Gene Set 316 : ST\_Dictyostelium\_discoideum\_cAMP\_Chemotaxis\_Path **Gene Set Null Distribution Heat Map for Genes in Gene Set** Class BF Gene Set Null Density 3.0 ITPKB Observed Gene Set ES value PAK1 RPS4X 2.5 ITGA9 Running Enrichment Score (RES) PDE3A 0.0 GCA 2.0 **SGCB ETFA** P(ES) PIK3R1 Zero crossing at 4737 PIK3CD Peak at 462 MAP2K1 -0.5 ITPR1 1.0 AKT1 DAG1 ACTR3 0.5 MAPK1 PLDN DGKA ITPR2 ITPR3 0.0 Neg. ES "D" Pos. ES: "A" "D" 2000 4000 -0.5 0.0 0.5 6000 8000 10000 Gene List Index ES = 0.519 NES = 1.61 Nom. p-val= 0.0168 FWER= 0.796 FDR= 0.356 Number of genes: 9988 (in list), 21 (in gene set)