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Product datasheet for RC202611

ANKH (NM_054027) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKH (NM_054027) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANKH
Synonyms:	ANK; CCAL2; CMDJ; CPPDD; HANK; MANK; SLC62A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC202611 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGAAATTCCCGGCGCTCACGCACTACTGGCCCCTGATCCGGTTCTTGGTGCCCCTGGGCATCACCA
ACATAGCCATCGACTTCGGGGAGCAGGCCTTGAACCGGGGCATTGCTGCTGTCAAGGAGGATGCAGTCGA
GATGCTGGCCAGCTACGGGCTGGCGTACTCCCTCATGAAGTTCTTCACGGGTCCCATGAGTGACTTCAAA
AATGTGGGCCTGGTGTTTGTGAACAGCAAGAGAGACAGGACCAAAGCCGTCCTGTGTATGGTGGTGGCAG
GGGCCATCGCTGCCGTCTTTCACACACTGATAGCTTATAGTGATTTAGGATACTACATTATCAATAAACT
GCACCATGTGGACGAGTCGGTGGGGAGCAAGACGAGAAGGGCCTTCCTGTACCTCGCCGCCTTTCCTTTC
ATGGACGCAATGGCATGGACCCATGCTGGCATTCTCTTAAAACACAAATACAGTTTCCTGGTGGGATGTG
CCTCAATCTCAGATGTCATAGCTCAGGTTGTTTTTGTAGCCATTTTGCTTCACAGTCACCTGGAATGCCG
GGAGCCCCTGCTCATCCCGATCCTCTCCTTGTACATGGGCGCACTTGTGCGCTGCACCACCCTGTGCCTG
GGCTACTACAAGAACATTCACGACATCATCCCTGACAGAAGTGGCCCGGAGCTGGGGGGAGATGCAACAA
TAAGAAAGATGCTGAGCTTCTGGTGGCCTTTGGCTCTAATTCTGGCCACACAGAGAATCAGTCGGCCTAT
TGTCAACCTCTTTGTTTCCCGGGACCTTGGTGGCAGTTCTGCAGCCACAGAGGCAGTGGCGATTTTGACA
GCCACATACCCTGTGGGTCACATGCCATACGGCTGGTTGACGGAAATCCGTGCTGTGTATCCTGCTTTCG
ACAAGAATAACCCCAGCAACAAACTGGTGAGCACGAGCAACACAGTCACGGCAGCCCACATCAAGAAGTT
CACCTTCGTCTGCATGGCTCTGTCACTCACGCTCTGTTTCGTGATGTTTTGGACACCCAACGTGTCTGAG
AAAATCTTGATAGACATCATCGGAGTGGACTTTGCCTTTGCAGAACTCTGTGTTGTTCCTTTGCGGATCT
TCTCCTTCTTCCCAGTTCCAGTCACAGTGAGGGCGCATCTCACCGGGTGGCTGATGACACTGAAGAAAAC
CTTCGTCCTTGCCCCCAGCTCTGTGCTGCGGATCATCGTCCTCATCGCCAGCCTCGTGGTCCTACCCTAC
CTGGGGGTGCACGGTGCGACCCTGGGCGTGGGCTCCCTCCTGGCGGGCTTTGTGGGAGAATCCACCATGG
TCGCCATCGCTGCGTGCTATGTCTACCGGAAGCAGAAAAAGAAGATGGAGAATGAGTCGGCCACGGAGGG
GGAAGACTCTGCCATGACAGACATGCCTCCGACAGAGGAGGTGACAGACATCGTGGAAATGAGAGAGGAG
AATGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202611 protein sequence
Red=Cloning site Green=Tags(s)

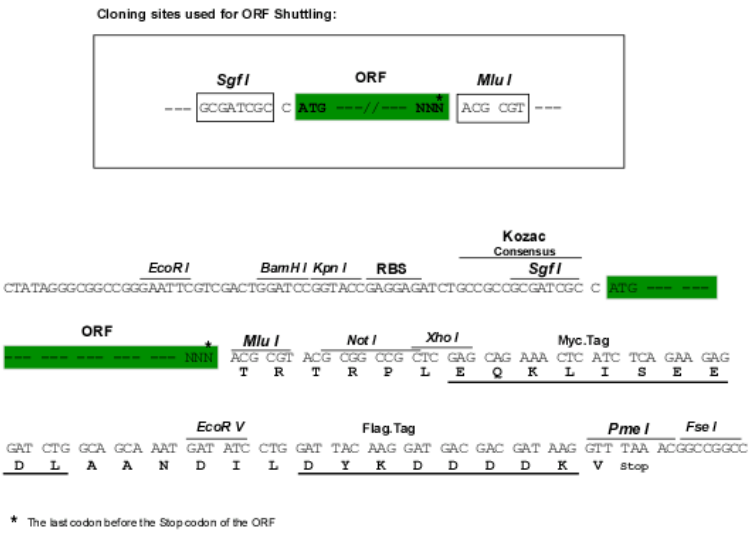
MVKFPALTHYWPLIRFLVPLGITNIAIDFGEQALNRGIAAVKEDAVEMLASYGLAYSLMKFFTGPMSDFK
NVGLVFVNSKRDRTKAVLCMVVAGAIAAVFHTLIAYSDLGYYIINKLHHVDESVGSKTRRAFLYLAAFPF
MDAMAWTHAGILLKHKYSFLVGCASISDVIAQVVFVAILLHSHLECREPLLIPILSLYMGALVRCTTLCL
GYYKNIHDIIPDRSGPELGGDATIRKMLSFWWPLALILATQRISRPIVNLFVSRDLGGSSAATEAVAILT
ATYPVGHMPYGWLTEIRAVYPAFDKNNPSNKLVSTSNTVTAAHIKKFTFVCMALSLTLCFVMFWTPNVSE
KILIDIIGVDFAFAELCVVPLRIFSFFPVPVTVRAHLTGWLMTLKKTFVLAPSSVLRIIVLIASLVVLPY
LGVHGATLGVGSLLAGFVGESTMVAIAACYVYRKQKKKMENESATEGEDSAMTDMPPTEEVTDIVEMREE
NE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

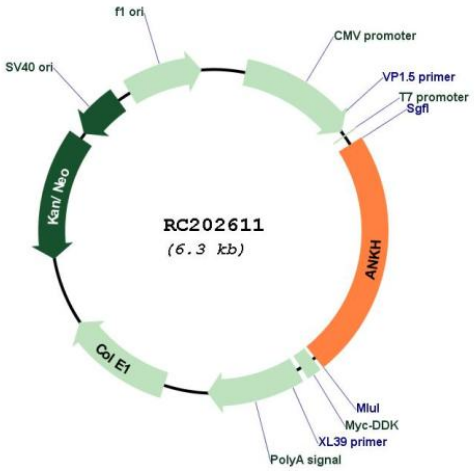
Chromatograms: https://cdn.origene.com/chromatograms/mk6053_b03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



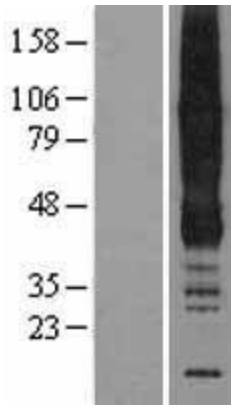
Plasmid Map:



ACCN: NM_054027

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_054027.6
RefSeq Size:	8224 bp
RefSeq ORF:	1479 bp
Locus ID:	56172
UniProt ID:	Q9HCJ1
Cytogenetics:	5p15.2
Protein Families:	Druggable Genome, Transmembrane
MW:	54.2 kDa
Gene Summary:	This gene encodes a multipass transmembrane protein that is expressed in joints and other tissues and controls pyrophosphate levels in cultured cells. Progressive ankylosis-mediated control of pyrophosphate levels has been suggested as a possible mechanism regulating tissue calcification and susceptibility to arthritis in higher animals. Mutations in this gene have been associated with autosomal dominant craniometaphyseal dysplasia. [provided by RefSeq, Jul 2008]

Product images:



Western blot validation of overexpression lysate (Cat# [LY403292]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202611 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).