

Product datasheet for **SC100740**

ANKRD9 (NM_152326) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKRD9 (NM_152326) Human Untagged Clone
Tag:	Tag Free
Symbol:	ANKRD9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100740 sequence for NM_152326 edited (data generated by NextGen Sequencing) <pre> ATGCCGTGGGACGCGCGCGGCCTGGGGGTGGCGCGGACGGCGGCCCGAGGCCTCGGGC GCGGCGCGCTCGCGAGCGCAGAAGCAGTGCCGCAAGTCGTCGTTGCGCTTCTACAGGCG GTGCGCGACCTGTACCCGTGTGGCTGCTGGAGGATATGCGCGCCAGCGAGGCCTTCCAC TGGGACGAGCGCGGGCGCGCCGCGCCTACTCGCCCTCTGAGGCGCTGCTCTACGCGCTC GTGCACGACCACCAAGCGTACGCGCATTACCTGCTGGCCACGTTCCCGCGGCGCGCGCTC GCACCGCCCAAGTCCCGGCTTCCGCTGCTGCGCGGCTCCCGGGCCGACGTGGCGCTGGCA GTGCGCTACAACCGCGTGGGCATTCTGCGCCGATCCTGCGCACCTTGCGCGACTTCCCG GCCGAGGAGCGGGCGCGCTGCTGGACCGGCGTGGCTGCAGCCGCGTGGAGGGCGGTGGC ACGTCGCTGCACGTGGCCTGTGAGCTGGCGCGCCCCGAGTGCCTCTTCTGCTGCTGGGC CACGGCGCCTCGCCCGGTCTGCGGGACGGCGGCGCCTCACGCCTCTCGAGCTGCTGCTG CGCCAGCTGGGCCGCGACGCCGGGGCCACTCCCTCCGCCCGCGGAGCCCCGCGCTCAGCT CCCGGGGAGCCGCGCCAGCGCCGCTGCTGCTGCTGGACCTCCTGGCGCTGTACACCCCC GTGGGTGCCGCGGCTCGGCCCGCCAGGAGCTGCTGGGCGACCGCGCGCTGGCAGCGG CTGCTGGGTGAGGACAAGTTCCAGTGGCTGGCGGGCCTGGCGCCGCCCTCGCTCTTCGCG CGCGCCATGCAGGTGCTGGTCACCGCCATCTCTCAGGCCGCTTCCCGAGGCCCTGGAC GAGCTGCCGCTGCCCCATTCTGCAGCCGTTGGACCTCACTGGCAAAGGCTAG </pre>

Clone variation with respect to NM_152326.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152326 unedited
 ATTTTGGTATACGACTCACTTATAGGGCGGCCGATTTCGGCACGAGGAAAGTGGGATG
 GCAGTACCCGCTTCATCTAGTAGTCGGGAGATCAAGAGAGGTATGGGACCTGAAGAGGA
 TGGCAGACTGTGCAGTGCAGTGCACACCGGTCTCCAGGTTGTTTTACCCCTCCTGTCTCC
 TCCCAGGAGCTAACGTATAAAGCTGAGGCTCGGCCAGGACTGTGATATACCCACATCCC
 CGGAAGTAGGTGATCGCGGTGCAGGAACAGGTGTGCCTTCGCGGGATCCATGCCTTGAG
 GCCCAGGAACGCCCCGCCAGCATGCCGTGGGACGCGCGCGCCTGGGGGTGGCGCG
 GACGGCGGGCCCCGAGGCTCGGGCGCGCGCTCGCGAGCGCAGAAGCAGTGCCGCAAG
 TCGTCGTTTCGCTTCTACCAGGCGGTGCGCGACCTGCTACCCGTGTGGCTGCTGGAGGAT
 ATGCGCGCCAGCGAGGCTTCCACTGNGACGAGCGGGCGCGCGCGCTACTCGCCC
 TCTGAGGCGTGTCTACGCGCTCGTGACGACCAAGCGTACGCGCATTACCTGCTG
 GCCACGTTCCCGCGNGCGCGCTCGCACCGNCCAGTGCCGGCTTCGCTGCTGCGCGCT
 CCCGGGCCGACGTGGCGCTGGCAGTGCCTACAACCGCTGGGATTCTGCGCCGCATC
 CTGCGCACCTTGGCGCACTTCNCGCAGAGCGCGCGCGCTGAGACCGCGCTGGC
 TGCAGCCGCGTGAAGGCGTGGCAGTGCCTGCAGTGGCTGTGAGCTGGCGCGCCCC
 GAGTGCTCTTCTGCTGGTGGGCCACGCGCTCGCCGGTCTGCGGACGGCGCGGCTCA
 CGCTTTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_152326 unedited
 CGTTTATATAACCTGCTTTGTACAACTGCTCTGAAAAACAGTTTTGNTCCCAAATCCAG
 CGTCTAGGGTGTCCGGGCTAGCCTTTGCCAGTGAGGTCCAACGGTGCAGGAATGGGG
 GCAGCGGCAGCTCGTCCAGGGCTCGGGGAAGCGGCTGGAGAGATGGCGGTGACCAGCA
 CCTGCATGGCGCGCGGAAGAGCGAGGGCGGCTCCTTGGCCCCCAGCCACTGGAATTG
 TCCTCACCCAGCAGCCGCTGCCAGCGCGCCGGTGCAGCAGCTCCTGGCGGGCCGAG
 CCGGCGGCACCCACGGGGGTGTACAGCGCCAGGAGGTCCAGCAGCAGAGCGCGCTGG
 CGCGGCTCCCCGGGAGCTGAGGCGGGGGCTCCGCGCGCGAGGAGTGGCCCCGCGCTCG
 CGGCCCAGCTGGCGCAGCAGCAGCTCGAGAGGCGTGAGGCCGCCCGCTCCCGCAGACCG
 GGCGAGGCGCGGTGGCCAGCAGCAGGAAGAGGCACTCGGGGCGCGCAGCTCACAGGCC
 ACGTAGCAGCGAGTGCACCGCCCTCCACGCGGCTGCAGCCACGCGGTCCAGCAGCG
 CGCCCCGCTCTCGGCCGGAAGTGCAGCAAGGTGCGCAGGATGCGGCGCAAAATGCCAC
 GCGGGTGTAGCGCACTGCCAGCGCCACGTGCGGCCGGGAGCCGCGCAACAGCCGGAAG
 CCGCCACTGGGCGGTGCGAGCGCGCCCCGGGAACGTGCCAGCAGGAATGGCCGTAC
 GCTTGGGGGTCCGCGACAGCCCTTAAAGCAACGCCTCAAAGGGCGAGTAAGCCGCGCGC
 GCGGCCCGGCTCGTCCCAAGGGAAGCCCTCGTGGGGCCATTTTCTCCACACCCAAC
 CGGTAGCAAGTCCGCCCCCCCCGATAGGGGAACAAGAACTTGGGGCTGTTTTGGG
 CTTGAGACGCCCCCGCCAAGGT

Restriction Sites:

NotI-NotI

ACCN:

NM_152326

Insert Size:

1500 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).

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:	<u>NM_152326.2, NP_689539.1</u>
RefSeq Size:	1626 bp
RefSeq ORF:	954 bp
Locus ID:	122416
UniProt ID:	<u>Q96BM1</u>
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] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. All three variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.