Gene Set 1010: REACTOME PHOSPHORYLATION OF THE APC (**Gene Set Null Distribution Heat Map for Genes in Gene Set** Benign Malignant 3.0 Class Gene Set Null Density 0.5 ANAPC4 Observed Gene Set ES value CCNB1 2.5 CDC26 CDC23 Running Enrichment Score (RES) 2.0 UBE2D1 ANAPC5 ANAPC11 P(ES) ANAPC10 Zero crossing at 8459 Peak at 3220 **ANAPC1** 1.0 **UBE2E1** CDC16 ANAPC2 0.5 CDC27 **UBE2C** 0.0 CDK1 Neg. ES "Malignant" Pos. ES: "Benign" "Malignant" "Benign" PLK1 GSM721593 GSM721594 GSM721595 GSM721596 GSM721598 GSM721619 GSM721620 GSM721622 GSM721623 GSM721625 GSM721621 GSM721624 GSM721597 5000 10000 15000 20000 25000 -0.5 0.0 0.5 Gene List Index

ES = 0.604 NES = 1.7 Nom. p-val= 0.0219 FWER= 0.793 FDR= 1

Number of genes: 25691 (in list), 16 (in gene set)