

## Product datasheet for **RG205609**

### **ANKRD1 (NM\_014391) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ANKRD1 (NM_014391) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANKRD1
Synonyms:	ALRP; bA320F15.2; C-193; CARP; CVARP; MCARP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205609 representing NM_014391 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGGTACTGAAAGTAGAGGAAGTGGTCACTGGAAAGAAGAATGGCAATGGGGAGGCAGGGGAATTCC  
TTCCTGAGGATTCAGAGATGGAGAGTATGAAGCTGCTGTTACTTTAGAGAAGCAGGAGGATCTGAAGAC  
ACTTCTAGCCACCCCTGTGACCCGGGGGAGCAACAGTGGAAAAGCGAGAAACAACGAGAGGCAGAGCTC  
AAAAAGAAAAAACTAGAACAAAGATCAAAGCTTAAAAATTTAGAAGACCTTGAAATAATCATTCAACTGA  
AGAAAAGGAAAAATACAGGAAAATAAGTTCCAGTTGTAAGGAACCGAACCCTGAAATCATTACGGA  
ACCTGTGGATGTGCCTAGTTTTCTGAAGCTGCTCTGGAGAATAAACTGCCAGTAGTAGAAAAATCTTG  
TCAGACAAGAACAATCCAGATGTTTGTGATGAGTATAACGGACAGCTCTTCATAGAGCATGCTTGGAAAG  
GACATTTGGCAATTGTGGAGAAGTTAATGGAAGCTGGAGCCAGATCGAATTCCTGATATGCTTGAATC  
CACAGCCATCCACTGGGCAAGCCGTGGAGGAAACCTGGATGTTTTAAAAATGTTGCTGAATAAAGGAGCA  
AAAATTAGCGCCCGAGATAAGTTGCTCAGCACAGCGCTGCATGTGGCGGTGAGGACTGGCCACTATGAGT  
GCGCGGAGCATCTTATCGCCTGTGAGGCAGACCTCAACGCCAAAGACAGAGAAGGAGATACCCCGTTGCA  
TGATGCGGTGAGACTGAACCGCTATAAGATGATCCGACTCCTGATTATGTATGGCGGGATCTCAACATC  
AAGAACTGTGCTGGGAAGACGCCGATGGATCTGGTGTACTGACCTGGCAGAATGGAACCAAAGCAATATTCG  
ACAGCCTCAGAGAGAAGCTCTACAAGACCTCTCGCATAGCTACATTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205609 representing NM\_014391  
Red=Cloning site Green=Tags(s)

MMVLKVEELVTGKKNGNGEAGEFLPEDFRDGEYEA AVTLEKQEDLKTLLAHPVTLGEQQWKSEKQREAE  
 KKKKLEQRSKLENLEDEIIIIQLKRRKKYRKT KVPVVKPEPEIITEPVDVPTFLKAALENKLPVVEKFL  
 SDKNNPDVCD EYKRTALHRACLEGLAI VEKLEMEAGAQIEFRDMLESTAIHWASRGGNLDV LKLLLNKGA  
 KISARDKLLSTALHVAVRTGHYECAEHLIACEADLNAKDREGDTP LHDVRLNRYKMIRLLIMYGADLNI  
 KNCAGKTPMDLVLHWQNGTKAIFDSLRENSYKTSRIATF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014391

**ORF Size:** 957 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\\_014391.3](#)

**RefSeq Size:** 1994 bp

**RefSeq ORF:** 960 bp

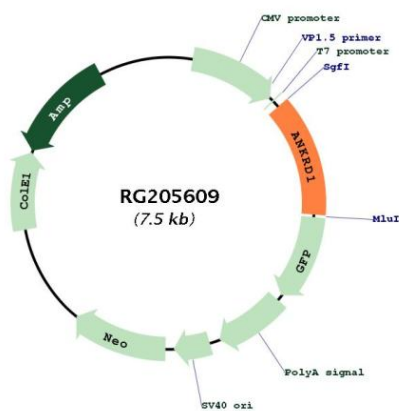
**Locus ID:** 27063

**UniProt ID:** [Q15327](#)

**Cytogenetics:** 10q23.31

**Gene Summary:** The protein encoded by this gene is localized to the nucleus of endothelial cells and is induced by IL-1 and TNF-alpha stimulation. Studies in rat cardiomyocytes suggest that this gene functions as a transcription factor. Interactions between this protein and the sarcomeric proteins myopalladin and titin suggest that it may also be involved in the myofibrillar stretch-sensor system. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG205609