

## Product datasheet for **RC216229**

### **NHLRC2 (NM\_198514) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NHLRC2 (NM_198514) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NHLRC2
Synonyms:	FINCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC216229 representing NM\_198514  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGCGCCCGGAGGCCGGGGCCGAGCCTCTCCGGCCTGCTCCCGCGCAGACCTCGCTAGAGTACG  
CCCTGCTCGACGCGTTACCCAGCAGGAGAAGGACAGCCTGGTCTACCAGTATCTGCAGAAGGTGGACGG  
CTGGGAGCAGGACTTGTCAGTACCCGAGTTTCCGGAAGGATTAGAATGGCTGAACACAGAAGAACCTATT  
TCTGTCTACAAGGATCTATGTGAAAAATAGTCGTCCTTGATTTCTTACCTACTGCTGCATAAACTGTA  
TTCACCTATTGCCTGATCTCCATGCATTAGAACACACATACTCTGATAAAGATGGTCTTCTTATTATTGG  
TGTTCACTCGGCTAAGTTTCAAATGAAAAAGTCTGGATAACATTAAGAGTGTCTTCTCGATAACAAC  
ATCACCCACCCTATGGTTAATGATGCAGATGCCAGCCTTTGGCAAGAAGTGAAGTTTCTGCTGGCCAA  
CTCTAGTCATACTGGACCTCGTGGAAACATGTTGTTTTCTTGGATTGGAGAGGGACACAAAGATAAATT  
ATTTTTATATACTCAATTGCTTTAAAGTATTACAAAGACAGGGGCAGATCAGAGATAATAAAATTGGA  
ATAAACTCTATAAAGATTCTTTGCCACCTTCACCATTGCTATTTCTGGCAAAGTAACAGTAGACCAAG  
TACTGATAGATTGGTAATAGCAGACACTGGACATCATAGAATTTTGGTCGTTTGGGAAGATGGACAAAT  
TCAATATAGCATTGGAGGACCAACCCTGGAAGAAAAGATGGAATATTTTCAAGTCAACTTTTAAATTCT  
CCACAGGTGTAGCCATAATGAATAATATCATATATGTGGCAGACACTGAAAACCACTTATAAGAAAGA  
TTGACCTAGAAGCTGAGAAGGTGAGCACTGTAGCTGGTATTGGAATCAAGGTACAGATAAAGAAGGTGG  
AGCAAAAGGAGAACAAACCCATTAGTTCCCTTGGGATGTAGTTTTTGGAAATCAGGTTTCAAGGTC  
CAAAGAGGTGACATTTTATGGATAGCCATGGCAGGGACTCATCAGATATGGGCACTCTGCTGGACTCTG  
GCAAAGTCCAAAGAAAATGAGTTAACAAAAGGAACCTGCCTTAGGTTTGTCTGGAAGTGGAAATGAAGA  
GAATCGAAAACAATGCCTATCCTCACAAAGCAGGTTTTGCCAACCTTCAGGCCTTTCTTGGCCTCTGAA  
GATCCCTGGAGCTGCTTGTGTAGCAGATAGTGAGAGCAGTACAGTGAGAACCGTTTCACTGAAAGATG  
GAGCAGTGAAGCACCTCGTAGGAGGAGAAAAGACCCCATGAATTTATTTGCTTTTGGTGTGTTGATGG  
AGTAGGAATCAATGCAAAGCTTCAACACCCCTTGGAGTAACATGGGACAAAAAAGGAATTTACTTTAT  
GTTGCAGACTCTACAATCACAAGATTAAGTTGTGGATCCAAAAACAAAAACTGTACAACATTAGCAG  
GAACTGGAGACACAAATAATGTTACCAGTTCAGTTTTACAGAGTCAACTTTTAAATGAACCAGGAGGCTT  
GTGATTGGAGAGAATGGAGAATTATTATGTAGCAGACACCAATAATCATCAAATTAAGTGATGGAT  
TTAGAAACTAAAATGGTATCTGTGCTCCCATCTTCAGATCTGAAAATGCTGTGGTATAGTGGCCGTTC  
TAGTAGAAAAACAGAAGACATTACCCAACTACCTAAATCTGCTCCAAGCATTAGGCTTTCCCCCGTGAC  
TGCGTGTGCTGGCCAGACTCTTCAGTTCAAACCTCAGATTAGACCTCCCATCAGGATCAAAGCTAACTGAA  
GGAGTATCCAGTTGCTGGTTTCTAACAGCTGAAGGCAATGAATGGCTACTTCAAGGACAGATAGCAGCTG  
GAGATATAGAGAACATTTCCAGTCAACCAACAATTTCACTACAAATTCCTGATGATTGCTTATCACTTGA  
AGCCATTGTATCTGTCAGTGTGTTTTCTTATTACTGTAGTGCAGACAGCAGTGTGTTGATGATGAAGGCA  
ATTTTGTTCAGTCAGCCTTTACAAATAACGGATACACAGCAAGGTTGCATAGCTCCAGTAGAGCTCAGGT  
ATGTATTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC216229 representing NM\_198514  
Red=Cloning site Green=Tags(s)

MAAPGGRGRSLGGLPAQTSLEYALLDAVTQQEKDSL VYQYLQKVDGWEQDL SVPEFPEGLEWLNTEEPI  
 SVYKDL CGKIVVLDFFTYCCINCIHLLPDLHALEHTYSDKDLL IIGVHSAKFPNEKVL DNIKSAVLRYN  
 ITHPMVNDADASLWQELEVSCWPTLVILGPRGNMLFSLIGEGHKDKLFLYTSIALKYYKDRGQIRDNKIG  
 IKLYKDSLPPSPLLFPGKVTVDQVTDRLVIADTGHHRILVWVKNGQIQYSIGGPNPGRKDGIFSESTFNS  
 PQGVAIMNNIIYVADTENHLIRKIDLEAEKVSTVAGIGIQGTDKEGGAKGEQQPISSPWDVVFVGTSGSEV  
 QRGDILWIAMAGTHQIWALLLDSGKLPKKNELTKGTCLRFAGSGNEENRNAYPHKAGFAQPSGLSLASE  
 DPWSCLFVADSESSTVRTVSLKDGAVKHLVGGERDPMNLFAGDVGVDGINAKLQHPLGVTWDKRNL  
 VADSYNHKIKVVDPKTKNCTTLAGTGDTNNVTSSSFTSTFNPPGGLCIGENGELLYVADTNNHQIKVMD  
 LETKMVSLPIFRSENAVVDGPFLVEKQKTLPKLPKSAPSI RLSPTACAGQTLQFKLRDLPSGSKLTE  
 GVSSCWFLTAEGNEWLLQGQIAAGDIENISSQPTISLQIPDDCLSLEAIVSVSVFLYYCSADSSACMMKA  
 ILFSQPLQITDTQQGCIAPVELRYVF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6849\\_f01.zip](https://cdn.origene.com/chromatograms/mk6849_f01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

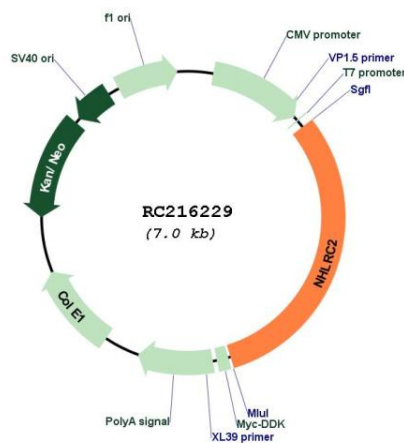
**ACCN:** NM\_198514

**ORF Size:** 2178 bp

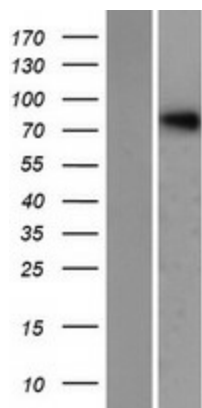
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone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

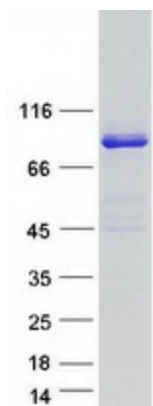
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</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_198514.4</u>
<b>RefSeq Size:</b>	2550 bp
<b>RefSeq ORF:</b>	2181 bp
<b>Locus ID:</b>	374354
<b>UniProt ID:</b>	<u>Q8NBF2</u>
<b>Cytogenetics:</b>	10q25.3
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	79.3 kDa
<b>Gene Summary:</b>	Required for normal embryonic development.[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for RC216229



Western blot validation of overexpression lysate (Cat# [LY404900]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216229 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NHLRC2 protein (Cat# [TP316229]). The protein was produced from HEK293T cells transfected with NHLRC2 cDNA clone (Cat# RC216229) using MegaTran 2.0 (Cat# [TT210002]).