

Resource Summary Report

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Bovine Gene Atlas

RRID:SCR_010580

Type: Tool

Proper Citation

Bovine Gene Atlas (RRID:SCR_010580)

Resource Information

URL: <http://bovineatlas.msstate.edu/>

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Description: A compendium of over 7.2 million unique 20 base transcript tags profiled from 81 tissues acquired from the cow L1 Dominette 01449 , her male fetus, her 255 day old heifer calf, and her father. The BGA tags were generated on Illumina's GA1 sequencing platform. L1D's genome (build: 3.1) was sequenced at the Baylor College of Medicine and Genome Canada sequenced EST and full-length transcripts from the same tissues used for the BGA. Tissues were chosen as a source of total RNA to minimize sequence differences between cDNA tags and genomic or expressed sequence and increase the probability of unequivocally mapping tags to build 3.1. The BGA is comprised of cardiovascular, digestive, endocrine, lymphatic, muscular, nervous system, reproductive and urinary tissues sampled from animals in the fetal, juvenile, and adult stages of development. This cover is a portal to view the tags positioned on the 3.1 build using GBrowse, and a new database schema for positional and functional queries.

Abbreviations: BGA

Synonyms: Bovine Gene Atlas: An Extensive Compendium of Bovine Transcript Profiles

Resource Type: atlas, expression atlas, data or information resource

Defining Citation: [PMID:20961407](#)

Keywords: gene expression, neuroanatomy

Funding: USDA Cooperative State Research NRI-Animal genome reagent and tool development 2006-35616-16648;
USDA Agricultural Research Service project 1265-31000-098 D;

USDA Agricultural Research Service project 5438-31000-073 D

Resource Name: Bovine Gene Atlas

Resource ID: SCR_010580

Alternate IDs: nlx_43343

Record Creation Time: 20220129T080259+0000

Record Last Update: 20250524T060411+0000

Ratings and Alerts

No rating or validation information has been found for Bovine Gene Atlas.

No alerts have been found for Bovine Gene Atlas.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Glick G, et al. (2011) Fine Mapping of a QTL for Fertility on BTA7 and Its Association With a CNV in the Israeli Holsteins. G3 (Bethesda, Md.), 1(1), 65.

Harhay GP, et al. (2010) An atlas of bovine gene expression reveals novel distinctive tissue characteristics and evidence for improving genome annotation. Genome biology, 11(10), R102.