

GENOMSYS MPEG-G SUITE

The MPEG-G toolkit for genomic data

A complete SDK and command-line suite for encoding, transcoding and streaming genomic data with the ISO/IEC 23092 (MPEG-G) standard.

WHAT IT IS

GenomSys MPEG-G Suite provides production-grade encoders and decoders that turn FASTQ, SAM/BAM and CRAM into compact, indexable MPEG-G bitstreams — and back — without information loss.

WHY IT MATTERS

MPEG-G files are typically 30–60% smaller than CRAM, carry rich built-in metadata, and support selective access so applications stream only the regions they need.

KEY CAPABILITIES

- ISO/IEC 23092 compliant encoder & decoder
- FASTQ / SAM / BAM / CRAM conversion
- Selective, region-based random access
- C++ SDK with Python & CLI bindings
- Built-in encryption & access units
- Docker images for CI/CD pipelines

Standard	ISO/IEC 23092 (MPEG-G)
Interfaces	CLI · C++ SDK · Python
Platforms	Linux x86-64 / ARM64
License	Commercial