Gene Set 9: KEGG\_PRIMARY\_BILE\_ACID\_BIOSYNTHESIS **Gene Set Null Distribution Heat Map for Genes in Gene Set** Class 2.5 Gene Set Null Density CYP39A1 Observed Gene Set ES value ACOX2 SCP2 2.0 HSD17B4 Running Enrichment Score (RES) HSD3B7 0.0 **AMACR** 1.5 CH25H P(ES) CYP27A1 Zero crossing at 9579 Peak at 991 1.0 CYP46A1 -0.5 CYP8B1 AKR1C4 0.5 AKR1D1 CYP7B1 CYP7A1 0.0 **BAAT** Pos. ES: "0" Neg. ES "1" "1" SLC27A5 15000 -0.5 0.5 5000 10000 20000 0.0 Gene List Index Number of genes: 20389 (in list), 16 (in gene set) ES = 0.664 NES = 1.9 Nom. p-val= 0 FWER= 0.109 FDR= 0.0756