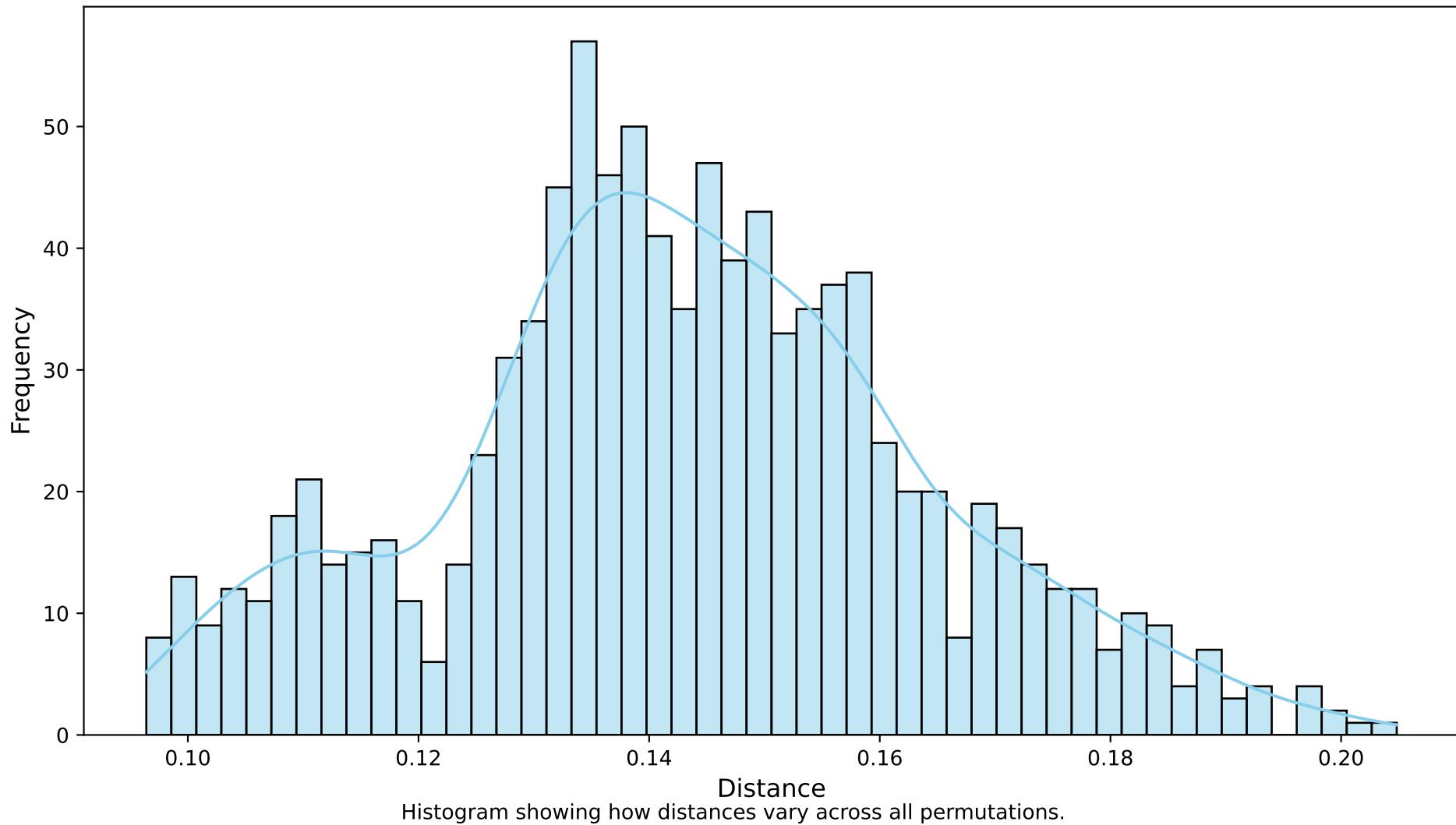
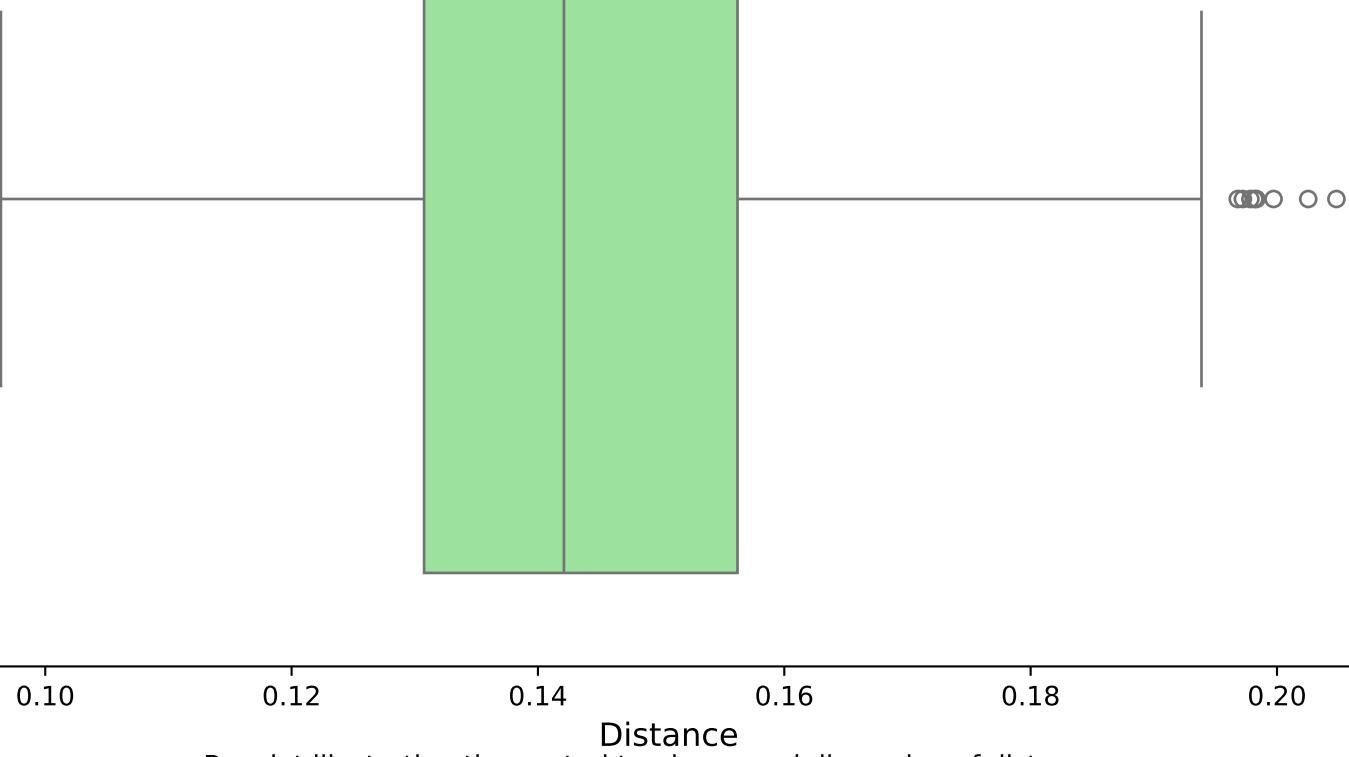


# Distribution of Distances Across Permutations

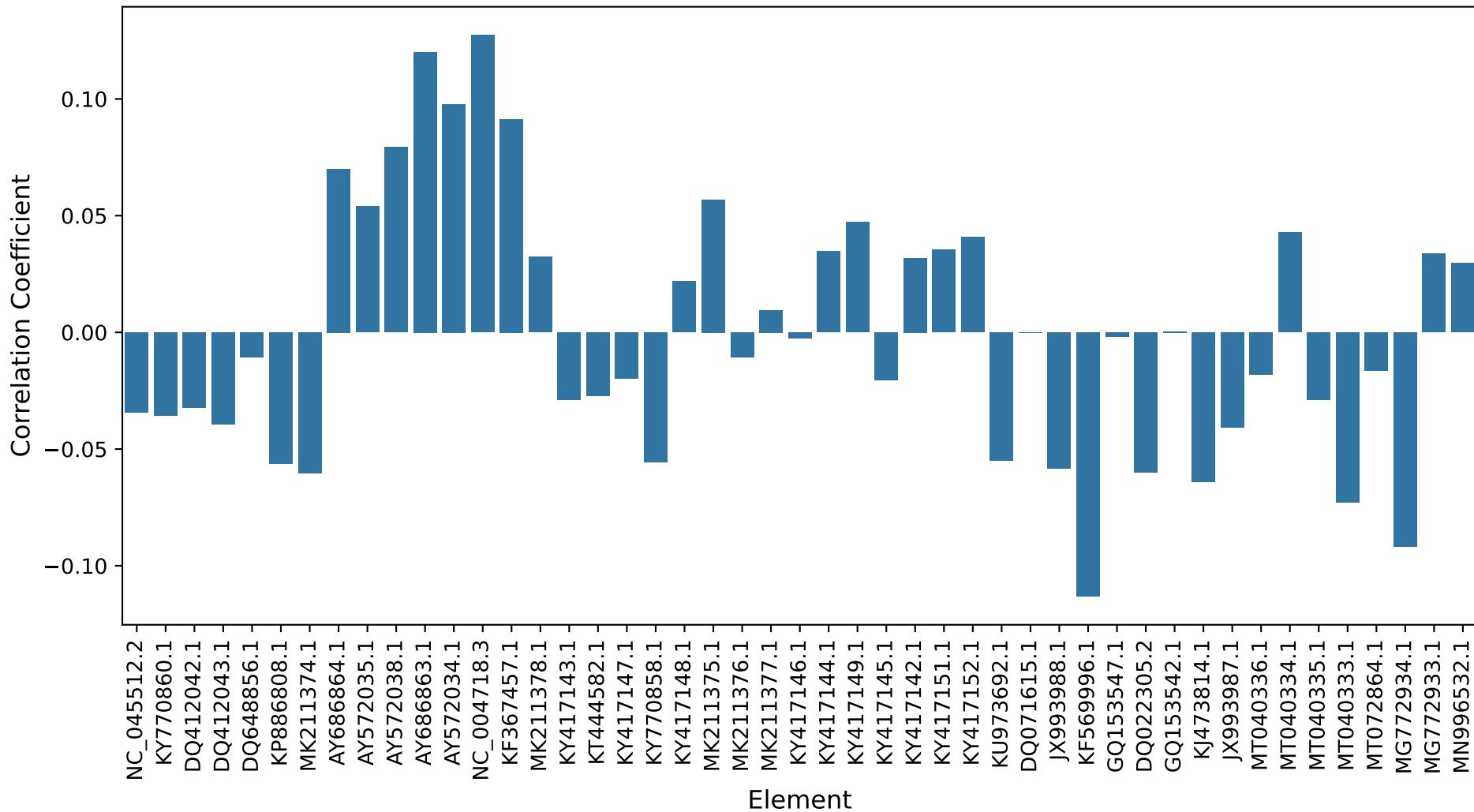


## Summary Statistics of Distances

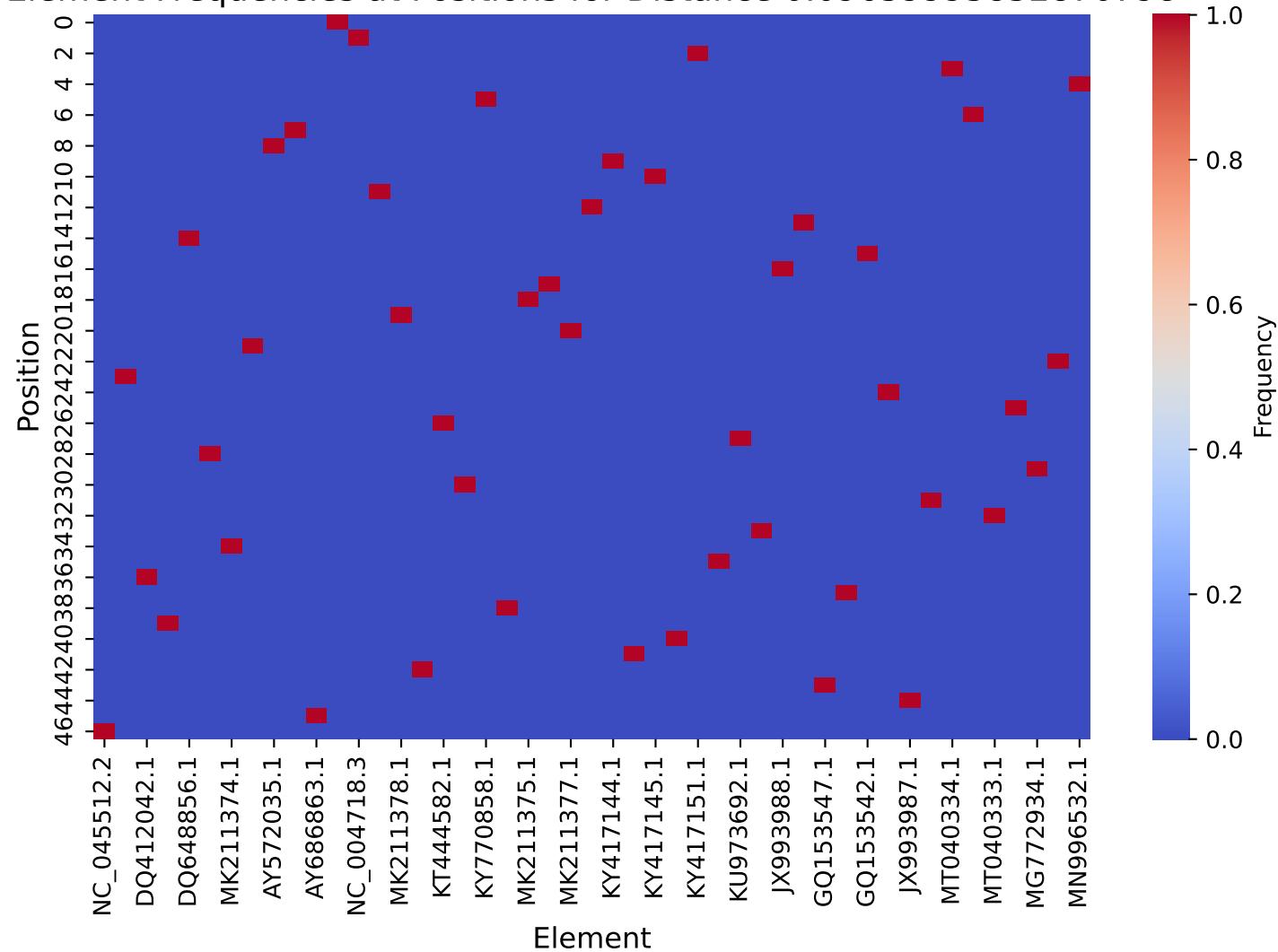


Boxplot illustrating the central tendency and dispersion of distances.

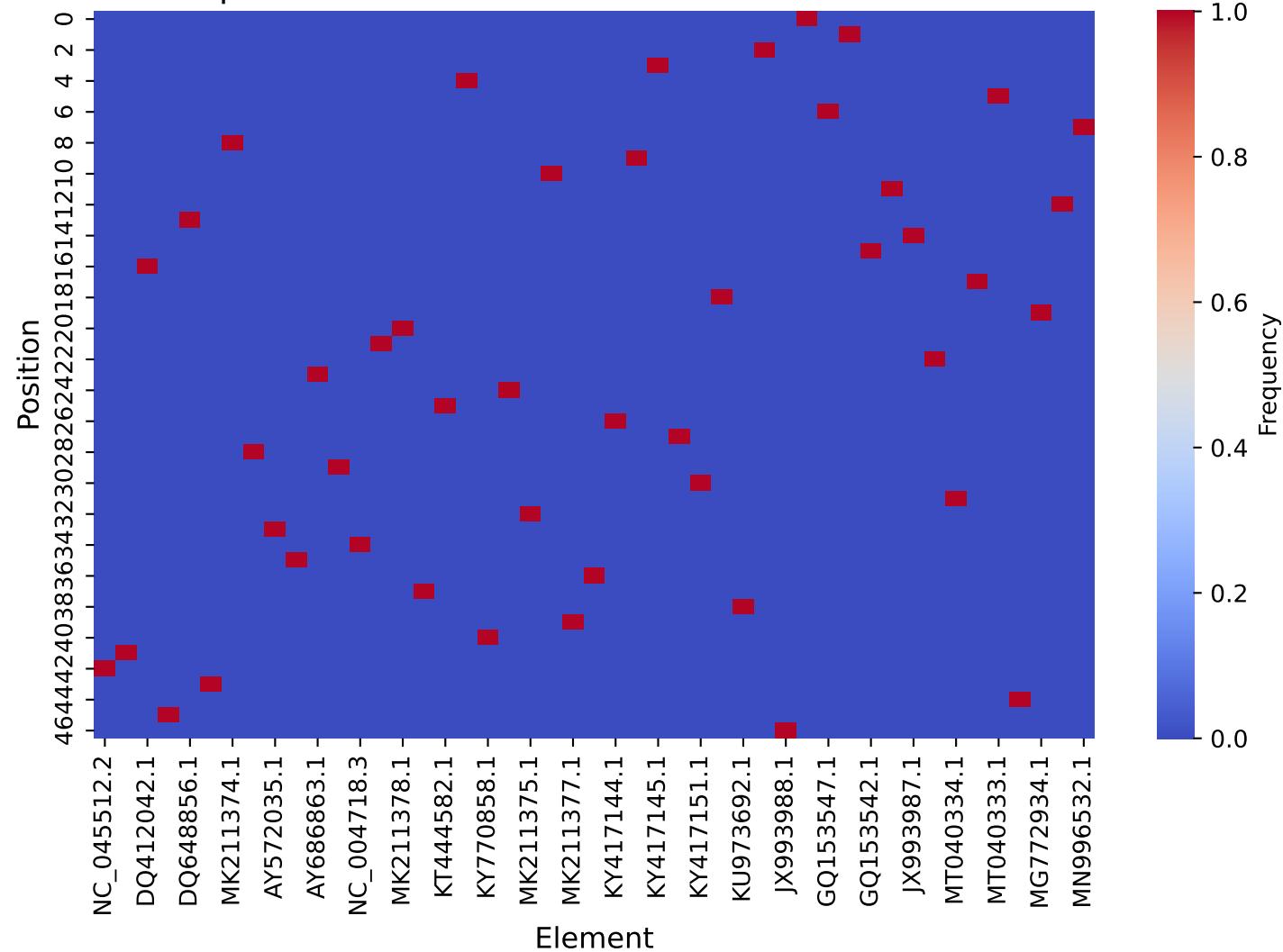
# Correlation between Element Positions and Distance



# Element Frequencies at Positions for Distance 0.09639993832870798



# Element Frequencies at Positions for Distance 0.20482577860006168



# Statistical Summary of Distances

	Value
Mean	0.142929
Median	0.142110
Standard Deviation	0.020968
Variance	0.000440
Minimum	0.096400
Maximum	0.204826

## Shapiro-Wilk Normality Test Results:

Test	Statistic	p-value
Shapiro-Wilk	0.991473	0.000015

# Permutations with Minimal Distance: 0.09639993832870798

AY572034.1, NC\_004718.3, KY417151.1, MT040334.1, MN996532.1, KY770858.1,  
MT040335.1, AY572038.1, AY572035.1, KY417144.1, KY417145.1, KF367457.1,  
KY417146.1, KF569996.1, DQ648856.1, GQ153542.1, JX993988.1, MK211376.1,  
MK211375.1, MK211378.1, MK211377.1, AY686864.1, MG772933.1, KY770860.1,  
KJ473814.1, MT072864.1, KT444582.1, KU973692.1, KP886808.1, MG772934.1,  
KY417147.1, MT040336.1, MT040333.1, DQ071615.1, MK211374.1, KY417152.1,  
DQ412042.1, DQ022305.2, KY417148.1, DQ412043.1, KY417142.1, KY417149.1,  
KY417143.1, GQ153547.1, JX993987.1, AY686863.1, NC\_045512.2

# Permutations with Maximal Distance: 0.20482577860006168

KF569996.1, DQ022305.2, DQ071615.1, KY417145.1, KY417147.1, MT040333.1,  
GQ153547.1, MN996532.1, MK211374.1, KY417149.1, MK211376.1, KJ473814.1,  
MG772933.1, DQ648856.1, JX993987.1, GQ153542.1, DQ412042.1, MT040335.1,  
KY417152.1, MG772934.1, MK211378.1, KF367457.1, MT040336.1, AY686863.1,  
KY417148.1, KT444582.1, KY417144.1, KY417142.1, AY686864.1, AY572034.1,  
KY417151.1, MT040334.1, MK211375.1, AY572035.1, NC\_004718.3, AY572038.1,  
KY417146.1, KY417143.1, KU973692.1, MK211377.1, KY770858.1, KY770860.1,  
NC\_045512.2, KP886808.1, MT072864.1, DQ412043.1, JX993988.1