Demultiplexing Overview

My demultiplexing script took two hours and thirty-seven minutes to run after leaving all the files open. This was a significant reduction from my initial 8 hours when I opened and closed each file every time I used it. I used a very strict quality score cutoff of 32 which resulted in a large number of reads being placed into the unknown file. I chose to report my percentages as a percentage of the reads that correctly ended up in a barcoded file. The barcode, followed by the count, followed by the percentage is reported below. Also included is a heatmap of all barcode combinations, and a bar graph of all barcode counts, unknown counts and index hopped counts. These are found in the graphs folder.

Barcode	Count	Percent
CTCTGGAT	28273074	11%
TACCGGAT	59803610	22%
AGAGTCCA	9424161	3.5%
GTAGCGTA	6425781	2.4%
ATCATGCG	8385008	3.1%
AACAGCGA	7418886	2.8%
TCGACAAG	3174898	1.2%
TCGAGAGT	9284990	3.5%
CGGTAATC	3730418	1.4%
TAGCCATG	8657718	3.2%
TCTTCGAC	34156815	13%
CTAGCTCA	14820156	5.5%
TATGGCAC	9086426	3.4%
ACGATCAG	6841163	2.5%
GATCTTGC	3054876	1.1%
AGGATAGC	7217701	2.7%
TGTTCCGT	13452889	5.0%
GCTACTCT	5780573	2.1%
CGATCGAT	4834036	1.8%
GTCCTAAG	7309039	2.7%
GATCAAGG	5204218	1.9%
TCGGATTC	3638673	1.4%
CACTTCAC	3369605	1.3%
ATCGTGGT	5606619	2.1%