

## Product datasheet for **RR215694**

### Lrrc55 (NM\_001122975) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrc55 (NM_001122975) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrrc55
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR215694 representing NM_001122975 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCTCCCTACAGTACTGCTGCTGCCAGCTGCCAAAGATGGGTGACACCTGGGCCAGCTTCCCTGGC  
CTGGGCCGCCCCACTCGGCCTTGTGCTGGTCTTCTTCTTGGCAGCTGGGGTGATGCACTCTGATGC  
GGGTGCCAGTTGTCCAGTCTTTGTACATGTCGTAACCAAGTAGTGGACTGCAGCAACCAGCGGCTGTT  
TCTGTACCCCGACCTGCCAATGGACACCCGAAACCTCAGCCTAGCCACAATCGATTGCAGCCGTGC  
CTCCAGGCTATCTCACATGCTACATGGAACCTCCGCGTGTGGATTGCGAAACAACCTCCTTGATGGAAC  
GCCCCCTGGCCTTTTCTCCACGCCAAGCGCTTAGCACATCTGGATCTGAGCTATAACAACCTCAGCCAC  
GTGCCAGCTGACATGTTCCGGGAGGCTCATGGCCTGGTACACATCGACCTGAGCCACAACCCCTGGCTGC  
GGAGGGTGACCCCCAGGCCTTCCAGGGCCTTGTGCATCTCAGAGACCTGGATCTCAGCTATGGTGGCCT  
GGCTTTTTGAGCCTTGAAGCCCTTGAAGGCTCCTCCGGGGCTGGTGACCTACAGATCGGAGGTAACCCA  
TGGGTATGCGGCTGCACCATGGAGCCCTTGCTAAAGTGGTTGCGGAATCGGATACAGCGCTGTACAGCGG  
ATTCTCAGCTGGCTGAGTGTGGGGCCCCCTGAAGTTGAGGGTGCCCCCTCTTTTCACTCACTGAAGA  
GAGCTTCAAGGCCTGCCACCTGACTCTGACCCTGGATGATTACCTTTTATCGCATTGTGGGCTTTGTG  
GTCTCCATCGCTTCTGTAGCCACCAACTTCTCCTGGGCATCACGGCCAACCTGCTGTACCGTTGGAGCA  
AGGCAATGAAGAAGAAGAGATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR215694 representing NM\_001122975  
 Red=Cloning site Green=Tags(s)

MGSLQYCCCQLPKMGDTWAQLPWP GPPHSALLLVFFLLAAGVMHSDAGASCPVLCTCRNQVVDSCNQRLF  
 SVPPDLPMDTRNLSLAHNRIA AVPPGYLTCY MELRVLDLRNNSLMELPPGLFLHAKRLAHLDSLNNLSH  
 VPADMFR EAHGLVHIDL SHNPWLR RVHPQAFQGLVHLRDLDSL YGGLAFLSLEALEGLPGLVTLQIGGNP  
 WVC GCTMEPLLKWL RNRIQRCTADSQLAECRGPPEVEGAPL FSLTEESFKACHLTLTDDYLFIAFVGFV  
 VSIASVATN FLLGITAN CCHRWSKANEEEEI

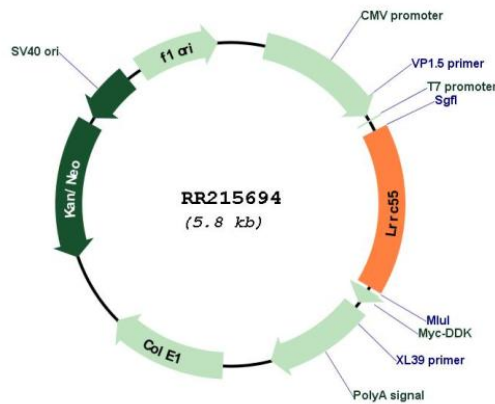
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001122975

<b>ORF Size:</b>	933 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001122975.1</a> , <a href="#">NP_001116447.1</a>
<b>RefSeq Size:</b>	1847 bp
<b>RefSeq ORF:</b>	936 bp
<b>Locus ID:</b>	311171
<b>UniProt ID:</b>	<a href="#">Q4KLL3</a>
<b>Cytogenetics:</b>	3q24
<b>MW:</b>	34.5 kDa
<b>Gene Summary:</b>	Auxiliary protein of the large-conductance, voltage and calcium-activated potassium channel (BK alpha). Modulates gating properties by producing a marked shift in the BK channel's voltage dependence of activation in the hyperpolarizing direction, and in the absence of calcium (By similarity).[UniProtKB/Swiss-Prot Function]