

Product datasheet for **RC229938**

LRRC34 (NM_001172780) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	LRRC34
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PSI00001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC229938 representing NM_001172780
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGCAGCGCAGCCGCGCGGCCAGTGGGTGAGAGGAGCATGGGGAGCTCCCGGGAGGCCGCCCGTGGCGC
CGGCCAGGTCCCGGCTTGGGCTCCACTCAGGCCAGTACTCCGGCGCGGCCCTGGCGGTCCAGCGCGA
ATCTCCAGAATCTGGTCTCCAGAAACATTATTCTAATCTGTGTATGGAAAAATCCAGAAAAATTAATCCT
TTTATATTGCATATACTCCAAGAGTGGATGAAGAAATTTAAAGGGGCTAGCAGCAGGAATCACATTAA
ACATTGCTGGTAACAATCGCTTAGTGCCAGTAGAAGAGTTACAGGTGAAGATTTTGGATTCTTTCCAA
AATTTTAAAGAATTGCTGTATATTAATGGTTGGATGTTGGATATAACCTTCTATGTGATGTTGGTGCA
TACTATGCTGCGAACTGCTTCAGAAACAACCTTAATCTCATTACTTAAACCTCATGTTAATGATATTG
GGCCCCGAAGGTGGAGAATTGATTGCTAAAGTGCTACATAAGAATCGGACTCTGAAATACCTAAGAATGAC
TGGAACAAAATTGAAAATAAAGGTGGAATGTTTTTGTGCAATGCTGCAATTAATTATCATTAGAG
AAATTAGATCTGGGTGACTGTGATCTGGGAATGCAAAGTGTGATAGCATTGCTACAGTACTAACTCAA
ACCAAGCAATTAAGGCAATAAACCTAAACCGACCTATACTGTACAGTGAACAGGAAGAGTCTACAGTCCA
TGTAGGCCGCATGTTGAAAGAAAATCACTGTCTTGTGCACTACACATGTGTAAGCATGATATAAAAAAC
AGTGGTATACAACAGTTATGTGATGCACTGTATCTGAACAGTAGCCTGCGCTACCTTGATGTCAGCTGCA
ACAAAATACTCATGATGGAATGGTGTATTTGGCTGATGTACTGAAAAGCAACACTACCCTGGAAGTAAT
AGATCTTTCCCTTTAACAGAATAGAAAATGCAGGCGCAAACCTATCTCAGTGAAACTCTTACTTCACACAAC
AGGAGTCTTAAAGCGTTAGTATGTTTTATATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC229938 representing NM_001172780

Red=Cloning site Green=Tags(s)

MAAQPPRPVGERSMGSSREAARAPARSPAWASTQASTPGAALAVQRESPESGLQKHYSNLCMEKSQKINP
FILHILQEVDDEEIKKGLAAGITLNIAGNNRLVPVERTGEDFWILSKILKNCLYINGLDVGYNLLCDVGA
YYAAKLLQQLNLIYLNLMFNDIGPEGGELIAKVLHKNRTLKYLRTGNKIENKGMFFAAMLQINSSLE
KLDLGDCDLGMQSVIAFATVLTQQAIAKAINLRPILYSEQEESTVHVGRMLKENHCLVALHMCKHDIKN
SGIQQLCDALYLNSSLRYLDVSCNKITHDGMVYLADVLKSNTTLEIDLFSFNRIENAGANYLSETLTSHN
RSLKALVWFYI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

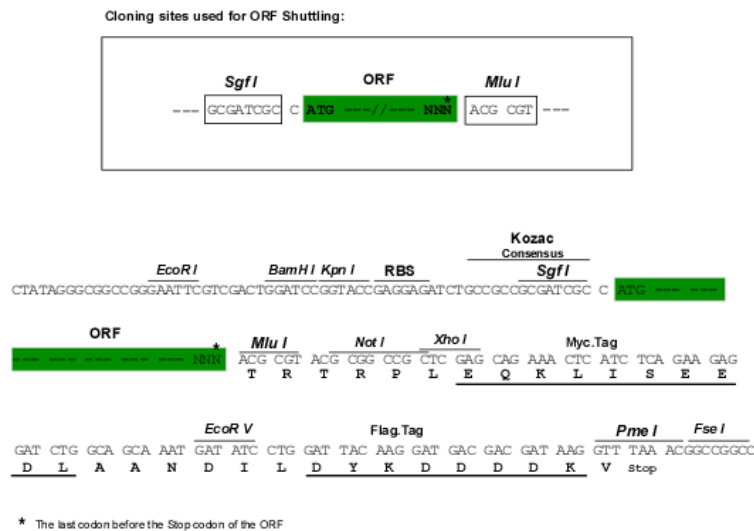
Chromatograms:

https://cdn.origene.com/chromatograms/mk8054_f10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001172780

ORF Size:

1083 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:

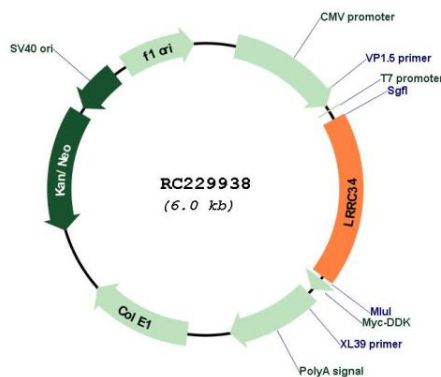
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_001172780.2</u>
RefSeq ORF:	1086 bp
Locus ID:	151827
Cytogenetics:	3q26.2
MW:	40.5 kDa
Gene Summary:	Highly expressed in stem cells where it may be involved in regulation of pluripotency. In embryonic stem cells (ESCs), important for normal expression of the pluripotency regulators POU5F1/OCT4 and KLF4. Also important for expression of the ectodermal marker gene NES and the endodermal marker gene GATA4. Promotes stem cell proliferation in vitro. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC229938