

Resource Summary Report

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Animal QTLdb

RRID:SCR_001748

Type: Tool

Proper Citation

Animal QTLdb (RRID:SCR_001748)

Resource Information

URL: <http://www.animalgenome.org/cgi-bin/QTLdb/index>

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Description: Database of trait mapping data, i.e. QTL (phenotype / expression, eQTL), candidate gene and association data (GWAS) and copy number variations (CNV) mapped to livestock animal genomes, to facilitate locating and comparing discoveries within and between species. New data and database tools are continually developed to align various trait mapping data to map-based genome features, such as annotated genes. QTLdb is open to house QTL/association data from other animal species where feasible. Most scientific journals require that any original QTL/association data be deposited into public databases before paper may be accepted for publication. User curator accounts are provided for direct data deposit. Users can download QTLdb data from each species or individual chromosome.

Abbreviations: Animal QTLdb

Synonyms: Animal QTL database, Animal Quantitative Trait Loci database, AnimalQTLdb, Animal Quantitative Trait Loci (QTL) database

Resource Type: data or information resource, data repository, database, service resource, storage service resource

Defining Citation: [PMID:23180796](#), [PMID:17245610](#)

Keywords: chromosome, comparative genomics, dna sequence, genome, livestock, quantitative trait locus, non-human animal, structural genomics, single-nucleotide polymorphism, gene association, genomics, trait, copy number variation, trait, phenotype, expression, eqtl, genome wide association study, candidate gene, genotype

Funding: USDA 2007-04187;
USDA NRSP-8

Availability: Free, Freely available

Resource Name: Animal QTLdb

Resource ID: SCR_001748

Alternate IDs: nif-0000-02550, r3d100010744

Alternate URLs: <http://www.animalgenome.org/QTLdb/>

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260912T195530+0000

Ratings and Alerts

No rating or validation information has been found for Animal QTLdb.

No alerts have been found for Animal QTLdb.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 56 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Li M, et al. (2026) Genome-wide association study reveals candidate genes for body size and reproductive traits in Hu sheep. *Animal bioscience*, 39(5), 250716.

Issaka Salia O, et al. (2026) Identifying the Genetic Basis of Fetal Loss in Cows and Heifers Through a Genome-Wide Association Analysis. *Animals : an open access journal from MDPI*, 16(2).

Wang Y, et al. (2025) Meta-analysis of muscle transcriptome data identifies key genes influencing intramuscular fat content in pigs. *Animal bioscience*, 38(8), 1622.

Xiang X, et al. (2025) Whole genome sequencing and structural variations provide insights into the body size traits of Hu sheep. *Scientific data*, 12(1), 1373.

Xing Y, et al. (2024) The role of RNA epigenetic modification-related genes in the immune response of cattle to mastitis induced by *Staphylococcus aureus*. *Animal bioscience*, 37(7), 1141.

Beiki H, et al. (2024) Enhanced bovine genome annotation through integration of transcriptomics and epi-transcriptomics datasets facilitates genomic biology. *GigaScience*, 13.

Bieniek-Kobuszevska M, et al. (2024) Polymorphism Identification in the Coding Sequences (ORFs) of the Porcine Pregnancy-Associated Glycoprotein 2-like Gene Subfamily in Pigs. *Genes*, 15(9).

Argyriadou A, et al. (2023) A genome-wide association study reveals novel SNP markers associated with resilience traits in two Mediterranean dairy sheep breeds. *Frontiers in genetics*, 14, 1294573.

Liu J, et al. (2023) Genome-Wide Association Analysis of Reproductive Traits in Chinese Holstein Cattle. *Genes*, 15(1).

Wang H, et al. (2023) Genome-wide association study reveals genetic loci and candidate genes for meat quality traits in a four-way crossbred pig population. *Frontiers in genetics*, 14, 1001352.

Zhang M, et al. (2023) Managing genomic diversity in conservation programs of Chinese domestic chickens. *Genetics, selection, evolution : GSE*, 55(1), 92.

Wang H, et al. (2022) Genome-Wide Association Study of Growth Traits in a Four-Way Crossbred Pig Population. *Genes*, 13(11).

Wang H, et al. (2022) Genome-wide association study identifying genetic variants associated with carcass backfat thickness, lean percentage and fat percentage in a four-way crossbred pig population using SLAF-seq technology. *BMC genomics*, 23(1), 594.

Qiao R, et al. (2022) Population genetic structure analysis and identification of backfat thickness loci of Chinese synthetic Yunan pigs. *Frontiers in genetics*, 13, 1039838.

Cao X, et al. (2021) Comparative Enhancer Map of Cattle Muscle Genome Annotated by ATAC-Seq. *Frontiers in veterinary science*, 8, 782409.

Kou M, et al. (2020) Expression pattern and association analysis of porcine matrix metalloproteinase 9 (MMP9) with diarrhea and performance traits in piglets. *Research in veterinary science*, 129, 53.

Purfield DC, et al. (2020) Breed- and trait-specific associations define the genetic architecture of calving performance traits in cattle. *Journal of animal science*, 98(5).

Zinovieva NA, et al. (2020) Selection signatures in two oldest Russian native cattle breeds revealed using high-density single nucleotide polymorphism analysis. *PloS one*, 15(11), e0242200.

Czech B, et al. (2020) Patterns of DNA variation between the autosomes, the X chromosome and the Y chromosome in *Bos taurus* genome. *Scientific reports*, 10(1), 13641.

Han B, et al. (2019) Identification of single nucleotide polymorphisms of PIK3R1 and DUSP1 genes and their genetic associations with milk production traits in dairy cows. *Journal of animal science and biotechnology*, 10, 81.