

Table S4 GENE ONTOLOGY ANALYSIS OF UP OR DOWN-REGULATED GENES IN THE vStr OF DA-D2RKO MICE

Items	Items_Details	Support	pvalue	corrected pvalue	Genes
GO:0006355	regulation of phosphorylation (BP)	4	8,14E-06	0,00434603	Dapp1,Ppp1r14b,Mcm7,Ctd24a
GO:0006351	cell cycle (BP)	9	6,70E-05	0,00894199	Smc4,Mad2l1,Cdc14a,Esco2,Tpx2,Mcm7,Dusp1,Nuf2,Sgol2
GO:0008284	dephosphorylation (BP)	4	0,00330499	0,0339398	Ptpn3,Cdc14a,Dusp4,Dusp1
GO:0010951	oxidation-reduction process (BP)	7	0,00423294	0,041098	Akr1e1,Cyp39a1,Hsd17b7,Rrm1,Gpx8,Acadsb,Dhfr
GO:0045087	regulation of transcription, DNA-dependent (BP)	15	0,00055482	0,0423753	Med21,Zfp182,Hmg5,Prrx1,Ezh2,Etv1,Zfp654,Pou3f2,Mycn,Zik1,Actl6a,Zfp652,Sox11,Nr4a1,Tmpo
GO:0000084	mitosis (BP)	4	0,00474646	0,0452608	Smc4,Mad2l1,Tpx2,Nuf2
GO:0001756	DNA recombination (BP)	3	0,00151972	0,054102	Smc4,Actl6a,Xrcc4
GO:0050766	induction of apoptosis (BP)	3	0,0167425	0,0592086	Trp53inp1,Bik,Nr4a1
GO:0010165	lipid metabolic process (BP)	3	0,00304304	0,0773802	Ptpn3,Cdc14a,Dusp1
GO:0010332	lipid metabolic process (BP)	3	0,0385498	0,0782721	Cyp39a1,Plc44,Acadsb
GO:0006956	ATP catabolic process (BP)	3	0,0479452	0,0876807	Ide,Myo7a,Pex1
GO:0006807	DNA repair (BP)	3	0,0513049	0,0913226	Smc4,Actl6a,Xrcc4

Table S4 KEGG PATHWAY ANALYSIS OF UP OR DOWNREGULATED GENES IN THE VStr OF DA-D2RKO MICE

Items	Items_Details	Support	pvalue	corrected pvalue	Genes
Kegg:04010	MAPK signaling pathway	3	0,0552808	0,0552808	Nr4a1,Dusp1,Dusp4
Kegg:04110	Cell cycle	3	0,0077275	0,015455	Mad2l1,Cdc14a,Mcm7