

Product datasheet for **MR231437**

Ankle2 (NM_001253814) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ankle2 (NM_001253814) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ankle2
Synonyms:	1110001J12Rik; A1661024; D5Ertd585e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR231437 representing NM_001253814
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTGGCAGCGGCTGGCTGTGGTGGAGTGGCGGCCCTGGCCTGGGAGCTCCTGGGCGCCTCGGTGC
 TGTTTCATCGCCGTGCGCTGGCTGGTCCGCCGGCTAGAGAAGCGCCGCGGACCTGAACCGTTGCGGGAC
 GCTCTCCTCTCCGCCAGCGCTCTGAAGCGGTGGCCGCACAGCCAGGTGAAGTGACAATGGATGCCATG
 ATGGCTCGACTGAACTCTTGAATCCAGATGACCTTAGAAAAGAAGTTATGAAAGCTGGACTTAAATGTG
 GACCCATTACATCAACAACAAGATTTATTTTTGAGAAGAAATTAGCTCAGGCCTTACTGGAACAAGGTGG
 ATTGCTGACCTTCCCTTCCCAAGCCAGCGCGTACTGCCATGGCATTATCCAGGGCACCTCAAGG
 ACTCCTCCATCTGTGGACGGAAACAACTCAGCAGGCCTGTTTTCTGAAGACAGAGATTTGGTTACA
 GTGTGGGCTTGAACCTCCAGAAGGGAAGCGGTAGCATCCAGTGTCCACCCAGTACCCTCAGTGCCTC
 TACCAGGAATGACAACCACAAGGCTGGAGTGACAGCTCCTAAGGAGCCACTTGTGTACTATGGAGTGTG
 CCAGTATATGAGGATGGCCCTGTGAGACATGAGAGGATCCATGTTTACGAAGATAAAAAGGAAGCTTAC
 AAGCTGCCAAGTTGATCAAAGGGTCCCGGTTTAAAGCTTTTGAACAAGAGAAGTGTGAGAAATTTGC
 TAGAGGGATATGTGATTATTTACCTTCTCCAACAAAACCTACGCCCTTACTGTCTCCTGTGAAGGCAGTG
 CCCCTCGGTGGCAGTGATGGGCTGAAAGCAGATGGCTTGTGCCTGGTGAATCAGAAACAGTAAACAAAAG
 AACGAGCAAACAGTTACAAAAACCCCGTACCCAGGACCTCACGGCAAGCTGCGGAAAGCTGTCGAAAA
 CGGGGAGGAACACACCTTTCTGATCTTATCTGGAGTAACTCTCGATATCTAATTGGTTCTGGGGACAAC
 CCAACCATGTACAAGAAGGATGTAGGTACAATGTCATGCATGTTGCTGCCAAGAGAACCAGGCTTCCA
 TGTGCCAGCTGACATTAGAGACTCTGGAGAACCCTGAGTTTATGCGTCTGATGTACCCAGATGACAACAT
 GGACATGCTACAGAAGCGCATCCTCTACGTTGTTGACCTGTATCTTAATACTCCTGACAAAAGTGGGCTTT
 GATACACCACTGCATTTTCTTGTAAATTTGGAATGTGGATGTAGTCAATGTGCTTTCTCACACCCTT
 TGATTGTGAAAAACCGAAAGAATAAATATGGTAAAAACCTGAAGAAGTAAATTTGTGAAAGAAGCCAAAA
 CAAATCTCCAGCACTGAAAGAAAGGATTAGAGAATACTTAATGGGTCACTACTATGTGCCACTCCTGAGA
 GCAGAAGACACTTCTCCTGTCTTGGGAGCTGTGGTCTCAGACCAGAAAGCTGAAGCCTCAAATACTG
 CCCACTGTAGAAGCAGCCCCAGAGATCCTGTGATGACACTGAGAGCTTTCGTGGACCTCTGAGTCCATC
 CAAAGCAGAAGATTTTCGAAAGCTCTGGAACCTCCACCTCGAAAGAAAGCAGGCTTCTCCACAGCATC
 AGAAAGTCTGACCAGAACGAGGCAATTGAGAGAGTTGGAAGGGAGCTAGCTCATGAGCTGGGGTATCCCT
 GGGTTGAATACTGGGAATTTCTGGGATGTTTTGTTGATCTGTCTCCAGGAAGGCTTGCAAAGACTAGA
 AGAATACCTTATCCAGAAGGAGTTAAGCAAAAAGGCTCAACAAGAAATACGAGAAAAATGAAGGCTGCCTT
 CAGGACAGAACCTCAGATTTTGGCAGTGGAAAGAAGTACAGCAACTCCATCTCCGTGGGAGCATTCTAG
 ATGGGGATGATGACAGTAGTTTGGAAAGAAATAAAAACAGCAAAATACAGTTCCAAGTCAGAGTCAGCC
 CAAACTGATAAAGTTCCAAACCTCTAAAAGTGGTCCCTTCCCTGGGACAGAAGGTCGACCCTGGAGAA
 ACCTCAGTTGGAACCTACCCAGATAAAGGCAGAAATGGGTTTTGTCACCCTCTAAACCACAGGACTGCAG
 ATGGAAGGGGACTAGAGGCCACCAATGGGAGGAGGCCCTTCCACCACCTGTTTCTGTTTGACTCAAGA
 GTTGAATAAACTGAATTTGCAAAGCCTGGGAGACAGCCTTATGAGACACCAGATAAAAACGGGAAACTA
 GAGGATGAGGTGCTTCTTCAAGAAAGGGTGCAGCAGACAGTACTTGGTGGCATCTCCTCCTGCCATAG
 CAAGCCTTGGAAAGAAGCAAGTCAGGACCAACTGAGGTGTGAGGCAATGGGTGAAATGCTTTGGG
 CCCTAAGAGCCCCAACTTGGAGTTCAGGCTGGTCTGGAACCTATACTCTCATCTGCCACGGTAGATTCC
 ACCAAGAGGCTCTTCTGTCTGGAGAGGAACCATCAAACCTAGATCGAGATGTTTATGACGCTCTTGGT
 GTGCGAATATTGACCCTGGTCTGTACCCAGCAATCCACAGATGGAAAAGCACTGTCATGTGCTACTCGCC
 CTCAGACAGACAGAGTTGGCCAAGTCTGCACTCAAAGGGAAGTTCACAACCTGAGTTGGTGGATCTCGAT
 TGCTCTCATAGTGTCTCAGGACGATGCAGTCCAGCTGGTAGCAGCCCAAGTAAAGCCTGGCCACACCTCCT
 CCTCTTCTGGCCTGCACAGCCCTGGACGCTACAGTCCAGCACATGGGAGACACTTCAAAGAGTGGCACA
 CGTGGCCCGACTTGCAGTCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231437 representing NM_001253814
 Red=Cloning site Green=Tags(s)

MLWQRLAVVEWAALAWELLGASVLFIAVRWLVRRELEKRPDLNRCGTLSSPPSASEAVAAQPEVTMDAM
 MARLKLLNPDDLKREVMKAGLKCGPITSTTRFIFEKLAQALLEQGGLTSSLKPSAVTAMAFIQGTSR
 TPPSVGDKQTQQACFSEDRDFGYSVGLNPPEEEAVASSVHPVPPFSASTRNDNHKAGVTAPKEPLVYGVG
 PVYEDGPPVRHERIHVYEDKKEALQAAKLIKSRFKAFRTREDAEKFARGICDYLPSPNKTTPLSPVKAV
 PLGGSDGLKADGLCLAESETVNKERANSYKNPRTQDLTAKLRKAVENGEEHTFSDLIWSNPRYLIGSGDN
 PTIVQEGCRYNVMHVAAKENQASMCQLTLETLENPEFMRLMYPDDNMDMLQKRILYVVDLYLNTDPKVG
 DTPLHFACKFGNVVVNVLSSHPLIVKNRKNKYGKTPEEVICERSQNKSPALKERIREYLMGHYYVPLLR
 AEDTSPVIGELWSSDQKAEASNTAHCSSPRDPVMTLRAFVGPLSPSKAEDFRKLWKTPPRKKAGFFHSI
 RKSDPERGIERVGRELAHELGYWVEYWEFLGCFVDLSSQEGLRLEEYL IQKELSKKAQQEIRENEGCL
 QDRTSDFGSGKKYSNSISVGAFLDGDSSLEEIKNQNTVPSQSQPTTDKFQTSKSGSLPLGQKVDPG
 TSVGTYPDKGRNGFCHPLNHRTADGRGLEATNGEEALPPPVSVL TQELNKLNLQSLGDSLHETPKNGKL
 EDEVLP SRKGAADSDLLASPPAIASLGKKQVRTNTEVSEAMAEMSLGPKSPQLGVQAGLEPILSSATVDS
 TKRFLFLSGEESKLRDVLAALECANIDPGLYPATHRWKSTVMCYSPSDRQSWSPALKGKFTTELVDLD
 CSHSCSGRCSPAGSSPSKPGHTSSSSGLHSPGRYSPAHGRHFQRVAHVARLAAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

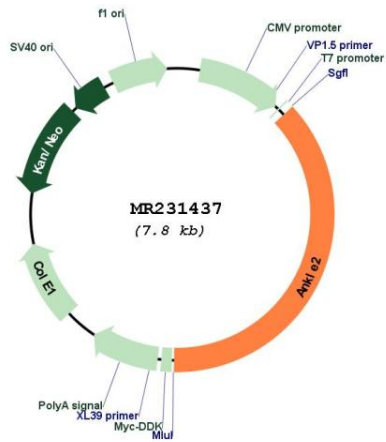


ACCN: NM_001253814

ORF Size: 2892 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:	<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:	NM_001253814.1 , NP_001240743.1
RefSeq Size:	5259 bp
RefSeq ORF:	2895 bp
Locus ID:	71782
UniProt ID:	Q6P1H6
Cytogenetics:	5 53.4 cM
MW:	106.6 kDa
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]

Product images:



Circular map for MR231437