

Table 9. mGEP transcripts differentially expressed after Kx2 but not Kx1 infection (Kx2-specific mGEP transcripts).

Upregulated transcripts			
Affymetrix probe set ID	Gene ID	Gene description	Fold change compared to uninfected mGEPs
1422738_at	18214	discoidin domain receptor family, member 2	7.1
1455688_at	98434	hypothetical LOC98434	6.9
1437199_at	240672	gene model 337, (NCBI)	5.3
1429217_at	72611	zinc finger protein 655	5.0
1419431_at	13874	epiregulin	4.9
1451888_a_at	23966	odd Oz/ten-m homolog 4 (Drosophila)	4.6
1419558_at	17248	transformed mouse 3T3 cell double minute 4	4.6
1418666_at	19288	pentraxin related gene	4.6
1423233_at	12609	CCAAT/enhancer binding protein (C/EBP), delta	4.5
1418423_s_at	20709	serine (or cysteine) proteinase inhibitor, clade B, member 9f	4.3
	20710	serine (or cysteine) proteinase inhibitor, clade B, member 9e	
	544923	serine (or cysteine) proteinase inhibitor, clade B, member 9g	
	93806	similar to OTTMUSP00000000641	
1424041_s_at	50908	complement component 1, s subcomponent	4.1
1458438_at	108811	RIKEN cDNA 4933415L06 gene	4.0
1448014_s_at	329908	ubiquitin specific protease 24	4.0
1430062_at	214305	RIKEN cDNA 1600002O04 gene	3.9
1454976_at		Adult male urinary bladder cDNA, RIKEN full-length enriched library, clone:9530055M18 product:unknown EST, full insert sequence	3.8
1448263_a_at	66054	CNDP dipeptidase 2 (metallopeptidase M20 family)	3.6
1419758_at	18671	ATP-binding cassette, sub-family B (MDR/TAP), member 1A	3.6
1451340_at	214855	AT rich interactive domain 5A (Mrf1 like)	3.6
1419702_at	21339	TATA box binding protein (Tbp)-associated factor, RNA polymerase I, A	3.6
1419523_at	13113	cytochrome P450, family 3, subfamily a, polypeptide 13	3.6
1438045_at	216238	early endosome antigen 1	3.6
1422264_s_at	16601	Kruppel-like factor 9	3.5
1435400_at	69765	RIKEN cDNA 2900075B16 gene	3.4
1418673_at	20583	snail homolog 2 (Drosophila)	3.4
1422804_at	20708	serine (or cysteine) proteinase inhibitor, clade B, member 6b	3.4
1423434_at	21676	TEA domain family member 1	3.4
1437615_s_at	107305	RIKEN cDNA 5730409F24 gene	3.3
1454862_at	208177	pleckstrin homology-like domain, family B, member 2	3.3
1436119_at	216188	aldehyde dehydrogenase 1 family, member L2	3.3
1435248_a_at	107182	BTA1 RNA polymerase II, B-TFIID transcription factor-associated, 170kDa (Mot1 homolog, S. cerevisiae)	3.2
1438167_x_at	216805	Folliculin	3.2
1437884_at	75869	ADP-ribosylation factor-like 8	3.2
1455908_a_at	74617	serine carboxypeptidase 1	3.2
1437495_at	270669	membrane-bound transcription factor protease, site 2	3.2
1434813_x_at	22375	tryptophanyl-tRNA synthetase	3.1
1434113_a_at	227656	XPMC2 prevents mitotic catastrophe 2 homolog (Xenopus laevis)	3.1
1460369_at	233987	cDNA sequence BC003267	3.1
1438992_x_at	11911	activating transcription factor 4	3.0
1433850_at	232314	protein phosphatase 4, regulatory subunit 2	3.0
1427046_at	252973	transcription factor CP2-like 3	2.9
1418115_s_at	64164	interferon alpha responsive gene	2.9
1422864_at	12394	runt related transcription factor 1	2.9
1428419_at	71423	RIKEN cDNA 5430411K18 gene	2.9
1418248_at	11605	galactosidase, alpha	2.8
1433962_at	328162	RIKEN cDNA 6720458F09 gene	2.8
1438133_a_at	16007	cysteine rich protein 61	2.8
1418850_at	13831	enhancer of polycomb homolog 1 (Drosophila)	2.8
1421065_at	16452	Janus kinase 2	2.8
1460370_at	72960	DNA topoisomerase 1, mitochondrial	2.8
1418350_at	15200	heparin-binding EGF-like growth factor	2.7
1424866_at	216835	ubiquitin specific protease 43	2.7
1428936_at	67972	ATPase, Ca++ transporting, plasma membrane 1	2.7
1440527_at		Transcribed locus	2.7
1430417_s_at	216860	RIKEN cDNA 0610025P10 gene	2.7
1452062_at	212627	phosphoribosyl pyrophosphate synthetase-associated protein 2	2.7
1429650_at	74178	serine/threonine kinase 40	2.6
1436684_a_at	67045	RIO kinase 2 (yeast)	2.6
1437650_at	331006	hypothetical protein C730026J16	2.6

1429491_s_at	51869 Rap1 interacting factor 1 homolog (yeast)	2.6
1428771_at	76788 RIKEN cDNA 2410127E18 gene	2.5
1453119_at	71198 OTU domain containing 1	2.5
1454725_at	101214 RIKEN cDNA G430041M01 gene	2.5
1430300_at	52892 SCO cytochrome oxidase deficient homolog 1 (yeast)	2.4
1418114_at	19664 recombining binding protein suppressor of hairless (Drosophila)	2.4
1424507_at	225870 Ras and Rab interactor 1	2.4
1427364_a_at	18263 /// ornithine decarboxylase, structural 1 /// similar to Ornithine decarboxylase (ODC) 545783	2.4
1429778_at	71648 optineurin	2.3
1416951_a_at	73834 ATPase, H+ transporting, V1 subunit D	2.2

Downregulated transcripts

Affymetrix probe set ID	Gene ID	Gene description	Fold change compared to uninfected mGEPs
1451305_at	73739	PKD2 interactor, golgi and endoplasmic reticulum associated 1	-7.0
1452301_at	67689	aldehyde dehydrogenase 3 family, member B1	-5.4
1460257_a_at	107885	5, 10-methenyltetrahydrofolate synthetase	-5.2
1421161_at	12223	betacellulin, epidermal growth factor family member	-4.9
1438475_at			-4.9
1424014_at	67278	RIKEN cDNA 2900092E17 gene	-4.6
1426669_at	223978	RIKEN cDNA C530044N13 gene	-4.4
1438483_at			-4.3
1415977_at	71780	myo-inositol 1-phosphate synthase A1	-4.2
1439296_at	18824	Proteolipid protein 2	-4.2
1450396_at	20843	stromal antigen 2	-4.2
1428903_at	73172	RIKEN cDNA 3110037I16 gene	-4.2
1422853_at	20416	src homology 2 domain-containing transforming protein C1	-4.0
1451560_at	233210	cDNA sequence BC058674	-4.0
1426873_s_at	16480	junction plakoglobin	-3.8
1433639_at	215512	RIKEN cDNA 5730593F17 gene	-3.7
1425580_a_at	225326	phosphoinositide-3-kinase, class 3	-3.7
1416558_at	17279	maternal embryonic leucine zipper kinase	-3.7
1460241_a_at	20454	ST3 beta-galactoside alpha-2,3-sialyltransferase 5	-3.6
1434787_at	105930	expressed sequence AI854770	-3.6
1416319_at	11534	adenosine kinase	-3.4
1422499_at	65970	DNA segment, Chr 15, ERATO Doi 366, expressed	-3.4
1448300_at	66447	microsomal glutathione S-transferase 3	-3.4
1434119_at	227695	DNA segment, Chr 2, Wayne State University 81, expressed	-3.4
1421546_a_at	26934	Rac GTPase-activating protein 1	-3.3
1416125_at	14229	FK506 binding protein 5	-3.3
1416897_at	80285	poly (ADP-ribose) polymerase family, member 9	-3.3
1449207_a_at	19348	kinesin family member 20A	-3.2
1416028_a_at	15374	hematological and neurological expressed sequence 1	-3.2
1423946_at	213019	PDZ and LIM domain 2	-3.2
1423246_at	76299	thioredoxin domain containing 4 (endoplasmic reticulum)	-3.2
1417427_at	68209	RIKEN cDNA 1500026D16 gene	-3.2
1448619_at	13360	7-dehydrocholesterol reductase	-3.2
1423493_a_at	18032	nuclear factor I/X	-3.2
1423813_at	110033	kinesin family member 22	-3.2
1451835_at	223227	SRY-box containing gene 21	-3.1
1453229_s_at	66576	ubiquinol-cytochrome c reductase hinge protein	-3.1
1435630_s_at	110460	acetyl-Coenzyme A acetyltransferase 2	-3.1
1422525_at	11958	ATP synthase, H+ transporting, mitochondrial F1F0 complex, subunit e	-3.0
1425804_at	15372	H6 homeo box 2	-3.0
1428819_at	13589	microtubule-associated protein, RP/EB family, member 1	-3.0
1428296_at	66491	polymerase (RNA) II (DNA directed) polypeptide L	-3.0
1421824_at	23821	beta-site APP cleaving enzyme 1	-3.0
1422653_at	68121	RIKEN cDNA C030018L16 gene	-3.0
1448095_at		Transcribed locus	-3.0
1420619_a_at	14797	amino-terminal enhancer of split	-2.9
1424882_a_at	70021	RIKEN cDNA 2510015F01 gene	-2.9
1455381_at	320675	RIKEN cDNA 4921513D23 gene	-2.9
1422513_at	12449	cyclin F	-2.9
1416429_a_at	12359	catalase	-2.9
1417403_at	170439	ELOVL family member 6, elongation of long chain fatty acids (yeast)	-2.9
1448609_at	22117	thiosulfate sulfurtransferase, mitochondrial	-2.8
1431081_a_at	70310	phospholipid scramblase 3	-2.8

1438868_at	219132 DNA segment, Chr 14, ERATO Doi 668, expressed	-2.7
1426297_at	21423 transcription factor E2a	-2.7
1416079_a_at	56443 actin related protein 2/3 complex, subunit 1A	-2.7
1434911_s_at	71085 Rho GTPase activating protein 19	-2.7
1416555_at	13663 etoposide induced 2.4 mRNA	-2.7
1418300_a_at	17347 MAP kinase-interacting serine/threonine kinase 2	-2.7
1450627_at	11732 progressive ankylosis	-2.7
1416410_at	18476 platelet-activating factor acetylhydrolase, isoform 1b, alpha1 subunit	-2.7
1430640_a_at	19088 protein kinase, cAMP dependent regulatory, type II beta	-2.7
1453380_a_at	68876 RIKEN cDNA 2410012H02 gene	-2.7
1416076_at	12429 /// cyclin B1, related sequence 1 /// cyclin B1 /// similar to G2/mitotic-specific cyclin B1	-2.6
	268697 ///	
	434175	
1416664_at	107995 cell division cycle 20 homolog (S. cerevisiae)	-2.6
1426146_a_at	212862 choline phosphotransferase 1	-2.6
1449125_at	66443 tumor necrosis factor, alpha-induced protein 8-like 1	-2.6
1417419_at	12443 cyclin D1	-2.6
1448943_at	18186 neuropilin 1	-2.6
1422459_a_at	23997 proteasome (prosome, macropain) 26S subunit, non-ATPase, 13	-2.5
1451209_at	71949 longevity assurance homolog 5 (S. cerevisiae)	-2.5
1428451_at	72946 leucine rich repeat containing 47	-2.5
1419943_s_at	268697 cyclin B1	-2.5
1423648_at	71853 protein disulfide isomerase associated 6	-2.5
1416127_a_at	13437 aspartyl aminopeptidase	-2.4
1452587_at	66713 ARP2 actin-related protein 2 homolog (yeast)	-2.4
1422676_at	57376 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1	-2.4
1419976_s_at	18021 nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3	-2.4
1422184_a_at	11636 adenylate kinase 1	-2.2