

Resource Summary Report

Generated by [ASWG](#) on Aug 3, 2026

Scramble

RRID:SCR_012036

Type: Tool

Proper Citation

Scramble (RRID:SCR_012036)

Resource Information

URL: <http://sourceforge.net/projects/staden/>

Proper Citation: Scramble (RRID:SCR_012036)

Description: A C software implementation of SAM, BAM and CRAM file I/O.

Resource Type: software resource

Defining Citation: [PMID:24930138](#)

Keywords: standalone software, c, c++, fortran

Availability: BSD License

Resource Name: Scramble

Resource ID: SCR_012036

Alternate IDs: OMICS_04662

Record Creation Time: 20220129T080308+0000

Record Last Update: 20260801T190432+0000

Ratings and Alerts

No rating or validation information has been found for Scramble.

No alerts have been found for Scramble.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Lu X, et al. (2025) Iterative SCRaMbLE for engineering synthetic genome modules and chromosomes. *Nature communications*, 16(1), 7278.

Chang WJ, et al. (2024) Systemic interindividual DNA methylation variants in cattle share major hallmarks with those in humans. *Genome biology*, 25(1), 185.

Guo F, et al. (2024) Evolutionary engineering of *Saccharomyces cerevisiae*: Crafting a synthetic methylotroph via self-reprogramming. *Science advances*, 10(51), eadq3484.

Cheng L, et al. (2024) Large-scale genomic rearrangements boost SCRaMbLE in *Saccharomyces cerevisiae*. *Nature communications*, 15(1), 770.

, et al. (2024) New developments in biotechnology applied to microorganisms. *EFSA journal*. European Food Safety Authority, 22(7), e8895.

Ellis R, et al. (2023) A realist review of health passports for Autistic adults. *PloS one*, 18(9), e0279214.

Zhang Y, et al. (2023) The construction and optimization of engineered yeast chassis for efficient biosynthesis of 8-hydroxygeraniol. *mLife*, 2(4), 438.

Montero-Calle A, et al. (2023) In-depth quantitative proteomics analysis revealed C1GALT1 depletion in ECC-1 cells mimics an aggressive endometrial cancer phenotype observed in cancer patients with low C1GALT1 expression. *Cellular oncology (Dordrecht)*, 46(3), 697.

Zhang H, et al. (2022) Systematic dissection of key factors governing recombination outcomes by GCE-SCRaMbLE. *Nature communications*, 13(1), 5836.

Luo Z, et al. (2021) Compacting a synthetic yeast chromosome arm. *Genome biology*, 22(1), 5.

Zhang Y, et al. (2021) Systematical Engineering of Synthetic Yeast for Enhanced Production of Lycopene. *Bioengineering (Basel, Switzerland)*, 8(1).

Tang XX, et al. (2021) Origin, Regulation, and Fitness Effect of Chromosomal Rearrangements in the Yeast *Saccharomyces cerevisiae*. *International journal of molecular sciences*, 22(2).

Gowers GF, et al. (2020) Improved betulinic acid biosynthesis using synthetic yeast chromosome recombination and semi-automated rapid LC-MS screening. *Nature communications*, 11(1), 868.

Wightman ELI, et al. (2020) Rapid Colorimetric Detection of Genome Evolution in SCRaMbLEd Synthetic *Saccharomyces cerevisiae* Strains. *Microorganisms*, 8(12).

Torene RI, et al. (2020) Mobile element insertion detection in 89,874 clinical exomes. *Genetics in medicine : official journal of the American College of Medical Genetics*, 22(5), 974.

Xu H, et al. (2020) Chromosome drives via CRISPR-Cas9 in yeast. *Nature communications*, 11(1), 4344.

Ma L, et al. (2019) SCRaMbLE generates evolved yeasts with increased alkali tolerance. *Microbial cell factories*, 18(1), 52.

Wang J, et al. (2018) Ring synthetic chromosome V SCRaMbLE. *Nature communications*, 9(1), 3783.

Jia B, et al. (2018) Precise control of SCRaMbLE in synthetic haploid and diploid yeast. *Nature communications*, 9(1), 1933.

Blount BA, et al. (2018) Rapid host strain improvement by in vivo rearrangement of a synthetic yeast chromosome. *Nature communications*, 9(1), 1932.