

## Product datasheet for **RR215593**

### Lrrc14 (NM\_001024354) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrc14 (NM_001024354) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrrc14
Synonyms:	MGC108882
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR215593 representing NM\_001024354  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCACACGCTTGTGTTCTCAGCACACGCCAGGTGCTTCAGTGCCAGCCAGCTGCCTGCCAGGCCCTTGC  
 CCCTGCTGCCCGAGAACTCTCCCTCTGCTGTTCAAGGTGGCCTTCATGGACAAGAAGACAGCCGTGCT  
 CGGTGAGCTGGTGCACACGTGGCCCTTTCCCTCCTCAGTTTCCAGCAGCTGCTGCAGGAGTGTGCCAC  
 TGCAGTCGAGCCCTGCTGCAGGAACGGCTCAGCACAGAAAGCATGCAGGCTGTGATCCTGGGACTGACCG  
 CCCGGATACATGCTCGAGAAGCAGAGGCTGGCACACAGCCGTTTGCAGGAAGCATACACTGCGGGTACT  
 GGACATGACTGGCTCCTGGATGATGGTGTGGAGCAGGATCCAGGAACCATGAGCATGTGGGACTGTACA  
 GCGGGCTAGCCAGAACTGTATTGCCAGCAGCAGGTCGGGACTGCTAAGCCAGGGCTGTACCAGTCC  
 CCGTGGAAATTCGTGTAGACCTCGGGTAAACCGGCCCTCTATACATTCCTTCGTGAGGCACTCCAGAG  
 TAGTGTGGACAGCTGCTGCGGCTCTGCTGCCGGGACCTCGGGCTGAGGATCTGCCCATGCGTAACACT  
 GTGGCCCTACTACAGCTTCTAGATGCAGGCTGTCTGCGCCGTATAGACCTGCGCTCAATAACCTGGGCT  
 TGGTGGCCTGTCTGTCATTATCCACATGTGGCCGCTTTCAGCACCTAGCCAGCTGAGGCTGCATTA  
 TGTGCATGGGGACTCCAGACAGCCCTCCGTGGATGGTGTGGAGCAACTTTTCGCTACTTCTGGCCAGATG  
 GGCCGGTTCATCTGTCTTCGGGAGCTCAGCATTGGCTCTTCTCTCCTCTCAGGCAGGCTGGATCAACTGC  
 TCAGCACCTGCAGAGGCCCTGGAAAGCTAGAGCTGGCCTTCTGTGACTGTTGCCTGAGGACCTACG  
 CTTCTGGCTCAGAGCTCTATGCTGCCACCTCAAAAAGCTGGACTTGAGTGGCAATGACTTGTGACGGC  
 AACAGCTGACACCCTTCAGGGTCTGCTGCAGGCAGTAGCAGCCACACTGCTGCATCTTGAGCTGACTG  
 AGTGCAGATTGCTGATGCCAGTTGTTGGCCACACTGCCACCCTGACTCGCTGTGCCAGTCTCCGATA  
 CCTTGGTCTCTATGGCAACCCTTTGTCTATGGCAGGACTTAAAGAGCTGCTTCGGGACTCTGTGATTGAG  
 GCTGAGCTACGTACTGTGGTGCACCCTTTCCCTGTGGACTGCTATGAGGGTCTTCTTGGCCGCCACCTG  
 CCTCTGCTCTTCTGGAAGCCTCCATCAATGAGGAGAAGTTTGGCCGTGTAGAAGCTGAGTTACACCAGCT  
 GCTGTTAGCTTACAGCCGTGCCCATGTACTCTGGACCACAGACATCTATGGCCGGCTGGCTGCAGACTAT  
 TTTAACCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR215593 representing NM\_001024354  
 Red=Cloning site Green=Tags(s)

MHTLVFLSTRQVLQCQPAACQALPLLPRELFPLLFKVAFMKKTAVLRELVHTWPFLLSFQQLLECAH  
 CSRALLQERLSTESMQAVILGLTARIHAREAEAGTQPVCRKHTLRVLDMTGLLDDGVEQDPGTMSMWDCT  
 AAVARTCIAQQQVGTAKPGLSPVPVEIRVDLRVNRASYTFLREALQSSVDSLLRLCCRDRAEDLPMRNT  
 VALLQLLDAGCLRRIDLRFNNLGLRGLSVIIPHVARFQHLASLRLHYVHGDSRQPSVDGEDNFRYFLAQM  
 GRFICLRELSIGSLLSGRLDQLLSTLQRPLESLELAFCALLPEDLRFLAQSSHAHLKLLDLSGNDLSG  
 NQLTPFQGLLQAVAATLLHLELTECQIADAQLLATLPTLTRCASLRYLGLYGNPLSMAGLKELLRDSVIQ  
 AELRTPVHPPVDCYEGLPWPPASVLLLEASINEEKFARVEAELHQLLLASGRAHVLWTTDIYGRLAADY  
 FNL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

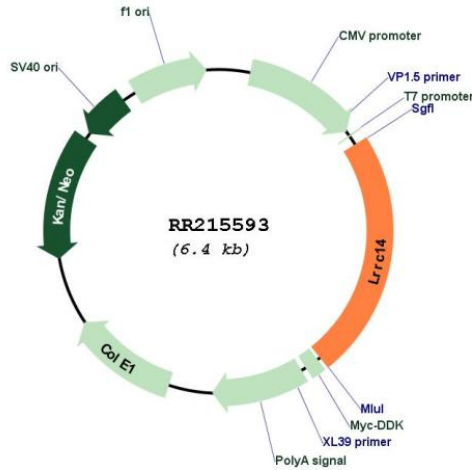
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001024354

ORF Size: 1479 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\\_001024354.1](#), [NP\\_001019525.1](#)

**RefSeq Size:** 2173 bp

**RefSeq ORF:** 1482 bp

**Locus ID:** 500900

**UniProt ID:** [Q569B5](#)

**Cytogenetics:** 7q34

**MW:** 54.9 kDa

**Gene Summary:** Negatively regulates Toll-like receptor-mediated NF-kappa-B signaling by disrupting IKK core complex formation through interaction with IKBKB.[UniProtKB/Swiss-Prot Function]