

Product datasheet for **SC314258**

ANKHD1 (NM_024668) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKHD1 (NM_024668) Human Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >SC314258 representing NM_024668.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGCTGACTGATAGCGGAGGCGGCCGACCTCCTTTGAGGAGGACCTGGACTCTGTGGCTCCGCGATCC
GCCCCAGCTGGGGCCTCGGAGCCGCTCCGCCGGGAGGGTCTGGTCTGGGGATCCGCACCGTGAGGCTC
TTTGGGGAGGCCGGGCCAGCGTCGGGAGTCGGCAGCAGCGCGGCCGGCAGCGCAGCGGTACGGGC
GGAGGGGACGCGCGCTGGATTTCAAGTTGGCGGCTGCCGTGCTGAGGACCGGGGTGGAGGTGGTGCC
TCTGGCAGTGACGAGGACGAAGTGTCCGAGGTTGAATCATTTATTTGGACCAAGAAGATCTGGATAAC
CCAGTGCTTAAACAACATCAGAGATATTCTTATCAAGTACTGCAGAAGGAGCAGACTTACGCACTGTG
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GAAGCTGCTGCTGCACTGACACGGATGAAAGCAGAAAACAGCCACAATGCAGGACAAGTGGACACTCGC
AGTCTAGCAGAAGCTTGTTCAGATGGGGATGTTAATGCTGTTCTGAAATTGCTAGATGAAGGCAGAAGT
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GCACAAGTATTGCTTGCTATGCATGCTAATGTTGAAGTCGAGGGAATAAAGGAGACATAACTCCCTG
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GCCAGTGCAGGTCATGTGAAGTTGCAAGAGTTCTTTAGATCATGGTGCAGGCATCAACACTCATTCT
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GAAGAAATGGTGGCACTACTCTTAGCACAAGGAGCAAAATATAAATGCCAGACAGAAGAACTCAAGAA
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TGTGAAAATGGACATACGGATGTTGCAGATGTTTTACTTCAAGCAGGGGCTGATTTAGACAAGCAGGAG
GACATGAAGACTATTTTGAGGGCATAGATCCGCCAAGCATCAGGTGAGGGTGGCCTTTGATGCTTGT
AAGCTACTACGTAAAGAATAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-MluI

ACCN: NM_024668

Insert Size: 1884 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_024668.3](#)

RefSeq Size: 2194 bp

RefSeq ORF: 1884 bp

Locus ID: 54882

UniProt ID: [Q8IWZ3](#)

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]

Transcript Variant: This variant (3) lacks several exons in the central and 3' coding regions, and uses an alternate 3' terminal exon, compared to variant 1. The resulting isoform (3) is significantly shorter and has a distinct C-terminus, compared to isoform 1.