

## Product datasheet for RR202754

### Lrp6 (NM\_001107892) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lrp6 (NM_001107892) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrp6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR202754 representing NM_001107892 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTA**CTGGACAGACTGGGGAGAAGTGCCAAAGATAGAACGTGCTGGAATGGATGGTTCAAGTCGCTTTG**  
TTATAATAAA**CACTGAGATTTACTGGCCAAATGGACTGACTCTGGATTATGAGGAGCGGAAGCTTTATTG**  
GGCAGATGCAAA**ACTTAATTTTATCCATAAATCAAACCTGGACGGAACAAATCGACAGGCAGTGGTTAAA**  
GGTTCCCTTCCACATCCTTTTGCCTTGACGTTATTTGAGGACACATTGTACTGGACTGACTGGAATACAC  
ACTCTATTTTGGCTTGAACAAGTATACTGGCGAGGGTCTGCGTGA**AAATTCATTCTAACATCTTCTCC**  
CATGGATATACATGCTTTT**CAGCCAACAGAGGCAGCCAAATGCTACAAATCCATGTGGAATTGATAATGGT**  
GGTTGTTCC**CAATTTGTGTTTGTGTCTCCAGTCAAGCCTTTTTATCAGTGTGCTTGCCAACTGGGGTCA**  
AGCTTCTGGAGAGTGGAAAA**ACCTGCAAAGATGGTGCCACTGAACTATTGCTGTTAGCCCGACGGACAGA**  
CTTGAGGGCGATCTCTTTGGATACACCAGATTT**CACCGACATTGCTTACAGTTAGAAGACATCCGACAT**  
GCCATTGCCATAGACTACGACCCCGTGAAGGCTACG**TCTACTGGACGGACGATGAAGTACGGGCCATCC**  
GTCGCTCCTT**CATTGATGGATCTGGCAGTCAGTTTGTGGTACGGCCAGATTGCCATCCTGATGGTAT**  
TGCTGTTGACTGGGTGGCAAGAA**CTGTACTGGACAGACTGGCACTGATCGGATAGAAGTGACAAGG**  
CTCAATGGGACCATGAGGAAGATCCTGATTT**CAGAGGACTTAGAGGAGCCCGGGCTATTGTGTTAGATC**  
CCATGGCTGGGTACATGTACTGGACGGACTGGGGAGAAATCCCAA**AAATCGAGCGAGCTGCTCTGGACGG**  
ATCTGACCGAGTAGTTCTTGTAA**CACTTCCCTTGGTTGGCCAAATGGCTTAGCCCTGGATTATGATGAA**  
GGCACAATATACTGGGGAGATGCCAAAACAGACAAAAT**TGAGGTTATGAATACTGATGGCACTGGGAGGC**  
GAGTGTGGTGGGAAGACAAGATCCCTCACATATTTGGGTTACCTT**GCTGGGCGACTATGTTTACTGGAC**  
TGACTGGCAGAGGCGGAGCATCGAGAGAGTGCACAAGCGGAGTGCAGAGAGGGAGGTCATAATAGACCAG  
CTGCCAGACCTCATGGGACTGAAGGCCACAAGCGTT**CACAGAGTCATTGGTTCTAACCCCTGTGCTGAGG**  
AGAATGGAGGATGTAGCCATCTTTGCCTTACAGGCCTCAGGGACTTCGATGTGCCTGTCCCA**ATTGGCTT**  
TGAGCTCATTAGTGACATGAAGACATGCATTGTT**CTCCTGAGGCTTCCCTTCTGTTCTCACGGAGAGCAGAT**  
ATAAGAGCATCTCTTTGGAAACAACAACAATGTGGCCATT**CCTCTCACGGGTGTCAAAGAAGCTT**  
CTGCTTTGGATTTT**GATGTCACAGACAACAGAATTTACTGGACCGATATATCCCTGAAGACTATTAGCAG**



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AGCTTTTATGAATGGCAGTGCACCTGGAACATGTGGTAGAGTTCGGCTTAGATTACCCAGAAGGCATGGCA  
GTGGACTGGCTTGGGAAGAACTTATACTGGGCAGACACAGGAACAAATCGCATTGAGGTGTCAAAGTTGG  
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TGAAGGATTTATGTATTGGACTGAGTGGGGAGGGAAGCCTAAGATTGACAGAGCGGCTATGGATGGAAGT  
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GCACTGCTCCACCTTTGCTTGGCTGTGCCTGTTGGAGTTTTGTGTGGATGCCCTGCCCACTACTCC  
CTGAATGTGACAACAGGACCTGTAGTGTCTACCACCTTCTGCTCTTCAGTCAGAAGAGCGCCATCA  
ACCGCATGGTGATTGATGAACAACAGAGTCTGACATCATCTTCTATCCACAGCCTTCGGAACGTCGG  
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ATTGTGGTAAACCCTGAGAAAGGTATATGTATTTTACCAATCTTCAGGAAAGATCTCCCAAAATGAAAC  
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TCTCGACAGCAAGCTGAGCAGGCTCTTCTGGGCTGACTCCGACCTCCGGCGAATTGAGAGCAGCGACCTC  
TCAGGTGCCAACAGGATCGTGCTAGAGGACTCTAATATATTGCAGCCTGTGGGTCTGACCGTGTGAGA  
ACTGGCTCTACTGGATTGATAAGCAGCAACAGATGATTGAAAAAATTGACATGACTGGTCGCGAAGGCAG  
AACCAAGGTCCAGGCTCGGATTGCTCAGCTCAGTGACATCCATGCAGTGAAGGAGCTGAACCTTCAGGAA  
TACAGACAGCACCCGTGTGCCCAGGATAATGGTGGCTGTTACATATTTGCCTTGTAAAAGGAGATGGTA  
CCACAAGATGCTCCTGTCCCATGATTTAGTTCTGCTTCAGGATGAGCTGTCTGTGGAGAGCCTCCAAC  
ATGTTCTCCTCAGCAGTTTACGTGTTTCACTGGGACATTGACTGCATCCCTGTGGCCTGGCGGTGTGAT  
GGGTTTACTGAATGTGAAGACCACAGTGTGAGCTCAACTGTCCTGTGTGCTCGGAGTCTCAGTTCCAGT  
GTGCCAGCGGGCAGTGCATTGACGGCGCCCTTCGATGCAATGGTGACGCGAACTGCCAGGATAAATCGGA  
TGAGAAGAACTGTGAAGTGCTTTGTCTAATTGATCAGTTCCGCTGTGCCAATGGTCAGTGCCTGGAAAA  
CACAAGAAATGCGACCACAATGTGGACTGCAGTGACAGATCTGATGAACTGGACTGCTATTTTGAACCCA  
CCACCATCTACAGGCCGTACAGCTACCGGCACCTTGCACCGCCCACTACACCCTGCAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202754 representing NM\_001107892  
 Red=Cloning site Green=Tags(s)

MYWTDWGEVPKIERAGMDGSSRFVIINTEIYWPNGLTLDYEERKLYWADAKLNF IHKSNLDGTRNQAVVK  
 GSLPHPFALTLFEDTL YWTDWNTHSILACNKYTGEGLREIHSNIFSPMDIHAFSQQRQPNATNPCGIDNG  
 GCShLCLMSPVKPFYQCACPTGVKLLSgKTCkDgATELLLLARRDLRRISLDTPDFTDIVLQLEDIRH  
 AIAIDYDPVEGYVYWTDDDEVRAIRRSFIDGSGSQFVVTAQIAHPDGIADVWVARNLYWTDGTDRIEVTR  
 LNgTMRKILISEDL EEPRAIVLDPMAGYMYWTDWGEIPKIERAALDGSDRVVLVNTSLGWPNGLALDYDE  
 GTIYWGDAKTDKIEVMNTDGTGRRVLVEDKIPHFIFGFTLLGDYVYWTDWQRRSIERVHKRSAEREVIIDQ  
 LPDLMLKATSVHRVIGSNPCAENGCGShLCLYRPQGLRCACPIGFELISDMKTCIVPEAFLLFSRRAD  
 IRRISLETNNNNVAIPLTGvKEASALDFDVTDNRIYWTDISLKTISRafMNGSALEHVVEFGLDYPEGMA  
 VDwLGNLYWADTGTRNIEVSKLDGQHRQVLVwKDLDSPrALALDPAEGFMWTEWGGPKIDRAAMDGS  
 ERtTLVPNVGRANGLTIDYAKRRLYwTDLDTNLIeSSNMLGLNREVIADDLPHPFGLTQYQDYIYWTDS  
 RRSIERANKTSGQNRtIIQGHLDYVMDILVFHSSRQAGWNECASSNGHCSHLCLAVPVGGFVCGCPAHYS  
 LNADNRtCSAPtTFLFSQKSAINRMVIDEQQSPDIILPIHSLRNvRAIDYDPLDKQLYWIDSRQNMIRK  
 AQEDGGQGFtVVVSSVPNQNL EIQPYDLSIDIYSRYIYWTCEATNVIDVTRLDGRSVGVVLKGEQDRPRA  
 IVVNPekGYMYfTNLQERSPKIERAALDGTEREVLFfSGLSKPVALALDSKLSRLFWADSLRRIESSDL  
 SGANRIVLEDSNILQPvGLTVFENWLYWIDKQQMIeKIDMTGREGRtkVQARIAQLSDIHAVKELNLQE  
 YRQHPCAQDNggCSHICLVKGDGtTRCSCPMHLVLLQDELSCGEPtCSPQqFTCFtGDIDCIPVAWRCD  
 GFTECEDHSDelNCPVCSESQFQCASGQCIDGALRCNGDANCQDKSDEKNCeVLCIDQFRcANGQCVGK  
 HKKCDHNvDCSDRSDELDCYfEPtTILQAVQLPALCTAHYTLQH

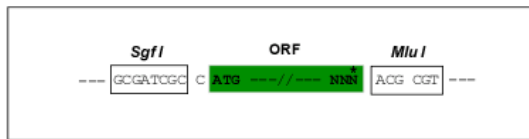
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

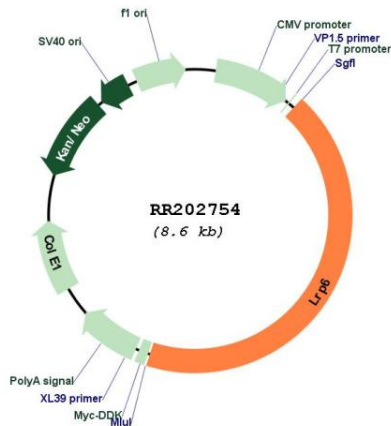


\* The last codon before the Stop codon of the ORF

ACCN: NM\_001107892

ORF Size: 3702 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>	<u>NM_001107892.1, NP_001101362.1</u>
<b>RefSeq Size:</b>	5092 bp
<b>RefSeq ORF:</b>	3705 bp
<b>Locus ID:</b>	312781
<b>Cytogenetics:</b>	4q43
<b>MW:</b>	139.4 kDa

**Product images:**


Circular map for RR202754