

Product datasheet for **SC105542**

ANKHD1 (AK074173) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKHD1 (AK074173) Human Untagged Clone
Tag:	Tag Free
Symbol:	ANKHD1
Synonyms:	MASK; MASK1; PP2500; VBARP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AK074173, the custom clone sequence may differ by one or more nucleotides

GCTGCTGGGACGGGGAAAGGAGACGCTTCTCTCTTGCTGCTCTTCTCGTTCCCGAGATCAGCGGCGG
CGGTGACCGCGAGTGGGTCGGCACCGTCTCCGGCTCCGGGTGCGAACAATGCTGACTGATAGCGGAGGCG
GCGGCACCTCCTTTGAGGAGGACCTGGACTCTGTGGCTCCGCGATCCGCCCCAGCTGGGGCTCGGAGCC
GCCTCCGCGGGGAGGGTTCGGTCTGGGGATCCGCACCGTGAGGCTCTTTGGGAGGCCGGCCAGCGTCG
GGAGTCGGCAGCAGCGCGCGGGCGGCAGCGGCAGCGGTACGGGCGGAGGGGACGCGGCGCTGGATTCA
AGTTGGCGGCTGCCGTGCTGAGGACCGGGGTGGAGGTGGTGCCTCTGGCAGTGACGAGGACGAAGTGC
CGAGGTGAATCATTTATTTGGACCAAGAAGATCTGGATAACCCAGTGCTTAAACAACATCAGAGATA
TTCTTATCAAGTACTGCAGAAGGAGCAGACTTACGCACTGTGGATCCAGAGACACAGGCACGACTAGAAG
CATTGCTAGAAGCAGCAGGAATTGGCAAATTGTCAACTGCTGATGGTAAAGCTTTTGAGATCCTGAGGT
ACTCCGGAGACTGACATCCTCAGTTAGTTGTGCACTGGATGAAGCTGCTGCTGCACTGACACGGATGAAA
GCAGAAAACAGCCACAATGCAGGACAAGTGGACACTCGCAGTCTAGCAGAAGCTTGTTGAGATGGGGATG
TTAATGCTGTTTCGTAAATTGCTAGATGAAGGCAGAAGTGAATGAACATACAGAAGAAGGAGAAAGCCT
GCTGTGTTTGGCTTGTTCAGCAGGATATTATGAATTAGCACAAGTATTGCTTGCTATGCATGCTAATGTT
GAAGATCGAGGGAATAAAGGAGACATAACTCCCCTGATGGCAGCTTCCAGTGGAGGTTACTTAGATATTG
TGAAATTATTACTTCTTCATGATGCTGATGCAACTCCAGTCTGCAACAGGAAACACTGCGCTAACTTA
TGCAATGTGCTGGAGGATTTGTTGACATTGTTAAAGTGCTCCTTAATGAAGGTGCAAAATAGAAAGTCA
AATGAAAATGGACATACTCCCTTAATGGAAGCAGCCAGTGCAGGTCATGTGGAAGTTGCAAGAGTTCTTT
TAGATCATGGTGCAGGCATCAACACTCATTCTAATGAATCAAAGAAAGTGTCTAACACTTGCTTGCTA
CAAAGGCCATTTGGATATGGTTCGCTTTCTACTGAAGCTGGTGCAGATCAAGAGCACAAAACAGATGAG
ATGCACACTGCCTTAATGGAGGCCTGCATGGATGGACATGTAGAGGTGGCACGTTTGGCTTTGGATAGTG
GTGCTCAAGTGAACATGCCTGCAGATTCATTTGAATCTCCATTGACGCTAGCTGCCTGTGGAGGACATGT
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TTGATGGAAGCTGCCCGGAAGGACATGAAGAAATGGTGGCACTACTCTTAGCACAAGGAGCAAATATAA



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ATGCCAGACAGAAGAACTCAAGAACTGCTCTTACTTTGGCTTGCTGTGGAGGATTTCTGAAGTTGC
 AGACTTTCTTATTAAGGCAGGGGCTGATATAGAACTTGGCTGCTCCACACCTCTGATGGAGGCATCTCAG
 GAGGGACACCTGGAATTGGTTAAATATTTGCTGGCTTCTGGCGCTAATGTGCATGCTACAACAGCAACAG
 GAGACACAGCCTTAACCTATGCTTGTGAAAATGGACATACGGATGTTGCAGATGTTTTACTTCAAGCAGG
 GGCTGATTTAGACAAGCAGGAGGACATGAAGACTATTTTGGAGGGCATAGATCCGGCCAAGCATCAGGAA
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 TGATTTTGTCCCAGTCCAGCCTTTATCATCTCCACAGTGAACTTTTCCAGTGACTTAGGTTCTAATGGG
 ACAAATCTCTTGAACCTCAGAAAGTATCAGGTAATCAGCAGATTGTAGGACAGCCTCAGATTGCTATTA
 CTGGACATGATCAGGGGCTGTTAGTTCAAGAACCAGATGGACTAATGGTTGCAACTCCAGCTCAGACGCT
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 ATGTTGAACATAGGGCAAAGACGGGTCTTACCCCTTGATGGAAGCAGCTTCTGGAGGGTATGCAGAGGT
 TGGAAGAGTTCTTCTTGATAAAGGAGCAGATGTTAATGCTCCCTGTGCCTTCTCAAGAGATACTGCT
 TTAACAATAGCAGCAGACAAAGGTCACTACAAATTTTGTGAACCTCTGATTATAGGGGAGCCACATTG
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 GTTGCTAGTGCAAGCAGGTGCTGATGTGGATGCAGCAGATAACCGGAAAAATCACACCTCTTATGTCAGCA
 TTTGCAAGGGTCATGTAAAAGTTGTTCAATATTTGGTAAAGGAAGTAAATCAGTTCCTTCTGATATAG
 AATGCATGAGATACATAGCAACAATTACAGATAAGGAACTGTTGAAAAAATGTCATCAATGTGTCGAAAC
 CATTGTGAAGGCTAAAGACCAGCAAGCTGCAGAAGCAATAAGAATGCGAGTATTCTTTTAAAGGAACTT
 GATCTGGAAGTCAAGAGAAGAGAGCAGAAAGCAGGCTCTTGCTGCTAAAAGAG

5' Read Nucleotide Sequence:

>OriGene 5' read for AK074173 unedited
 CTAACCTTTAAACCCCGCTTGCAGCCAAAGGCGGTAGGCGTGTACGGTNGGAGGTCT
 ATATAAGCAGAGCTCGTTTGTGTAACCGTCAGAAATTTGTAAACGACTCACTATAGGGC
 GGCCGCGAATTCGGCACCAGACGGGGAAAGGAGACGCTTCTTCTCTTGCTGCTTCT
 CGTTCCCGAGATCAGCGGCGGCGGTGACCGCGAGTGGGTCGGCACCGTCTCCGGCTCCGG
 GTGCGAACAATGCTGACTGATAGCGGAGGCGGCGCACCTCCTTTGAGGAGGACCTGGAC
 TCTGTGGCTCCGCGATCCGCCACGCTGGGGCTCGGAGCCGCTCCGCCGGGAGGGGTC
 GGCTGTGGGATCCGCACCGTGAGGCTCTTTGGGAGGCCGGCCAGCGTCGGGAGTCGGC
 AGCAGCGGCGGCGGCGGAGCGGCGGAGCGGTACGGGCGGAGGGGACGCGGCGCTGGATTTT
 AAGTTGGCGGCTGCCGTGCTGAGGACCGGGGTGGAGGTGGTGCCTCTGCAGTGACGAG
 GACGAAGTGCCGAGTTTGATCATTTATTTTGAACCGAAGATCTGGATNACCCAGTG
 CTTAANACACATCAGAGATATTCTTTATCAGTACTGCAGAAGGAGCAGACTTACGCACTG
 TGGATCCCAGAGACACAGCAGCTAGNAGCATTGCTAGNAGCAGCAGGAATTGNCAAT
 TGTCAACTGCTGATGGTAAAAGCTTTGCAGATCCCTGAGTACTNCNGAGACTGACATCTC
 AGTTATTGTGCACTGGATGAAGCTGCTGCTGCACTGACACGGATGAAAGCGAANACAGCC
 ACNATGCAGGGACAGTGGACACTCGCAGTCTAGCAGAAGCTTGTTA

3' Read Nucleotide Sequence:

>OriGene 3' read for AK074173 unedited
 CCCTAGGTTGCCCGCGCGCAATCTACGAGCGAGNTTTTTTTTTTTTTTTCTTTTCT
 TTTTTCTTTTTAGCAGCAAGAGCTGCTTCTGCTCTCTCTTCTGACTTTTCCAGATC
 AAGTTCCTTTAAAGAATACTCGCATTCTATTTGCTTCTGCAGCTTGCTGGTCTTTAGC
 CTTCAATGTTTCGACACATTGATGACATTTTTTCAACAGTTCCTTATCTGTAATTGT
 TGCTATGTATCTCATGATTCTATATCAGAAGGGAAGTATTTACTTCTTTACCAAATA
 TTGAACAACTTTTACATGACCCTTGCGAAATGCTGACATAAGAGGTGTGATTTTCCGGTT
 ATCTGCTGCATCCACATCAGCACCTGCTTGCACTAGCAACTGCACAACATCAAAATGACC
 TCCATTGGATGCCAGCCAAAGTGGCGTATTTCCCTTTTGTACGAACATCAATGTGGGC
 TCCCCTATGAATCAGGAGTTCACAAAATTTGTAGTGACCTTTGCTGCTGCTATTGTTAA
 AGCAGTATCTCTTGAGGAAGGCACAGGGGAGCATTAAACATCTGCTCTTTATCAAGAAG
 AACTCTTCCAACCTCTGCATACCCTCCAGAAGCTGCTTCCATCAAGGGGTAAGACCCGT
 CTTTGCCCTATGTTCAACATTGGCTTTTCGGTCCAGAAGCAAACTCACTACTTNTGCTCN
 GCCCTGGAACACGCCAGGGTGAGAGCCGTGTTCCCGAATGGCCTCTATTTTGCCATAA
 TGGTCTGAACCCATATCGAGCAGCCATTTTACTGCANGAACATGTCCATTATTGCAGCC
 ACATCAGGGAAGACAATAAGTTACTCCCAACCCTGGATTAATTCTGCCAGCATAAGCC
 CAACCTTAGGATTACCCATCCTTCGACCC

Restriction Sites:

NotI-NotI

ACCN:

AK074173

Insert Size:

4700 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:

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: [AK074173.1](#), [BAB84999.1](#)

RefSeq Size: 4535 bp

RefSeq ORF: 4535 bp

Locus ID: 54882

Cytogenetics: 5q31.3

Domains: ANK

Gene Summary: This gene encodes a protein with multiple ankyrin repeat domains and a single KH-domain. The protein is thought to function as a scaffolding protein, and it may be involved in the regulation of caspases and thereby play an antiapoptotic role in cell survival. Alternative splicing results in multiple transcript variants, one of which generates a fusion transcript (MASK-BP3) with the downstream eIF4E-binding protein 3 (EIF4EBP3) gene, resulting in a protein comprised of the ANKHD1 sequence for the majority of the protein and a different C-terminus due to an alternate reading frame for the EIF4EBP3 segments. [provided by RefSeq, Sep 2010]