Gene Set 2165: ZHAN MULTIPLE MYELOMA SPIKED **Gene Set Null Distribution Heat Map for Genes in Gene Set** Malignant Benign Class **GALNT3** Gene Set Null Density TSPAN7 Observed Gene Set ES value 2.5 MS4A1 0.0 LGALS3BP FBLN2 2.0 Running Enrichment Score (RES) IFIT3 CCND1 **EDNRB** -0.5 1.5 FGFR3 P(ES) DUSP2 Zero crossing at 8459 MAL Peak at 18470 AZGP1 1.0 CRYBB1 **GNAT1** NEAT1 0.5 CST6 DSC3 CTGF 0.0 IFI27 -1.5 AREG LTB Neg. ES "Malignant" Pos. ES: "Benign" "Benign" "Malignant" GSM721593 GSM721594 GSM721595 GSM721596 GSM721598 GSM721619 GSM721620 GSM721623 GSM721625 GSM721597 GSM721621 GSM721622 GSM721624 5000 10000 15000 20000 25000 -0.5 0.0 0.5 Gene List Index Number of genes: 25691 (in list), 21 (in gene set) ES = -0.63 NES = -1.66 Nom. p-val= 0.00402 FWER= 0.874 FDR= 1