OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG204598

ANKRD9 (NM_152326) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ANKRD9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG204598 representing NM_152326
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGTGGGACGCGCGGCGGCCTGGGGGTGGCGCGGACGGCGGGCCCGAGGCCTCGGGCGCGGCGCGCT
CGCGAGCGCAGAAGCAGTGCCGCAAGTCGTCGTTCGCCTTCTACCAGGCGGTGCGCGACCTGCTACCCGT
GTGGCTGCTGGAGGATATGCGCGCCAGCGAGGCCTTCCACTGGGACGAGCGCGGGCGCGCCGCCGCCTAC
TCGCCCTCTGAGGCGCTGCTCTACGCGCTCGTGCACGACCACCAAGCGTACGCGCATTACCTGCTGGCCA
CGTTCCCGCGGCGCGCGCTCGCACCGCCCAGTGCCGGCTTCCGCTGCTGCGCGGCTCCCGGGCCGCACGT
GGCGCTGGCAGTGCGCTACAACCGCGTGGGCATTCTGCGCCGCATCCTGCGCACCTTGCGCGACTTCCCG
GCCGAGGAGCGGGCGCGCGTGCTGGACCGGCGTGGCTGCAGCCGCGTGGAGGGCGGTGGCACGTCGCTGC
ACGTGGCCTGTGAGCTGGCGCGCCCCGAGTGCCTCTTCCTGCTGCTGGGCCACGGCGCCTCGCCCGGTCT
GCGGGACGGCGGCGGCCTCACGCCTCTCGAGCTGCTGCTGCGCCAGCTGGGCCGCGACGCCGGGGCCACT
CCCTCCGCCGCCGGAGCCCCCGCCTCAGCTCCCGGGGAGCCGCGCCAGCGCCGCCTGCTGCTGCTGGACC
TCCTGGCGCTGTACACCCCCGTGGGTGCCGCCGGCTCGGCCCGCCAGGAGCTGCTGGGCGACCGGCCGCG
CTGGCAGCGGCTGCTGGGTGAGGACAAGTTCCAGTGGCTGGCGGGCCTGGCGCCGCCCTCGCTCTTCGCG
CGCGCCATGCAGGTGCTGGTCACCGCCATCTCTCCAGGCCGCTTCCCCGAGGCCCTGGACGAGCTGCCGC
TGCCCCCATTCCTGCAGCCGTTGGACCTCACTGGCAAAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

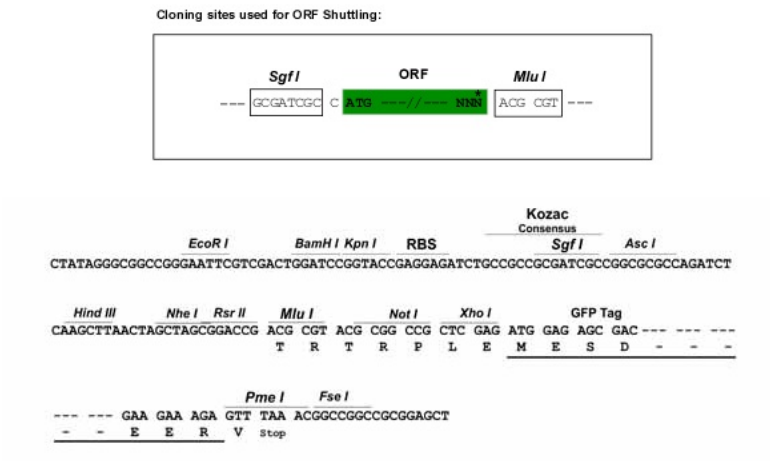
>RG204598 representing NM_152326
Red=Cloning site Green=Tags(s)

MPWDARRPGGGADGGPEASGAARSRAQKQCRKSSFAFYQAVRDLLPVWLLEDMRASEAFHWDERGRAAAY
SPSEALLYALVHDHQAYAHYLLATFPRRALAPPSAGFRCCAAPGPHVALAVRYNRVGILRRILRTLRDFP
AEERARVLDRRGCSRVEGGGTSLHVACELARPECLFLLLGHGASPGLRDGGGLTPLELLLRQLGRDAGAT
PSAAGAPASAPGEPRQRRLLLLDLLALYTPVGAAGSARQELLGDRPRWQRLLGEDKFQWLAGLAPPSLFA
RAMQVLVTAISPGRFPEALDELPLPPFLQPLDLTGKG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152326

ORF Size: 951 bp

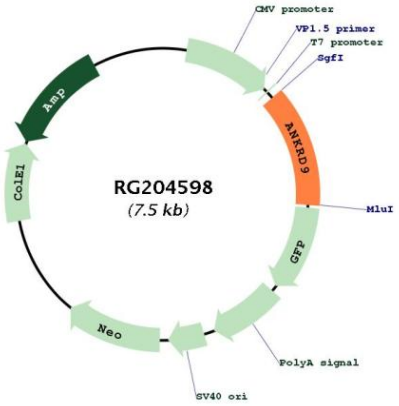
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_152326.4
RefSeq Size:	1626 bp
RefSeq ORF:	954 bp
Locus ID:	122416
UniProt ID:	Q96BM1
Cytogenetics:	14q32.31
Domains:	ANK
Gene Summary:	Substrate receptor subunit of a cullin-RING superfamily E3 ligase complex (CUL5-based E3 ubiquitin ligase complex) which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:30293565). Depending of the metabolic state of the cell, promotes the proteasomal degradation of IMPDH2, the rate-limiting enzyme in GTP biosynthesis or protects IMPDH2 by stabilizing IMPDH2 filaments assembly (PubMed:30293565, PubMed:31337707). Implicated in different cellular processes, like copper homeostasis and cell proliferation (PubMed:24522796, PubMed:30293565).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204598