

Product datasheet for **RG202611**

ANKH (NM_054027) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKH (NM_054027) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANKH
Synonyms:	ANK; CCAL2; CMDJ; CPPDD; HANK; MANK; SLC62A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202611 representing NM_054027
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGA AATCCCGGCGCTCACGCACTACTGGCCCTGATCCGGTTCTTGGTGCCCTGGGCATCACCA
 ACATAGCCATCGACTTCGGGGAGCAGGCCCTTGAACCGGGCATTGCTGCTGTCAAGGAGGATGCAGTCGA
 GATGCTGGCCAGCTACGGGCTGGCGTACTCCCTCATGAAGTTCTTACGGGTCCCATGAGTGACTTCAAA
 AATGTGGGCTGGTGTGGTGAACAGCAAGAGAGACAGGACCAAAGCCGTCCTGTGTATGGTGGTGGCAG
 GGGCCATCGTGCCGCTTTTACACACTGATAGCTTATAGTGATTTAGGATACTACATTATCAATAAACT
 GCACCATGTGGACGAGTCGGTGGGGAGCAAGACGAGAAGGGCCTTCTGTACCTCGCCGCTTTCTTTTC
 ATGGACGCAATGGCATGGACCCATGCTGGCATTCTCTTAAACACAAATACAGTTTCTGGTGGGATGTG
 CCTCAATCTCAGATGTCATAGCTCAGGTTGTTTTGTAGCCATTTGCTTACAGTCACCTGGAATGCCG
 GGAGCCCTGCTCATCCGATCCTCTCCTGTACATGGGCGCACTTGTGCGCTGCACCACCTGTGCTG
 GGCTACTACAAGAACATTCACGACATCATCCCTGACAGAAGTGGCCCGGAGCTGGGGGGAGATGCAACAA
 TAAGAAAGATGCTGAGCTTCTGGTGGCCTTTGGCTCTAATTCTGGCCACACAGAGAAATCAGTCGGCCTAT
 TGTCAACCTCTTTGTTTCCCGGGACCTTGGTGGCAGTTCTGCAGCCACAGAGGCAGTGGCGATTTTGACA
 GCCACATACCCTGTGGGTACATGCCATACGGCTGGTTGACGGAAATCCGTGCTGTGATCCTGCTTTTCG
 ACAAGAATAACCCAGCAACAACTGGTGGACGAGCAACACAGTCACGGCAGCCACATCAAGAAGTT
 CACCTTCGTCTGCATGGCTCTGCACTCACGCTCTGTTTCGTGATGTTTTGGACACCAACGTGTCTGAG
 AAAATCTTGATAGACATCATCGGAGTGGACTTTGCCTTGCAGAACTCTGTGTTGTTCTTTGCGGATCT
 TCTCCTTCTCCAGTTCAGTCACAGTGAGGGCGCATCTACCCGGGTGGCTGATGACATGAAGAAAC
 CTTGCTCCTTGCCCCAGCTCTGTGCTGCGGATCATCGTCTCATCGCCAGCCTCGTGGTCTACCTACCTAC
 CTGGGGGTGCACGGTGGCACCCTGGGCGTGGGCTCCCTCCTGGCGGGCTTTGTGGAGAATCCACCATGG
 TCGCCATCGTGCCTGCTATGTCTACCGGAAGCAGAAAAAGAAGATGGAGAATGAGTCGGCCACGGAGGG
 GGAAGACTCTGCCATGACAGACATGCCTCCGACAGAGGAGGTGACAGACATCGTGGAAATGAGAGAGGAG
 AATGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG202611 representing NM_054027
 Red=Cloning site Green=Tags(s)

MVKFPALTHYWPLIRFLVPLGITNIAIDFGEQALNRGIAAVKEDAVEMLASYGLAYSLMKFFTGPMSEDFK
 NVGLVFNKRDRTKAVLCMVVAGIAAVFHLLIAYSIDLGYIINKLHHVDESVGSKTRRAFLYLAAPFP
 MDAMAWTHAGILLKHKYSFLVGCASISDVIAQVVFVAILLHSHLECREPLLIPIILSLYMGALVRCCTTLC
 GYKNIHDIIPDRSGPELGGDATIRKMLSFWWPLALILATQRISRPIVNLVFSRDLGGSSAATEAVAILT
 ATYPVGHMPYGLTEIRAVYPAFDKNNPSNKLVSTSNVTAAHIKKTFFVCMALSLTLCFVMFWTPNVSE
 KILIDIIGVDFAFaelcVvPlRIFsFFPvPvTVRAHLtGwLmTLKkTFvLAPSSVLRiIVLIASLVVLPY
 LGVHGATLGVGSLLAGFVGESTMVAIAACYVYRKQKKMENESATEGEDSAMTDMPPTEEVTDIVEMREE
 NE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


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: 4086 bp

RefSeq ORF: 1479 bp

Locus ID: 56172

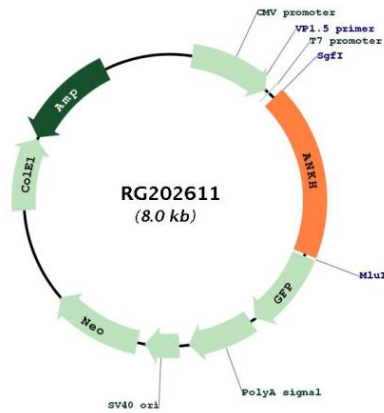
UniProt ID: [Q9HCJ1](#)

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]

Product images:



Circular map for RG202611