

## Product datasheet for MC202569

### Ankle2 (NM\_027922) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ankle2 (NM\_027922) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ankle2  
**Synonyms:** 1110001J12Rik; Al661024; D5Ert585e  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC065071 sequence for NM\_027922  
 CCTGATCGTTGGGAAACGGGACGGCCCGCACTGCGCGCGCAGCCCGCTGGTCTAACCACGGCCGGGCGG  
 AGGAGGAGGCTTGGGGCAGGCGCGACTCCCGTGGCGAGGCGAGCGGTCTTCTGAGGGCCGGAGGCGGGAG  
 CGACGCGGGCTGCATTTGCAGCGCGCCGCTCAAGGCCTCGGCGCGGGCGGTGGCGATGCTGTGGCAGCG  
 GCTGGCTGTGGTGGAGTGGGCGGCCCTGGCCTGGGAGCTCCTGGGCGCCTCGGTGCTGTTTCATCGCCGTG  
 CGCTGGCTGGTCCGCCGCTAGAGAAGCGGCCGCGGGACCTGAACCGTTGCGGGACGCTCTCCTCTCCGC  
 CCAGCGCGTCTGAAGCGGTGGCCGCACAGCCAGGTGAAGTGACAATGGATGCCATGATGGCTCGACTGAA  
 ACTCTTGAATCCAGATGACCTTAGAAAAGAAGTTATGAAAGCTGGACTTAAATGTGGACCCATTACATCA  
 ACAACAAGATTTATTTTGAAGAAGAAATAGCTCAGGCCCTACTGGAACAAGGTGGATTGCTGACCTCTT  
 CCCTTCCCAAGCCAGCGCGGTTACTGCCATGGCATTATCCAGGGCACCTCAAGGACTCCTCCATCTGT  
 GGACGGGAAACAACTCAGCAGGCTGTTTTCTGAAGACAGAGATTTTGGTTACAGTGTGGCTTGAAC  
 CCTCCAGAAGAGGAAGCGGTAGCATCCAGTGTCCACCCAGTACCTTCAGTGCCTTACCAGGAATGACA  
 ACCACAAGGCTGGAGTGACAGCTCCTAAGGAGCCACTTGTGTAATGAGTGTGTCAGTATATAGGGA  
 TGGCCCTGTGAGACATGAGAGGATCCATGTTTACGAAGATAAAAAGGAAGCTTTACAAGCTGCCAAGTTG  
 ATCAAAGGTCCTCCGGTTTAAAGCTTTTTCGAACAAGAGAAGATGCTGAGAAATTTGCTAGAGGGATATGTG  
 ATTATTTACCTTCTCCCAACAAACTACGCCCTTACTGTCTCCTGTGAAGGCAGTGCCCTCGGTGGCAG  
 TGATGGCTGAAAGATGGCTTGTGCCTGGCTGAATCAGAAACAGTAAACAAGAACGAGCAAAACAGTTAC  
 AAAAACCCCGTACCCAGGACCTCAGGCCAAGCTGCGGAAAGCTGTCGAAAACGGGAGGAACACACCT  
 TTTCTGATCTTATCTGGAGTAATCCTCGATATCTAATTGGTTCTGGGACAACCAACCATTTGTACAAGA  
 AGGATGATAGGTACAATGTCATGCATGTTGCTGCCAAAGAGAACCAGGCTTCCATGTGCCAGCTGACATTA  
 GAGACTCTGGAGAACCCTGAGTTTATGCGTCTGATGTACCCAGATGACAACATGGACATGCTACAGAAGC  
 GCATCCTCTACGTTGTTGACCTGTATCTTAATACTCCTGACAAAGTGGGCTTTGATACCCACTGCATTT  
 TGCTTGTAAATTTGGAAATGTGGATGTAGTCAATGTGCTTTCTTACACCCTTTGATTGTGAAAAACCGA  
 AAGAATAAATATGGTAAACACCTGAAGAAGTAATTTGTGAAAGAAGCCAAAACAATCTCCAGCACTGA  
 AAGAAAGGATTAGAGAATACTTAATGGTCACTACTATGTCCACTCCTGAGAGCAGAAGCACTTCTCC  
 TGTCATTGGGGAGCTGTGGTCTCAGACCAGAAAGCTGAAGCCTCAAATACTGCCACTGTAGAAGCAGC  
 CCCAGAGATCCTGTGATGACACTGAGAGCTTTCGTGGACCTCTGAGTCCATCCAAGCAGAAGATTTTC



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GAAAGCTCTGAAAACTCCACCTCGAAAGAAAGCAGGCTTCTTCCACAGCATCAGAAAGTCTGACCCAGA  
 ACGAGGCATTGAGAGAGTTGGAAGGGAGCTAGCTCATGAGCTGGGGTATCCCTGGGTTGAATACTGGGAA  
 TTTCTGGGATGTTTTGTTGATCTGTCTCCAGGAAGGCTTGCAAAGACTAGAAGAATACCTTATCCAGA  
 AGGAGTTAAGCAAAAAGGCTCAACAAGAAATACGAGAAAATGAAGGCTGCCTTCAGGACAGAACCTCAGA  
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 CAAGTCAGGACCAACACTGAGGTGTGAGAGCAATGGCTGAAATGTCTTTGGGCCCTAAGAGCCCCAAC  
 TTGGAGTTCAGGCTGGTCTGGAACCTATACTCTCATCTGCCACGGTAGATTCCACCAAGAGGCTCTTCT  
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 GGTCTGTACCCAGCAATCCACAGATGGAAGGCACTGTATGTGCTACTCGCCCTCAGACAGACAGAGTT  
 GGCCAAGTCTGCACTCAAAGGGGAGTTCACAACTGAGTTGGTGGATCTCGATTGCTCTCATAGCTGCTC  
 AGGACGATGCAGTCCAGCTGGTAGCAGCCCCAGTAAGCCTGGCCACACCTCCTCCTTCTGGCCTGCAC  
 AGCCCTGGACGCTACAGTCCAGCACATGGGAGACACTTCAAAGAGTGGCACACGTGGCCCGACTTGCAG  
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 ACAATGTTCTGAGTATAATTTGAATGTCTGATATTTTGGAGAAGTTAATGAAAGCAAACCTCAGATACTA  
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 CAAAGATGCAAAGGCATAGACAAGTGAAGTGTGCTAATTGGGTTTGTAGCAGCAACACTGCAGCAGT  
 GCACACACCCACTATTTCTGAAACAGATCAATTATGATTTGTCTCTTGGGGGGTGCAGCTTTTTGATAT  
 GCAATGGCAAACTATGTGTTTGTCTTTACCCTAGTTATTCCAACCGAGAGAAAGCAGGTGGCAGAAA  
 AGCAGATGTGCCCTGACTCAGACTTCAGTAACAATGCTCAAAACTGCCAGAAGTTGGGATGGGGGGTT  
 AAAGCCATCGAGAATCATGCGAGTAATCATCATAGAAAACCTACCAGCAATAACTAAAACCAAACTATT  
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 AGAGCACCGACTGCTCTCCAATGGTCTGAGTCAATCCCAGCAACCACATGGTGGCTACAACCATC  
 CATAATAAAATCTGATGCCTTCTTTGGGGTGTCTGAAAACAGATACAGTGTACTTACATATAATAATA  
 CATCTTTTATAAAAAAAGAAATGTTCCCAAGTCTTAAATTTAGCCTGAGATTTCACTAAGCATGATT  
 ACATGACAGATGTATGCCGATTTTAGAAATTAAGAGCTTTATGCTAGAGTTTAGCACTTGAGATCTGA  
 GTTCATTTCAAGTGGCTTGCAGTGTGACTTTTGGCTATCCCAAGAGATGTGTACCGAGTGGCATTGCACA  
 CCTAAGGCTCCAAGATAAAACCACCTTGTGAAGCTGGGTCTCAGCTGTCTGTCAGTTGCTTGCACAGA  
 GCCAGTAGTGTCTGGAGACACTTGCAGTGCTTCAACCCAGTACAGAACTATACCACTGATTTTGCCAAAT  
 TTCAGTGCCTTTTGTGAGTCATTTTGTAGTACATAGTGTAAATGGGGGCGTTAGATTCTCTTTTGT  
 ATAAAAATGTTGACCAGGCAAGCCTTTAAGCCAGCACTATTAGGCAGAAGCAGGGGTTCTCTGAATT  
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 TAAAACAAAAACAAAAACCCACCAAAATGATAATAAAGTAATTTGAGCTCAAATGTTTAGGTCTTTTCT  
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 TTTTGGACTTTGATTTAGTTTGTGTTTGTCCCTTGTAAAGCAGCTGAGCTCTAAGTACAAGACAGCCAA  
 TCAAGTGACCTGGAAACAATCCCAAAGGGAATCTTTGTTCTCAAAGAAACCAAAACCCACACACTATAT  
 TCAGCTATGATTTGTTTTCTCTAAAGTCTTATTGTCCTGTGCGGTTATTTTTGTGTTTTTCCATACT  
 CAAAACTGAAGTACTAGTTTTGCCCTATTTTAACTTTTTTTTTTAACTCTTCTTTCTTGATATTTA  
 CTTAAGACAACCTTTGGGAGTCAAGTCTCAAACCATGTAGGTCTCAGGAATCCAACCTCCAGTCACTGGAA  
 TTGAGTTTTACCCGAGCCATCTGCTCGCCATTTTAAACCTAAGCTGCCTTTGGACTATTTTCCACT  
 AGTATGAAGGGTATATACCTGTTAGTAACCTGTTGATCTATGCATAAACATTGTTTACTTGATCTTT  
 CGCAAAGTGTGGTAGGAAACGACTCCTTAATTTGTTATTGGACAGAATCCCCTTCTTAGTAAAAGTGT  
 AAGAAATATTTTCATTA AAAAGGACATTGAGTAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:**

AscI-NotI

**ACCN:**

NM\_027922

<b>Insert Size:</b>	2892 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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><a href="#">BC065071</a></u> , <u><a href="#">AAH65071</a></u>
<b>RefSeq Size:</b>	5241 bp
<b>RefSeq ORF:</b>	2892 bp
<b>Locus ID:</b>	71782
<b>UniProt ID:</b>	<u><a href="#">Q6P1H6</a></u>
<b>Cytogenetics:</b>	5 53.4 cM
<b>Gene Summary:</b>	<p>Involved in mitotic nuclear envelope reassembly by promoting dephosphorylation of BAF/BANF1 during mitotic exit. Coordinates the control of BAF/BANF1 dephosphorylation by inhibiting VRK1 kinase and promoting dephosphorylation of BAF/BANF1 by protein phosphatase 2A (PP2A), thereby facilitating nuclear envelope assembly. It is unclear whether it acts as a real PP2A regulatory subunit or whether it is involved in recruitment of the PP2A complex (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.</p>