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Product datasheet for RC222703

LRRC31 (NM_024727) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRC31 (NM_024727) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LRRC31
Synonyms:	HEL-S-293
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC222703 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTCAAACAAGGAAGAAAACTTCCTCAGAAGGAGAAACTAAGCCCCAGACTTCAACTGTCAACAAAT
TTCTCAGGGGCTCCAATGCTGAAAGCAGAAAAGAGGACAATGACCTTAAAACAAGTGATTCCCAACCCAG
CGACTGGATACAGAAGACAGCCACCTCAGAGACTGCTAAGCCTCTCAGTTCAGAAATGGAATGGAGATCC
AGTATGGAGAAAAATGAGCATTTCCTGCAGAAGCTGGGCAAAAAGGCTGTCAACAAGTGTCTAGATTTGA
ATAACTGTGGATTAACAACAGCGGACATGAAAGAAATGGTTGCCTTGCTGCCTTTTCTCCCAGACTTGGA
AGAACTGGATATCTCCTGGAATGGTTTTGTAGGTGGAACCCTCCTTTCCATCACTCAGCAAATGCATCTG
GTCAGCAAGTTAAAAATCTTGAGGCTGGGTAGCTGCAGACTCACCACTGACGATGTTCAAGCACTGGGAG
AAGCATTTGAGATGATTCCTGAACTTGAAGAGCTAAATTTGTCTTGGAACAGTAAAGTGGGAGGAAATTT
GCCTCTGATCCTTCAGAAGTTCCAAAAAGGGAGCAAGATACAAATGATTGAGCTTGTGGATTGCTCCCTC
ACGTCAGAAGATGGGACATTTCTGGGTCAACTGCTACCTATGCTGCAAAGTCTCGAAGTACTTGATCTTT
CCATTAACAGAGACATTGTTGGCAGTCTGAACAGTATTGCTCAGGGATTAAAAAGCACCTCAAATCTGAA
AGTACTGAAGTTACATTCATGTGGATTATCACAAAAGAGTGTCAAAATATTGGATGCTGCTTTTAGGTAT
TTGGGTGAGCTGAGGAAATTAGATCTTTCCTGCAATAAGGATCTAGGTGGAGGTTTTGAAGACTCGCCGG
CTCAGTTGGTCATGCTAAAGCATCTACAAGTCCTAGATCTTCACCAGTGCTCACTAACAGCAGATGACGT
GATGTCACTGACCCAGGTCATTCCTTTACTTTCAAATCTTCAAGAATTGGATTTATCAGCCAACAAAAAG
ATGGGCAGTTCTTCTGAAAACTTACTCAGCAGGCTCCGATTTTTACCAGCATTGAAGTCATTAGTTATCA
ACAACTGTGCTTTGGAGAGTGAGACTTTTACAGCTCTTGCTGAAGCCTCTGTTCACCTCTCTGCTCTGGA
AGTATTCAACCTTTCTTGGAACAAGTGTGTTGGTGGCAACTTGAAGCTGCTTCTGGAAACACTAAAGCTT
TCCATGTCTCTTCAAGTGCTGAGGCTGAGCAGCTGTTCCCTGGTGACAGAGGATGTGGCTCTCCTGGCAT
CGGTCATACAGACGGGTCATCTGGCCAAACTGCAAAAGCTGGACCTGAGCTACAATGACAGCATCTGTGA
TGCGGGGTGGACCATGTTCTGCCAAAACGTGCGGTTCCTCAAAGAGCTAATCGAGCTGGATATTAGCCTT
CGACCATCAAATTTTCGAGATTGTGGACAATGGTTTAGACACTTGTTATATGCTGTGACCAAGCTTCCTC
AGATCACTGAGATAGGAATGAAAAGATGGATTCTCCCAGCTTCACAGGAGGAAGAACTAGAATGCTTTGA
CCAAGATAAAAAAAGAAGCATTCACTTTGACCATGGTGGGTTTCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222703 protein sequence
Red=Cloning site Green=Tags(s)

MSQTRKKTSSEGETKPQTSTVNKFLRGSNAESRKEDNDLKTSDSQPSDWIQKTATSETAKPLSSEMEWRS
SMEKNEHFLQKLGKKAVNKCLDLNNCGLTTADMKEMVALLPFLPDLEELDISWNGFVGGTLLSITQQMHL
VSKLKILRLGSCRLTTDDVQALGEAFEMIPELEELNLSWNSKVGGNLPLILQKFQKGSKIQMIELVDCSL
TSEDGTFLGQLLPMLQSLEVLDLSINRDIVGSLNSIAQGLKSTSNLKVLKLHSCGLSQKSVKILDAAFRY
LGELRKLDLSCNKDLGGGFEDSPAQLVMLKHLQVLDLHQCSLTADDVMSLTQVIPLLSNLQELDLSANKK
MGSSSENLLSRLRFLPALKSLVINNCALESETFTALAEASVHLSALEVFNLSWNKCVGGNLKLLLETLKL
SMSLQVLRLSSCSLVTEDVALLASVIQTGHLAKLQKLDLSYNDSICDAGWTMFCQNVRFLKELIELDISL
RPSNFRDCGQWFRHLLYAVTKLPQITEIGMKRWILPASQEEELECFDQDKKRSIHFDHGGFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6603_c03.zip

Restriction Sites: SgfI-MluI

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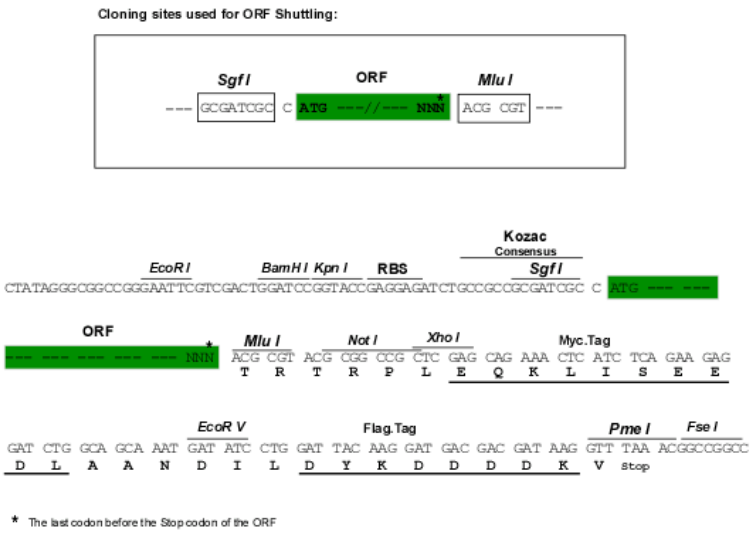
Cloning Scheme:



ACCN: NM_024727

ORF Size: 1656 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_024727.4

RefSeq Size: 2543 bp

RefSeq ORF: 1659 bp

Locus ID: 79782

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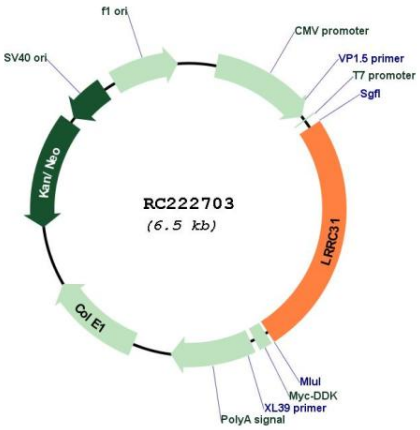
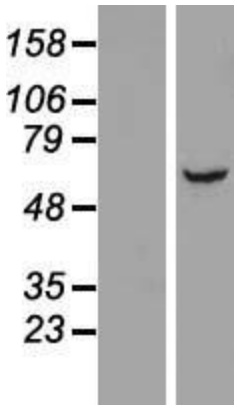
UniProt ID: Q6UY01
Cytogenetics: 3q26.2
Domains: LRR, LRR_RI, LRR_PS
MW: 61.5 kDa

Product images:



Circular map for RC222703



Western blot validation of overexpression lysate (Cat# [LY411124]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222703 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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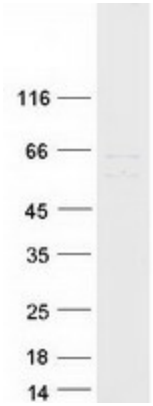

Coomassie blue staining of purified LRRC31 protein (Cat# [TP322703]). The protein was produced from HEK293T cells transfected with LRRC31 cDNA clone (Cat# RC222703) using MegaTran 2.0 (Cat# [TT210002]).

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