

Product datasheet for **RG222623**

ANKHD1 (NM_024668) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKHD1 (NM_024668) 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:

>RG222623 representing NM_024668
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGACTGATAGCGGAGGCGGCGCACCTCCTTTGAGGAGGACCTGGACTCTGTGGCTCCGCGATCCG
 CCCAGCTGGGGCCTCGGAGCCGCTCCGCCGGGAGGGTCTGGTCTGGGGATCCGCACCGTGAGGCTCTT
 TGGGGAGGCCGGGCCAGCGTCGGGAGTCGGCAGCAGCGCGCGCGGCAGCGGCAGCGGTACGGGCGGA
 GGGGACGCGGCGCTGGATTTCAAGTTGGCGGCTGCCGTGCTGAGGACCGGGGTGGAGGTGGTGCCTCTG
 GCAGTGACGAGGACGAAGTGCCGAGGTTGAATCATTTATTTGGACCAAGAAGTCTGGATAACCCAGT
 GCTTAAACAACATCAGAGATATTCTTATCAAGTACTGCAGAAGGAGCAGACTTACGCACTGTGGATCCA
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 AAGCTTTTGCAGATCCTGAGGTACTCCGAGACTGACATCCTCAGTTAGTTGTGCACTGGATGAAGCTGC
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 ATACAGAAGAAGGAGAAAAGCCTGCTGTGTTGGCTTGTTGAGCAGGGTATTATGAATTAGCACAAGTATT
 GCTTGCTATGCATGCTAATGTTGAAGATCGAGGGAATAAAGGAGACATAACTCCCTGATGGCAGCTTCC
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 CAGGAAACACTGCGCTAACTTATGCATGTGCTGGAGGATTTGTTGACATTGTTAAAGTGCTCCTTAATGA
 AGGTGCAAATATAGAAGATCATAATGAAATGGACATACTCCCTTAATGGAAGCAGCCAGTGCAGGTCAT
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 TTAGCACAAGGAGCAAATATAAATGCCAGACAGAAGAACTCAAGAACTGCTCTTACTTTGGCTTGCT
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 ACCTCTGATGGAGGCATCTCAGGAGGACACCTGGAATTGGTTAAATATTTGCTGGCTTCTGGCGCTAAT
 GTGCATGCTACAACAGCAACAGGAGACACAGCCTTAACCTATGCTTGTAAGAAATGGACATACGGATGTTG
 CAGATGTTTTACTTCAAGCAGGGGCTGATTTAGACAAGCAGGAGGACATGAAGACTATTTTGGAGGGCAT
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

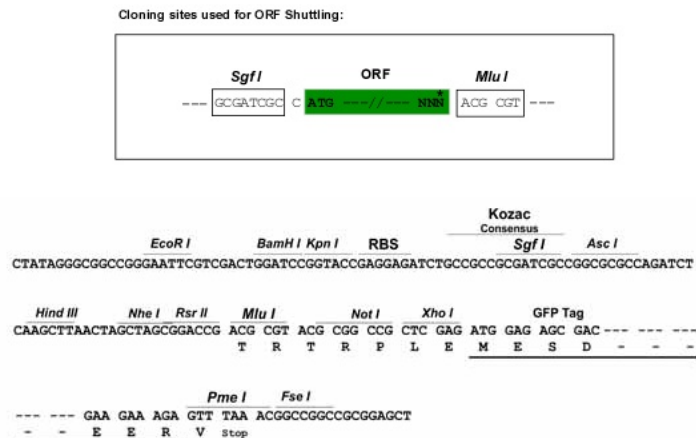
>RG222623 representing NM_024668
 Red=Cloning site Green=Tags(s)

MLTDSGGGTSFEEDLDSVAPRSAPAGASEPPPPGGVGLGIRTVRLFGEAGPASGVGSSGGGSGSGTG
 GDAALDFKLAAAVLRTGGGGGASGSEDEVSEVESFILDQEDLDPVLTSEIFLSSTAEGADLRVDP
 ETQARLEALLEAAGIGKLSTADGKAFADPEVLRRLTSSVSCALDEAAAALTRMKAENSHNAGQVDTRSLA
 EACSDGDVNAVRKLLDEGRSVNEHTEEGESLLCLACSAGYYELAQVLLAMHANVEDRGNKGDITPLMAAS
 SGGYLDIVKLLLLHDADVNSQSATGNTALTYACAGGFVDIVKVLLNEGANIEDHNENGHTPLMEASAGH
 VEVARVLLDHGAGINTHSNEFKESALTLACYKGHLDMVRFLLEAGADQEHKTDDEMHTALMEACMDGHVEV
 ARLLLDLSGAQVNPADSFEPLTLAACGGHVELAALLIERGANLEEVNDEGYTPLMEAAREGHEEMVALL
 LAQGAINAQTEETQETALTACCGGFSEVADFLIKAGADIELGCSTPLMEASQEGHLELVKYL LASGAN
 VHATTATGDTALTYACENGHTDADVLLQAGADLDKQEDMKTILEGIDPAKHQVRVAFDACKLLRKE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


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.

RefSeq: [NM_024668.4](#)

RefSeq Size: 2164 bp

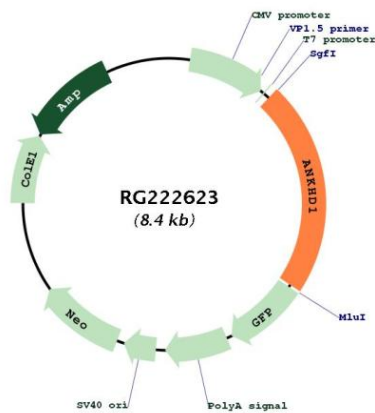
RefSeq ORF: 1884 bp

Locus ID: 54882

UniProt ID: [Q8IWZ3](#)

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]

Product images:



Circular map for RG222623