

Product datasheet for **RR207312**

Ankh (NM_053714) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ankh (NM_053714) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ankh
Synonyms:	Ank; SLC61A1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR207312 representing NM_053714
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGA AATCCCGGCGCTCAGCACTACTGGCCCTGATCCGGTTCCTGGTGCCCTTGGCATCACCA
 ACATAGCCATCGACTTCGGGGAGCAGGCCCTGAACCGGGCATTGCTGCAGTCAAGGAAGATGCAGTAGA
 GATGCTGGCCAGCTATGGGCTGGCGTATTCTCTGATGAAGTTCTTCGCGGACCCATGAGTGACTCAAG
 AATGTGGGCTGGTGTGGTGAACAGCAAGAGAGACAGGGCCAAAGCTGTCTGTGCATGGTGGTGGCCG
 GTGCCATTGCTGCAGTCTCCACACCCTGATAGCCTACAGTGACTTAGGGTACTACATCATCAACAAGCT
 ACATCATGTGGACGAGTCTGTGGGGAGCAAAACACGAAGGGCCTCCTGTATCTCGCTGCCTCCCTTTT
 ATGGATGCCATGGCGTGGACTCATGCTGGCATTCTCTAAAACACAAATACAGTTTCTGGTGGGATGTG
 CCTCAATCTCAGATGTCATAGCTCAGGTTGTGTCGTAGCCATTTACTTCACAGTCACCTGGAATGCCG
 AGAGCCGCTGCTCATCCCATCCTGTCTGTACATGGGTGCACTTGTGCGCTGTACCACGCTGTGCCTG
 GGCTACTACAGGAACATCCACGACATCATCCCTGACAGGAGCGGCCAGAGCTGGGGGGCAGCAACCA
 TAAGAAAGATGCTGAGCTTCTGGTGGCCTCTGGCTCTGATTCTGGCCACGCAGCGCATCAGCCGGCCAT
 TGTCAACCTCTTTGTGTCCCGGATCTTGGTGGCAGTTCTGCTGTACAGAGGCAGTGGCCATTCTGACA
 GCTACCTACCCCGTGGGTACATGCCATATGGCTGGTTGACAGAAATCCGTGCTGTCTACCTGCTTTTG
 ACAAGAATAACCCAGCAATAAACTGGCCAACACGAACAACACGGTCACCTCGGCCACATCAAGAAGTT
 CACCTTCGTCTGCATGGCACTGTCACTGACGCTGTGTTTTGTAATGTTCTGGACCCCAACGCTCTGAG
 AAGATTTGATAGACATCATTGGAGTGGACTTCGCCTTGCAGAACTCTGTGTCATTCTCTGCCTATCT
 TCTCCTTCTCCAGTGCCAGTGACTGTGAGAGCTCATCTCACTGGATGGTTGATGACACTAAGAAAAAC
 CTTTGTCTGGCACCCAGCTCCGTGCTGCGGATCATCGTCTCATCACCAGCCTTGTGGTTCTGCCTTAC
 CTGGGGTGCATGGAGCCACACTAGGTGTGGGCTCCCTTCTAGCAGGTTTGTGGGAGAGTACCATGG
 TTGCCCTCGCAGCATGCTATGTGTATCGGAAGCAGAAAAAGAAGATGGAGAATGAGTCAGCCACCGAGGG
 GGAAGACTCGGCCATGACCGACATGCCTCCAGCAGAGGAGGTGACAGACATCGTAGAGATGAGAGAGGAA
 AATGAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207312 representing NM_053714
 Red=Cloning site Green=Tags(s)

MVKFPAL THYWPLIRFLVPLGITNIAIDFGEQALNRGIAAVKEDAVEMLASYGLAYSLMKFFAGPMSDFK
 NVGLVFNNSKRDRKAVLCMVVAGIAAVFHTLIAYS DLGYIINKLHHVDESVGSKTRRAFLYLAAPF
 MDAMAWTHAGILLKHKYSFLVGCASISDVIAQVVFVAILLHSHLECREPLLIPILSLYMGALVRCTTLC
 GYYRNIHDIIPDRSGPELGGDATIRKMLSFWWPLALILATQRISRPIVNLVFSRDLGSSAATEAVAILT
 ATYPVGHMPYGWLTEIRAVYPAFDKNNPSNKLANTNNTVSAHIKKFTFVCMALSLTLCFVMFWTPNVSE
 KILIDIIGVDFAFELCVIPLRIFSFPVPTVRAHLTGWMLTKKTFVLAPSSVLRRIIVLITSLVVL
 LGVHGATLGVGSLLAGFVGESTMVALAACVYVRKQKKMENESATEGEDSAMTDMPPAEVTDIVEMREE
 NE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

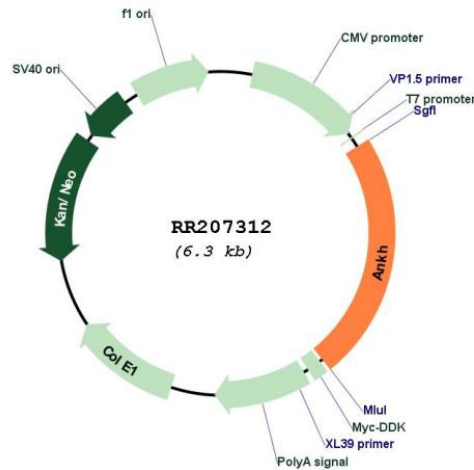
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_053714

ORF Size: 1476 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_053714.1](#), [NP_446166.1](#)

RefSeq Size: 2463 bp

RefSeq ORF: 1479 bp

Locus ID: 114506

UniProt ID: [P58366](#)

Cytogenetics: 2q22

MW: 54.3 kDa

Gene Summary: Regulates intra- and extracellular levels of inorganic pyrophosphate (PPi), probably functioning as PPi transporter.[UniProtKB/Swiss-Prot Function]