

Product datasheet for **SC120218**

ANKH (NM_054027) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKH (NM_054027) Human Untagged Clone
Tag:	Tag Free
Symbol:	ANKH
Synonyms:	ANK; CCAL2; CMDJ; CPPDD; HANK; MANK; SLC62A1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC120218 sequence for NM_054027 edited (data generated by NextGen Sequencing)

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ATGGTGAAATCCCGGCGCTCACGCACTACTGGCCCTGATCCGGTTCTTGGTGCCCTG
GGCATCACCAACATAGCCATCGACTTCGGGGAGCAGGCCTTGAACCGGGGATTGCTGCT
GTCAAGGAGGATGCAGTCGAGATGCTGGCCAGCTACGGGCTGGCGTACTCCCTCATGAAG
TTCTTACGGGTCCCATGAGTGACTTCAAAAATGTGGCCTGGTGTGTTGTGAACAGCAAG
AGAGACAGGACCAAAGCCGTCCTGTGTATGGTGGTGGCAGGGGCCATCGCTGCCGCTTT
CACACACTGATAGCTTATAGTGATTTAGGATACTACATTATCAATAAACTGCACCATGTG
GACGAGTCGGTGGGGAGCAAGACGAGAAGGGCCTTCTGTACCTCGCCGCTTTCTTTTC
ATGGACGCAATGGCATGGACCCATGCTGGCATTCTCTAAAACACAAAATACAGTTTCTG
GTGGGATGTGCCTCAATCTCAGATGTCATAGCTCAGGTTGTTTTGTAGCCATTTTGCTT
CACAGTCACCTGGAATGCCGGGAGCCCTGCTCATCCCGATCCTCTCCTTGTACATGGGC
GCACTTGTGCGTGCACCACCCTGTGCCTGGGCTACTACAAGAACATTACGACATCATC
CCTGACAGAAGTGGCCCGAGCTGGGGGAGATGCAACAATAAGAAAGATGCTGAGCTTC
TGGTGGCCTTTGGCTCTAATTCTGGCCACACAGAGAATCAGTCGGCCTATTGTCAACCTC
TTTTTTTCCCGGACCTTGGTGGCAGTTCTGCAGCCACAGAGGCAGTGGCGATTTTGACA
GCCACATACCCTGTGGTCCATGCCATACGGCTGGTTGACGGAAATCCGTGCTGTGTAT
CCTGCTTTCGACAAGAATAACCCAGCAACAACTGGTGAGCAGCAGCAACACAGTCACG
GCAGCCACATCAAGAAGTTCACCTTCGCTGCATGGCTCTGCACTCACGCTCTGTTTC
GTGATGTTTTGGACCCCAACGTGTCTGAGAAAATCTTGATAGACATCATCGGAGTGGAC
TTTGCCTTTGCAGAACTGTGTGTTCTTTGCGGATCTTCTCCTTCTTCCCAGTTCCA
GTCACAGTGAGGGCGCATCTCACGGGTGGCTGATGACACTGAAGAAAACCTTCGTCTT
GCCCCAGCTCTGTGCTGCGGATCATCGTCTCATCGCCAGCCTGTGGTCTTACCCTAC
CTGGGGGTGCACGGTGGCACCCTGGGCGTGGGCTCCCTCCTGGCGGGCTTTGTGGGAGAA
TCCACCATGGTCGCCATCGCTGCGTGTATGTCTACCGGAAGCAGAAAAAGAAAGTGGAG
AATGAGTCGGCCACGGAGGGGGAAGACTCTGCCATGACAGACATGCCTCCGACAGAGGAG
GTGACAGACATCGTGAAATGAGAGAGGAGAATGAATAA
    
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Clone variation with respect to NM_054027.4

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_054027 unedited
NGGTCACATTTGTAACGATCACTATAGGCGGCCGGAATTCGCACGAGGCGCTTATAAT
GGAGCCGCTGTCAGCAGAACCTTCTGCCGCCGCCGCCGCCGCCGCTCCCTCCTTTTT
TTTTCCCGGCAGATCTTTGTTGTGTGGGAGGGCAGCAGGGATGGACTTGAGCTTGGCGAT
CCCCTGTAGAGCAGCCGCTCGGAGAAGGCCCGCAGCCGCGAGGAGGAGCCGCCGCC
GCCGCCGCCGAGGCCGCCGCCGCCGCCGCTCTGTGCGCCGCCGCCGCCGCTCGCCCGTC
GCCCGCTCGCCCTCGCTCCCCGAGAGTCCCCTCGCGCAGCAGATGTGTGTGGGGT
AGCCACGGCGGGGACTATGGTGAATTCGGCGCTCACGCACTACTGGCCCTGATCC
GGTTCTTGGTGCCCTGGGCATACCAACATAGCCATCGACTTCGGGGAGCAGGCCTTGA
ACCGGGGATTGCTGCTGTAAGGAGGATGCAGTCGAGATGCTGGCCAGCTACGGGCTGG
CGTACTCCCTCATGAAGTTCTTACGGGTCCCATGAGTGACTTCAAAAATGTGGGCTGG
TGTTTGTGAACAGCAAGAGAGACAGGACCAAAGCCGTCCTGTGTATGGTGGTGGCAGGG
CCATCGCTGCCGCTTTTACACACTGATAGCTTATAGTATTTAGGATACTACATTATCA
ATAAACTGCACCATGTGGACGAGTNCGTGGGGAGCAAGACGAGAAGGGCCTTCTGTACC
TCGCCGCTTTCTTTCATGGNACGCATGGCATGGACCCATGCTGGCATTCTCTTAAACAC
AAATACAGGTTTCTTGGTGGGATGTGCCCTCATCTCAGATGTCATAGCTCAAGGTGTTTT
TGTAGCCTTTTGTNACAGTCACCTGAATGCCGNAC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_054027 unedited TTTGGCCGAGGCCGNGTCNATGGCGAGTTAAATTCCTTTTTTTTTGGATTAGAGACATT TTATTGAAAATGCGAAAAATAGGAAATGTATTATAGCCTAAAATAAATTACATAACATATA CAGCATATATTTATATCTTTAAAATATTTTTTTGTTTAGGTTCTTTCAGTCTAGGAATTC TGACTAAATCAATTTAGTGAACCGTGTCTATAATTTTTTAAAGGAAAAAACCTGCTTTC CAAAACCTAGAAAAATATACTGCATGCATGGATTCGAATGCGTTATTTTCAGGGAGGAC CACATAGTGACTCTGGTATCGTTATAAAAATGTCTTGCTTTATCGTATGGTGTGGGAGGGA AGTACCGTAGTACATTCTCAATTACCTGTACCGCACAGTTATGACTAAGGATAGCAGAAC CAGGTAATATATCTACTTCAAAAAGTTACCCTACAGCAACCTGGCATTAGAATGCTGGATG AGACTTAAAGCTTCAGTTCAGTGTAAAACTAAAATGCAAAGCTAGGATGCTCCATGTGA CTCGCTCTAATGCGACCTTCAGGAAAGCGAGGGAAAAGCAAGCCTTCAGGAAAAGTAAT GCGGCAGGGTCTGGAATCTGGAGATGCGCTCTTTGTGACAATCAAAAAAGTTAGCTCAT GCATATACACCGTGGGGGTGAGAACTGACAGCTCGCTCAGATCTAGGAGAACGCCAGAGT GAAATGCTATCATTTAACCTGTCAGCCTGCTGCACTCGGGGTATTTAAACCAAACCTT TCTACGGAAGATTCTGGACATCCGATACACTGCTGGGGCACAAGACCTGCGTTCTCAAGT GAACCGGACCTCGGGCTGGAACGTGTCACACGCCTCCCNTCGGGTGGGAAAAAGGGTT ACAACTCCTGGCGGAAGGGAATATTAAGCTCCCCGCGNCTACATTCTTTGTTTCGCGC CTGTGACGGGAAGCCAATCAAGGAACCCGATT
Restriction Sites:	NotI-NotI
ACCN:	NM_054027
Insert Size:	3370 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_054027.3 , NP_473368.1
RefSeq Size:	4086 bp
RefSeq ORF:	1479 bp
Locus ID:	56172
UniProt ID:	Q9HCJ1
Cytogenetics:	5p15.2
Protein Families:	Druggable Genome, Transmembrane

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]