

Figure 2-figure supplement 1:

TON			
Enriched GO terms in upregulated genes		Enriched GO terms in downregulated genes	
GO:0005198-structural molecule activity	10 DIA, EDL, EYE, FDB, GAS, MAS, PLA, QUAD, SOL, TAN	GO:0030018-Z disc	10 DIA, EDL, EYE, FDB, GAS, MAS, PLA, QUAD, SOL, TAN
GO:0006544-epidemis development	10 DIA, EDL, EYE, FDB, GAS, MAS, PLA, QUAD, SOL, TAN	GO:0016529-sarcoplasmic reticulum	9 DIA, EDL, EYE, FDB, GAS, MAS, PLA, SOL, TAN
GO:0005882-intermediate filament	10 DIA, EDL, EYE, FDB, GAS, MAS, PLA, QUAD, SOL, TAN	GO:0006936-muscle contraction	9 DIA, EDL, EYE, FDB, GAS, MAS, PLA, SOL, TAN
GO:0045095-keratin filament	10 DIA, EDL, EYE, FDB, GAS, MAS, PLA, QUAD, SOL, TAN	GO:0042383-sarcolema	8 DIA, EDL, EYE, FDB, MAS, PLA, SOL, TAN
GO:0030567-desmosome	10 DIA, EDL, EYE, FDB, GAS, MAS, PLA, QUAD, SOL, TAN	GO:0030016-myofibril	8 DIA, EDL, EYE, FDB, MAS, PLA, SOL, TAN
GO:0030216-keratinocyte differentiation	10 DIA, EDL, EYE, FDB, GAS, MAS, PLA, QUAD, SOL, TAN	GO:0007519-skeletal muscle tissue development	8 EDL, EYE, FDB, GAS, MAS, PLA, SOL, TAN
GO:0031424-keratinization	10 DIA, EDL, EYE, FDB, GAS, MAS, PLA, QUAD, SOL, TAN	GO:0042767-protein ubiquitination involved in ubiquitin-dependent protein catabolic process	7 EDL, FDB, GAS, PLA, QUAD, SOL, TAN
GO:0018149-peptide cross-linking	10 DIA, EDL, EYE, FDB, GAS, MAS, PLA, QUAD, SOL, TAN	GO:0008307-structural constituent of muscle	7 EDL, FDB, GAS, MAS, PLA, SOL, TAN
GO:0001533-cornified envelope	10 DIA, EDL, EYE, FDB, GAS, MAS, PLA, QUAD, SOL, TAN		

SOL			
Enriched GO terms in upregulated genes		Enriched GO terms in downregulated genes	
GO:0030016-myofibril	9 DIA, EYE, FDB, GAS, MAS, PLA, QUAD, TAN, TON	GO:0030018-Z disc	4 EDL, MAS, PLA, TAN
GO:0030018-Z disc	9 DIA, EDL, EYE, GAS, MAS, PLA, QUAD, TAN, TON	GO:0005975-carbohydrate metabolic process	4 EDL, GAS, PLA, TAN
GO:0003779-actin binding	8 DIA, EDL, EYE, GAS, MAS, PLA, TAN, TON	GO:0005578-proteinaceous extracellular matrix	4 DIA, EYE, FDB, PLA
GO:0031430-M band	8 EDL, EYE, GAS, MAS, PLA, QUAD, TAN, TON		
GO:0031672-A band	7 DIA, EDL, EYE, MAS, PLA, QUAD, TAN		
GO:0016459-myosin complex	7 DIA, FDB, GAS, MAS, PLA, QUAD, TAN		
GO:0001725-stress fiber	7 EDL, GAS, MAS, PLA, QUAD, TAN, TON		

DIA			
Enriched GO terms in upregulated genes		Enriched GO terms in downregulated genes	
GO:0006631-fatty acid metabolic process	6 EDL, FDB, MAS, PLA, TAN, TON	GO:0030018-Z disc	7 EDL, FDB, GAS, MAS, PLA, SOL, TAN
GO:0050873-brown fat cell differentiation	6 EDL, FDB, MAS, PLA, TAN, TON	GO:0030016-myofibril	5 EDL, EYE, FDB, PLA, SOL
GO:0052697-xenobiotic glucuronidation	6 EDL, FDB, MAS, PLA, TAN, TON	GO:0016459-myosin complex	3 EDL, EYE, SOL
GO:0001725-stress fiber	6 EDL, MAS, PLA, QUAD, TAN, TON	GO:0005578-proteinaceous extracellular matrix	2 EYE, FDB
GO:0072662-blood microparticle	5 EDL, EYE, PLA, SOL, TAN	GO:0016529-sarcoplasmic reticulum	2 EDL, PLA
GO:0042613-MHC class II protein complex	5 EDL, FDB, PLA, SOL, TAN	GO:0008078-voltage-gated potassium channel complex	2 EDL, EYE
GO:0005581-collagen trimer	5 EDL, MAS, PLA, SOL, TAN	GO:0032982-myosin filament	2 EDL, EYE
GO:0030336-negative regulation of cell migration	5 EDL, MAS, PLA, SOL, TAN	GO:0042383-sarcolema	2 EDL, FDB
GO:0045766-positive regulation of angiogenesis	5 EDL, MAS, PLA, SOL, TAN		
GO:0006635-fatty acid beta-oxidation	5 EDL, FDB, MAS, TAN, TON		

PLA			
Enriched GO terms in upregulated genes		Enriched GO terms in downregulated genes	
GO:0030018-Z disc	5 DIA, EYE, QUAD, SOL, TON	GO:0007156-homophilic cell adhesion via plasma membrane adhesion molecules	4 DIA, EYE, FDB, TON
GO:0030016-myofibril	5 DIA, EYE, MAS, QUAD, TON	GO:0001725-stress fiber	4 DIA, EYE, FDB, SOL
GO:0006936-muscle contraction	3 EYE, GAS, TON	GO:0030175-filopodium	4 DIA, EYE, FDB, SOL
GO:0005977-glycogen metabolic process	3 FDB, SOL, TON	GO:0071944-cell periphery	4 DIA, EYE, FDB, TON
GO:0005578-proteinaceous extracellular matrix	3 EDL, SOL, TAN	GO:0016459-myosin complex	4 DIA, EYE, FDB, SOL
		GO:0030864-cortical actin cytoskeleton	3 DIA, EYE, FDB
		GO:0031527-filopodium membrane	3 DIA, EYE, FDB

MAS			
Enriched GO terms in upregulated genes		Enriched GO terms in downregulated genes	
GO:0005578-extracellular region	4 EDL, GAS, PLA, TAN	GO:0009652-anterior/posterior pattern specification	7 DIA, EDL, GAS, PLA, QUAD, SOL, TAN
GO:0030018-Z disc	4 DIA, EYE, SOL, TON	GO:0009954-proximal/distal pattern formation	7 EDL, FDB, GAS, PLA, QUAD, SOL, TAN
GO:0005615-extracellular space	3 EDL, GAS, TAN	GO:0030016-myofibril	7 DIA, EDL, EYE, FDB, GAS, PLA, SOL
GO:0030016-myofibril	2 SOL, TON	GO:0060048-cardiac muscle contraction	6 EDL, FDB, GAS, PLA, QUAD, SOL
GO:0004842-ubiquitin-protein transferase activity	2 EYE, TON	GO:0001501-skeletal system development	6 EDL, FDB, GAS, PLA, QUAD, TAN
		GO:005010-ventricular cardiac muscle tissue morphogenesis	6 EDL, FDB, GAS, PLA, QUAD, SOL

FDB			
Enriched GO terms in upregulated genes		Enriched GO terms in downregulated genes	
GO:0005604-basement membrane	10 DIA, EDL, EYE, GAS, MAS, PLA, QUAD, SOL, TAN, TON	GO:0005743-mitochondrial inner membrane	9 DIA, EDL, EYE, GAS, MAS, PLA, QUAD, SOL, TAN
GO:0005578-proteinaceous extracellular matrix	9 DIA, EDL, EYE, GAS, MAS, PLA, QUAD, SOL, TAN	GO:0005759-mitochondrial matrix	9 DIA, EDL, EYE, GAS, PLA, QUAD, SOL, TAN
GO:0031012-extracellular matrix	9 DIA, EDL, EYE, GAS, MAS, PLA, QUAD, SOL, TAN	GO:0006631-fatty acid metabolic process	8 DIA, EDL, EYE, GAS, PLA, QUAD, SOL, TAN
GO:0008201-heparin binding	9 DIA, EDL, EYE, GAS, MAS, PLA, QUAD, SOL, TAN	GO:0031966-mitochondrial membrane	8 DIA, EDL, EYE, GAS, PLA, QUAD, SOL, TAN
GO:0005561-collagen trimer	8 DIA, EDL, GAS, MAS, PLA, QUAD, SOL, TAN	GO:0005739-mitochondrion	7 DIA, EDL, GAS, PLA, QUAD, SOL, TAN
GO:0005518-collagen binding	8 DIA, EDL, GAS, MAS, PLA, QUAD, SOL, TAN	GO:0055114-oxidation-reduction process	7 DIA, EDL, EYE, GAS, PLA, SOL, TAN
GO:0001968-fibronectin binding	8 DIA, EDL, EYE, GAS, MAS, PLA, SOL, TAN	GO:0008152-metabolic process	7 DIA, EDL, GAS, MAS, PLA, SOL, TAN
GO:0005178-integrin binding	8 DIA, EDL, GAS, MAS, PLA, QUAD, SOL, TAN	GO:0003824-catalytic activity	8 DIA, EDL, GAS, MAS, PLA, SOL, TAN

EYE			
Enriched GO terms in upregulated genes		Enriched GO terms in downregulated genes	
GO:0016459-myosin complex	8 DIA, GAS, MAS, PLA, QUAD, SOL, TAN, TON	GO:0009652-anterior/posterior pattern specification	7 DIA, EDL, GAS, PLA, QUAD, SOL, TAN
GO:0001725-stress fiber	7 EDL, GAS, MAS, PLA, QUAD, TAN, TON	GO:0030018-Z disc	7 EDL, FDB, GAS, MAS, PLA, SOL, TAN
GO:0030336-negative regulation of cell migration	7 EDL, GAS, MAS, PLA, QUA, SOL, TAN	GO:0036459-thiol-dependent ubiquitinyl hydrolase activity	3 GAS, MAS, PLA, QUAD, SOL, TAN
GO:0007156-homophilic cell adhesion via plasma membrane adhesion molecules	7 EDL, GAS, MAS, PLA, QUAD, SOL, TAN	GO:0004642-ubiquitin-protein transferase activity	5 GASD, MAS, PLA, QUAD, TAN
GO:0030864-cortical actin cytoskeleton	6 EDL, GAS, MAS, PLA, QUAD, TAN	GO:0030315-T-tubule	4 EDL, FDB, MAS, PLA
GO:0030175-filopodium	6 EDL, GAS, MAS, PLA, QUAD, TAN	GO:0030016-myofibril	4 EDL, FDB, PLA, SOL
GO:0031594-neuromuscular junction	5 DIA, GAS, MAS, QUAD, SOL	GO:0007519-skeletal muscle tissue development	4 EDL, GAS, PLA, QUAD
GO:0005605-basal lamina	5 GAS, MAS, PLA, QUAD, TAN	GO:0008234-cysteine-type peptidase activity	4 GAS, PLA, QUAD, SOL

EDL			
Enriched GO terms in upregulated genes		Enriched GO terms in downregulated genes	
GO:0030016-myofibril	7 DIA, EYE, FDB, MAS, QUAD, TAN, TON	GO:0030593-neutrophil chemotaxis	4 DIA, EYE, FDB, TON
GO:0030018-Z disc	5 DIA, EYE, MAS, SOL, TON	GO:0072562-blood microparticle	4 DIA, EYE, FDB, QUAD
GO:0016529-sarcoplasmic reticulum	4 EYE, QUAD, SOL, TON	GO:0032587-ruffle membrane	3 DIA, EYE, TON
GO:0008078-voltage-gated potassium channel complex	4 DIA, EYE, SOL, TON	GO:0001725-stress fiber	3 DIA, EYE, SOL
GO:0030315-T-tubule	4 DIA, EYE, SOL, TON	GO:0045766-positive regulation of angiogenesis	3 DIA, EYE, FDB
GO:0042383-sarcolema	4 DIA, EYE, SOL, TON	GO:0005581-collagen trimer	3 DIA, EYE, FDB
GO:0030017-sarcomere	4 EYE, FDB, MAS, TON	GO:0005178-integrin binding	3 DIA, EYE, FDB
GO:0030017-sarcoplasmic reticulum membrane	4 EYE, QUAD, SOL, TON	GO:0009617-response to bacterium	3 DIA, EYE, TON
		GO:0008201-heparin binding	3 DIA, FDB, PLA
		GO:0005604-basement membrane	3 DIA, FDB, SOL
		GO:0002786-positive regulation of tumor necrosis factor production	3 DIA, FDB, TON

TAN			
Enriched GO terms in upregulated genes		Enriched GO terms in downregulated genes	
GO:0030018-Z disc	4 DIA, EYE, SOL, TON	GO:0005578-proteinaceous extracellular matrix	6 DIA, EYE, FDB, PLA, QUAD, SOL
GO:0005977-glycogen metabolic process	3 EYE, FDB, SOL	GO:0005604-basement membrane	4 DIA, EYE, FDB, SOL
GO:0009652-anterior/posterior pattern specification	3 EYE, MAS	GO:0001725-stress fiber	4 EDL, EYE, FDB, SOL
GO:0004842-ubiquitin-protein transferase activity	2 EYE, TON	GO:0030016-myofibril	4 EDL, EYE, FDB, SOL

GAS			
Enriched GO terms in upregulated genes		Enriched GO terms in downregulated genes	
GO:0030019-Z disc	3 DIA, EYE, TON	GO:0030864-cortical actin cytoskeleton	4 EYE, FDB, SOL, TON
GO:0009954-proximal/distal pattern formation	3 DIA, EYE, MAS	GO:0001725-stress fiber	3 EYE, FDB, SOL
GO:0005977-glycogen metabolic process	3 FDB, SOL, TON	GO:0007156-homophilic cell adhesion via plasma membrane adhesion molecules	3 EYE, FDB, TON
GO:0009652-anterior/posterior pattern specification	2 EYE, MAS	GO:0016459-myosin complex	3 EYE, FDB, SOL
GO:0004842-ubiquitin-protein transferase activity	2 EYE, TON	GO:0030863-cortical cytoskeleton	3 EYE, FDB, SOL
GO:0006511-ubiquitin-dependent protein catabolic process	2 EYE, TON		
GO:0007519-skeletal muscle tissue development	2 EYE, TON		

QUAD			
Enriched GO terms in upregulated genes		Enriched GO terms in downregulated genes	
GO:0009652-anterior/posterior pattern specification	2 EYE, MAS	GO:0016459-myosin complex	6 DIA, EDL, EYE, FDB, PLA, SOL
GO:0004842-ubiquitin-protein transferase activity	2 EYE, TON	GO:0001725-stress fiber	6 DIA, EDL, EYE, FDB, PLA, SOL
GO:0006511-ubiquitin-dependent protein catabolic process	2 EYE, TON	GO:0031594-neuromuscular junction	5 EDL, EYE, FDB, PLA, SOL
GO:0042787-protein ubiquitination involved in ubiquitin-dependent protein catabolic process	2 EYE, TON	GO:0005089-Rho guanyl-nucleotide exchange factor activity	5 DIA, EYE, MAS, SOL, TON
GO:0061630-ubiquitin protein ligase activity	2 EYE, TON	GO:0051015-actin filament binding	4 DIA, EYE, FDB, SOL
GO:0000151-ubiquitin ligase complex	2 EDL, TON	GO:0030898-actin-dependent ATPase activity	4 DIA, EYE, FDB, SOL
GO:0008234-cysteine-type peptidase activity	2 EYE, TON	GO:0035023-regulation of Rho protein signal transduction	4 DIA, EYE, MAS, TON
		GO:0030864-cortical actin cytoskeleton	4 DIA, EYE, FDB, TON