



Convert.alevin Documentation

Description: Read alevin output files and convert them to anndata (.h5ad) or loom (.loom) format for downstream analysis. Designed to convert Alevin Velocity quantification into a compatible format for scVelo.

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Summary: In order to use alevin quantifications from the alevin velocity pipeline with downstream tools like scVelo; the quantifications must be converted into anndata or loom format containing separate layers for the spliced and unspliced matrices. This module accepts alevin quantification directories (in tar.gz format) and produces scVelo compatible anndata or loom files.

Parameters:

Name	Description
Alevin Quants	Alevin output directories. Must be in .tar.gz format, and have unique names. The directory name will be used to annotate the cell barcode origins in the resulting output files.
Features	A two-column file containing the list of spliced gene ids in column 1 and the unspliced gene ids in column 2. (From PreprocessVelocityTranscriptome, or manually created). Optional. If not provided the module will assume unspliced genes end with the suffix "-l".
Merge	Merge (outer join) multiple alevin quantifications into a single output file (true) or produce separate output files for each input file (false). If "true" the input directory name will be appended to the cell barcodes and stored as a "batch" layer for downstream analysis.
Out Type	Output anndata h5ad files (h5ad) or loom files (loom)

Output File(s): one or more h5ad or loom files

Module Language: Python

Source Repository: <https://github.com/genepattern/Convert.alevin/releases/tag/v1>

Docker image: python:3.8.8-slim-buster

Version	Comment
1	Initial release.