Myc-DDK Symbol: Kdelr2

**Vector:** pCMV6-Entry (PS100001) **E. coli Selection:** Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >RR205044 representing NM\_001013122
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAACATCTTCCGGCTGACTGGGGACCTGTCCCACCTGGCGGCCATCGTCATCCTACTGCTGAAGATCT
GGAAGACGCGCTCCTGTGCTGGTATTTCTGGGAAAAGCCAGCTCCTGTTTGCACTGGTCTTCACAACTCG
TTACCTGGATCTTTTTACTTCATTCATTTCGTTATATAATACATCTATGAAGCTTATCTACATTGCCTGC
TCCTACGCCACGGTGTACCTGATCTACATGAAGTTTAAGGCCACCTATGATGGAAATCACGACACCTTCC
GAGTGGAGTTTCTTGTGGTTCCTGTAGGAGGCCTCCATTCCTAGTCAACCATGACTTCTCCTCTTGA
GATCTTGTGGACCTTCTCCATCTACCTGGAGTCCGTGGCCATCCTCCCACAGCTCTTCATGATCAGCAAG
ACCGGCGAGGCCGAGACCATCACCACCACTACCTCTTCTTCCTGGGTCTCTACCGTGCTCTCTACCTAG
TCAACTGGATCTGGCGCTTCTACTTCGAGGGTTTCTTTGATCTCATTGCCGTGGTGGCTGGTCGTCCA
GACCATTCTCTACTGCGACTTCTTCTACTTGTACATCACAAAAGTACTCAAGGGAAAAGAAGCTCAGCCTG
CCAGCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205044 representing NM\_001013122

Red=Cloning site Green=Tags(s)

MNIFRLTGDLSHLAAIVILLLKIWKTRSCAGISGKSQLLFALVFTTRYLDLFTSFISLYNTSMKLIYIAC SYATVYLIYMKFKATYDGNHDTFRVEFLVVPVGGLSFLVNHDFSPLEILWTFSIYLESVAILPQLFMISK TGEAETITTHYLFFLGLYRALYLVNWIWRFYFEGFFDLIAVVAGVVQTILYCDFFYLYITKVLKGKKLSL

PΑ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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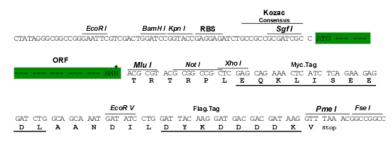


**Restriction Sites:** 

Sgfl-Mlul

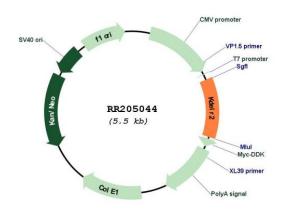
**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

## Plasmid Map:



**ACCN:** NM\_001013122

ORF Size: 636 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: <u>NM 001013122.1</u>, <u>NP 001013140.1</u>

 RefSeq Size:
 1809 bp

 RefSeq ORF:
 639 bp

 Locus ID:
 304290

 UniProt ID:
 Q5U305

 Cytogenetics:
 12p11

 MW:
 24.5 kDa

**Gene Summary:** Receptor for the C-terminal sequence motif K-D-E-L that is present on endoplasmic reticulum

resident proteins and that mediates their recycling from the Golgi back to the endoplasmic reticulum (By similarity). Binding is pH dependent, and is optimal at pH 5-5.4 (By similarity).

[UniProtKB/Swiss-Prot Function]