

Product datasheet for **RG221886**

ANKHD1 (NM_017978) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKHD1 (NM_017978) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANKHD1
Synonyms:	MASK; MASK1; PP2500; VBARP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221886 representing NM_017978
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGACTGATAGCGGAGCGCGGCACCTCCTTTGAGGAGACCTGGACTCTGTGGCTCCGCGATCCG
 CCCAGCTGGGGCTCGGAGCCGCTCCGCCGGAGGGTCTGGGATCCGCACCGTGAGGCTCTT
 TGGGAGCGCGGCCAGCGTCGGAGTCGCGAGCAGCGCGCGCGCGCAGCGGCAGCGGTACGGCGGA
 GGGAGCGCGCGCTGGATTTCAAGTTGGCGGCTGCCGTGCTGAGGACCGGGGTGGAGGTGGTGCCTCTG
 GCAGTGACGAGGACGAAGTGTCCGAGTTGAATCATTTATTTGGACCAAGAAGTCTGGATAACCCAGT
 GCTTAAAAACAACATCAGAGATATTCTTATCAAGTACTGCAGAAGGAGCAGACTTACGCACCTGTGGATCCA
 GAGACACAGGCACGACTAGAAGCATTGCTAGAAGCAGCAGCTTTGCAGATCCTGAGGACTCCGGAGAC
 TGACATCCTCAGTTAGTTGTGACTGGATGAAGCTGCTGCTGACTGACACGGATGAAAGCAGAAAAACAG
 CCACAATGCAGGACAAGTGGACTCGCAGTCTAGCAGAAGCTTGTTCAGATGGGGATGTTAATGCTGTT
 CGTAAATTGCTAGATGAAGGCAGAAGTGTAAATGAACATACAGAAGAAGGAGAAAGCCTGCTGTGTTGG
 CTTGTTACGACGGTATTATGAATTAGCACAAAGTATTGCTTGCTATGCATGCTAATGTTGAAGATCGAGG
 GAATAAAGGAGACATAACTCCCCTGATGGCAGCTTCCAGTGGAGGTTACTTAGATATTGTGAAATTATTA
 CTTCTTATGATGCTGATGTCAACTCCCAGTCTGCAACAGGAAACACTGCGCTAACTTATGCATGTGCTG
 GAGGATTTGTTGACATTGTTAAAGTGCTCCTTAATGAAGTGCAAATATAGAAGATCATAATGAAATGG
 ACATACTCCCTTAATGGAAGCAGCCAGTGCAGGTCATGTGGAAGTTGCAAGATTCTTTTAGATCATGGT
 GCAGGCATCAACACTCATTCTAATGAATTCAAAGAAAGTGCTCTAACACTTGCTTGCTACAAAGGCCATT
 TGGATATGGTTCGCTTTCTACTTGAAGCTGGTGCAGATCAAGAGCAGCAAAACAGATGAGATGCACACTGC
 CTTAATGGAGCCCTGCATGGATGGACATGTAGAGGTGGCAGCTTTGCTTTTGGATAGTGGTGTCAAGTG
 AACATGCCTGCAGATTCATTTGAATCTCCATTGACGCTAGCTGCCTGTGGAGGACATGTTGAATTGGCAG
 CTCTACTTATTGAAAGGGGAGCAAATCTTGAAGAAGTTAATGATGAAGGATACACTCCCTTGATGGAAGC
 TGCCCCGGAAGGACATGAAGAAATGGTGGCACTACTCTTAGCACAAAGGAGCAAATATAAATGCCAGACA
 GAAGAACTCAAGAACTGCTCTTACTTTGGCTTGTGTTGGAGGATTTTCTGAAGTTGCAGACTTTCTTA
 TTAAGGCAGGGGCTGATATAGAACTTGGCTGCTCCACACCTCTGATGGAGGCATCTCAGGAGGGACACCT
 GGAATTTGTTAAATTTGCTGGCTTCTGGCGCTAATGTGCATGCTACAACAGCAACAGGAGACACAGCC
 TTAACCTATGCTTGTGAAATGGACATACGGATGTTGCAGATGTTTACTTCAAGCAGGGGCTGATTAG
 ACAAGCAGGAGGACATGAAGACTATTTTGGAGGCATAGATCCGGCCAAGCATCAGGTGAGGGTGGCCTT
 TGATGCTTGAAGCTACTACGTAAGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221886 representing NM_017978
 Red=Cloning site Green=Tags(s)

MLTDSGGGTSFEEDLDSVAPRSAPAGASEPPPPGGVGLGIRTVRLFGEAGPASGVGSSGGGSGSGTGG
 GDAALDFKLAADVLRGSGGASGSDDEVSEVESFILDQEDLNPVLTSEIFLSSTAEGADLRVDP
 ETQARLEALLEAAAFADPEVLRRLTSSVSCALDEAAAALTRMKAENSHNAGQVDTRSLAEACSDGDVNAV
 RKLLDEGRSVNEHTEEGESLLCLACSAGYYELAQVLLAMHANVEDRGNKGDITPLMAASSGGYLDIVKLL
 LLHDADVNSQSATGNTALTYACAGGFVDIVKVLNNEGANIEDHNENGTPLMEAASAGHVEVARVLLDHG
 AGINTHSNEFKESALTLACYKGHLDVRFLLLEAGADQEHKTDEMHTALMEACMDGHVEVARVLLDLSGAQV
 NMPADSFESPLTLAACGGHVELAALLIERGANLEEVNDEGYTPLMEAAREGHEEMVALLLAQGAINAQT
 EETQETALTLACGGFSEVADFLIKAGADIELGCSTPLMEASQEGHLELVKYLASGANVHATTATGDTA
 LTYACENGHTDVADVLLQAGADLDKQEDMKTILEGIDPAKHQVRFVAFDACKLLRKE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_017978

ORF Size: 1848 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

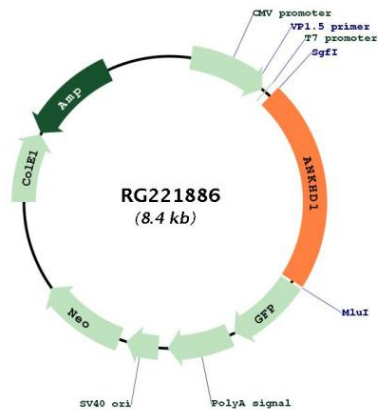
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_017978.3](#)

RefSeq Size: 2149 bp
 RefSeq ORF: 1851 bp
 Locus ID: 54882
 UniProt ID: [Q8IWZ3](#)
 Cytogenetics: 5q31.3

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 RG221886