

Resource Summary Report

Generated by [nidm-terms](#) on Aug 9, 2026

SD-Ahr^{em1Soar}

RRID:RRRC_00831

Type: Organism

Proper Citation

RRID:RRRC_00831

Organism Information

URL: http://rgd.mcw.edu/tools/strains/strains_view.cgi?id=13702080

Proper Citation: RRID:RRRC_00831

Description: Rattus norvegicus with name SD-Ahr^{em1Soar} from RGD.

Species: Rattus norvegicus

Notes: CRISPR/Cas9 targeted deletion of the Ahr basic helix loop helix DNA binding domain of the rat Ahr was injected into the embryos of outbred HsdHot:SD. The gRNA was targeted to Exon 2 of the Ahr gene, which encodes the bHLH DNA binding domain (target sequence: CTTCTAAACGACACAGAGACCGG; corresponding to NM_001308254). The established Ahr null strain lacks responsiveness to Ahr ligands. [Rat Resource and Research Center](#)

Catalog Number: 00831

Background: mutant

Database: Rat Resource and Research Center (RRRC)

Database Abbreviation: RRRC

Availability: Cryopreserved Sperm; Cryorecovery (as of 2019-01-21)

Alternate IDs: RGD_13702080, 13702080, RRRC_831, RRRC_0831, RRRC_00831

Organism Name: SD-Ahr^{em1Soar}

Record Creation Time: 20230607T202007+0000

Record Last Update: 20260808T100722+0000

Ratings and Alerts

No rating or validation information has been found for SD-Ahr^{em1Soar} .

No alerts have been found for SD-Ahr^{em1Soar} .

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Resource and Research Center (RRRC)

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at [nidm-terms](#) .

Eti NA, et al. (2022) PCB126 induced toxic actions on liver energy metabolism is mediated by AhR in rats. Toxicology, 466, 153054.

Klenov V, et al. (2021) The Aryl hydrocarbon receptor mediates reproductive toxicity of polychlorinated biphenyl congener 126 in rats. Toxicology and applied pharmacology, 426, 115639.

Chenouard V, et al. (2021) Advances in Genome Editing and Application to the Generation of Genetically Modified Rat Models. Frontiers in genetics, 12, 615491.

Iqbal K, et al. (2021) Evaluation of Placentation and the Role of the Aryl Hydrocarbon Receptor Pathway in a Rat Model of Dioxin Exposure. Environmental health perspectives, 129(11), 117001.

Williams AE, et al. (2020) Skeletal Toxicity of Coplanar Polychlorinated Biphenyl Congener 126 in the Rat Is Aryl Hydrocarbon Receptor Dependent. Toxicological sciences : an official journal of the Society of Toxicology, 175(1), 113.