

Product datasheet for **MR212522**

Ankle1 (NM_172756) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ankle1 (NM_172756) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ankle1
Synonyms:	8430438L13Rik; Ankrd41; C430003I23; Lem3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR212522 representing NM_172756
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCGATACTGCATGCTTGGCTCTGAGGCTGCTAGCAGCACTACGCGAGGAGGAGCGCGGGCTGTGG
 AGGAGCTGCTGCGCCTCGGAGCGGACCCCAACCTGGTGTGGACGATGGCGCTGCGGCGGTGCACCTGGC
 AGCCAGAGCGAGCCACCCGCGCGCCTGCATTGCCTTCGGATGCTGCTGCGCTGGGGAGCGGATCCCAAT
 GCTCGGTCCGCGGAGGGGCTGACGCCTGTGCATGTGGCTGCCGCGTGGGCTGTTGTGGTCTCTGGAGT
 TGCTGCTGAGCCGAGGAGGTGACCCCACTGCGGGACCAGGATGGGCTCAGGCCCTGGACTGGCACT
 ACAGCAGCGACACCACAACCTGCGCACGAGTGTGCAGGAGCTGGACACGCCACCCAGCCTGATGAGACC
 CGAGAACCACAGAGACGTTTCATGTAGCCAGGGTAGCTTTGAAACTGAAACATGCCAAGGACCTGCCT
 TAGCAGAGTCTTCTGGAGTTTCTCAAGATTCGGAGTTGCACGTGCATAGAGCTGAGCTGGAGGTGGAGGC
 TGTAGAGTGGCTGTGCATCCCCAGAGCTCTGAGGCCACCGAGAACTCAGACTACAGCAGCGATGCTTCG
 TTTGTCAGTGCAGTGGAGGACTCTCTGCAGCCCGGGCGCCTGGGGGGCATTGGAGCTAGTGGCTGGCT
 TGTGGGAACCCGTGGGGCTGTGTGAGCTGGGAAGGGAGCACCCAACTGCCAGCCGAGGTCTGACATT
 GACTGCAAGGGACACGGACAAACCCGACTGCCTGGTGTGGGATCTGGGGGCTTTGCACCCCAACAGT
 TCGGTGCCCCCATGTCCGATCTGCAGCTCCTCCAGGCCCTGCGGGCGCTGGGCTATAGCCCTGGACCCG
 TCACACCTTTCACAGAGGACACTATCTACGGCGGCTGCAGGAAGCCAGGCTAGCCGTGCTGATGAGG
 GCATAGCCAAGAAGTGGCGGAGGCACTAAGGACAGGCACCATCCCTGACTGCCAGGTGGATGAGGAAGCC
 CTGGCTCAGTGCCTTTCAGCGGCTGGATCCCTTGAAGAAGTGGCGGAAGGCATTACAAGTCTAGTTTTA
 CGTATCTACTTCTCGACCCAGGCTGACGAAGGACCTGCCGGCCGAGCCTTCCCTCACACTGGCTGA
 GTGCTGCAATGTTTCGTGAGAGCCATCTTCTATGTGGCAAGGGAACCCGAGCCCGACAGATGCCAC
 CTCTGGGAAGCCTTTGGCTACCATGACCAGCAAGGAAACAGGTCTGTCCCAAGGTTCCGCGGATCTTAG
 ACATCTGGGCTAGTGGCCGGGCATCATCTCTGCACTGCTTCCAGCATGTGGTGGCCATGGAAGCGTA
 CACTCGGGAAGCCTGTCTGTTGGATGCCCTAGGTCTCCAGACACTGACCAACCAGAAACAAGGGCACTAC
 TATGGAGTGGTTGCCATTGGCCACCCTCTCGGCGTGGCGTGGGGGTGCACCTGCTACAGCGTGCTC
 TGCTGGTCTTCTGGCTGAGGGGAGAGAGAGCTGAGGCCTCAGGACATTCAGGCTCGAGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR212522 representing NM_172756
 Red=Cloning site Green=Tags(s)

MADTACLALRLLAALREEEARAVEELLRLGADPNLVLDDGAAAVHLAARASHPRALHCLRMILLRWGADPN
 ARSAEGLTPVHVAAAWGCCGALELLL SRGGDPTLRDQDGLRPLDWALQQRHHNCARVLQELDPTQPDET
 REPTETFHVAQGSFETETCQGPALAESSGVSQDSELHVHRAELEVEAVEVAVHPQSSEATENS DYSSDAS
 FVTAVEDSLQPGRPGALEL VAGLWVTRGAVSAGKGAPNCQPQLTLTARDTDKPVLPDGDGLGALHPS
 SVPPMSDLQLLQALRALGYSPGPVTPFTRGHYLRRLQEAQASRADVGHSELAELRTGTIPDCQVDEEA
 LAQCFQRLDPLKKWREGITKSSFYLLLDPRLTKDLPARASSLTLAECLQCFVRAIFYVVGKTRARPDH
 LWEAFGYHDQPRKQVCPKVRRIIDIWASGRGIISLHCFQHVVAMEAYTREACLLDALGLQTLTNQKQGHY
 YGVVAHWPPSRRRRLGVHLLQRALLVFLAEGERELRPQDIQARG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9082_b02.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_172756

ORF Size: 1602 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:**
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_172756.3](#), [NP_766344.2](#)

RefSeq Size: 2772 bp

RefSeq ORF: 1605 bp

Locus ID: 234396

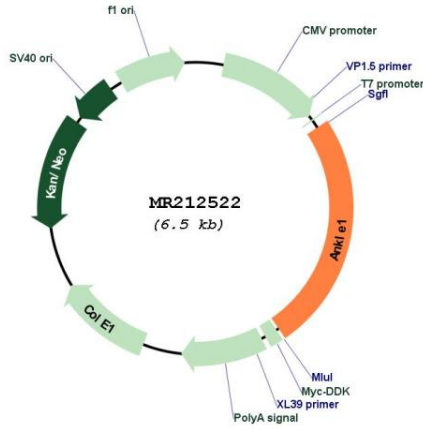
UniProt ID: [A8VU90](#)

Cytogenetics: 8 B3.3

MW: 58.4 kDa

Gene Summary: Endonuclease that probably plays a role in the DNA damage response and DNA repair.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR212522