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Arx knockout mice - Mouse Strain RES225**Mouse Information**

Common Name:	Arx knockout mice
MGI Official Name:	Arx ^{tm1Pgr}
Description:	These mice were created by insertion of the LacZ gene (with nuclear localization signal) into the Arx locus by homologous recombination in embryonic stem cells. The Arx gene is localized on the X chromosome. Knockout mice die after birth with due to hypoglycemia. Therefore male mice die at day 2 past birth. The colony has to be propagated with female mice. Arx-deficient mice do not produce alpha cells in the islets of Langerhans.
Categories:	LacZ

Genetic Alterations

1) Targeted Mutagenesis					
Type of Allele	Gene Replacement				
Targeted Gene	Arx (Arx - NCBI GeneID:11878)				
Targeted Allele	targeted mutation 1 (Arx ^{tm1Pgr} - MGI:2679972)				
Description of Targeting Vector	The first two exons were replaced by a cassette consisting of NLSLacZ and PGKneo (flanked by LoxP sites. Total homology length is 10.5 kb				
Targeting Vector Genbank File	<i>Not provided</i>				
Citations	<table border="1"> <thead> <tr> <th>PubMedID</th> <th>Citation</th> </tr> </thead> <tbody> <tr> <td>14561778</td> <td>Opposing actions of Arx and Pax4 in endocrine pancreas development. (2003) <i>Genes Dev</i> 17: 2591-603 (Added 2005-06-21 07:27:21)</td> </tr> </tbody> </table>	PubMedID	Citation	14561778	Opposing actions of Arx and Pax4 in endocrine pancreas development. (2003) <i>Genes Dev</i> 17: 2591-603 (Added 2005-06-21 07:27:21)
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14561778	Opposing actions of Arx and Pax4 in endocrine pancreas development. (2003) <i>Genes Dev</i> 17: 2591-603 (Added 2005-06-21 07:27:21)				


Strain Information

Strain Type:	Congenic Strain
Chimera/Founder Genetic Background:	129
Current Genetic Background:	129 Sv (date recorded: 03/27/2015)
Strain Description:	more than 10 generations backcross to 129 Sv

Associated Images

No associated images have been supplied


Repositories

MMRRC	<p> Request via www.mmrc.org website</p> <p>Stock #: <i>Not provided</i> Availability Notes: <i>Not provided</i></p>
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Contact Information

Preferred Contact	
Name	Ahmed Mansouri
Institution	Max-Planck Institute

Access Status

 This resource is publicly viewable.


Request this Resource

 Request from a repository

Primary contributor: [Ahmed Mansouri](#)

Resource Tags

Arx knockout mice, Arx^{tm1Pgr}, mouse, mouse strain

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Resource History & Actions

Approved on Feb 25, 2008
Last modified on Apr 14, 2015

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Other Consortia

No matching resources

Data courtesy of [dkCOIN](#). Only public resources are displayed.

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Associated Publications

No publications associated

Comments

There are no comments for this entry.



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