

Product datasheet for **MR208926**

Arx (NM_007492) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arx (NM_007492) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arx
Synonyms:	Ar; Arx1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208926 representing NM_007492
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCAATCAGTACCAGGAAGAGGGCTGCTCTGAGAGGCCGAGTGCAAGAGTAAATCTCCAATTGCT
 TCTCCTCTACTGCATCGACAGCATCCTGGGCCGAGAAGCCCATGCAAAATGAGGCTTCTGGGAGCCGC
 GCAGAGCTTGCCTGCCCGCTGGCCAGCCGCGCTGACCAGGAAAAAGCCATGCAAGGCTCCCCAAGAGC
 AGCAGCGCCCCGTTTCGAGGCTGAGCTGCACCTGCCACCCAAGCTGCGGCGCCTCTACGGCCCGGGCGGG
 GCCGCTCCTCCAGGGCGCGGGCGGGCTGCAGCGCGGGCGGGCCGAGCGGGCCACGGCCAC
 TGGCACCCGAGTCCCCGTGGAGAGTTCTCCACCGCCACCACAGCTGCACGGCCAGGGGAGCGTCAG
 GACAGCGCAGGGCCGTGGTCCCGCCGCTGCCCGCTGCTGGGACACGCTCAAGATCAGCCAGGCGC
 CGCAGGTGAGCATCAGTCGTAGCAAGTCGTACCGGAGAACGGGGCGCCCTTCGTCCCCCGCCGACG
 CCTGGACGAGCTGAGTGGCCCGGGGGCGTCCGCGACCCGAGGAGCGCCTCAGCGGGCCAGCGGACCC
 GGCAGTGGCCCCGCGCGGGTGGTGGCACGGGGCGCCGAGGACGACGAGGAGGAGCTGTTGGAGGATGAGG
 AAGATGAAGAGGAGGAAGAGGAGCTGCTGGAGGACGACGACGAGGAGCTGCTGGAGGACGATGCCCGCGC
 GCTGCTCAAGGAGCCCCGGCGCTGCTCGGTGGCCACCACCGGCACAGTGGCCGCCCGCCCGCGCTGCT
 GCCGCCCGTGGCCACCAGGGCGGGGAGCTGTGCGCCAAGGAAGAGCTGTTGCTGCACCCGGAGGACG
 CCGAGGGCAAGGATGGTGAAGACAGCGTGTGCCTGTGCGCCGGCAGCGACTCGGAGGAGGGGCTGCTGAA
 GCGCAAACAGAGGCGCTACCGCACACGTTTACCAGTTACCAGCTGGAGGAACTGGAGCGGGCTTTCCAG
 AAGACGCACTACCTGACGTCTTACCAGGAGGAGCTGGCCATGAGGCTGGACCTGACAGAGCCCGGAG
 TCCAGTGTGGTTCAGAACCCTGCGGCAAGTGGCGAAAGCGGGAAGGCTGGCGCACAGACCCACCC
 CCGGGGCTGCCCTTCCAGGGCCGCTCTCGGCTACCCACCCTCTCAGCCCTACCTGGACGCCAGCCCC
 TTTCCCCGCATCACCTGCGCTTGATTGCGCCTGGACCGCCGCGGGCGGGCGGCTGCAGCTGCCTTCC
 CGAGCCTACCTCCGCCCCAGGCTCTGCTAGCCTGCCACCAGCGGGGCGCCGCTGGGTCTGAGCACTTT
 TCTAGGAGCAGCGGTGTTCCGCCACCCAGCCTTATCAGCCAGCATTGGCAGGCTCTTTTCCACTATG
 GCCCCCTGACCAGCGCTGACTGCGGCTGCGCTCCTGAGACAGCCACACCCGCGGTGGAGGGCGCAG
 TGGCTCGGGCGCTGGCCGACCCGGCCACCGCGGGCAGACAGCGCGCTCAAGCATAGCCGCGCT
 GAGGCTCAAGGCTAAGGAGCACGCCGCGCAGCTCACGAGCTCAACATCTCGCCGGCACCAGCACGGGG
 AAGGAGGTGTGC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208926 representing NM_007492
 Red=Cloning site Green=Tags(s)

MSNQYQEEGCSERPECKSKSPTLLSSYCIDSIDLGRSPCKMRLLGAAQSLPAPLASRADQEKAMQGS
 SSAPFEAELHLPKLRRLYGPGGRLQGAATAAAAAAAAAAATATGTAGPRGEVPPPPPAARPERQ
 DSAGAVAAAAAAWDTLKSQAPQVSISSRSYRENGAPFVPPPPALDELSPGGVAHPEERLSAASGP
 GSAPAAGGGTGAEDDEEELLEDEDEEEEEELLEDDDEELLEDDARALLKEPRRCSVATTGTAAAAA
 AAAVATEGGELSPKEELLLHPEDAEGKDGEDSVCLSAGSDSEGLLKRKQRRYRTFTSYQLEELERAFQ
 KTHYPDFVTREELAMRLDLTEARVQVWFQNRRAKWRKREKAGAQTHTPPGLPFPGLSATHPLSPYLDASP
 FPPHPALDSAWTAAAAAAAFPSLPPPPGSASLPPSGAPLGLSTFLGAAVFRHPAFISPAFGRLFSTM
 APLTSASTAAALLRQPTPAVEGAVASGALADPATAAADRRASSIAALRLKAKEHAAQLTQLNILPGTSTG
 KEVC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_007492

ORF Size: 1692 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 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.

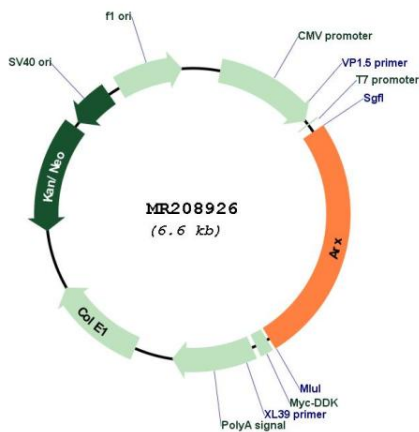
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_007492.4, NP_031518.2](#)
RefSeq Size: 2759 bp
RefSeq ORF: 1695 bp
Locus ID: 11878
UniProt ID: [O35085](#)
Cytogenetics: X 41.05 cM
MW: 58.9 kDa

Gene Summary: This gene encodes a transcription factor that plays an important role in the development of forebrain. Male mice lacking this gene have smaller brains, olfactory bulbs and testes, and die within half a day after birth. Mice lacking this gene specifically in ganglionic eminence-derived neurons, including cortical interneurons, develop seizures. Mutations in this gene have been demonstrated to cause mouse phenotypes resembling human X-linked lissencephaly and cognitive disability with epilepsy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MR208926