

Product datasheet for **MR211330**

Ankle2 (NM_027922) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ankle2 (NM_027922) 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)



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ORF Nucleotide Sequence:

>MR211330 representing NM_027922
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTGGCAGCGGCTGGCTGTGGTGGAGTGGCGGCCCTGGCCTGGGAGCTCCTGGGCGCCTCGGTGC
 TGTTTCATCGCCGTGCGCTGGCTGGTCCGCCGGCTAGAGAAGCGCCGCGGACCTGAACCGTTGCGGGAC
 GCTCTCCTCTCCGCCAGCGCTCTGAAGCGGTGGCCGCACAGCCAGGTGAAGTGACAATGGATGCCATG
 ATGGCTCGACTGAAACTCTTGAATCCAGATGACCTTAGAAAAGAAGTTATGAAAGCTGGACTTAAATGTG
 GACCCATTACATCAACAACAAGATTTATTTTTGAGAAGAAATTAGCTCAGGCCTTACTGGAACAAGGTGG
 ATTGCTGACCTTCCCTTCCCAAGCCAGCGCGGTTACTGCCATGGCATTATCCAGGGCACCTCAAGG
 ACTCCTCCATCTGTGGACGGAAACAACTCAGCAGGCCTGTTTTCTGAAGACAGAGATTTGGTTACA
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 TACCAGGAATGACAACCACAAGGCTGGAGTGACAGCTCCTAAGGAGCCACTTGTGTACTATGGAGTGTGT
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 AAGCTGCCAAGTTGATCAAAGGGTCCCGGTTTAAAGCTTTTGAACAAGAGAAGATGCTGAGAAATTTGC
 TAGAGGGATATGTGATTATTTACCTTCTCCAACAAAACCTACGCCCTTACTGTCTCCTGTGAAGGCAGTG
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 AGACAGACAGAGTTGGCCAAGTCTGCACTCAAAGGGAAGTTCACAAGTGGTGGATCTCGATTGC
 TCTCATAGCTGCTCAGGACGATGCAGTCCAGCTGGTAGCAGCCCCAGTAAGCCTGGCCACACCTCCTCCT
 CTTCTGGCCTGCACAGCCCTGGACGCTACAGTCCAGCACATGGGAGACACTTCAAAGAGTGGCACACGT
 GGCCCGACTTGCAGCTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211330 representing NM_027922
Red=Cloning site Green=Tags(s)

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MLWQRLAVVEWAALAWELLGASVLFIAVRWLVRLEKRPDLNRCGLTSSPPSASEAVAAQPEVTMDAM
MARLKLNPDDLKKEVMKAGLKCGPITSTTRFIFEKLLAQALLEQGGLTSSLKPSAVTAMAFIQGTSR
TPPSVDGKQTQQACFSEDRDFGYSVGLNPPEEEAVASSVHPVPPFSASTRNDNHKAGVTAPKEPLVYYGVC
PVYEDGPVRRHERIHVYEDKKEALQAAKLKGSRFKAFRTREDAEKFARGICDYLPSPNKTTPLLSPVKAV
PLGGSDGLKDGLCLAESETVNKERANSYKNPRTQDLTAKLRKAVENGEEHTFSDLIWSNPRYLIGSGDNP
TIIVQEGCRYNVMHVAAKENQASMCQLTLETLENPEFMRLMYPDDNMDMLQKRILYVVDLYLNTDPKVGFD
TPLHFACKFGNVDVVNLSSHPLIVKNRKNKYGKTPEEVICERSQNKSPALKERIREYLMGHYYVPLLRA
EDTSPVIGELWSSDQKAEASNTAHCSSPRDPVMTLRAFVGPLSPSKAEDFRKLWKTTPRKKAGFFHSIR
KSDPERGIERVGRELAHELGYPWVEYWEFLGCFVDLSSQEGLQRLEEYL IQKELSKKAQQEIRENEGCLQ
DRTSDFGSGKKYSNSISVGAFLDGDDSSLEEIKNOQNTVPSQSQPPTDKFQTSKSGSLPLGQKVPGET
SVGTYPDKGRNGFCHPLNHRTADGRGLEATNGEEALPPVSVLTQELNKLNLQSLGDSLHETPDKNGKLE
DEVLP SRKGAADSDLLASPPAIASLGKKQVRTNTEVSEAMAEMSLGPKSPQLGVQAGLEPILSSATVDST
KRLFLSGEESKLRDRLVLAALCANIDPLYPATHRWKSTVMCYSPSDRQSWSPALKGKFTTELVDLDC
SHSCSGRCSPAGSSPSKPGHTSSSSGLHSPGRYSPAHRGRFQRVAVHVARLAAL
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9012_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



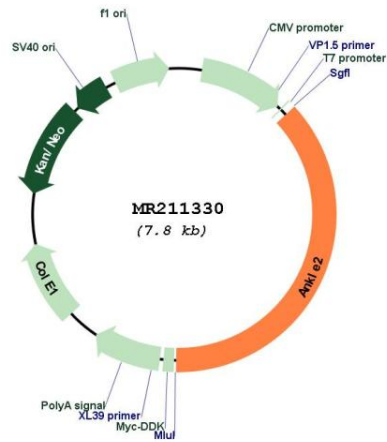
* The last codon before the Stop codon of the ORF

ACCN: NM_027922

ORF Size: 2889 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_027922.2 , NP_082198.1
RefSeq Size:	5256 bp
RefSeq ORF:	2892 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 MR211330