

## Product datasheet for **RG210358**

### ART4 (NM\_021071) Human Tagged ORF Clone

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | ART4 (NM_021071) Human Tagged ORF Clone                                     |
| Tag:                      | TurboGFP                                                                    |
| Symbol:                   | ART4                                                                        |
| Synonyms:                 | ARTC4; CD297; DO; DO/ART4; DOK1                                             |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >RG210358 representing NM_021071<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGGGTCCATTGATCAACAGATGCAAGAAGATTCTTCTCCCACTACTGTACCTCCTGCAACGATGAGAA  
TCTGGCTCCTTGGAGGCCTGCTGCCATTCTGCTGCTCCTCTCTGGCTGCAGAGACCCACAGAGGGTTC  
TGAGGTTGCAATTAATCGACTTCGACTTCGACCAGGTTCTTTGATGATCAGTACCAAGGCTGTAGC  
AAACAGGTTATGGAGAACTAACTCAAGGGGATTATTTACAAAAGACATAGAAGCCAGAAGAATTATT  
TTAGGATGTGGAAAAAGCCCACTTAGCCTGGCTTAACCAAGGAAAAGTTCTACCCAGAACATGACTAC  
CACACACGCTGTGGCTATTTTGTGTTACACATTGAACAGCAATGTTCACTTCTGACTTTACTAGAGCCATG  
GCCTCTGTTGCCAGGACTCCACAGCAGTATGAACGTTCACTTCAAATATTTACACTACTACCTCA  
CCTCAGCAATCCAGCTGCTGAGGAAAGACAGCATCATGGAGAATGGCACTCTGTGCTATGAGGTGCATTA  
TAGGACGAAGGATGTCCACTTAAATGCCTACACAGGGGCCACCATTCGATTTGGCCAATTCCTTTCCACA  
TCCCTCCTGAAAGAAGAGGCACAGGAGTTTGGGAACAGACATTTACCATATTCACCTGCCTGGGTG  
CACCTGTACAGTACTTCTCCCTCAAGAAGGAAGCTTGATCCCTCCCTATGAGCTGTTTAAAGTTATAAA  
TATGAGCTACCACCAAGAGGAACTGGTTGCAGTTGAGGTCAACTGGGAACCTGAGCACATATACTGT  
CAGCTGCTAAAAGCTTCCAGCAAGAAATGCATCCCTGATCCTATAGCTATTGCATCTCTCTCTTTTGA  
CCAGTGTCATCATCTTTTCCAAAAGCAGAGTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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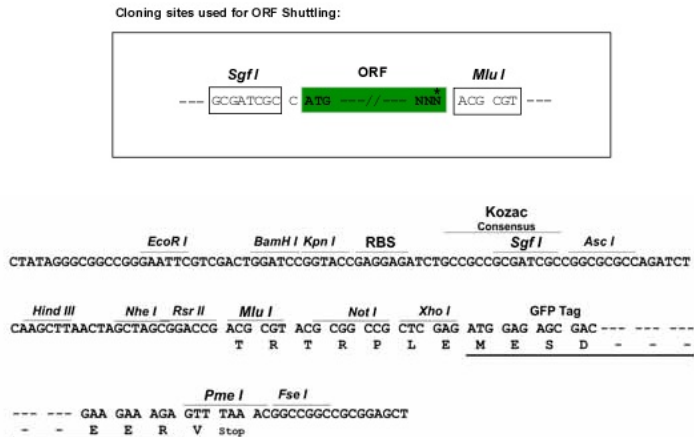
**Protein Sequence:** >RG210358 representing NM\_021071  
Red=Cloning site Green=Tags(s)

MGPLINRCKILLPTTVPPATMRIWLLGGLLPFLLLLSGLQRPTEGSEVAIKIDFDFAPGSFDDQYQGCS  
 KQVMEKLTQGDYFTKDIEAQKNYFRMWQKAHLAWLNQGVLPQNMTHAVAILFYTLNSNVHSDFTFRAM  
 ASVARTPQQYERSFHFYLYLTSAILQLLRKDSIMENGTLCYEVHYRTKDVHFNAYTGATIRFGQFLST  
 SLLKEEAQEFGNQTLFTIFTCLGAPVQYFSLKKEVLIPPYELFKVINMSYHPRGNWLQLRSTGNLSTYNC  
 QLLKASSKKCIPDPIAIASLSFLTSTVIIFSRSRV

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_021071

**ORF Size:** 942 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\\_021071.1](#)

**RefSeq Size:** 1386 bp

**RefSeq ORF:** 945 bp

**Locus ID:** 420

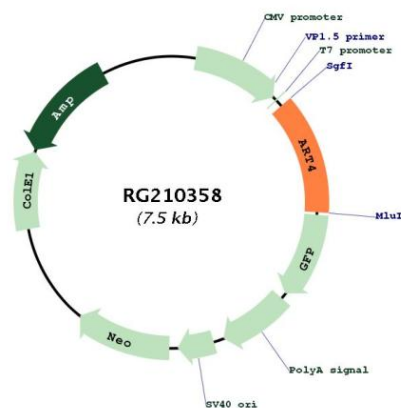
**UniProt ID:** [Q93070](#)

**Cytogenetics:** 12p12.3

**Domains:** ART

**Gene Summary:** This gene encodes a protein that contains a mono-ADP-ribosylation (ART) motif. It is a member of the ADP-ribosyltransferase gene family but enzymatic activity has not been demonstrated experimentally. Antigens of the Dombrock blood group system are located on the gene product, which is glycosylphosphatidylinositol-anchored to the erythrocyte membrane. Allelic variants, some of which lead to adverse transfusion reactions, are known. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG210358