python ./fastq\_strip\_barcode\_relabel2.py ./3.GAC.454Reads+Qual.fq TGCCAGTAGTCATATGCTTGT ./Barcodes\_Nem+Prot.fas Euk20F > ./3.GAC.454Reads+Qual\_Euk20F.fq

python ./fastq\_strip\_barcode\_relabel2.py ./3.GAC.454Reads+Qual.fq ACCAGACTTGYCCTCCAAT ./Barcodes\_Nem+Prot.fas Euk302r > ./3.GAC.454Reads+Qual\_Euk302r.fq

Barcodes\_Nem+Prot.fas:

>MID\_ATCTC

ATCTC

>MID\_ATCGC

ATCGC

>MID\_TACTC

TACTC

./usearch -fastq\_filter ./3.GAC.454Reads+Qual\_Euk20F.fq -fastq\_maxee 0.5 -fastq\_trunclen 250 -fastaout ./3.GAC.454Reads+Qual\_Euk20F\_250bp.fa

./usearch -fastq\_filter ./3.GAC.454Reads+Qual\_Euk302r.fq -fastq\_maxee 0.5 -fastq\_trunclen 250 -fastaout ./3.GAC.454Reads+Qual\_Euk302r\_250bp.fa

./usearch -derep\_fulllength ./3.GAC.454Reads+Qual\_Euk20F\_250bp.fa -output ./3.GAC.454Reads+Qual\_Euk20F\_250bp\_derep.fa -sizeout

./usearch -derep\_fulllength ./3.GAC.454Reads+Qual\_Euk302r\_250bp.fa -output ./3.GAC.454Reads+Qual\_Euk302r\_250bp\_derep.fa -sizeout

./usearch -sortbysize ./3.GAC.454Reads+Qual\_Euk20F\_250bp\_derep.fa -sizeout -output ./3.GAC.454Reads+Qual\_Euk20F\_250bp\_sorted.fa -minsize 2

./usearch -sortbysize ./3.GAC.454Reads+Qual\_Euk302r\_250bp\_derep.fa -sizeout -output ./3.GAC.454Reads+Qual\_Euk302r\_250bp\_derep.fa -minsize 2

*./usearch -cluster\_otus* ./3.GAC.454Reads+Qual\_Euk20F\_250bp\_sorted.fa *-otus* ./3.GAC.454Reads+Qual\_Euk20F\_250bp\_otus1.fa

*./usearch -cluster\_otus* ./3.GAC.454Reads+Qual\_Euk302r\_250bp\_derep.fa *-otus* ./3.GAC.454Reads+Qual\_Euk302r\_250bp\_otus1.fa

python fasta\_number.py ./3.GAC.454Reads+Qual\_Euk20F\_250bp\_otus1.fa OTU\_ > ./3.GAC.454Reads+Qual\_Euk20F\_250bp\_otus.fa

python fasta\_number.py ./3.GAC.454Reads+Qual\_Euk302r\_250bp\_otus1.fa OTU\_ > ./3.GAC.454Reads+Qual\_Euk302r\_250bp\_otus.fa

./usearch -usearch\_global ./3.GAC.454Reads+Qual\_Euk20F\_250bp.fa -db ./3.GAC.454Reads+Qual\_Euk20F\_250bp\_otus.fa -strand plus -id 0.97 -uc ./3.GAC.454Reads+Qual\_Euk20F\_250bp\_map97.uc

./usearch -usearch\_global ./3.GAC.454Reads+Qual\_Euk302r\_250bp.fa -db ./3.GAC.454Reads+Qual\_Euk302r\_250bp\_otus.fa -strand plus -id 0.97 -uc ./3.GAC.454Reads+Qual\_Euk302r\_250bp\_map97.uc

python ./uc2otutab.py ./3.GAC.454Reads+Qual\_Euk20F\_250bp\_map97.uc > ./3.GAC.454Reads+Qual\_Euk20F\_250bp\_table.txt

python ./uc2otutab.py ./3.GAC.454Reads+Qual\_Euk302r\_250bp\_map97.uc > ./3.GAC.454Reads+Qual\_Euk302r\_250bp\_table.txt