striated muscle cell differentiation ATP-dependent chromatin remodeling regulation of striated muscle cell differentiation RNA degradation negative regulation of striated muscle cell differentiation immune response regulation of muscle cell differentiation negative regulation of muscle cell differentiation adaptive immune response Proteasome Ubiquitin mediated proteolysis Adaptive Immune System Regulation of T cell activation by CD28 family protein ubiquitination Protein ubiquitination Signaling by the B Cell Receptor (BCR) ubiquitin protein ligase activity electron transfer flavoproteir DNA replication T cell receptor signaling pathway B cell receptor signaling pathway electron transfer activit **DNA Replication** MAPK signaling pathway Oxidative phosphorylation DNA replication initiation short-chain fatty acid biosynthetic process MAPK cascade Fatty acyl-CoA biosynthesis ERK1 and ERK2 cascade very long-chain fatty acid that synthetic process protein folding chaperone asymmetric, glutamatergic, excitatory synapse MAP kinase activity Fatty acid biosynthesis glutamatergic synapse protein serine/threonine kinase activity Citrate cycle (TCA cycle) Fatty acid elongation Glutamatergic synapse protein kinase activity eight • 0.6 • 0.7 • 0.8 • 0.9 database GO KEGG Reactome Module 7 Module 10 Module 1 Module 4 Module 2 Module 5 Module 8 Module 11 Module

Module 6 Module 9

Module 12