

Resource Summary Report

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TIGR Maize database

RRID:SCR_005431

Type: Tool

Proper Citation

TIGR Maize database (RRID:SCR_005431)

Resource Information

URL: <http://maize.tigr.org>

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Description: A database of maize genomic sequences, searchable by BLAST, by repeat sequences, and sequence name, gene name, locus, or other landmark. TIGR is a member of the Consortium for Maize Genomics. The Consortium received a funding award from the National Science Foundation in September 2002, to evaluate two gene-enrichment techniques, methylation filtration and high Cot selection, to sequence the maize 'genespace'. Draft assemblies of 287 maize BAC clones selected by the maize community and the Consortium were also produced in the Consortium project. We have recently developed an improved version of the TIGR annotation pipeline optimized for maize genomic assemblies. The latest maize genomic assemblies obtained by gene-enrichment (AZM5) and the 287 maize draft BAC assemblies have been annotated using the improved pipeline. Gene model annotation and functional annotation can be accessed via the TIGR maize BLAST server or the TIGR maize gbrowse display. The first version of the Maize Repeat Database contained 485 characterized maize repeat sequences from the TIGR Cereal Repeat Database. To these we added repetitive sequences downloaded from GenBank and a file of retrotransposon sequences compiled by Phillip SanMiguel (Purdue University). In addition we searched our maize genomic assemblies (AZMs) to identify new repeats. Any sequence within an AZM that showed at least 80% identity over a minimum stretch of 100 bp with an entry in the TIGR Cereal Repeat Database was coded accordingly and added to the Maize Repeat Database.

Synonyms: TIGR Maize database

Resource Type: data or information resource, database

Resource Name: TIGR Maize database

Resource ID: SCR_005431

Alternate IDs: nif-0000-03557

Record Creation Time: 20220129T080230+0000

Record Last Update: 20260801T190926+0000

Ratings and Alerts

No rating or validation information has been found for TIGR Maize database.

No alerts have been found for TIGR Maize database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Xing H, et al. (2011) Genome-wide identification and expression profiling of auxin response factor (ARF) gene family in maize. BMC genomics, 12, 178.

Fouquaert E, et al. (2009) Proteins with an Euonymus lectin-like domain are ubiquitous in Embryophyta. BMC plant biology, 9, 136.

Alandete-Saez M, et al. (2008) GEX3, expressed in the male gametophyte and in the egg cell of Arabidopsis thaliana, is essential for micropylar pollen tube guidance and plays a role during early embryogenesis. Molecular plant, 1(4), 586.

Peters K, et al. (2008) A structural investigation of complex I and I+III₂ supercomplex from Zea mays at 11-13 Å resolution: assignment of the carbonic anhydrase domain and evidence for structural heterogeneity within complex I. Biochimica et biophysica acta, 1777(1), 84.

Lin H, et al. (2006) Intron gain and loss in segmentally duplicated genes in rice. Genome biology, 7(5), R41.