

# IRF1 SCEPTRE vs Seurat With Score QC Summary

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## Introduction

In this writeup I will change the method of QC for the CHIP-seq data to be such that peaks are only called if they are in the top  $\alpha$  percentile of peaks with respect to the score reported. I will return the odds ratios that SCEPTRE and Seurat give with respect to the post-QC chipseq data. For more information such as the number of discoveries, see “IRF1-analysis-score-QC-individual”.

Table 1: Enrichment odds ratios, comparing to ChIP-seq target assignments with changing quantile threshold

Ground truth \ Method	Method				
	SCEPTRE	Seurat	SCEPTRE-pval	Seurat-pval	
0.1	2.14	2.19	$3.22e-54$	$2.83e-60$	
0.25	2.39	2.41	$1.36e-63$	$2.67e-68$	
0.5	3.08	2.96	$3.36e-81$	$1.82e-78$	
0.75	3.94	3.69	$4.56e-76$	$6.99e-71$	