

## Product datasheet for **RG206701**

### ANKRD53 (NM\_024933) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ANKRD53 (NM_024933) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANKRD53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206701 representing NM_024933 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTCCGCGGGCAGCACCGCTCGGCGGGCGGGCTCCGGAAGCTGGCACTCAGAAAGGGGAGAAGGGA  
GAGGTGCTCGGCCGAGCCAACCTCAAGTGGCTCCATGCAGCAGGCGAACAAAGTCTCCTTGAAGGCCAC  
CTGGACTGACGCGGAGTCCAAGCAGCCAGCCAGCCCCGCCCCGACCTCGCAGACCACCTCAGTGGCAG  
GCGACTGCCCTCGCCAGGCCGCGCCGCCCTGCCTCGCTCACCCCGCCCCGCGCTGACCCAGCCCCAGCA  
AGGAGTCCGACCAGCGCAATCGACCAGACGGCGATCGGGAGCTACTACCAGCTGTTCCGAGCGGCTGT  
GGCAACGTGGAATGGCTGCGATTCTGTCTGAACCAGAGCCTCAGGGAAAATCCCCACCGACACAAGGGC  
TTCAGTGCATCCACTTCGCCGCCCAATGGGGCAAGATTGCATGCCTGCAGGTCCTGGTAGAGGAGTACA  
AGTTTCCCGTGGACCTGCTGACCAACAATAGCCAGACACCCCTGCACCTCGTCATCCACAGGGACAACAC  
CACCGTGGCCCTCCCCTGCATCTACTACCTGCTGGAGAAAGGCGCAGACCTCAATGCTCAGACATGCAAC  
GGCTCCACGCCCTGCACCTGGCAGCCCGTACGGCTTGTGGACTGTGTGAAGTCTGGTGCAGAGTG  
GCGCCAACGTCCATGCCAAGATGCCATGGGCTACAAACCCATTGACTTCTGCAAAATATGGAACCCCG  
TGCTGTGCCCGTTCTTGAAGGATGCCATGTGAAAAAGGACAAGAAGGACTTTGCCCGTGAAGTACG  
AAAATGAAGATGTTCAAGAGCCAGCTGACCCTCATGGAGCACAACCTGATTGAGTATCAAGGTCAAG  
GATGCAGTGTGCACTTCCATTTGCCTTTTCCCCATCACACCAGAGACTCTCTATGGCAGGACATTTT  
TCTACTATCAGACTGTGGATTCTTTGGAGAAGAAGGGAATTGTCTTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206701 representing NM\_024933  
 Red=Cloning site Green=Tags(s)

MASAGSTARRAGSGSWHSERGEGRARPOPTPSGSMQQANKVSLKATWTDAESKQPSQPLPDLADHLSAQ  
 ATALARPRRPASLTTPRADPSPSKESDQTAIDQTAIGSYQLFAAAVGNVEWLRFLNQLREIPTDDKG  
 FTAIHFAAQWGKIAQLQVLVEEYKFPVDLLTNNSQTPLHLVIHRDNTTVALPCIYLLLEKADLNAQTCN  
 GSTPLHLAARDGLLDVCVKLVQSGANVHAQDAMGYKPIDFCKIWNHRACARFLKDAMWKKDKKDFAREMT  
 KMKMFKSQLTLMEHNYLIEYQGQCSVHFPPAFSPITPETLLWQDISLLSDCGFLWRRRELSF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_024933

**ORF Size:** 1029 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\\_024933.2](#), [NP\\_079209.2](#)

**RefSeq Size:** 2010 bp

**RefSeq ORF:** 1032 bp

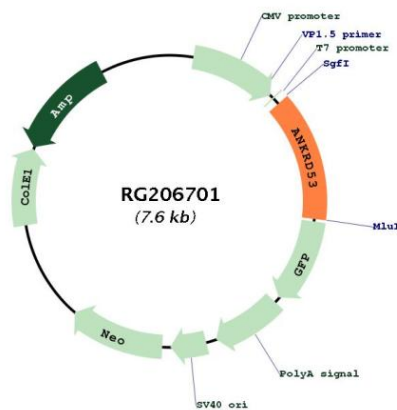
**Locus ID:** 79998

**UniProt ID:** [Q8N9V6](#)

**Cytogenetics:** 2p13.3

**Gene Summary:** Required for normal progression through mitosis. Involved in chromosome alignment and cytokinesis via regulation of microtubules polymerization.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG206701