

Product datasheet for **MC219051**

Arx (NM_007492) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC219051 representing NM_007492
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCAATCAGTACCAGGAAGAGGGCTGCTCTGAGAGGCCGGAGTGCAAGAGTAAATCTCCAATTGCT
TCTCCTCTACTGCATCGACAGCATCCTGGGCCGAGAAGCCCATGCAAAATGAGGCTTCTGGGAGCCGC
GCAGAGCTTGCCTGCCCGCTGGCCAGCCGCGCTGACCAGGAAAAAGCCATGCAAGGCTCCCCAAGAGC
AGCAGCGCCCCGTTTCGAGGCTGAGCTGCACCTGCCACCCAAGCTGCGGCGCCTCTACGGCCCGGGCGGG
GCCGCTCCTCCAGGGCGCGGGCGGGCGGCTGCAGCGGGCGGGCGGCCGAGCGGGCCACGGCCAC
TGGCACCCGAGTCCCCGTGGAGAGTTCTCCACCGCCACCACAGCTGCACGGCCAGGGGAGCGTCAG
GACAGCGCAGGGGCCGTGGTCCCGCCGCTGCCCGCTGCCGCGCTGCTGGGACACGCTCAAGATCAGCCAGGCGC
CGCAGGTGAGCATCAGTCGTAGCAAGTCGTACCGGAGAACGGGGCGCCCTTCGTCCCCCGCCGCGCAGC
CCTGGACGAGCTGAGTGGCCCGGGGGCGTCCGCGACCCGAGGAGCGCCTCAGCGGGCCAGCGGACCC
GGCAGTGGCCCCGCGCGGGTGGTGGCACGGGGCGCCGAGGACGACGAGGAGGAGCTGTTGGAGGATGAGG
AAGATGAAGAGGAGGAAGAGGAGCTGCTGGAGGACGACGACGAGGAGCTGCTGGAGGACGATGCCCGCGC
GCTGCTCAAGGAGCCCCGGCGCTGCTCGGTGGCCACCACCGGCACAGTGGCCGCCCGCCGCGCGCTGCT
GCCGCGCGGTGGCCACCGAGGGCGGGGAGCTGTCCGCAAGGAAGAGCTGTTGCTGCACCCGGAGGACG
CCGAGGGCAAGGATGGTGGAGACAGCGTGTGCCTGTGGCCGGCAGCGACTCGGAGGAGGGGCTGCTGAA
GCGCAAACAGAGGCGCTACCGCACACGTTTACCAGTTACCAGCTGGAGGAACTGGAGCGGGCTTTCCAG
AAGACGCACTACCCTGACGTCTTACCAGGAGGAGCTGGCCATGAGGCTGGACCTGACAGAGGCCCGAG
TCCAGGTGTGGTCCAGAACCGTCGGGCCAAGTGGCGCAAGCGGGAGAAGGCTGGCGCACAGACCCACCC
CCCGGGGCTGCCCTTCCAGGGCCGCTCTCGGCTACCCACCCTCTCAGCCCTACCTGGACGCCAGCCCC
TTTCCCCGCATCACCTGCGCTTGATTGCGCCTGGACCGCCGCGGGCGGGCGGCTGCAGCTGCCTTCC
CGAGCCTACCTCCGCCCCAGGCTCTGCTAGCCTGCCACCAGCGGGGCGCGCTGGGTCTGAGCACTTT
TCTAGGAGCAGCGGTGTTCCGCCACCCAGCCTTATCAGCCAGCATTTGGCAGGCTCTTTTCCACTATG
GCCCCCTGACCAGCGCTGACTGCGGCTGCGCTCCTGAGACAGCCACACCCGCGGTGGAGGGCGCAG
TGGCCTCGGGCGCGCTGGCCGACCCGGCCACCGCCGCGGACAGACAGCGCGCTAAGCATAGCCGCGCT
GAGGCTCAAGGCTAAGGAGCACGCCGCGCAGCTCACGAGCTCAACATCCTGCCGGGACCAGCACGGGG
AAGGAGGTGTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_007492
Insert Size: 1695 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](#)

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: 2898 bp

RefSeq ORF: 1695 bp

Locus ID: 11878

UniProt ID: [O35085](#)

Cytogenetics: X 41.05 cM

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]
 Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.