

## Product datasheet for **RG213771**

### **ARX (NM\_139058) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ARX (NM_139058) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARX
Synonyms:	CT121; EIEE1; ISSX; MRX29; MRX32; MRX33; MRX36; MRX38; MRX43; MRX54; MRX76; MRX87; MRXS1; PRTS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG213771 representing NM\_139058  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCAATCAGTACCAGGAGGAGGCTGCTCCGAGAGGCCCGAGTGCAAAAGTAAATCTCCAATTGCT  
 TCTCCTCTACTGCATCGACAGCATCCTGGGCCGAGGAGCCCGTGCAAAATGCGTTGCTGGGAGCCGC  
 GCAGAGCTTGCTGCTCCGCTGACCAGCCGCGCCGACCCGAAAAAGGCCGTGCAAGGCTCCCTAAGAGC  
 AGCAGCGCCCGTTTCAGGCGGAGCTGCACCTGCCGCCAAGCTGCGGCGCCTGTACGGCCCGGGCGGG  
 GCCGCCTCCTCAGGGTGCAGCAGC  
 CACGGCGGGTCCACGCGGGGAGGCCCTCCGCCACCACCACCGCGCGCGCGCGCGCGCGCGCGCGCGC  
 GCGCAGGGGCCCGCGCGCAGCCGC  
 CGCGCAGGTGAGCATCAGCCGAGCAAGTCGTACCGCGAGAACGGGGCGCCCTTCGTGCCGCCCGCGC  
 CGCGCTGGACGAGCTGGCGGCCCGGGGGCGTACGCACCCGGAGGAGCGCCTCGCGTGGCCGGCGGC  
 CCGGGCAGCGCCCGGCTGCGGGTGGTGGCACCCGACCGAGGACGACGAGGAGGAGCTGCTGGAGGACG  
 AAGAAGATGAGGACGAGGAAGAGGAAGTCTGGAGGACGACGAGGAGGAGCTGCTGGAGGACGACGCCCG  
 CGCGTGTCTAAGGAGCCCGCGCTGTCTGTGGCCGCACTGGCGCCGTGGCCGACGAGCTGCCGCT  
 GCAGTGGCCACAGAGGGCGGGGAGCTGTACCCAAGGAGGAGCTGCTGCTGCACCCGGAAGACGCTGAGG  
 GCAAGGACGGCGAGGACAGCGTGTGCCTCTCTGCGGCAGCGACTCGGAGGAGGGGCTGTGAAACGCAA  
 ACAGAGGGCGTACCGCACCGTTCACCAGCTACCAGCTGGAGGAAGTGGAGCGGGCCTTCAGAAGACG  
 CACTACCCGAGCTTTCACCAGGAGGAAGTGGCCATGAGGCTGACTTGACCGAGGCCGAGTCCAGG  
 TCTGGTCCAGAACCCTCGGGCAAGTGGCGCAAGCGGGAAGGCAGGCGCGCAGACCCACCCCTCGG  
 GCTGCCCTTCCCGGGCGCTCTCCGCCACCCACCGCTCAGCCCTACCTGGACGCCAGCCCTTCCCT  
 CCGCACCCCGCGCTCGACTCCGCTTGGACTGCCGCTGCCGCCGCGCGCGCGCGCGCGCTTCCGAGCC  
 TACCTCCGCTCCGGGCTCGGCCAGCCTGCCGCCAGCGGGCGCGCTGGGCTGAGCACTTCTCTCGG  
 AGCGGCAGTGTTCGACACCCAGCTTTCATCAGCCCGCATTGCGCAGGCTCTTTTCCACAATGGCCCC  
 CTGACCAGCGCTCGACCGCGCGCGCTCCTGAGACAGCCACACCCCGCTGGAGGGCGCAGTGGCAT  
 CGGGCGCCCTGGCCGACCCGCCACGGCGCGCGCAGACAGACGCGCCTTAGCATAGCCGCGCTGAGGCT  
 CAAGGCCAAGGACACGCGCGCAGCTCACGCAGCTCAACATCTGCCGGCACACGACGGGAAGGAG  
 GTGTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG213771 representing NM\_139058  
 Red=Cloning site Green=Tags(s)

MSNQYQEEGCSERPECKSKSPTLLSSYCIDSLGRRSPCKMRLLGAAQSLPAPLTSRADPEKAVQGSPKS  
 SSAPFEAELHLPKLRRLYGPGGRLQAAAAAAAAAAAAAAAAATAGPRGEAPPPPPPTARPERPD  
 GAGAAAAAAAAAAWDLKISQAPQVSI SRSKSYRENGAPFVPPPPALDELGGPGGVTHPEERLGVAGG  
 PGSAPAAGGGTGTEDDEEELLEDEDEDEEELLEDEDEELLEDDARALLKEPRRCVPAATGAVAAAAA  
 AVATEGGELSPKEELLHPEDAEGKDGEDSVCL SAGSDSEGLLKRKQRRYRTTFTSYQLEELERAFQKT  
 HYPDVFTREELAMRLDLTEARVQVWFQNRRAKWRKREKAGAQTHPPGLFPFPGPLSATHPLSPYLDASFPF  
 PPHPALDSAWTAAAAAAAAAFSLPPPPGSASLPPSGAPLGLSTFLGAAVFRHPAFISPAFGRLFTMAP  
 LTSASTAAALLRQPTPAVEGAVASGALADPATAAADRRASSIAALRLKAKEHAAQLTQLNILPGTSTGKE  
 VC

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_139058

**ORF Size:** 1686 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_139058.3](#)

RefSeq Size: 2183 bp

RefSeq ORF: 1689 bp

Locus ID: 170302

UniProt ID: [Q96QS3](#)

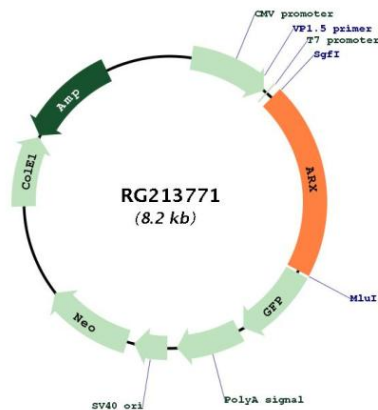
Cytogenetics: Xp21.3

Domains: homeobox, OAR

Protein Families: Transcription Factors

**Gene Summary:** This gene is a homeobox-containing gene expressed during development. The expressed protein contains two conserved domains, a C-peptide (or aristaless domain) and the prd-like class homeobox domain. It is a member of the group-II aristaless-related protein family whose members are expressed primarily in the central and/or peripheral nervous system. This gene is thought to be involved in CNS development. Expansion of a polyalanine tract and other mutations in this gene cause X-linked cognitive disability and epilepsy. [provided by RefSeq, Jul 2016]

### Product images:



Circular map for RG213771