DNA Processing Pipeline

Input Validation

(InputValidator)

JSON format • Keys • UUID • Files



Data Extraction

(DataExtractor)
Metadata (JSON) • DNA sequences (TXT)



Metadata Validation

(MetaDataValidator)
Age • Date formats • String lengths



Metadata Processing

(MetaDataProcessor)
Remove private keys • Sanitize



DNA Processing

(DNAProcessor)
GC content • Codons • LCS



Output Generation

(Loader)

Combine data • Add metadata • Save JSON