Supplementary Material

Table S1. The identified gene names and accession numbers containing differentially methylated cytosine.

GENBANK_ACCESSION	Name	Species
XM_005156129	phospholipase C, delta 3b(plcd3b)	Danio rerio
NM_001017839	serine/threonine kinase 11(stk11)	Danio rerio
NM_001328554	protein kinase, AMP-activated, beta 1 non-catalytic subunit, b(prkab1b)	Danio rerio
NM_001045485	phosphatidylinositol 4-kinase type 2 beta(pi4k2b)	Danio rerio
NM_001114550	suppressor of cytokine signaling 2(socs2)	Danio rerio
NM_200641	calcium channel, voltage-dependent, gamma subunit 2a(cacng2a)	Danio rerio
XM_005166533	phospholipase C, beta 3 (phosphatidylinositol-specific)(plcb3)	Danio rerio
NM_201143	phosphoinositide-3-kinase, regulatory subunit 3b (gamma)(pik3r3b)	Danio rerio
XM_009296337	phosphatidylinositol-4-phosphate 5-kinase, type I, gamma a(pip5k1ca)	Danio rerio
XM_005157204	O-linked N-acetylglucosamine (GlcNAc) transferase, tandem duplicate 2(ogt.2)	Danio rerio
XM_009300288	calcium channel, voltage-dependent, alpha 2/delta subunit 1a(cacna2d1a)	Danio rerio
NM_001002163	zgc:86599(zgc:86599)	Danio rerio
XR_661637	si:ch211-139a5.9(si:ch211-139a5.9)	Danio rerio
XM_686123	ubiquitin specific peptidase 7 (herpes virus-associated)(usp7)	Danio rerio
XM_009304726	phosphoinositide kinase, FYVE finger containing(pikfyve)	Danio rerio
XM_005157466	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta(pik3cb)	Danio rerio
XM_017353111	tropomyosin 4a(tpm4a)	Danio rerio
NM_001110412	protein phosphatase 1, regulatory subunit 3Da(ppp1r3da)	Danio rerio
NM_001017737	solute carrier family 27 (fatty acid transporter), member 4(slc27a4)	Danio rerio
NM_001037569	inositol polyphosphate-5-phosphatase L(inpp5l)	Danio rerio
XM_005157623	inositol polyphosphate-5-phosphatase Ka(inpp5ka)	Danio rerio
XM_005167776	TBC1 domain family, member 4(tbc1d4)	Danio rerio
XM_009306167	phosphorylase kinase, alpha 2 (liver)(phka2)	Danio rerio
NM_001020629	-Ha-ras Harvey rat sarcoma viral oncogene homolog b(hrasb)	Danio rerio
NM_001002389	inositol hexakisphosphate kinase 2b(ip6k2b)	Danio rerio
NM_200650	protein arginine methyltransferase 1(prmt1)	Danio rerio
NM_001305577	cytochrome c oxidase subunit Vab(cox5ab)	Danio rerio
NM_001105129	sterol regulatory element binding transcription factor 1(srebf1)	Danio rerio
XM_005161178	phosphorylase kinase, gamma 1b (muscle)(phkg1b)	Danio rerio
XM_682610	insulin receptor substrate 1(irs1)	Danio rerio
XM_005168860	cyclin B2(ccnb2)	Danio rerio
XM_009299278	calcium channel, voltage-dependent, beta 1 subunit(cacnb1)	Danio rerio
NM_001199755	Raf-1 proto-oncogene, serine/threonine kinase b(raf1b)	Danio rerio
NM_213306	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit gamma(pik3cg)	Danio rerio
XM_005171260	insulin receptor a(insra)	Danio rerio
NM_001030266	myo-inositol oxygenase(miox)	Danio rerio
XM_686383	inositol-trisphosphate 3-kinase B(itpkb)	Danio rerio
XM_005161411	myotubularin related protein 1b(mtmr1b)	Danio rerio
NM_001113507	interleukin 7 receptor(il7r)	Danio rerio
NM_213192	phosphoenolpyruvate carboxykinase 2 (mitochondrial)(pck2)	Danio rerio
XM_009303849	protein kinase C, zeta(prkcz)	Danio rerio
XM_005159374	tropomyosin 3(tpm3)	Danio rerio
XM_005159380	tropomyosin 3(tpm3)	Danio rerio
XM_005167061	mitogen-activated protein kinase 14a(mapk14a)	Danio rerio
NM_131900	calcium channel, voltage-dependent, L type, alpha 1C subunit(cacna1c)	Danio rerio
NM_001014815	eukaryotic translation initiation factor 4E family member 2(eif4e2)	Danio rerio
XM_017351452	inositol polyphosphate-5-phosphatase B(inpp5b)	Danio rerio
NM_001037376	transmembrane protein 55Ba(tmem55ba)	Danio rerio
XM_009294018	calcium channel, voltage-dependent, gamma subunit 6a(cacng6a)	Danio rerio
NM_001163806	glucose-6-phosphatase a, catalytic subunit, tandem duplicate 2(g6pca.2)	Danio rerio

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Table S1. Continued

NM_001083568	calcium channel, voltage-dependent, beta 2a(cacnb2a)	Danio rerio
NM_131691	sphingosine-1-phosphate receptor 1(s1pr1)	Danio rerio
NM_001020673	cAMP responsive element binding protein 3-like 3a(creb3l3a)	Danio rerio
XM_009304267	phospholipase C eta 2(plch2)	Danio rerio
NM_001302478	cytochrome b-c1 complex subunit 9(LOC100333064)	Danio rerio
NM_131579	BCL2-associated agonist of cell death b(badb)	Danio rerio
XR_001795980	protein kinase, AMP-activated, gamma 2 non-catalytic subunit b(prkag2b)	Danio rerio
NM_001204124	cytochrome c oxidase subunit VIc(cox6c)	Danio rerio
XM_009300037	diacylglycerol kinase, iota(dgki)	Danio rerio
NM_201470	inositol hexakisphosphate kinase 2a(ip6k2a)	Danio rerio