

## Product datasheet for **MG212522**

### Ankle1 (NM\_172756) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ankle1 (NM_172756) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ankle1
Synonyms:	8430438L13Rik; Ankrd41; C430003I23; Lem3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG212522 representing NM\_172756  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCGATACTGCATGCTTGGCTCTGAGGCTGCTAGCAGCACTACGCGAGGAGGAGCGCGGGCTGTGG  
 AGGAGCTGCTGCGCCTCGGAGCGGACCCCAACCTGGTGTGGACGATGGCGCTGCGGCGGTGCACCTGGC  
 AGCCAGAGCGAGCCACCCGCGCGCCTGCATTGCCTTCGGATGCTGCTGCGCTGGGGAGCGGATCCCAAT  
 GCTCGGTCCGCGGAGGGGCTGACGCCTGTGCATGTGGCTGCCGCGTGGGCTGTTGTGGTCTCTGGAGT  
 TGCTGCTGAGCCGAGGAGGTGACCCCACTGCGGGACCAGGATGGGCTCAGGCCCTTGGACTGGGCACT  
 ACAGCAGCGACACCACAACCTGCGCACGAGTGTGCAGGAGCTGGACACGCCACCCAGCCTGATGAGACC  
 CGAGAACCACAGAGACGTTTCATGTAGCCAGGGTAGCTTTGAAACTGAAACATGCCAAGGACCTGCCT  
 TAGCAGAGTCTTCTGGAGTTTCTCAAGATTCGGAGTTGCACGTGCATAGAGCTGAGCTGGAGGTGGAGGC  
 TGTAGAGTGGCTGTGCATCCCCAGAGCTCTGAGGCCACCGAGAACTCAGACTACAGCAGCGATGCTTCG  
 TTTGTCAGTGCAGTGGAGGACTCTCTGCAGCCCGGGCGCCTGGGGGGCATTGGAGCTAGTGGCTGGCT  
 TGTGGGTAAACCGTGGGGCTGTGTCAGCTGGGAAGGGAGCACCAACTGCCAGCCGAGGTCTGACATT  
 GACTGCAAGGGACACGGACAAACCCGACTGCCTGGTGTGGGATCTGGGGGCTTTGCACCCCAACAGT  
 TCGGTGCCCCCATGTCCGATCTGCAGCTCCTCCAGGCCCTGCGGGCGCTGGGCTATAGCCCTGGACCCG  
 TCACACCTTTCACAGAGGACACTATCTACGGCGGCTGCAGGAAGCCAGGCTAGCCGTGCTGATGTAGG  
 GCATAGCCAAGAAGTGGCGGAGGCACTAAGGACAGGCACCATCCCTGACTGCCAGGTGGATGAGGAAGCC  
 CTGGCTCAGTGCCTTTCAGCGCTGGATCCCTTGAAGAAGTGGCGGAAGGCATTACAAGTCTAGTTTTA  
 CGTATCTACTTCTCGACCCAGGCTGACGAAGGACCTGCCGGCCGAGCCTTCCCTCACACTGGCTGA  
 GTGTCTGCAATGTTTCGTGAGAGCCATCTTCTATGTGGCAAGGGAACCGAGCCCGACAGATGCCAC  
 CTCTGGGAAGCCTTTGGCTACCATGACCAGCAAGGAAACAGGTCTGTCCCAAGTTTCGCCGATCTTAG  
 ACATCTGGGCTAGTGGCCGGGCATCATCTCTGCACTGCTTCCAGCATGTGGTGGCCATGGAAGCGTA  
 CACTCGGGAAGCCTGTCTGTTGGATGCCCTAGGTCTCCAGACACTGACCAACCAGAAACAAGGGCACTAC  
 TATGGAGTGGTTGCCATTGGCCACCCTCTCGGCGTGGCGTGGGGGTGCACCTGCTACAGCGTGCTC  
 TGCTGGTCTTCTGGCTGAGGGGAGAGAGAGCTGAGGCCTCAGGACATTAGGCTCGAGGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG212522 representing NM\_172756  
 Red=Cloning site Green=Tags(s)

MADTAACLALRLLAALREEEARAVEELLRLGADPNLVLDGAAAVHLAARASHPRALHCLRMLLRWGADPN  
 ARSAEGLTPVHVAAAAGCCGALELLL SRGGDPTLRDQGLRPLDWALQQRHHNCARVLQELDTPTQPD  
 REPTETFHVAQGSFETETCQGPALAESSGVSQDSELHVHRAELEVEAVEVAVHPQSSEATENS  
 SDYSSDAS FVTAVEDSLQPGRPGGALVAGLWVTRGAVSAGKGAPNCQPQLTLTARDTKPVLPGD  
 GDLGALHPHS SVPPMSDLQLLQALRALGYSPGPVTPFTRGHYLRRLQEAQASRADVGH  
 SQELAEALRTGTIPDCQVDEEA LAQCFQRLDPLKKWREGITKSSFYLLLDPRLTKDL  
 PARASSLTLAECLQCFVRAIFYVVGKGTTRARPDAL LWEAFGYHDQPRKQVCPK  
 VRRILDIWASGRGIIISLHCFQHVVAMEAYTREACLLDALGLQTLTNQKQGHY  
 YGVVAHWPPSRRRRLGVHLLQRALLVFLAEGERELRPQDIQARG

**TRTRPLE** - GFP Tag - V

**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:** 2150 bp

**RefSeq ORF:** 1605 bp

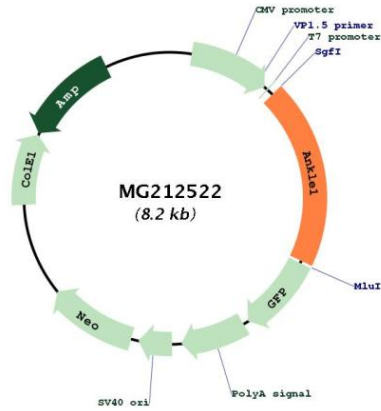
**Locus ID:** 234396

**UniProt ID:** [A8VU90](#)

**Cytogenetics:** 8 B3.3

**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 MG212522