

Product datasheet for **RN204756**

Ankle2 (NM_001047901) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ankle2 (NM_001047901) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ankle2
Synonyms:	Ab2-034; RGD1310191
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF:

>RN204756 representing NM_001047901

Red=Cloning site Blue=ORF Orange=Stop codon

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGTGGCAGCGGTTGGCTGTGGTGGAGTGGCGGCCCTGGCCTGGGAGCTCCTGGCGCCTCGGTGC
 TGCTCATCGCCGTGCGCTGGCTGGTCCGGCGCCTGGAGAATCTTTCTCGGACCCGAACCGCTGCGGGAC
 ACTCTCCTCTCTGCCTGGCGCTCTGCAGCGGTGCCGCTCAGCCCGGTGAAGTATGACAAATGGACGCT
 ATGTTGGCTCGACTGAACTCTTGAATCCAGATGACCTCAGACAAGAAGTTATGAAAGCTGGACTGAAAT
 GTGGGCCATTACATCAACTACAAGATTTATTTTTGAGAAGAAATAGCGCAGGCCTTACTAGAACAAGG
 TGGACTGCTGACTTCTCTCTTCCAAAGCACAGTGAAGTACTGGCAGCGCATTATCCATGGCACTTCA
 AGGACTCCTGCATTTGTGGACAGGAAACAACTCAGCAGGCCTGTTTATCTGAAGACAGAGATTTGGTT
 ATAGTGTGGCTTGAACCCTCCAGAAGAGGAAGCTGTAACATCCAGTGTGCACCCCATACCCTTTAGTGC
 CTCACCAGGAATGACAACCACAAGGCTGGAGTGACAACCTGCTAAGGAGCCCTTCTGTACTATGGAGTG
 TGCCAGTGTATGAGGATGGCCTTGTGAGACACGAAAGGATCCATGTTTACGAAGATAAAAAAGGAAGCCT
 TACAAGCTGTCAAATTGATCAAAGGGTCCCGGTTTAAAGCTTTTCCAACAAGAGAAGATGCTGAGAAAT
 TGCTAGAGGGATATGTGATTACTTACCTTCTCCAGCAAAAAATATGTCCTTACTGTCTCCTGTAAAGGCA
 ATGCCCTCTGCAGCAATGATGGCCAAAAGCAGATGGCTTGTGCTGGCTGAATCAGAAACAGTAAACA
 AAGAACGAGCAACAGTTATAAAAAACCCCGTACACAGGACCTTACTGCCAAGCTGCGGAAAAGCTGTTGA
 AAGAGGGGAGGAACACACCTTTTCTGATCTTATCTGGAGTAATCCTCGATATCTAATTGGTTCTGGGGAC
 AACCAACCATTTGTCAAGAAGGATGTAGTACAATGTATGATGCTGTTGCTGCCAAGAGAATCAGGCGT
 CTGTGTCCAGCTGACATTAGAGACTCTGGAGAACCTGAATTTATGCGTCTTATGTACCAGATGATAA
 CATGGACATGCTACAGAACGTATCCTCTACATTTGTCGACCTGTATCTTAATACTCCTGACAAAGTGGGC
 TTTGACACACCATTGCATTTGCTTGTAAATTTGGGAATGTGGATGTAGTCAACGTGCTTTCTCCACC
 CTTTGATTGTGAAAAACCAAGGAATAATATGGTAAAACACCTGAAGACGTAATTTGTGAAAGAAGCAA
 AAACAAATCTGTAGAAGTGAAGAAAGGATTAGAGAATACTTAATGGGTCACTACTATGTACCACTCTG
 AGAGCCGAAGACACCTCTCCTGTCTTGGGAGCTGTGGTCTCAGACCAGAAAGCTGAAGCATCCAGTG
 CCGACCACTGCAGAAGTAGCCCCAGGGATCCTGTGATGACTGAGAGCTTTTGTGGGCCTCTGAGTCC
 ATCCAAAGCAGAAGATTTTCAAAGCTTTGAAAACTCCACCTCGAAAAAAGCAGGCTCTTCCACAGC
 ATCAGGAAGTCTGACCCAGAAAGAGCATTGAGAGAGTTGGAAGGAGCTAGCTCATGAGCTGGGTATC
 CTTGGGTTGAATACTGGGAATTTCTGGGATGTTTTGTTGATCTGTCTCCAGGAAGGCTTGCAAAGACT
 AGAAGAATACCTATCCAGAAGGAGTTAAACAAAAGGCTCAACATGAAATAGGAGAAGGGAAGGCTGC
 CTTCAGGACAGAACTCAGATTTTGGCAGTGGAAAGAAGTACAGCAACTCCATCTCCGTGGGAGCGTTTC
 TAGATGGGGGTGATGACATTAGCTTGAAGAAGTTAAAAATCAGCAAAATACAGTTCCAAGTCAAGTCA
 GCCCTCAGTCGACAAATCCAAAACCTCAAAAGTGGTTCCCTTCCCTTGGGACAGAAGGCGGACCCCTGGA
 GAAGCCGAGTTGGATTTTACCCAGATAACAGCAGAAATGGGTTTTGTTATCCTCTGAACAGCAGGACTG
 CAGATGGAAGGGAACAGAGGCCACCAATGGAGAGGAGGCCCTTCCACCCTGTTTCTATTTTACTCA
 AGAGTTTGATAAACTGAATTTGCAAAGTCTAGGAGATAACCTTTTTCGAGACACCAATAAAAAATAGGGAA
 CTAGAGGATAAGATACTGGCTTCAAGTAAAGGTGTAGTAGAAAGTGGCTTGGCATCTCCTGCTGCAATAG
 CAAGACTTGAAAATAAGCAAGTCAAGACCAACAGTGAAGTGTGAGGCAATGGCTGAAATGCTTTGGG
 CCCAACAGCCCCCAACTTGGGTTTCAAGCTGGTCTGGAACCTGGGTTCTCATCTGCCACAGCAGATCCC
 ACCAAGAGGCTCTTCTGTCTGGAGAGGAGCCATCAAACTAGATCGAGATGTTTTAGCAGCCCTTGGT
 GTGCGATTATTGACCCTGGTCTGTACCCAGCAGTCCACAGATGGAAAAGTACCGTCATGGGCTACTCGCC
 CTCAGACAGACAGAGAGGAGGATACAATGTTGAAAATAAGTGTGTCAGCTCTATGGCAGGAACCAACA
 GAGATGCTACTGAATAGTCCATCTTCACTGCTTCTGGAGGAAATGGTTAAGGGTTTTGTCTCT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:	NM_001047901
Insert Size:	2796 bp
OTI Disclaimer:	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).
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:	<ol style="list-style-type: none">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.
RefSeq:	<u>NM_001047901.1</u> , <u>NP_001041366.1</u>
RefSeq Size:	2842 bp
RefSeq ORF:	2796 bp
Locus ID:	360829
UniProt ID:	<u>Q7TP65</u>
Cytogenetics:	12q16
Gene Summary:	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]