Preparing Job File

You need to provide two JSON files that describes your job:

\${sample-name}.inputs.json

```
{
    "Velopipe.countMatrix": "s3://dp-lab-data/collaborators/pi/project/sample/..._dense.csv",
    "Velopipe.bam": "s3://dp-lab-data/collaborators/pi/project/sample/..._Aligned.out.sorted.bam",
    "Velopipe.bai": "s3://dp-lab-data/collaborators/pi/project/sample/..._Aligned.out.sorted.bam.bai",
    "Velopipe.gtf": "s3://seqc-public/genomes/mm38_long_polya/annotations.gtf",
    "Velopipe.barcodeWhitelist": "s3://seqc-public/barcodes/ten_x_v3/flat/3M-february-2018.txt",
    "Velopipe.alreadySortedBam": true
}
```

- Velopipe.countMatrix: a dense gene expression matrix generated by SEQC
- Velopipe.bam: BAM file generated by SEQC
- Velopipe.bai: BAM index file
- Velopipe.gtf: GTF file
 - $\circ \quad \text{Human: } \text{s3://seqc-public/genomes/hg38_long_polya/annotations.gtf}$
 - Mouse: s3://seqc-public/genomes/mm38_long_polya/annotations.gtf
- Velopipe.barcodeWhitelist: a barcode whitelist
 - 10x v2: s3://seqc-public/barcodes/ten_x_v2/flat/737K-august-2016.txt
 - 10x v3: s3://seqc-public/barcodes/ten x v3/flat/3M-february-2018.txt
- Velopipe.alreadySortedBam: true if the BAM file is already position sorted

Note that SEQC produces a read-name sorted BAM file (this is different from position sorted). If you are not providing a position sorted BAM file, remove Velopipe.bai completely from the configuration.

\${sample-name}.labels.json

```
{
    "pipelineType": "Velopipe",
    "project": "Project 193",
    "sample": "1469_TGFb_LCC-TRL_1_P193",
    "owner": "chunj",
    "destination": "s3://dp-lab-data/Siting/TGFb_LCC_TRL1",
    "transfer": "-",
    "comment": "RNA Velocity"
}
```

- project : project ID retrieved from SCRI database
- sample : sample name
- destination: AWS S3 location where the final output files (e.g. loom) should be saved