

## Product datasheet for **RC216867**

### **ANKLE2 (NM\_015114) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ANKLE2 (NM_015114) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANKLE2
Synonyms:	KIAA0692; Lem4; LEMD7; MCPH16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC216867 representing NM\_015114  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGTGGCCGGCTGGCGCGGCCGAGTGGCGCGCTGGCCTGGGAGCTGCTGGCGCCTCGGTGC  
 TGCTGATCGCTGTGCGGTGGCTGGTGCAGCGGCTGGGCCCGCGCCGGGAGGCTGGGCCGAGCGGGAC  
 CCCAGTTCCTCCGCCAAGCGCGGCCGCCGCCCGCCTCAGTGAAATGACAATGGATGCTCTGTTGGCT  
 CGATTGAACTTCTGAATCCAGATGACCTTAGAGAAGAAATCGTCAAAGCCGGATTGAAATGTGGACCCA  
 TTACATCAACTACAAGTTTCATTTTTGAGAAAAAATTGGCTCAGGCTTTACTGGAGCAAGGAGGAAGGCT  
 GTCTTCTTTCTACCACCATGAGGCAGGTGTACAGCTCTCAGCCAGGACCCACAAAGGATTTTGAAGCCA  
 GCTGAAGGGAACCAACTGATCAGGCTGGTTTTCTGAAGACAGAGATTTTGGTTACAGTGTGGCCTGA  
 ATCCTCCAGAGGAGGAAGCTGTGACATCCAAGACCTGCTCGGTGCCCCCTAGTGACACCGACACCTACAG  
 AGCTGGAGCGACTGCGTCTAAGGAGCCGCCCTGTACTATGGGGTGTGTCCAGTGTATGAGGACGTCCCA  
 GCGAGAAATGAAAGGATCTATGTTTATGAAATAAAAAGGAAGCATTGCAAGCTGTCAAGATGATCAAAG  
 GGTCCCGATTTAAAGCTTTTTCTACCAGAGAAGACGCTGAGAAATTTGCTAGAGGAATTTGTGATTATTT  
 CCCTTCTCCAAGCAAAACGTCTTACCCTGTCTCCTGTGAAAACAGCTCCACTCTTTAGCAATGACAGG  
 TTGAAAGATGGTTTGTGCTTGTGCGAATCAGAAACAGTCAACAAAGAGCGAGCGAACAGTTACAAAAATC  
 CCCGCACGCAGGACCTCACCGCAAGCTTCGGAAGCTGTGGAGAAGGGAGAGGAGGACACCTTTTCTGA  
 CCTTATCTGGAGCAACCCCGGTATCTGATAGGCTCAGGAGACAACCCCACTATCGTGCAGGAAGGGTGC  
 AGGTACAACGTGATGCATGTTGCTGCCAAAGAGAACCAGGCTTCCATCTGCCAGCTGACTCTGGACGTCC  
 TGGAGAACCCTGACTTCATGAGGCTGATGTACCCTGATGACGAGGCCATGCTGCAGGATGATCTCCG  
 TTACGTGGTGGACCTGTACCTCAACACCCCGACAAGATGGGCTATGACACACCGTTGCATTTTGTCTGT  
 AAGTTTGGAAATGCAGATGTAGTCAACGTGCTTTCGTACACCATTTGATTGTAAAAACTCAAGGAATA  
 AATATGATAAAACACCTGAAGATGTAATTTGTGAAAGAAGCAAAAAATAAATCTGTGGAAGTGAAGGAGCG  
 GATCAGAGAGTATTTAAAGGGCCACTACTACGTGCCCTCCTGAGAGCGGAAGAGACTTCTTCTCCAGTC  
 ATCGGGGAGCTGTGGTCCCAGACCAGACGGCTGAGGCCCTCACGTGAGCCGCTATGGAGGAGCCCA  
 GAGACCCGGTACTGACCCTGAGAGCCTTCGAGGGCCCTGAGTCCAGCCAAGGCAGAAGATTTTCGCA  
 GCTCTGGAAGTCCACCTCGAGAGAAAGCAGGCTTCTTACCACGTCAAGAAGTCGACCCGGAAGA  
 GGCTTTGAGAGAGTGGGAAGGAGCTAGCTCATGAGCTGGGTATCCCTGGGTTGAATACTGGGAATTT  
 TGGGCTGTTTTGTGATCTGTCTTCCCAGGAAGGCTGCAAGACTAGAAGAATATCTCACACAGCAGGA  
 AATAGGCAAAAAGGCTCAACAAGAAACAGGAGAACGGGAAGCCTCCTGCCGAGATAAAGCCACCAGTCT  
 GGCAGCAATTCATTTCCGTGAGGGCGTTTCTAGATGAAGATGACATGAGCTTGGAGAAAATAAAAAATC  
 GGCAAAATGCAGCTCGAAATAACAGCCCGCCACAGTCCGTGCTTTTGGACATACGAGGTGCAGCGCCTT  
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 CGTTTCCAAGACACCAGATGAAAGTACAAAACTAAAGATCAGATCCTGACTTCAAGAATCAATGCAGTA  
 GAAAGAGACTTGTAGAGCCTTCTCCCGCAGACCAACTCGGGAATGGCCACAGGAGGACAGAAAGTGAAA  
 TGTGAGCCAGGATCGCTAAAATGTCCTTGAAGTCCAGCAGCCCAAGGACAGGATCAGCTCGAGGTGAC  
 CAGGGAACCGCCAGGCGCTTCTCTTTTTGGAGAGGAGCCATCAAACTCGATCAGGATGTTTTGGCC  
 GCTCTTGAATGTGACAGCTGACCCCCATCAGTTCGCGCCGTGACAGATGGAAGAGTGTCTCTGT  
 GCTACTCACCTCGACAGACAGAGTTGGCCAGTCCCGCGGTGAAAGGAAGTTCAAGTCTCAGCTGCC  
 AGATCTCAGTGGCCCTCACAGCTACAGTCCGGGAGAAACAGCGTGGCTGGAAGCAACCCCGCAAAGCCA  
 GGCTGGGCGTCTGGCGCTACAGCCCGTGCACGGGAGCCAGCTCCGAGGATGGCGCGCTGGCTG  
 AGCTTGGCGCCCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC216867 representing NM\_015114  
 Red=Cloning site Green=Tags(s)

MLWPRLAAAEWAALAWELLGASVLLI AVRWLVRRLGPRPGGLGRSGTPVPPPSAAAAPASGEMTMDALLA  
 RLKLLNPDDLREEIVKAGLKCGPITSTTRFIFEKLAQALLEQGGRLSSFYHHEAGVTALSQDPQRILKP  
 AEGNPTDQAGFSEDRDFGYSVGLNPPEEEAVTSKTCVPPSDTDYRAGATASKEPPLYGVCVYEDVP  
 ARNERIYVYENKKEALQAVKMIKGSRFKAFSTREDAEKFARGICDYFPSPSKTSLPLSPVKTAPLFSNDR  
 LKDGLCLSESETVNERANSYKNPRTQDLTAKLRKAVEKGEEDTFSDLIWSNPRYLIGSGDNPTIVQEGC  
 RYNVMHVAAKENQASICQLTLDVLENPDFMRLMYPDDDEAMLQKRIRYVVDLYLNTDPKMGYDTPHFCAC  
 KFGNADVNVLSSHLLIVKNSRNKYDKTPEDVICERSKNKSVELKERIREYLGKHYVPLLRAEETSSPV  
 IGELWSPDQTAEASHVSRYGSPRPVLT LRAFAGPLSPAKAEDFRKLWKTTPREKAGFLHHVKSDPER  
 GFERVGRELAHELGPWVEYWEFLGCFVDLSSQEGLQRLEEYL TQQEIGKKAQQTGEREASCRDKATTS  
 GSNSISVRAFLDEDDMSLEEIKNRQNAARNNSPPTVGAFGHTRCSAFPLEQEADLIEAAEPGGPHSSRNG  
 LCHPLNHSRTLAKRPKAPRGEEAHLPPVSDLTVEFDKLNQNIGRSVSKTPDESTKTKDQILT SRINAV  
 ERDLLEPSPADQLGNHRRTESEMSARIAKMSLSPSSPRHEDQLEVTREPARRLFLFGEEP SKLDQDVLA  
 ALECADVDPHQFPAVHRWKSAVLCYSPSDRQSWPSPAVKGRFKSQLPDLSGPHSYSPGRNSVAGSNPAK  
 GLGSPGRYSPVHGSQRLRRMARLAELAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8100\\_d04.zip](https://cdn.origene.com/chromatograms/mk8100_d04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



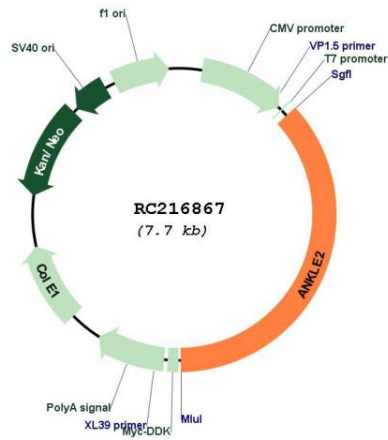
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_015114

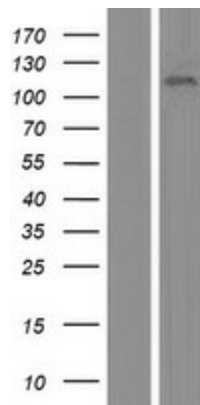
**ORF Size:** 2814 bp

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_015114.3</a>
<b>RefSeq Size:</b>	4491 bp
<b>RefSeq ORF:</b>	2817 bp
<b>Locus ID:</b>	23141
<b>UniProt ID:</b>	<a href="#">Q86XL3</a>
<b>Cytogenetics:</b>	12q24.33
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	104.1 kDa
<b>Gene Summary:</b>	This gene encodes a member of the LEM family of inner nuclear membrane proteins. The encoded protein functions as a mitotic regulator through postmitotic formation of the nuclear envelope. Mutations in this gene cause morphology defects in the nuclear envelope and BAF hyperphosphorylation. [provided by RefSeq, Mar 2014]

Product images:



Circular map for RC216867



Western blot validation of overexpression lysate (Cat# [LY414777]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216867 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).