GO Analysis for BP:CMPvsCTL activated suppressed DNA replication checkpoint double-strand break repair via break-induced replication mitotic DNA replication checkpoint regulation of helicase activity histone H2A monoubiquitination positive regulation of spindle checkpoint positive regulation of mitotic cell cycle spindle assembly checkpoint protein localization to kinetochore DNA strand elongation involved in DNA replication mitotic DNA replication replication fork protection presynaptic active zone organization GeneRatio mitotic chromosome condensation regulation of attachment of spindle microtubules to kinetochore centriole-centriole cohesion pvalue defense response to other organism 0.0012 regulation of leukocyte activation 0.0015 negative regulation of immune system process 0.0021 T cell activation cellular divalent inorganic cation homeostasis response to wounding angiogenesis · multicellular organismal homeostasis skeletal system development circulatory system process cellular response to lipid positive regulation of MAPK cascadesmall GTPase mediated signal transduction cellular response to organonitrogen compound positive regulation of hydrolase activity 0.3 0.5 0.7 0.3 0.5 0.7 GeneRatio

organic anion transport negative regulation of immune system process myeloid cell differentiation lymphocyte differentiation adaptive immune response lipid localization regulation of lymphocyte activation activation of immune response regulation of hemopoiesis regulation of leukocyte activation angiogenesis regulation of protein secretion T cell activation positive regulation of secretion by cell regulation of cell-cell adhesion positive regulation of protein transport positive regulation of cytokine production ameboidal-type cell migration skeletal system development regulation of immune effector process positive regulation of cell adhesion positive regulation of establishment of protein localization positive regulation of defense response Ras protein signal transduction defense response to other organism actin filament organization positive regulation of MAPK cascade regulation of actin filament-based process pvalue positive regulation of protein kinase activity 0.00112 mall GTPase mediated signal transduction regulation of multi-organism process 0.00113 0.00114 positive regulation of kinase activity 0.00115 interspecies interaction between organisms 0.00116 size multicellular organismal homeostasis second-messenger-mediated signaling regulation of cytosolic calcium ion concentration cellular response to lipid -cellular calcium ion homeostasis cellular divalent inorganic cation homeostasis cellular response to organic cyclic compound calcium ion homeostasis calcium ion transport regulation of peptidase activity response to wounding regulation of metal ion transport cellular response to organonitrogen compound regulation of DNA-binding transcription factor activity divalent metal ion transport blood circulation response to peptide regulation of ion transmembrane transport muscle organ development muscle system process circulatory system process muscle cell differentiation exocytosis muscle tissue development positive regulation of hydrolase activity striated muscle tissue development

