DRAM·MAG·····

·DRAM v1.5.0····MAG·····

DRAM·····DRAM v1.5.0·DRAM.py·····MAG·····DRA
M2·····KEGG·····
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·· | ··MAG contig FASTA | MAG·contig ID···

·· | annotations····· | ·····

·····MAG

····DRAM·····export_config·····
·····meta·····contig·····
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```
#!/usr/bin/env bash
set -euo pipefail
mag=/data/MAG001.fa
test -s "$mag"
mkdir dram-MAG001-001
root="$PWD/dram-MAG001-001"
python -m pip freeze > "$root/environment.txt"
DRAM.py annotate -h > "$root/annotate.help.txt" 2>&1
DRAM-setup.py export_config --output_file "$root/database-config.json"
test -s "$root/database-config.json"
sha256sum "$mag" "$root/database-config.json" > "$root/inputs.sha256"
/usr/bin/time -v -o "$root/resources.txt" \
  DRAM.py annotate -i "$mag" -o "$root/annotation" \
  --config_loc "$root/database-config.json" --prodigal_mode meta --threads 4 \
  > "$root/run.log" 2>&1
test -s "$root/annotation/annotations.tsv"
```

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··annotations.tsv··MAG·contig·gene ID·····contig·····
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···distill·····MAG·····
·····MAG·····/·····
··MAG·····

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·····RAM·CPU·I/O·····

····MAG·····ID·····
·····contig·····

·····FASTA··contig ID····MAG·····MAG·····ID·····MA
G·····DRAM·····contig·····
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DRAM v1.5.0··README https://github.com/WrightonLabCSU/DRAM/blob/v1.5.0/README.md

DRAM v1.5.0 annotate·· https://github.com/WrightonLabCSU/DRAM/blob/v1.5.0/scripts/DRAM.py

DRAM v1.5.0····· https://github.com/WrightonLabCSU/DRAM/blob/v1.5.0/scripts/DRAM-setup.py