

Product datasheet for **RC222623**

ANKHD1 (NM_024668) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKHD1 (NM_024668) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANKHD1
Synonyms:	MASK; MASK1; PP2500; VBARP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC222623 representing NM_024668
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGACTGATAGCGGAGGCGGCGCACCTCCTTTGAGGAGGACCTGGACTCTGTGGCTCCGCGATCCG
 CCCAGCTGGGGCCTCGGAGCCGCTCCGCCGGGAGGGTCTGGTCTGGGATCCGCACCGTGAGGCTCTT
 TGGGGAGGCCGGCCAGCGTCGGGAGTCGGCAGCAGCGCGCGCGGCAGCGGAGCGGTACGGGCGGA
 GGGGACGCGCGCTGGATTTCAAGTTGGCGGCTGCCGTGCTGAGGACCGGGGTGGAGGTGGTGCCTCTG
 GCAGTGACGAGGACGAAGTGCCGAGGTTGAATCATTTATTTGGACCAAGAAGTCTGGATAACCCAGT
 GCTTAAACAACATCAGAGATATTCTTATCAAGTACTGCAGAAGGAGCAGACTTACGCACTGTGGATCCA
 GAGACACAGGCAGACTAGAAGCATTGCTAGAAGCAGCAGGAATTGGCAAATTGCAACTGCTGATGGTA
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 GAAGCTTGTTTCAGATGGGGATGTTAATGCTGTTCTGTAATTTGCTAGATGAAGGCAGAAAGTAAATGAAC
 ATACAGAAGAAGGAGAAAAGCCTGCTGTGTTGGCTTGTTGAGCAGGGTATTATGAATTAGCACAAGTATT
 GCTTGCTATGCATGCTAATGTTGAAGATCGAGGGAATAAAGGAGACATAACTCCCTGATGGCAGCTTCC
 AGTGGAGGTTACTTAGATATTGTGAAATTATTCTTCTCATGATGCTGATGTCAACTCCAGTCTGCAA
 CAGGAAACACTGCGCTAACTTATGCATGTGCTGGAGGATTTGTTGACATTGTTAAAGTGCTCCTTAATGA
 AGGTGCAAATATAGAAGATCATAATGAAATGGACATACTCCCTTAATGGAAGCAGCCAGTGCAGGTCAT
 GTGGAAGTTGCAAGAGTTCTTTTAGATCATGGTGCAGGCATCAACACTCATTCTAATGAATCAAAGAAA
 GTGCTCTAACACTTGCTTGCTACAAAGGCCATTTGGATATGGTTGCTTTCTACTTGAAGCTGGTGCAGA
 TCAAGAGCACAAAACAGATGAGATGCACACTGCCTTAATGGAGGCCTGCATGGATGGACATGTAGAGGTG
 GCACGTTTGCTTTTGATAGTGGTGCTCAAGTGAACATGCCTGCAGATTCATTTGAATCTCCATTGACGC
 TAGCTGCCTGTGGAGGACATGTTGAATTGGCAGCTCTACTTATTGAAAGGGGAGCAAATCTTGAAGAAGT
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 TTAGCACAAGGAGCAAATATAAATGCCAGACAGAAGAACTCAAGAACTGCTCTTACTTTGGCTTGCT
 GTGGAGGATTTTCTGAAGTTGCAGACTTTCTTATTAAGGCAGGGGCTGATATAGAACTTGGCTGCTCCAC
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 CAGATGTTTTACTTCAAGCAGGGGCTGATTTAGACAAGCAGGAGGACATGAAGACTATTTTGGAGGGCAT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222623 representing NM_024668
 Red=Cloning site Green=Tags(s)

MLTDSGGGTSFEEDLDSVAPRSAPAGASEPPPGGVGLGIRTVRLFGEAGPASGVGSSGGGSGSGTGG
 GDAALDFKLAAVLRGGGGASGSEDEVSEVESFILDQEDLDNPVLKTTSEIFLSSTAEGADLRVDP
 ETQARLEALLEAAGIGKLSTADGKAFADPEVLRRLTSSVSCALDEAAAAALTRMKAENSHNAGQVDTRSLA
 EACSDGDVNAVRKLLDEGRSVNEHTEEGESLLCLACSAGYYELAQVLLAMHANVEDRGNKGDITPLMAAS
 SGGYLDIVKLLLLHDADVNSQSATGNTALTYACAGGFVDIVKVLLNEGANIEDHNENGHTPLMEASAGH
 VEVARVLLDHGAGINTHSNEFKESALTLACYKGHLDMVRFLLAAGADQEHKTDDEMHTALMEACMDGHVEV
 ARLLLLDSGAQVNMPADSFEPLTLAACGGHVELAALLIERGANLEEVNDEGYTPLMEAREGHEEMVALL
 LAQGAINAQTEETQETALTACCGGFSEVADFLIKAGADIELGCSTPLMEASQEGHLELVKYLASGAN
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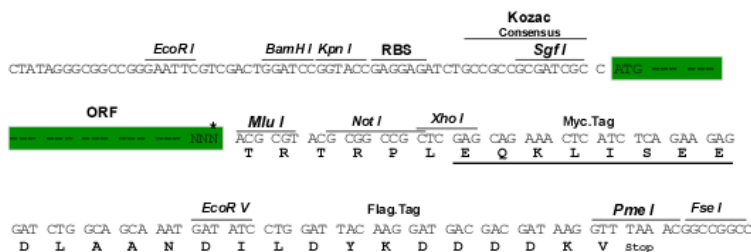
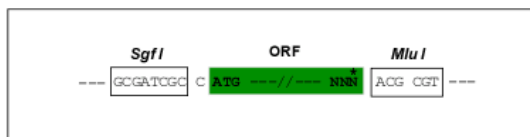
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8070_d11.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 024668

ORF Size: 1881 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

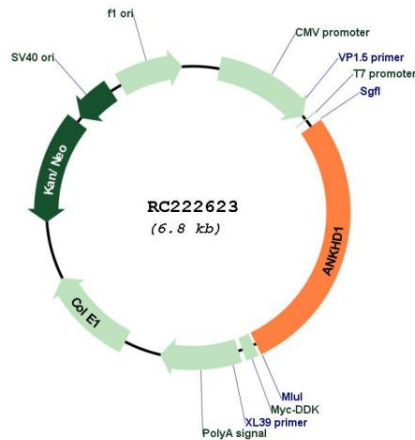
RefSeq: NM 024668.4

RefSeq Size: 2194 bp

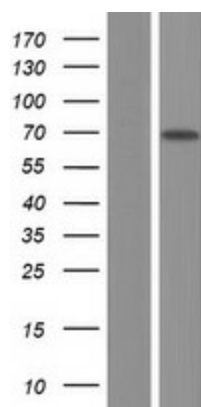
RefSeq ORF: 1884 bp
 Locus ID: 54882
 UniProt ID: [Q8IYWZ3](#)
 Cytogenetics: 5q31.3
 Domains: ANK
 MW: 64.9 kDa

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]

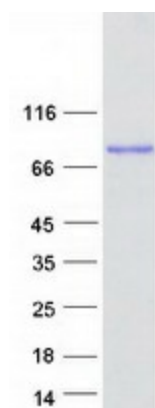
Product images:



Circular map for RC222623



Western validation with an anti-DDK antibody; L: Control HEK293 lysate R: Over-expression lysate



Coomassie blue staining of purified ANKHD1 protein (Cat# [TP322623]). The protein was produced from HEK293T cells transfected with ANKHD1 cDNA clone (Cat# RC222623) using MegaTran 2.0 (Cat# [TT210002]).