

## Product datasheet for **RC205223**

### **LRRC36 (NM\_018296) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	LRRC36 (NM_018296) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LRRC36
Synonyms:	RORBP70; XLHSRF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC205223 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAGCAATGGGAGCTGGACGAGGAAGGCATTCGCCGCCTGGGGCGCTGACGCTGGAGCAGCCGG  
 AACTGGTGGAGTCTTTTCATTGCAGGGATCTTATGCTGGCAAAATCCATTCCATTAGTGATGCCTTCAG  
 AAATTTTAAAAATCTCCGATCCTTAGATTTATCAAGGAATTTGATCACTAGCCTTAAGGGAATCCAGTAT  
 TTATGTTCACTCCAAGACCTGAATTTATATTATAACAACATTCCTTCATTAGTGAAGTGTCCCCTCTAC  
 AACCGTTACCTTCTCAAGAAGTGGATTTGAGACTTAATCCTGTTGTAAGGAAAGATACAGATTATAG  
 GCTCTTTGCTGTATACACTACAACTCTGGAGAAATAGATGACCGAAGTGTACGTGAAGGTGAGAGA  
 AAAGCTGCCAAGCTGCATTTTAGTCAGTTGGGCAACAGTAAAAATTTCTTTAGAGGTGGAAAAAGCT  
 CTAGGGAGAAGACAATGAAAACTGTGAACAGGTGAGAGCTCTGCATCAAAAGTCAGTGCTAATGTTGA  
 CAGCAGGATTGAAATGGACTCAACAAAGGACTTTTTATTCCCTTCCCAACCGGAAATAAAGGATTCC  
 CTAAGTACTTCTGCAACTCAGGGCAATGGTACAGTGATCAGAAATTAGACACCTTCCCCTGGGGACAC  
 AGACACAGGAAGTAGCAAGAAGGGAGATGCCAAGTGACAATCACCAGGAAGATGAGTTCAGACACTACTC  
 GCCTCGTCAGTCCACAGTCCGATCCCCAGAGAAGATGACTAGAGAAGGGTACCAAGTATCTTTTTGGAC  
 AATAAGTCTTCAGGTTCTTCTCCAGAAAAGGAATTGATACAAAACCTGATACTTTTCATCTTACCCATG  
 ATGCCTCATTGAGTAAATGCCTGGATGTGGGTGATTCTAGCCAGATCCATCCCTATCAGTTACCTTCAGA  
 TGTTGGTCTGGAAAATATGACAGTTGTTATTCTCAAACCTATCCCTGCATGGAAGTCTTGGTAAAAGG  
 CCTCAGAGAAGCAAGAACTATCAAGAGTATAGCATAAAGCCTTCAAATGCATAAAGACCACCGCTTAC  
 ATTCTGTGGAGACTTATTAACCTCTCTGTCAAACCTGACTCCAGCACTGGAAGGCTTTTGAAGCTTAG  
 TTCAGATCTGTATGCCACAACCCATTTCAACAGTGACCCTGCTGTACTTGTCAATGTAGAGCAACAATTA  
 TCTACCAGCCTGGATGATTTAACACCAGCACATGGTTCTGTCCAAAACAACGCTGTCTGGGAAACAGGA  
 CAACTCTCTGCGGACACTGCTGTTGTCTCCTGGGACTTCAGAACACAGAAAGATTTTTACCAAGAGGTC  
 ACTAAGCCATCGAAGAGAGGATTCAAATGGAAGGACAATATCCTTGCCAACTGAATCTAAAGCATGGT  
 TTCCAAGATGCTACAGGCAGCGAGCCTCTCTAGTGACCTGGTAGTTTGCACGGTTTGGCTGGAAACC  
 ACAGTCCCCCATCTCTGCCAGAACCCCATGTGGCCACTGTCTCAGACAGCTCCTGGAGCTTGTGGA  
 TAAGCACTGGAATGGCTCCGGCTCCCTCCTCAACAAGAAGTTTCTCGGTCTGCCCGAGATTTGCTT  
 CTGTCTTTGGTAGTCCCGCTCCTTCTCAGCCGAGGTGTTGCTCACATCCTGAAGACACGATGAAAGCAT  
 TCTGCAGGAGGGAGCTTGAAGTGAAGGAGGCTGCGCAGCTGGTCCCTAATGACATGGAAAGTTTGAAGCA  
 AAAACTGGTCAGAGTGCTGGAGGAAAACCTCATTTTGTGCAAAAAAATCAACAGTTGGAGGAAGGTGCT  
 GCCATCTCAATTGTGAGTGGGCAACAGTCACATACTTATGATGATCTTCTGCACAAAAACCAACAGCTGA  
 CCATGCAGGTGGCTTGCCTGAACCAGGAGCTTGCCAGCTGAAAAAGCTGGAGAAGACAGTTGCCATTCT  
 CCATGAAAGTCAGAGATCCCTGGTGGTAACTAATGAGTATCTGCTGCAGCAGCTGAATAAGGAGCCAAAA  
 GGTTATCCGGGAAAGCGCTCCTGCCTCCTGAGAAGGGTCATCATCTGGGGAGATCATCGCCCTTTGGGA  
 AAAGCACGTTGTCTTCTCCTCACCAGTGGCACATGAGACTGGTCAGTATCTAATACAGAGCGCTTGGGA  
 TGCTGCCCCAGAGCCTGGCTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC205223 protein sequence  
Red=Cloning site Green=Tags(s)

```
MAEQWELDEEGIRRLGALTLEQPELVESLSLQGSYAGKIHSISDAFRNFKNLRSLDLRNLIITSLKGIQY
LCSLQDLNLYNNIPSLVEVSRQLPLFLKELDLRLNPVVRKDDYRLFVAVYTLQLEKLDVRTVREGER
KAAKLHFSQLGNSENFLLLEVEKSSREKTMKNCVTGESSASKVSVANVDSRIEMDSNKGLFIPFPNREIKDS
LSTSATQNGTRDQKLDTFPLGTQTQEVARREMPSDNHQEDEFRHYSRQSTVRSPEKMTREGYQVSFLD
NKSSGSSPEKELIPKPDFHLTHDASLSKCLDVGDSQIHPYQLPSDVGLNENYDSCYSQTLHLHGLGKR
PQRSKNYQEYSIKPSNDIKTTASHSCGDLTSLSNPDSSTGRLLKLSDDL YATTFNSDPAVLVNVEQQL
STSLDDLTPAHGSPVNNAVLGNRTTPLRLLLLSPGTSEHRKIFTKRSLSPSKRGFKWKNILANLNKKG
FQDATGSEPLSSDLGSLHGLAGNHSPPI SARTPHVATVLRQLLELVKHWNGSGSLLLNKFLGPARDLL
LSLVVPAPSQPRCCSHPEDTMKAFCRLELEKAAQLVPNDMESLKQKLVRLVLEENLILSEKIQQLEEGA
AISIVSQQSHTYDDLHKNQQLTMQVACLNQELAQKLEKTVAILHESQRSLVVTNEYLLQQLNKEPK
GYSKGALLPPEKGHHLGRSSPFKSTLSSSSPVAHETGQYLIQSVLDAAPEPL
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6536\\_e02.zip](https://cdn.origene.com/chromatograms/mk6536_e02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

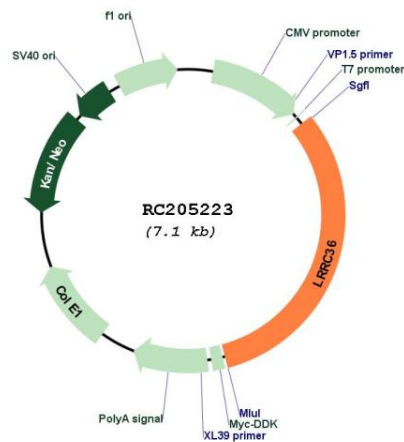
**ACCN:** NM\_018296

**ORF Size:** 2262 bp

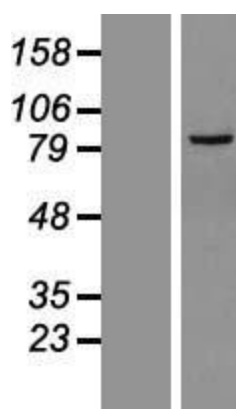
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

<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_018296.4, NP_060766.4</u>
<b>RefSeq Size:</b>	2416 bp
<b>RefSeq ORF:</b>	2265 bp
<b>Locus ID:</b>	55282
<b>UniProt ID:</b>	<u>Q1X8D7</u>
<b>Cytogenetics:</b>	16q22.1
<b>MW:</b>	83.9 kDa

**Product images:**


Circular map for RC205223



Western blot validation of overexpression lysate (Cat# [LY413144]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205223 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).