

Additional Table 4 KEGG pathway enrichment in RIP vs. IR group

#Term	ID	Input number	Background	P-Value	Corrected P-Value	Input	KO	Entrez_ID	KO_name	Hyperlink						
Metabolic pathways	rno01100	47	1295	0.0015303	0.3060557	ENSRNO	rno:171053	171053 29	Pank4,	http://www						
						G0000001	rno:29685	6851 3626	Fang1 Pon	.genome.jp						
						4044 ENS	1 rno:3626	76 362757	2 Fam213b	/kegg-						
						RNOG000	76 rno:362	83615 315	,	bin/show_p						
						00009112	757 rno:83	722 68870	RGD13082	athway?rno						
						ENSRNO	615 rno:31	5 298653 3	51 Rdh11	01100/rno:						
						G0000001	5722 rno:6	12086 687	Atp6ap1,	315722%0						
						3468 ENS	88705 rno:	071 68775	Atp6s1,	9red/rno:3						
						RNOG000	298653 rno:	8 316421 8	C7-	62756%09						
						00054770	:312086 rn	5242 2906	1 Adpgk,	red/rno:36						
						ENSRNO	o:687071 r	51 300757	RGD13061	2757%09re						
						G0000005	no:687758	687266 59	03 Dgki,	d/rno:2566						
						4352 ENS	rno:316421	294 40776	rDGKi-	8%09red/r						
						RNOG000	rno:85242	5 407764 2	3 Nmnat1 P	no:362657						
						00026178	rno:290651	9215 2552	on3 Etnpp1	%09red/rn						
						ENSRNO	rno:30075	6 541589 3	Pip5k11 Ao	o:688705%						
						G0000002	7 rno:6872	62756 256	x2, Aox2p,	09red/rno:						
						6705 ENS	66 rno:592	68 25244 2	Aox311 Pol	83615%09						
						RNOG000	94 rno:407	4849 8150	a2 Isyna1	red/rno:29						
						00015962	765 rno:40	6 29411 24	Hexa Fpgs	6564%09re						
						ENSRNO	7764 rno:2	6211 2996	Pold1 St6g	d/rno:1710						
						G0000000	9215 rno:2	43 24183 1	alnac6,	53%09red/						
						9096 ENS	5526 rno:5	71086 315	Siat7F St6g	rno:81506						
						RNOG000	41589 rno:	150 30844	alnac4,	%09red/rn						
						00045743	362756 rno:	5 308451 5	siat7D Arg	o:299643%						
						ENSRNO	:25668 rno:	00972 840	2 Ptgds,	09red/rno:						
						G0000004	25244 rno:	24 362657	PH2DISO	312086%0						
						8676 ENS	24849 rno:	24334 314	Kat3,	9red/rno:2						
						RNOG000	81506 rno:	264 36107	Ccb12 Pigh	98653%09						
						00033923	29411 rno:	6 684509 3	Cd38,	red/rno:29						
						ENSRNO	246211 rno:	62586 296	ADPRC_1	6360%09re						
						G0000002	:299643 rn	564 29636	Bckdha,	d/rno:8402						
						Nicotinate and nicotinamide metabolism	rno00760	4	29	0.0059652	0.4656189	ENSRNO	rno:81506	81506 316	Bst1 Aox2,	http://www
												G0000000	rno:316421	421 25668	Aox2p,	.genome.jp
												3064 ENS	rno:25668	298653	Aox311 Cd	/kegg-
												RNOG000	rno:298653		38,	bin/show_p
												00033923			ADPRC_1	athway?rno
												ENSRNO			Nmnat1	00760/rno:
												G0000000				298653%0
												3069 ENS				9red/rno:8
												RNOG000				1506%09re
												00015962				d/rno:3164
																21%09red/
																rno:25668
						Glycosphingolipid biosynthesis - gangliosid series	rno00604	3	15	0.0069843	0.4656189	ENSRNO	rno:407764	407764 30	St6galnac4	http://www
												G0000004	rno:30075	0757 4077	,	.genome.jp
												8870 ENS	7 rno:4077	65	siat7D Hex	/kegg-
RNOG000	65		a St6galnac	bin/show_p												
00010252			6, Siat7F	athway?rno												
ENSRNO				00604/rno:												
G0000004	6984			300757%0												
									9red/rno:4							
									07765%09							
									red/rno:40							
									7764%09re							

Spliceosome	rno03040	8	140	0.0180418	0.5734278	ENSRNO G00000007921 ENSRNO RNOG00000012157 ENSRNO G00000001501 ENSRNO RNOG00000019552 ENSRNO G00000003495 ENSRNO RNOG00000007766 ENSRNO G00000009349 ENS	rno:116655 116655 29 rno:29612 6126 2927 6 rno:2927 29 362829 29 rno:362 287530 30 829 rno:28 2557 2996 7530 rno:3 20 298508 02557 rno:299620 rno:298508	Hnrnpm, Hnrpm, Hnrpm4 Sn	http://www.genome.jp/kegg-bin/show_pathway?rno=03040/rno:299620%09red/rno:362829%09red/rno:292729%09red/rno:296126%09red/rno:298508%09red/rno:287530%0
Vasopressin-regulated water reabsorption	rno04962	4	42	0.0189818	0.5734278	ENSRNO G00000002826 ENSRNO RNOG00000007648 ENSRNO G00000009781 ENSRNO RNOG00000019302	rno:362339 362339 79 rno:79434 434 11665 rno:116659 9 81803 81803	Creb3l2, Ra69, SCIRR69	http://www.genome.jp/kegg-bin/show_pathway?rno=04962/rno:81803%09red/rno:362339%09red/rno:116659%09red/rno:79434
Inositol phosphate metabolism	rno00562	5	66	0.0210267	0.5734278	ENSRNO G00000000669 ENSRNO RNOG00000016846 ENSRNO G00000009741 ENSRNO RNOG00000048676 ENSRNO G00000003945 ENS	rno:24849 24849 366 rno:366508 508 29065 rno:29065 1 687758 3 rno:6877 08451 58 rno:308 451	Tpi1, Tpi Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno=00562/rno:366508%09red/rno:290651%09red/rno:308451%09red/rno:687758%09red/rno:24849
Glycerophospholipid metabolism	rno00564	6	92	0.0223657	0.5734278	ENSRNO G00000004402 ENSRNO RNOG00000010065 ENSRNO G00000006705 ENSRNO RNOG000000061050 ENSRNO G00000003023 ENSRNO RNOG00000045743 ENS	rno:679692 679692 36 rno:36107 1076 6887 6 rno:6887 05 313997 05 rno:313 363521 68 997 rno:36 7071 3521 rno:6 87071	Lpgat1 Dgkh, RGD15619 55 Dgki, rDGKi-3 Mboat2, Oact2 Taz Etnppl	http://www.genome.jp/kegg-bin/show_pathway?rno=00564/rno:313997%09red/rno:679692%09red/rno:361076%09red/rno:687071%09red/rn

Ribosome	rno03010	9	178	0.0246921	0.5734278	ENSRNO G0000003 2777 ENS RNOG000 00019974 ENSRNO G0000001 6387 ENS RNOG000 00048003 ENSRNO G0000001 8647 ENS RNOG000 00047992 ENSRNO G0000004 2886 ENS	rno:287417 rno:64156 rno:362041 rno:79449 rno:680747 rno:79449 rno:691531 rno:29659 rno:8176	287417 64 156 36204 1 79449 68 0747 7944 9 691531 2 96596 817 64 4	Rpl26 Uba 52, Rps27a, Ubb Rp134, Rp134 Rp 121 Mrp120 Rp121 Rps 28 Rp17a R pl10	http://www .genome.jp /kegg- bin/show_p athway?rno 03010/rno: 287417%0 9red/rno:7 9449%09re d/rno:6415 6%09red/r no:691531 %09red/rn o:287417% 09red/rno: 362041%0 9red/rno:8 1764%09re
Glycosylph osphatidyli nositol(GP I)-anchor biosynthesi s	rno00563	3	26	0.0261216	0.5734278	ENSRNO G0000001 4690 ENS RNOG000 00049110 ENSRNO G0000001 0914	rno:296360 rno:29640 rno:362756 6	296360 29 640 36275 6	Pigt Dpm2 Pigh	http://www .genome.jp /kegg- bin/show_p athway?rno 00563/rno: 296360%0 9red/rno:3 62756%09 red/rno:29 640%09red
Compleme nt and coagulatio n cascades	rno04610	5	72	0.0286714	0.5734278	ENSRNO G0000001 3736 ENS RNOG000 00028701 ENSRNO G0000001 0935 ENS RNOG000 00011800 ENSRNO G0000000 5039	rno:117512 rno:29654 5 rno:1139 36 25584 2 36 rno:255 84 rno:294 36	117512 29 6545 1139 36 25584 2 9436	C9 C8g Cp b2 F3 Tfpi	http://www .genome.jp /kegg- bin/show_p athway?rno 04610/rno: 113936%0 9red/rno:2 96545%09 red/rno:11 7512%09re d/rno:2558 4%09red/r no:29436%
Notch signaling pathway	rno04330	4	51	0.0339832	0.6178766	ENSRNO G0000002 6295 ENS RNOG000 00020867 ENSRNO G0000001 3850 ENS RNOG000 00019423	rno:362268 rno:29273 2 rno:7922 5 rno:8372 1	362268 29 2732 7922 5 83721	Rbpjl, Rbpsuhl N umb Hes5 Dvl1, dvl- 1	http://www .genome.jp /kegg- bin/show_p athway?rno 04330/rno: 362268%0 9red/rno:7 9225%09re d/rno:2927 32%09red/ rno:83721
Salmonella infection	rno05132	5	81	0.043083	0.6510606	ENSRNO G0000001 1317 ENS RNOG000 00003784 ENSRNO G0000002 0393 ENS RNOG000 00054890 ENSRNO G0000000 9781	rno:207122 rno:28753 1 rno:3088 75 293860 75 rno:293 860 rno:11 6659	207122 28 7531 3088 75 293860 116659	Pkn2, Pak- 2, Prkc12 Rilp Rhog, Arhg Flna, RGD15606 14 Dync1i2 , Dnci2, Dncic2	http://www .genome.jp /kegg- bin/show_p athway?rno 05132/rno: 293860%0 9red/rno:2 07122%09 red/rno:30 8875%09re d/rno:1166 59%09red/ rno:287531

TGF-beta signaling pathway	rno04350	5	82	0.0449094	0.6510606	ENSRNO G0000000 0556 ENS RNOG000 00020652 ENSRNO G0000001 9377 ENS RNOG000 00033209 ENSRNO G0000000 7237	rno:294503 rno:59086 rno:25378 rno:679119 rno:25587	294503 59 086 25378 679119 25 587	Nodal Tgfb1, Tgfb Amh, MIS Bmp8 b Id2, Ac2- 300	http://www .genome.jp /kegg- bin/show_p athway?rno 04350/rno: 679119%0 9red/rno:5 9086%09re d/rno:2537 8%09red/r no:294503 %09red/rn
SNARE interactions in vesicular transport	rno04130	3	33	0.0455742	0.6510606	ENSRNO G0000006 0436 ENS RNOG000 00019193 ENSRNO G0000001 9302	rno:100359 512 rno:24 923 rno:81 803	100359512 24923 818 03	Vti1b Stx1 b, Stx1b2, Stx2 Stx4, Stx4a	http://www .genome.jp /kegg- bin/show_p athway?rno 04130/rno: 81803%09 red/rno:24 923%09red /rno:10035 9512%09re
Hippo signaling pathway	rno04390	7	157	0.0747148	0.9094212	ENSRNO G0000001 9423 ENS RNOG000 00007237 ENSRNO G0000003 3209 ENS RNOG000 00019377 ENSRNO G0000001 4916 ENS RNOG000 00020652 ENSRNO G0000001 4916 ENS RNOG000 00020652 ENSRNO G0000001 4916 ENS RNOG000 00020652	rno:83721 rno:25587 rno:679119 rno:25378 rno:308265 rno:59086 rno:25578	83721 255 87 679119 25378 308 265 59086 25578	Dvl1, dvl- 1 Id2, Ac2- 300 Bmp8b Amh, MIS Lats1, RGD15640 85 Tgfb1, Tgfb Ywha z, 14-3-3z	http://www .genome.jp /kegg- bin/show_p athway?rno 04390/rno: 25578%09 red/rno:25 587%09red /rno:59086 %09red/rn o:679119% 09red/rno: 25378%09 red/rno:83 721%09red
Cell cycle	rno04110	6	127	0.0773008	0.9094212	ENSRNO G0000002 9885 ENS RNOG000 00019822 ENSRNO G0000001 2558 ENS RNOG000 00018296 ENSRNO G0000002 0652 ENS RNOG000 00008195	rno:313304 rno:29962 6 rno:3014 30 rno:361 389 rno:59 086 rno:25 578	313304 29 9626 3014 30 361389 59086 255 78	Stag2, RGD15620 42 Gadd45 b Orc2, Orc2 Anap c10 Tgfb1, Tgfb Ywha z, 14-3-3z	http://www .genome.jp /kegg- bin/show_p athway?rno 04110/rno: 25578%09 red/rno:31 3304%09re d/rno:2996 26%09red/ rno:361389 %09red/rn o:59086%0 9red/rno:3
Lysosome	rno04142	6	127	0.0773008	0.9094212	ENSRNO G0000001 4268 ENS RNOG000 00010252 ENSRNO G0000001 9455 ENS RNOG000 00054352 ENSRNO G0000001 2616 ENS RNOG000 00019854	rno:79248 rno:300757 rno:31074 6 rno:8361 5 rno:2941 1 rno:6057 5	79248 300 757 31074 6 83615 29 411 60575	Abca2, Abc2 Hexa Ap4b1 Atp 6ap1, Atp6s1, C7-1 Ppt1, Ppt Napsa, Kdap	http://www .genome.jp /kegg- bin/show_p athway?rno 04142/rno: 79248%09 red/rno:60 575%09red /rno:83615 %09red/rn o:29411%0 9red/rno:3 10746%09 red/rno:30

AMPK signaling pathway	rno04152	6	130	0.0839655	0.9329495	ENSRNO G0000000 2180 ENS RNOG000 00010728 ENSRNO G0000005 1592 ENS RNOG000 00016846 ENSRNO G0000000 7648 ENS RNOG000 00012826	rno:360937 rno:50114 6 rno:3097 57 366508 57 rno:366 508 rno:79 434 rno:36 2339	360937 50 1146 3097 57 366508 79434 362 339	Tbc1d1 Str adb, Als2cr2, RGD15594 49 Sirt1, Sir2 Pik3cd Rab11b Cr eb3l2, Ra69, SCIRR69	http://www .genome.jp /kegg- bin/show_p athway?rno 04152/rno: 309757%0 9red/rno:3 60937%09 red/rno:50 1146%09re d/rno:3623 39%09red/ rno:366508 %09red/rn
ABC transporters	rno02010	3	46	0.0955433	0.9345916	ENSRNO G0000001 1929 ENS RNOG000 00014268 ENSRNO G0000001 5538	rno:25270 rno:79248 rno:84356	25270 792 48 84356	Abcd3, PMP70, Pxmp1 Ab ca2, Abc2 Abcd 2, ALDR	http://www .genome.jp /kegg- bin/show_p athway?rno 02010/rno: 79248%09 red/rno:25 270%09red /rno:84356
Amoebiasis	rno05146	5	108	0.1082696	0.9345916	ENSRNO G0000001 3736 ENS RNOG000 00028701 ENSRNO G0000005 3811 ENS RNOG000 00016846 ENSRNO G0000002 0652	rno:117512 rno:29654 5 rno:2921 5 366508 5 08 rno:590 86	117512 29 6545 2921 5 366508 5 9086	C9 C8g Ar g2 Pik3cd Tgfb1, Tgfb	http://www .genome.jp /kegg- bin/show_p athway?rno 05146/rno: 296545%0 9red/rno:3 66508%09 red/rno:11 7512%09re d/rno:5908 6%09red/r no:29215%
Hepatitis B	rno05161	6	141	0.1110055	0.9345916	ENSRNO G0000001 2331 ENS RNOG000 00008195 ENSRNO G0000005 4352 ENS RNOG000 00016846 ENSRNO G0000002 0652 ENS RNOG000 00012826	rno:64044 rno:25578 rno:83615 rno:366508 rno:59086 rno:362339 	64044 255 78 83615 3 66508 590 86 362339	Casp8 Ywh az, 14-3- 3z Atp6ap1 , Atp6s1, C7- 1 Pik3cd T gfb1, Tgfb Creb3 l2, Ra69, SCIRR69	http://www .genome.jp /kegg- bin/show_p athway?rno 05161/rno: 25578%09 red/rno:64 044%09red /rno:83615 %09red/rn o:59086%0 9red/rno:3 62339%09 red/rno:36
Non-alcoholic fatty liver disease (NAFLD)	rno04932	7	175	0.113113	0.9345916	ENSRNO G0000001 2331 ENS RNOG000 00016846 ENSRNO G0000000 6238 ENS RNOG000 00050514 ENSRNO G0000000 6939 ENS RNOG000 00004526 ENSRNO G0000002	rno:64044 rno:366508 rno:31178 6 rno:6845 09 rno:299 643 rno:29 8762 rno:5 9086	64044 366 508 31178 6 684509 2 99643 298 762 59086	Casp8 Pik3 cd Traf2 Ndufa7 Co x7a2 Tgfb 1, Tgfb	http://www .genome.jp /kegg- bin/show_p athway?rno 04932/rno: 684509%0 9red/rno:6 4044%09re d/rno:5908 6%09red/r no:299643 %09red/rn o:366508% 09red/rno: 311786%0 9red/rno:2

Retinol metabolism	rno00830	4	80	0.1178042	0.9345916	ENSRNO G0000003 3923 ENS RNOG000 00056553 ENSRNO G0000002 0743 ENS RNOG000 00054770	rno:316421 316421 31 rno:31426 4264 3084 4 rno:3084 45 362757 45 rno:362 757	Aox2, Aox2p, Aox311 Rd h12 Cyp2s 1 Rdh11	http://www .genome.jp /kegg- bin/show_p athway?rno 00830/rno: 316421%0 9red/rno:3 62757%09 red/rno:30 8445%09re d/rno:3142
Phosphatidylinositol signaling system	rno04070	4	81	0.121582	0.9345916	ENSRNO G0000001 3945 ENS RNOG000 00016846 ENSRNO G0000001 0065 ENS RNOG000 00026705	rno:308451 308451 36 rno:36650 6508 3610 8 rno:3610 76 688705 76 rno:688 705	Itpkc Pik3c d Dgkh, RGD15619 55 Dgki, rDGKi-3	http://www .genome.jp /kegg- bin/show_p athway?rno 04070/rno: 688705%0 9red/rno:3 61076%09 red/rno:30 8451%09re d/rno:3665
Peroxisome	rno04146	4	82	0.1254113	0.9345916	ENSRNO G0000002 4012 ENS RNOG000 00011929 ENSRNO G0000001 5538 ENS RNOG000 00008748	rno:680424 680424 25 rno:25270 270 84356 rno:84356 29534 rno:29534	Pex10 Abc d3, PMP70, Pxmp1 Ab cd2, ALDR Pex 2, Pxmp3	http://www .genome.jp /kegg- bin/show_p athway?rno 04146/rno: 680424%0 9red/rno:2 5270%09re d/rno:2953 4%09red/r no:84356%
HIF-1 signaling pathway	rno04066	5	116	0.1335704	0.9345916	ENSRNO G0000004 8365 ENS RNOG000 00016846 ENSRNO G0000000 8176 ENS RNOG000 00020947 ENSRNO G0000003 0625	rno:24334 24334 366 rno:366508 508 24602 rno:24602 308457 24 rno:308457 825 rno:24825	Eno2, NSE, RNEN3 Pi k3cd Nppa, ANF, ANP, Pnd, RATANF Egln2, HIF-PH1, HPH-1, HPH-3, PHD-1, PHD1 Tf, Tfn, Trf	http://www .genome.jp /kegg- bin/show_p athway?rno 04066/rno: 308457%0 9red/rno:3 66508%09 red/rno:24 334%09red /rno:24825 %09red/rn o:24602%0
Apoptosis	rno04210	4	85	0.1371973	0.9345916	ENSRNO G0000001 2331 ENS RNOG000 00006238 ENSRNO G0000000 6967 ENS RNOG000 00016846	rno:64044 64044 311 rno:311786 786 63879 rno:63879 366508 rno:366508 	Casp8 Traf 2 Xiap, Api3, Birc4, riap3 Pik3c d	http://www .genome.jp /kegg- bin/show_p athway?rno 04210/rno: 366508%0 9red/rno:3 11786%09 red/rno:64 044%09red /rno:63879

Glycerolipid metabolism	rno00561	3	56	0.1440508	0.9345916	ENSRNO G0000001 0065 ENS RNOG000 00026705 ENSRNO G0000006 1050	rno:361076 361076 68 rno:68870 8705 3139 5 rno:3139 97 97	Dgkh, RGD15619 55 Dgki, rDGKi- 3 Mboat2, Oact2	http://www .genome.jp /kegg- bin/show_p athway?rno 00561/rno: 313997%0 9red/rno:3 61076%09 red/rno:68 8705%09re
Lysine degradation	rno00310	3	57	0.1492845	0.9345916	ENSRNO G0000005 5028 ENS RNOG000 00032546 ENSRNO G0000000 7763	rno:100359 100359 816 rno:36 362831 11 2831 rno:1 6552 16552	Dot11 Plod 1, Plod	http://www .genome.jp /kegg- bin/show_p athway?rno 00310/rno: 100359816 %09red/rn o:362831% 09red/rno: 116552%0
Toxoplasma osis	rno05145	5	124	0.1612426	0.9345916	ENSRNO G0000001 2331 ENS RNOG000 00020652 ENSRNO G0000001 0558 ENS RNOG000 00006967 ENSRNO G0000001 6846	rno:64044 64044 590 rno:59086 86 282819 rno:282819 63879 366 rno:63879 508 rno:366508 	Casp8 Tgfb 1, Tgfb Ppif, Cyp-D, CypD, PPIase Xia p, Api3, Birc4, riap3 Pik3c d	http://www .genome.jp /kegg- bin/show_p athway?rno 05145/rno: 366508%0 9red/rno:2 82819%09 red/rno:59 086%09red /rno:64044 %09red/rn o:63879%0
Other types of O- glycan biosynthesis	rno00514	2	31	0.1668379	0.9345916	ENSRNO G0000000 7142 ENS RNOG000 00014156	rno:117108 117108 29 rno:29656 6564 4	B3gat1, Hnk- 1 Fut7	http://www .genome.jp /kegg- bin/show_p athway?rno 00514/rno: 117108%0 9red/rno:2 96564%09
Osteoclast differentiation	rno04380	5	126	0.1684982	0.9345916	ENSRNO G0000000 6238 ENS RNOG000 00024382 ENSRNO G0000001 6846 ENS RNOG000 00046452 ENSRNO G0000002 0652	rno:311786 311786 30 rno:30496 4966 3665 6 rno:3665 08 116591 08 rno:116 59086 591 rno:59 086	Traf2 Fcgr 3a, Fcgr4 Pik3 cd Fcgr2a, Fcgr3, Fcgr3a Tgf b1, Tgfb	http://www .genome.jp /kegg- bin/show_p athway?rno 04380/rno: 366508%0 9red/rno:1 16591%09 red/rno:31 1786%09re d/rno:5908 6%09red/r no:304966

Viral carcinogenesis	rno05203	8	234	0.1738443	0.9345916	ENSRNO G0000002 6295 ENSRNO RNOG000 00012331 8 ENSRNO G0000001 2826 ENSRNO RNOG000 00016846 8 ENSRNO G0000001 1135 ENSRNO RNOG000 00006238 8 ENSRNO G0000004 7281 ENSRNO	rno:362268 362268 64 rno:64044 044 36233 rno:362339 9 366508 8 rno:36650 1673 3117 rno:8167 86 100911 rno:3117 205 25578 86 rno:100 911205 rno :25578	Rbpjl, Rbpsuhl Ca sp8 Creb31 2, Ra69, SCIRR69 P ik3cd Gtf2 b Traf2 Ywhaz, 14-3-3z	http://www .genome.jp /kegg- bin/show_p athway?rno 05203/rno: 362268%0 9red/rno:2 5578%09re d/rno:8167 3%09red/r no:64044% 09red/rno: 100911205 %09red/rn o:362339% 09red/rno: 366508%0
RIG-I-like receptor signaling pathway	rno04622	3	62	0.1763107	0.9345916	ENSRNO G0000001 2331 ENSRNO RNOG000 00006238 2 ENSRNO G0000000 8764	rno:64044 64044 311 rno:311786 786 36345 rno:36345 2 2	Casp8 Traf 2 Otud5	http://www .genome.jp /kegg- bin/show_p athway?rno 04622/rno: 363452%0 9red/rno:3 11786%09 red/rno:64 044%09red
Natural killer cell mediated cytotoxicity	rno04650	4	97	0.1883272	0.9345916	ENSRNO G0000001 6846 ENSRNO RNOG000 00024382 91 ENSRNO G0000000 0562 ENSRNO RNOG000 00046452	rno:366508 366508 30 rno:30496 4966 5066 6 rno:5066 9 116591 9 rno:1165 91	Pik3cd Fcgr 3a, Fcgr4 Prf1, Cyta, RATCYT A Fcgr2a, Fcgr3, Fcgr3a	http://www .genome.jp /kegg- bin/show_p athway?rno 04650/rno: 366508%0 9red/rno:1 16591%09 red/rno:50 669%09red /rno:30496
Prion diseases	rno05020	2	36	0.2071729	0.9345916	ENSRNO G0000001 3736 ENSRNO RNOG000 00028701	rno:117512 117512 29 rno:29654 6545 5	C9 C8g	http://www .genome.jp /kegg- bin/show_p athway?rno 05020/rno: 296545%0 9red/rno:1 17512%09
Renal cell carcinoma	rno05211	3	68	0.2103255	0.9345916	ENSRNO G0000002 0652 ENSRNO RNOG000 00020947 8 ENSRNO G0000001 6846	rno:59086 59086 308 rno:308457 457 36650 rno:36650 8 8	Tgfb1, Tgfb Egln2 , HIF-PH1, HPH-1, HPH-3, PHD-1, PHD1 Pik3 cd	http://www .genome.jp /kegg- bin/show_p athway?rno 05211/rno: 308457%0 9red/rno:3 66508%09 red/rno:59 086%09red
Vitamin B6 metabolism	rno00750	1	10	0.2194407	0.9345916	ENSRNO G0000003 3923	rno:316421 316421	Aox2, Aox2p, Aox311	http://www .genome.jp /kegg- bin/show_p athway?rno 00750/rno: 316421%0

DNA replication	rno03030	2	38	0.2235895	0.9345916	ENSRNO G0000001 9681 ENS RNOG000 00020906	rno:59294 rno:85242	59294 852 42	Pold1 Pola 2	http://www .genome.jp /kegg- bin/show_p athway?rno 03030/rno: 59294%09 red/rno:85 242%09red
Leishmaniasis	rno05140	3	73	0.2396655	0.9345916	ENSRNO G0000002 0652 ENS RNOG000 00024382 ENSRNO G0000004 6452	rno:59086 rno:304966 rno:11659 1	59086 304 966 11659 1	Tgfb1, Tgfb Fcgr3 a, Fcgr4 Fcgr 2a, Fcgr3, Fcgr3a	http://www .genome.jp /kegg- bin/show_p athway?rno 05140/rno: 11659%0 9red/rno:5 9086%09re d/rno:3049
Calcium signaling pathway	rno04020	6	182	0.2425685	0.9345916	ENSRNO G0000000 3069 ENS RNOG000 00039730 ENSRNO G0000002 0425 ENS RNOG000 00013945 ENSRNO G0000001 0558 ENS RNOG000 00007066	rno:25668 rno:309000 rno:36161 8 rno:3084 51 rno:282 819 rno:25 689	25668 309 000 36161 8 308451 2 82819 256 89	Cd38, ADPRC_1 Orai3, RGD13065 38 Stim1 It pkc Ppif, CyP-D, CypD, PPIase Htr 5a, 5HT5A, MR22	http://www .genome.jp /kegg- bin/show_p athway?rno 04020/rno: 25668%09 red/rno:25 689%09red /rno:28281 %09red/r no:309000 %09red/rn o:361618% 09red/rno:
Purine metabolism	rno00230	6	182	0.2425685	0.9345916	ENSRNO G0000002 0906 ENS RNOG000 00011310 ENSRNO G0000001 9681 ENS RNOG000 00013102 ENSRNO G0000004 9056 ENS RNOG000 00018655	rno:85242 rno:63885 rno:59294 rno:64467 rno:24183 rno:315150 	85242 638 85 59294 6 4467 2418 3 315150	Pola2 Pde1 0a, Pde10a3 P old1 Entpd 2, Cd3911, NTPDase2 Ak1, Ak_1 Adsl, null	http://www .genome.jp /kegg- bin/show_p athway?rno 00230/rno: 85242%09 red/rno:24 183%09red /rno:64467 %09red/rn o:315150% 09red/rno: 59294%09 red/rno:63
TNF signaling pathway	rno04668	4	109	0.2444399	0.9345916	ENSRNO G0000001 2331 ENS RNOG000 00006238 ENSRNO G0000001 2826 ENS RNOG000 00016846	rno:64044 rno:311786 rno:36233 9 rno:3665 08	64044 311 786 36233 9 366508	Casp8 Traf 2 Creb3 2, Ra69, SCIRR69 P ik3cd	http://www .genome.jp /kegg- bin/show_p athway?rno 04668/rno: 366508%0 9red/rno:3 62339%09 red/rno:31 1786%09re d/rno:6404
Glycolysis / Gluconeogenesis	rno00010	3	75	0.2515905	0.9345916	ENSRNO G0000005 0669 ENS RNOG000 00048365 ENSRNO G0000002 6178	rno:24849 rno:24334 rno:315722 	24849 243 34 315722	Tpi1, Tpi Eno2, NSE, RNEN3 Ad pgk, RGD13061 03	http://www .genome.jp /kegg- bin/show_p athway?rno 00010/rno: 315722%0 9red/rno:2 4334%09re d/rno:2484

Salivary secretion	rno04970	3	76	0.2575855	0.9345916	ENSRNO G00000034038 ENSRNO RNOG00000003064 ENSRNO G00000003069	rno:170568170568 81 rno:81506 506 25668 rno:25668	Dmbt1, Crpd Bst1 Cd38, ADPRC_1	http://www.genome.jp/kegg-bin/show_pathway?rno04970/rno:81506%09red/rno:25668%09red/rno:17056
Carbohydrate digestion and absorption	rno04973	2	43	0.264955	0.9345916	ENSRNO G00000016846 ENSRNO RNOG00000019589	rno:366508366508 17 rno:170630634 4	Pik3cd Tas1r3, T1r3	http://www.genome.jp/kegg-bin/show_pathway?rno04973/rno:366508%09red/rno:170634%09
Folate biosynthesis	rno00790	1	13	0.2704518	0.9345916	ENSRNO G00000050780	rno:687266687266	Fpgs	http://www.genome.jp/kegg-bin/show_pathway?rno00790/rno:687266%0
Glycosphingolipid biosynthesis - globoseries	rno00603	1	14	0.2867049	0.9345916	ENSRNO G00000010252	rno:300757300757	Hexa	http://www.genome.jp/kegg-bin/show_pathway?rno00603/rno:300757%0
RNA degradation	rno03018	3	81	0.2878089	0.9345916	ENSRNO G00000048365 ENSRNO RNOG00000020635 ENSRNO G00000019552	rno:24334 24334 308 rno:308441441 36282 rno:362829 9	Eno2, NSE, RNEN3 Exosc5 Lsm7	http://www.genome.jp/kegg-bin/show_pathway?rno03018/rno:308441%09red/rno:24334%09red/rno:36282
Tryptophan metabolism	rno00380	2	46	0.2898108	0.9345916	ENSRNO G00000043426 ENSRNO RNOG00000033923	rno:541589541589 31 rno:316426421 1	Kat3, Ccb12 Aox2, Aox2p, Aox311	http://www.genome.jp/kegg-bin/show_pathway?rno00380/rno:316421%09red/rno:541589%09
Oxidative phosphorylation	rno00190	5	157	0.2938099	0.9345916	ENSRNO G00000004526 ENSRNO RNOG00000006939 ENSRNO G00000054352 ENSRNO RNOG00000017097 ENSRNO G00000050514	rno:298762298762 29 rno:299649643 83613 rno:83615 361663 65 rno:361684509 63 rno:684509	Cox7a2 Ndufa7 Atp6ap1, Atp6s1, C7-1 Lhpp	http://www.genome.jp/kegg-bin/show_pathway?rno00190/rno:83615%09red/rno:684509%09red/rno:299643%09red/rno:298762%09red/rno:361663%09

Carbon metabolism	rno01200	4	121	0.303657	0.9345916	ENSRNO G00000050669 ENSRNOG00000048365 ENSRNO G00000026178 ENSRNOG00000008553	rno:24849 24849 24343 315722 362657 362657	Tpi1, Tpi Eno2, NSE, RNEN3 Adpgk, RGD1306103 Mthfr	http://www.genome.jp/kegg-bin/show_pathway?rno01200/rno:315722%09red/rno:24334%09red/rno:362657%09red/rno:24849
Hypertrophic cardiomyopathy (HCM)	rno05410	3	84	0.306076	0.9345916	ENSRNO G00000020652 ENSRNOG00000014603	rno:59086 59086 25437 305941 305941	Tgfb1, Tgfb Emd Sgcg	http://www.genome.jp/kegg-bin/show_pathway?rno05410/rno:25437%09red/rno:59086%09red/rno:30594
Primary bile acid biosynthesis	rno00120	1	16	0.3181347	0.9345916	ENSRNO G00000019080	rno:246211 246211	Hsd3b7, Cca2	http://www.genome.jp/kegg-bin/show_pathway?rno00120/rno:246211%0
N-Glycan biosynthesis	rno00510	2	50	0.3227718	0.9345916	ENSRNO G00000031896 ENSRNOG00000049110	rno:500972 500972 29640 640	Stt3a, Itm1, RGD1565793 Dpm2	http://www.genome.jp/kegg-bin/show_pathway?rno00510/rno:500972%09red/rno:29640%09red/rno:1165
Systemic lupus erythematosus	rno05322	4	126	0.3288197	0.9345916	ENSRNO G00000013736 ENSRNOG00000024382 ENSRNOG00000046452	rno:117512 117512 296546545 304966 116591 591	C9 C8g Fcgrr3a, Fcgr4 Fcgr2a, Fcgr3, Fcgr3a	http://www.genome.jp/kegg-bin/show_pathway?rno05322/rno:296545%09red/rno:117512%09red/rno:304966%09red/rno:1165
Dilated cardiomyopathy	rno05414	3	88	0.3304917	0.9345916	ENSRNO G00000020652 ENSRNOG00000014603	rno:59086 59086 25437 305941 305941	Tgfb1, Tgfb Emd Sgcg	http://www.genome.jp/kegg-bin/show_pathway?rno05414/rno:25437%09red/rno:59086%09red/rno:30594
Biosynthesis of amino acids	rno01230	3	88	0.3304917	0.9345916	ENSRNO G00000050669 ENSRNOG00000048365 ENSRNOG00000053811	rno:24849 24849 24343 29215 29215	Tpi1, Tpi Eno2, NSE, RNEN3 Arg2	http://www.genome.jp/kegg-bin/show_pathway?rno01230/rno:24334%09red/rno:29215%09red/rno:24849

Pantothenate and CoA biosynthesis	rno00770	1	17	0.3333272	0.9345916	ENSRNO G0000001 4044	rno:171053 171053	Pank4, Fang1	http://www.genome.jp/kegg-bin/show_pathway?rno00770/rno:171053%0
Small cell lung cancer	rno05222	3	89	0.3365955	0.9345916	ENSRNO G0000000 6238 ENSRNO G0000001 6846	rno:311786 311786 63 879 366508 8	Traf2 Xiap, Api3, Birc4, riap3 Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno05222/rno:366508%09red/rno:311786%09red/rno:63879%09red
NF-kappa B signaling pathway	rno04064	3	89	0.3365955	0.9345916	ENSRNO G0000000 6238 ENSRNO G0000000 00019822 ENSRNO G0000000 6967	rno:311786 311786 29 9626 6387 9	Traf2 Gadd45b Xiap, Api3, Birc4, riap3	http://www.genome.jp/kegg-bin/show_pathway?rno04064/rno:299626%09red/rno:311786%09red/rno:63879%09red
Valine, leucine and isoleucine degradation	rno00280	2	52	0.3391144	0.9345916	ENSRNO G0000003 3923 ENSRNO G00020607	rno:316421 316421 25 244	Aox2, Aox2p, Aox311 Bckdha, BCKDA, E1a	http://www.genome.jp/kegg-bin/show_pathway?rno00280/rno:316421%09red/rno:25244%09red
Other glycan degradation	rno00511	1	18	0.3481819	0.9345916	ENSRNO G0000001 0252	rno:300757 300757	Hexa	http://www.genome.jp/kegg-bin/show_pathway?rno00511/rno:300757%0
Selenocompound metabolism	rno00450	1	18	0.3481819	0.9345916	ENSRNO G0000004 3426	rno:541589 541589	Kat3, Ccb12	http://www.genome.jp/kegg-bin/show_pathway?rno00450/rno:541589%0
cGMP-PKG signaling pathway	rno04022	5	171	0.3550546	0.9345916	ENSRNO G0000001 0558 ENSRNO G00016846 ENSRNO G0000001 2826 ENSRNO G00008141 ENSRNO G0000001 3887	rno:282819 282819 36 6508 3623 39 25105 2 4174 05 rno:241 74	Ppif, CyPD, CypD, PPIase Pik3cd Creb3l2, Ra69, SCIRR69 Nppb, BNP, Bnf Adra2b	http://www.genome.jp/kegg-bin/show_pathway?rno04022/rno:366508%09red/rno:362339%09red/rno:25105%09red/rno:24174%09red/rno:282819%

Staphylococcus aureus infection	rno05150	2	54	0.3553336	0.9345916	ENSRNO G00000046452 ENSRNOG00000024382	rno:116591 116591 306	Fcgr2a, Fcgr3, Fcgr3a Fcgr3a, Fcgr4	http://www.genome.jp/kegg-bin/show_pathway?rno05150/rno:116591%09red/rno:304964966%09
Viral myocarditis	rno05416	3	93	0.360966	0.9345916	ENSRNO G00000012331 ENSRNOG00000014603 ENSRNOG0000000562	rno:64044 64044 3056	Casp8 Sgcl Prfl, Cyta, RATCYT A	http://www.genome.jp/kegg-bin/show_pathway?rno05416/rno:305941941 50669
Huntington's disease	rno05016	6	213	0.3619797	0.9345916	ENSRNO G00000012331 ENSRNOG0000000010558 ENSRNOG0000000514 ENSRNOG000000006939 ENSRNOG00000004526 ENSRNOG0000000012826	rno:64044 64044 2826	Casp8 Ppif, CyP-D, CypD, PPIase Ndufa7 Cox7a2 Creb3l2, Ra69, SCIRR69	http://www.genome.jp/kegg-bin/show_pathway?rno05016/rno:282819819 684509 299643 299643
One carbon pool by folate	rno00670	1	19	0.3627061	0.9345916	ENSRNO G00000008553	rno:362657 362657	Mthfr	http://www.genome.jp/kegg-bin/show_pathway?rno00670/rno:362657%0
Cytokine-cytokine receptor interaction	rno04060	6	215	0.3699066	0.9345916	ENSRNO G00000018962 ENSRNOG0000000013820 ENSRNOG00000003214 ENSRNOG0000000019377 ENSRNOG00000005075 ENSRNOG00000000020652	rno:29201 29201 3666	Ctfl Tnfrsf14 Il20rb, IL20R2, RGD1566151 Amh, MIS Relt, Tnfrsf19 Tgfb1, Tgfb	http://www.genome.jp/kegg-bin/show_pathway?rno04060/rno:29201%09red/rno:366518518 501043 25378 3625378 361615 59086
Non-small cell lung cancer	rno05223	2	56	0.3714086	0.9345916	ENSRNO G00000016846 ENSRNOG0000000030294	rno:366508 366508 311	Pik3cd Eml4	http://www.genome.jp/kegg-bin/show_pathway?rno05223/rno:366508%09red/rno:313863861

Signaling pathways regulating pluripotency of stem cells	rno04550	4	143	0.4145551	0.9345916	ENSRNO G0000000 0556 ENS RNOG000 00016846 ENSRNO G0000000 7237 ENS RNOG000 00019423	rno:294503 294503 36 rno:36650 6508 2558 8 rno:2558 7 83721 7 rno:8372 1	Nodal Pik3 cd Id2, Ac2- 300 Dvl1, dvl-1	http://www.genome.jp/kegg-bin/show_pathway?rno04550/rno:83721%09red/rno:25587%09red/rno:294503%09red/rno:366508
Mismatch repair	rno03430	1	23	0.417643	0.9345916	ENSRNO G0000001 9681	rno:59294 59294	Pold1	http://www.genome.jp/kegg-bin/show_pathway?rno03430/rno:59294%09
Epstein-Barr virus infection	rno05169	6	229	0.4253949	0.9345916	ENSRNO G0000002 6295 ENS RNOG000 00003069 ENSRNO G0000001 6846 ENS RNOG000 00011135 ENSRNO G0000000 6238 ENS RNOG000 00008195	rno:362268 362268 25 rno:25668 668 36650 rno:366508 8 81673 31 rno:81673 1786 2557 rno:311786 8 rno:25578	Rbpjl, Rbpsuhl C d38, ADPRC_1 Pik3cd Gtf 2b Traf2 Y whaz, 14- 3-3z	http://www.genome.jp/kegg-bin/show_pathway?rno05169/rno:362268%09red/rno:25668%09red/rno:81673%09red/rno:366508%09red/rno:3
Chagas disease (American trypanosomiasis)	rno05142	3	104	0.427031	0.9345916	ENSRNO G0000001 2331 ENS RNOG000 00020652 ENSRNO G0000001 6846	rno:64044 64044 590 rno:59086 86 366508 rno:366508	Casp8 Tgfb 1, Tgfb Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno05142/rno:366508%09red/rno:59086%09red/rno:6404
Pancreatic cancer	rno05212	2	65	0.4415022	0.9345916	ENSRNO G0000002 0652 ENS RNOG000 00016846	rno:59086 59086 366 rno:366508 508	Tgfb1, Tgfb Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno05212/rno:366508%09red/rno:59086%09red/rno:6404
Amphetamine addiction	rno05031	2	65	0.4415022	0.9345916	ENSRNO G0000005 1592 ENS RNOG000 00012826	rno:309757 309757 36 rno:36233 2339 9	Sirt1, Sir2 Creb3l 2, Ra69, SCIRR69	http://www.genome.jp/kegg-bin/show_pathway?rno05031/rno:362339%09red/rno:309757%09
Oocyte meiosis	rno04114	3	109	0.4562916	0.9345916	ENSRNO G0000002 2499 ENS RNOG000 00008195 ENSRNO G0000001 8296	rno:363174 363174 25 rno:25578 578 36138 rno:361389 9	Sgoll Ywh az, 14-3- 3z Anapc1 0	http://www.genome.jp/kegg-bin/show_pathway?rno04114/rno:25578%09red/rno:363174%09red/rno:3613

Glycosphingolipid biosynthesis - lacto and neolactoseries	rno00601	1	28	0.4797135	0.9345916	ENSRNO G0000001 4156	rno:296564 296564	Fut7	http://www.genome.jp/kegg-bin/show_pathway?rno00601/rno:296564%0
Alzheimer's disease	rno05010	5	200	0.4817154	0.9345916	ENSRNO G0000001 2331 ENSRNO RNOG000 00004526 ENSRNO G0000000 6939 ENSRNO RNOG000 00024632 ENSRNO G0000005 0514	rno:64044 64044 298 rno:298762 762 29964 3 304962 6 3 rno:3049 84509 62 rno:684 509	Casp8 Cox 7a2 Ndufa 7 Atf6	http://www.genome.jp/kegg-bin/show_pathway?rno05010/rno:304962%09red/rno:684509%09red/rno:299643%09red/rno:298762%09red/rno:64044
Endocytosis	rno04144	6	245	0.4878414	0.9345916	ENSRNO G0000002 2307 ENSRNO RNOG000 00001190 ENSRNO G0000002 8930 ENSRNO RNOG000 00007648 ENSRNO G0000002 0652 ENSRNO RNOG000 00048676	rno:313772 313772 30 rno:30454 4546 7912 6 rno:7912 8 79434 59 8 rno:7943 086 68775 4 rno:5908 8 6 rno:6877 58	Acap3, Centb5 Git 2 Dab2, Doc-2, Doc2 Rab1 1b Tgfb1, Tgfb Pip5k 1	http://www.genome.jp/kegg-bin/show_pathway?rno04144/rno:304546%09red/rno:313772%09red/rno:59086%09red/rno:687758%09red/rno:79128%09red/rno:
Propanoate metabolism	rno00640	1	29	0.4913114	0.9345916	ENSRNO G0000001 1622	rno:361465 361465	Echdc1, MMCD	http://www.genome.jp/kegg-bin/show_pathway?rno00640/rno:361465%0
HTLV-I infection	rno05166	7	292	0.4998621	0.9345916	ENSRNO G0000001 9423 ENSRNO RNOG000 00019681 ENSRNO G0000002 2421 ENSRNO RNOG000 00016846 ENSRNO G0000001 8296 ENSRNO RNOG000 00020652 ENSRNO	rno:83721 83721 592 rno:59294 94 684527 rno:684527 366508 36 rno:36650 1389 5908 8 rno:3613 6 63879 89 rno:590 86 rno:638 79	Dvl1, dvl-1 Pold1 Crt c1, Mect1, TORC-1 Pik3cd A napc10 Tgfb1, Tgfb Xiap, Api3, Birc4, riap3	http://www.genome.jp/kegg-bin/show_pathway?rno05166/rno:361389%09red/rno:63879%09red/rno:59083879%09red/rno:59294%09red/rno:366508%09red/rno:83721%09re
Arrhythmic right ventricular cardiomyopathy (ARVC)	rno05412	2	74	0.507078	0.9345916	ENSRNO G0000005 8882 ENSRNO RNOG000 00014603	rno:25437 25437 305 rno:305941 941	Emd Sgcg	http://www.genome.jp/kegg-bin/show_pathway?rno05412/rno:25437%09red/rno:305941%09re

Regulation of autophagy	rno04140	1	34	0.545542	0.9345916	ENSRNO G0000001 1873	rno:305831 305831	Atg14, Atg14L, RGD1304610	http://www.genome.jp/kegg-bin/show_pathway?rno04140/rno:305831%0
Alanine, aspartate and glutamate metabolism	rno00250	1	35	0.5556748	0.9345916	ENSRNO G0000001 8655	rno:315150 315150	Adsl, null	http://www.genome.jp/kegg-bin/show_pathway?rno00250/rno:315150%0
Tyrosine metabolism	rno00350	1	37	0.5752688	0.9345916	ENSRNO G0000003 3923	rno:316421 316421	Aox2, Aox2p, Aox311	http://www.genome.jp/kegg-bin/show_pathway?rno00350/rno:316421%0
Progesterone-mediated oocyte maturation	rno04914	2	86	0.586331	0.9345916	ENSRNO G0000001 6846 ENSRNOG00000018296	rno:366508 366508 36 rno:36138 1389 9	Pik3cd Anapc10	http://www.genome.jp/kegg-bin/show_pathway?rno04914/rno:366508%09red/rno:361389%09
Rheumatoid arthritis	rno05323	2	87	0.5924931	0.9345916	ENSRNO G0000002 0652 ENSRNOG00000054352	rno:59086 59086 836 rno:83615 15	Tgfb1, Tgfb Atp6ap1, Atp6s1, C7-1	http://www.genome.jp/kegg-bin/show_pathway?rno05323/rno:83615%09red/rno:59086%09red
Ubiquitin mediated proteolysis	rno04120	3	135	0.5961704	0.9345916	ENSRNO G0000001 8296 ENSRNOG00000061040 ENSRNO G0000000 6967	rno:361389 361389 30 rno:30975 9758 6387 rno:6387 9	Anapc10 Herc4 Xiap, Api3, Birc4, riap3	http://www.genome.jp/kegg-bin/show_pathway?rno04120/rno:361389%09red/rno:309758%09red/rno:63879%09red
Fructose and mannose metabolism	rno00051	1	40	0.6030543	0.9345916	ENSRNO G0000005 0669	rno:24849 24849	Tpi1, Tpi	http://www.genome.jp/kegg-bin/show_pathway?rno00051/rno:24849%09
Base excision repair	rno03410	1	40	0.6030543	0.9345916	ENSRNO G0000001 9681	rno:59294 59294	Pold1	http://www.genome.jp/kegg-bin/show_pathway?rno03410/rno:59294%09

Prostate cancer	rno05215	2	89	0.6046111	0.9345916	ENSRNO G0000001 6846 ENS RNOG000 00012826	rno:366508 366508 36 rno:36233 2339 9	Pik3cd Cre b3l2, Ra69, SCIRR69	http://www .genome.jp /kegg- bin/show_p athway?rno 05215/rno: 366508%0 9red/rno:3 62339%09
ErbB signaling pathway	rno04012	2	90	0.610567	0.9345916	ENSRNO G0000001 4917 ENS RNOG000 00016846	rno:300955 300955 36 rno:36650 6508 8	Nck1 Pik3c d	http://www .genome.jp /kegg- bin/show_p athway?rno 04012/rno: 366508%0 9red/rno:3 00955%09
GABAergic synapse	rno04727	2	90	0.610567	0.9345916	ENSRNO G0000001 0881 ENS RNOG000 00019857	rno:171086 171086 58 rno:58979 979	Trak2, Als2cr3, GRIF- 1 Gng7	http://www .genome.jp /kegg- bin/show_p athway?rno 04727/rno: 171086%0 9red/rno:5 8979%09re
Protein digestion and absorption	rno04974	2	90	0.610567	0.9345916	ENSRNO G0000001 1022 ENS RNOG000 00010935	rno:25684 25684 113 rno:113936 936 	Mep1a Cpb 2	http://www .genome.jp /kegg- bin/show_p athway?rno 04974/rno: 113936%0 9red/rno:2 5684%09re
Aldosterone-regulated sodium reabsorption	rno04960	1	41	0.6119068	0.9345916	ENSRNO G0000001 6846	rno:366508 366508 	Pik3cd	http://www .genome.jp /kegg- bin/show_p athway?rno 04960/rno: 366508%0 9red/rno:3 66508%09
Fc gamma R-mediated phagocytosis	rno04666	2	91	0.6164542	0.9345916	ENSRNO G0000001 6846 ENS RNOG000 00046452	rno:366508 366508 11 rno:11659 6591 1	Pik3cd Fcg r2a, Fcgr3, Fcgr3a	http://www .genome.jp /kegg- bin/show_p athway?rno 04666/rno: 366508%0 9red/rno:1 16591%09
Morphine addiction	rno05032	2	92	0.622273	0.9345916	ENSRNO G0000001 1310 ENS RNOG000 00019857	rno:63885 63885 589 rno:58979 79	Pde10a, Pde10a3 G ng7	http://www .genome.jp /kegg- bin/show_p athway?rno 05032/rno: 63885%09 red/rno:58 979%09red

Pathways in cancer	rno05200	7	329	0.6229235	0.9345916	ENSRNO G0000001 2331 ENS RNOG000 00016846 ENSRNO G0000001 9423 ENS RNOG000 00006238 ENSRNO G0000002 0652 ENS RNOG000 00020947 ENSRNO	rno:64044 rno:366508 rno:83721 rno:311786 rno:59086 rno:308457 rno:63879	64044 366 508 83721 311786 59 086 30845 7 63879	Casp8 Pik3 cd Dvl1, dvl- 1 Traf2 Tgf b1, Tgfb Egln2 , HIF-PH1, HPH-1, HPH-3, PHD-1, PHD1 Xiap , Api3, Birc4, riap3	http://www .genome.jp /kegg- bin/show_p athway?rno 05200/rno: 64044%09 red/rno:30 8457%09re d/rno:5908 6%09red/r no:366508 %09red/rn o:63879%0 9red/rno:8 3721%09re
Jak-STAT signaling pathway	rno04630	3	142	0.6295992	0.9345916	ENSRNO G0000001 6846 ENS RNOG000 00023214 ENSRNO G0000001 8962	rno:366508 rno:50104 3 rno:2920 1	366508 50 1043 2920 1	Pik3cd Il20 rb, IL20R2, RGD15661 51 Ctf1	http://www .genome.jp /kegg- bin/show_p athway?rno 04630/rno: 366508%0 9red/rno:5 01043%09 red/rno:29 201%09red
Toll-like receptor signaling pathway	rno04620	2	96	0.6448655	0.9345916	ENSRNO G0000001 2331 ENS RNOG000 00016846	rno:64044 rno:366508 508	64044 366 508	Casp8 Pik3 cd	http://www .genome.jp /kegg- bin/show_p athway?rno 04620/rno: 366508%0 9red/rno:6 4044%09re
Basal transcriptio n factors	rno03022	1	45	0.6453894	0.9345916	ENSRNO G0000001 1135	rno:81673	81673	Gtf2b	http://www .genome.jp /kegg- bin/show_p athway?rno 03022/rno: 81673%09
Intestinal immune network for IgA production	rno04672	1	45	0.6453894	0.9345916	ENSRNO G0000002 0652	rno:59086	59086	Tgfb1, Tgfb	http://www .genome.jp /kegg- bin/show_p athway?rno 04672/rno: 59086%09
Estrogen signaling pathway	rno04915	2	97	0.650344	0.9345916	ENSRNO G0000001 6846 ENS RNOG000 00012826	rno:366508 rno:36233 9	366508 36 2339	Pik3cd Cre b312, Ra69, SCIRR69	http://www .genome.jp /kegg- bin/show_p athway?rno 04915/rno: 366508%0 9red/rno:3 62339%09
Melanogen esis	rno04916	2	97	0.650344	0.9345916	ENSRNO G0000001 2826 ENS RNOG000 00019423	rno:362339 rno:83721	362339 83 721	Creb312, Ra69, SCIRR69 Dvl1, dvl- 1	http://www .genome.jp /kegg- bin/show_p athway?rno 04916/rno: 83721%09 red/rno:36 2339%09re

Nucleotide excision repair	rno03420	1	46	0.6532994	0.9345916	ENSRNO G00000019681	rno:59294 59294	Pold1	http://www.genome.jp/kegg-bin/show_pathway?rno03420/rno:59294%09
Mineral absorption	rno04978	1	46	0.6532994	0.9345916	ENSRNO G00000030625	rno:24825 24825	Tf, Tfn, Trf	http://www.genome.jp/kegg-bin/show_pathway?rno04978/rno:24825%09
Amino sugar and nucleotide sugar metabolism	rno00520	1	47	0.6610332	0.9345916	ENSRNO G00000010252	rno:300757 300757	Hexa	http://www.genome.jp/kegg-bin/show_pathway?rno00520/rno:300757%0
Cocaine addiction	rno05030	1	47	0.6610332	0.9345916	ENSRNO G00000012826	rno:362339 362339	Creb3l2, Ra69, SCIRR69	http://www.genome.jp/kegg-bin/show_pathway?rno05030/rno:362339%0
Proteoglycans in cancer	rno05205	4	202	0.6761071	0.9345916	ENSRNO G00000020652 ENSRNO G00000054890 ENSRNO G00000000016846	rno:59086 59086 247 rno:24771 71 293860 rno:293860 366508 rno:366508	Tgfb1, Tgfb Sdc4, RATRYU DOCA, RYUDOC A Flna, RGD1560614 Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno05205/rno:24771%09red/rno:366508%09red/rno:293860
Type II diabetes mellitus	rno04930	1	51	0.690284	0.9345916	ENSRNO G00000016846	rno:366508 366508	Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno04930/rno:366508%0
Starch and sucrose metabolism	rno00500	1	52	0.6971941	0.9345916	ENSRNO G00000002185	rno:685076 685076	Pgm2l1	http://www.genome.jp/kegg-bin/show_pathway?rno00500/rno:685076%0
Endometrial cancer	rno05213	1	52	0.6971941	0.9345916	ENSRNO G00000016846	rno:366508 366508	Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno05213/rno:366508%0
T cell receptor signaling pathway	rno04660	2	107	0.7014761	0.9345916	ENSRNO G00000014917 ENSRNO G00000000016846	rno:300955 300955 36 rno:366508 6508	Nck1 Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno04660/rno:366508%09red/rno:300955%09

Fatty acid metabolism	rno01212	1	53	0.7039504	0.9345916	ENSRNO G0000001 2616	rno:29411 29411	Ppt1, Ppt	http://www.genome.jp/kegg-bin/show_pathway?rno01212/rno:29411%09
MAPK signaling pathway	rno04010	5	260	0.7057224	0.9345916	ENSRNO G0000001 3862 ENSRNO G0000001 00006238 ENSRNO G0000001 9822 ENSRNO G0000001 00054890 ENSRNO G0000002 0652	rno:311406 311406 31178 1786 2996 2996 293 293 59086 860 59086	Dusp2 Traf2 Gadd45b Flna, RGD15606 14 Tgfb1, Tgfb	http://www.genome.jp/kegg-bin/show_pathway?rno04010/rno:311406%09red/rno:293860%09red/rno:311786%09red/rno:59086%09red/rno:299626
Pyrimidine metabolism	rno00240	2	108	0.706232	0.9345916	ENSRNO G0000001 9681 ENSRNO G00020906	rno:59294 59294 85242 85242	Pold1 Pola2	http://www.genome.jp/kegg-bin/show_pathway?rno00240/rno:59294%09red/rno:85242%09red
Basal cell carcinoma	rno05217	1	55	0.7170147	0.9345916	ENSRNO G0000001 9423	rno:83721 83721	Dvl1, dvl-1	http://www.genome.jp/kegg-bin/show_pathway?rno05217/rno:83721%09
Malaria	rno05144	1	56	0.7233294	0.9345916	ENSRNO G0000002 0652	rno:59086 59086	Tgfb1, Tgfb	http://www.genome.jp/kegg-bin/show_pathway?rno05144/rno:59086%09
Inflammatory mediator regulation of TRP channels	rno04750	2	113	0.7290708	0.9345916	ENSRNO G0000001 6846 ENSRNO G00001195	rno:366508 366508 66026 66026	Pik3cd Trpv4, Otrpc4, Vroac	http://www.genome.jp/kegg-bin/show_pathway?rno04750/rno:66026%09red/rno:366508%09red
NOD-like receptor signaling pathway	rno04621	1	57	0.7295035	0.9345916	ENSRNO G0000001 2331	rno:64044 64044	Casp8	http://www.genome.jp/kegg-bin/show_pathway?rno04621/rno:64044%09
Glutamate receptor synaptic	rno04724	2	115	0.7377764	0.9345916	ENSRNO G0000001 9857 ENSRNO G00005479	rno:58979 58979 29482 29482	Gng7 Slc1a2, Eaat2, Glt, Glt-1	http://www.genome.jp/kegg-bin/show_pathway?rno04724/rno:29482%09red/rno:58979%09red

Transcriptional misregulation in cancer	rno05202	3	169	0.7401261	0.9345916	ENSRNO G00000009605 ENSRNOG00007237 ENSRNO G00000032546	rno:317376 317376 25 rno:25587 587 36283 rno:362831 1	Tfe3, RGD1559642, Tcfe3 Id2, Ac2-300 Dot1	http://www.genome.jp/kegg-bin/show_pathway?rno05202/rno:317376%09red/rno:25587%09red/rno:36283
Amyotrophic lateral sclerosis (ALS)	rno05014	1	59	0.741442	0.9345916	ENSRNO G00000005479	rno:29482 29482	Slc1a2, Eaat2, Glt, Glt-1	http://www.genome.jp/kegg-bin/show_pathway?rno05014/rno:29482%09
VEGF signaling pathway	rno04370	1	60	0.7472125	0.9345916	ENSRNO G00000016846	rno:366508 366508	Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno04370/rno:366508%09
Arginine and proline metabolism	rno00330	1	60	0.7472125	0.9345916	ENSRNO G00000003811	rno:29215 29215	Arg2	http://www.genome.jp/kegg-bin/show_pathway?rno00330/rno:29215%09
Inflammatory bowel disease (IBD)	rno05321	1	61	0.7528545	0.9345916	ENSRNO G000000020652	rno:59086 59086	Tgfb1, Tgfb	http://www.genome.jp/kegg-bin/show_pathway?rno05321/rno:59086%09
Taste transduction	rno04742	1	62	0.7583707	0.9345916	ENSRNO G000000019589	rno:170634 170634	Tas1r3, T1r3	http://www.genome.jp/kegg-bin/show_pathway?rno04742/rno:170634%09
Leukocyte transendothelial migration	rno04670	2	120	0.7585011	0.9345916	ENSRNO G000000016846 ENSRNOG00030790	rno:366508 366508 31 rno:31116 1163 3	Pik3cd Ctnnd1, Catns	http://www.genome.jp/kegg-bin/show_pathway?rno04670/rno:366508%09red/rno:311163%09
Alcoholism	rno05034	3	175	0.7607834	0.9345916	ENSRNO G000000047281 ENSRNOG00012826 ENSRNO G00000019857	rno:100911 100911 205 rno:362339 582339 rno:5979	Creb3l2, Ra69, SCIRR69 Gng7	http://www.genome.jp/kegg-bin/show_pathway?rno05034/rno:100911205%09red/rno:362339%09red/rno:58979%09
Synaptic vesicle cycle	rno04721	1	63	0.7637641	0.9345916	ENSRNO G00000019193	rno:24923 24923	Stx1b, Stx1b2, Stx2	http://www.genome.jp/kegg-bin/show_pathway?rno04721/rno:24923%09

Influenza A	rno05164	3	176	0.764094	0.9345916	ENSRNO G0000001 6846 ENS RNOG000 00020683 ENSRNO G0000002 0347	rno:366508 rno:36152 1522 8173 2 rno:8173 8 8	Pik3cd Hnr npul1, Hnrpul1 N up98	http://www .genome.jp /kegg- bin/show_p athway?rno 05164/rno: 366508%0 9red/rno:3 61522%09 red/rno:81 738%09red
mTOR signaling pathway	rno04150	1	64	0.7690373	0.9345916	ENSRNO G0000001 6846	rno:366508 366508 	Pik3cd	http://www .genome.jp /kegg- bin/show_p athway?rno 04150/rno: 366508%0 9red/rno:3 61522%09 red/rno:81 738%09red
Glioma	rno05214	1	64	0.7690373	0.9345916	ENSRNO G0000001 6846	rno:366508 366508 	Pik3cd	http://www .genome.jp /kegg- bin/show_p athway?rno 05214/rno: 366508%0 9red/rno:3 61522%09 red/rno:81 738%09red
Serotonergic synapse	rno04726	2	124	0.774047	0.9345916	ENSRNO G0000000 7066 ENS RNOG000 00019857	rno:25689 rno:58979 25689 589 79	Htr5a, 5HT5A, MR22 Gng 7	http://www .genome.jp /kegg- bin/show_p athway?rno 04726/rno: 58979%09 red/rno:25 689%09red
Neurotrophin signaling pathway	rno04722	2	124	0.774047	0.9345916	ENSRNO G0000001 6846 ENS RNOG000 00023176	rno:366508 rno:11647 6478 8	Pik3cd Kid ins220, ARMS	http://www .genome.jp /kegg- bin/show_p athway?rno 04722/rno: 366508%0 9red/rno:1 16478%09 red/rno:64 78%09red
Graft-versus-host disease	rno05332	1	66	0.7792337	0.9345916	ENSRNO G0000000 0562	rno:50669 50669 	Prf1, Cyta, RATCYT A	http://www .genome.jp /kegg- bin/show_p athway?rno 05332/rno: 50669%09 red/rno:50 669%09red
Hepatitis C	rno05160	2	128	0.7887123	0.9345916	ENSRNO G0000000 6238 ENS RNOG000 00016846	rno:311786 rno:36650 6508 8	Traf2 Pik3 cd	http://www .genome.jp /kegg- bin/show_p athway?rno 05160/rno: 366508%0 9red/rno:3 11786%09 red/rno:65 08%09red
Allograft rejection	rno05330	1	68	0.7889807	0.9345916	ENSRNO G0000000 0562	rno:50669 50669 	Prf1, Cyta, RATCYT A	http://www .genome.jp /kegg- bin/show_p athway?rno 05330/rno: 50669%09 red/rno:50 669%09red

Aminoacyl-tRNA biosynthesis	rno00970	1	69	0.7936919	0.9345916	ENSRNO G00000007213	rno:313047 313047	Yars	http://www.genome.jp/kegg-bin/show_pathway?rno00970/rno:313047%0
Drug metabolism - cytochrome P450	rno00982	1	69	0.7936919	0.9345916	ENSRNO G00000033923	rno:316421 316421	Aox2, Aox2p, Aox311	http://www.genome.jp/kegg-bin/show_pathway?rno00982/rno:316421%0
Fc epsilon RI signaling pathway	rno04664	1	70	0.7982981	0.9345916	ENSRNO G00000016846	rno:366508 366508	Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno04664/rno:366508%0
Dopaminergic synapse	rno04728	2	131	0.799155	0.9345916	ENSRNO G00000012826 ENSRNO G00000000019857	rno:362339 362339 58 rno:58979 979	Creb3l2, Ra69, SCIR69 Gng7	http://www.genome.jp/kegg-bin/show_pathway?rno04728/rno:362339%09red/rno:58979%09re
Melanoma	rno05218	1	71	0.8028017	0.9345916	ENSRNO G00000016846	rno:366508 366508	Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno05218/rno:366508%0
Platelet activation	rno04611	2	133	0.8058605	0.9345916	ENSRNO G00000020425 ENSRNO G00000000016846	rno:361618 361618 36 rno:36650 6508 8	Stim1 Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno04611/rno:366508%09red/rno:361618%09
B cell receptor signaling pathway	rno04662	1	72	0.8072048	0.9345916	ENSRNO G00000016846	rno:366508 366508	Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno04662/rno:366508%0
Adherens junction	rno04520	1	74	0.8157188	0.9345916	ENSRNO G00000030790	rno:311163 311163	Ctnnd1, Ctns	http://www.genome.jp/kegg-bin/show_pathway?rno04520/rno:311163%0
Adipocyte kinase signaling pathway	rno04920	1	74	0.8157188	0.9345916	ENSRNO G00000006238	rno:311786 311786	Traf2	http://www.genome.jp/kegg-bin/show_pathway?rno04920/rno:311786%0

Prolactin signaling pathway	rno04917	1	75	0.8198341	0.9345916	ENSRNO G0000001 6846	rno:366508 366508	Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno04917/rno:366508%0
Type I diabetes mellitus	rno04940	1	75	0.8198341	0.9345916	ENSRNO G0000000 0562	rno:50669 50669	Prf1, Cyta, RATCYT A	http://www.genome.jp/kegg-bin/show_pathway?rno04940/rno:50669%09
cAMP signaling pathway	rno04024	3	195	0.8201758	0.9345916	ENSRNO G0000001 2826 ENSRNO RNOG000 00016846 ENSRNO G0000001 9377	rno:362339 362339 36 rno:36650 6508 2537 8 rno:2537 8	Creb3l2, Ra69, SCIRR69 Pik3cd Amh, MIS	http://www.genome.jp/kegg-bin/show_pathway?rno04024/rno:366508%09red/rno:25378%09red/rno:3623
Autoimmune thyroid disease	rno05320	1	76	0.8238575	0.9345916	ENSRNO G0000000 0562	rno:50669 50669	Prf1, Cyta, RATCYT A	http://www.genome.jp/kegg-bin/show_pathway?rno05320/rno:50669%09
Tight junction	rno04530	2	139	0.8247964	0.9345916	ENSRNO G0000005 7817 ENSRNO RNOG000 00020014	rno:59317 59317 308 rno:308572 572	Epb41l1, 4.1N, Epb4.1l1 Myh14	http://www.genome.jp/kegg-bin/show_pathway?rno04530/rno:59317%09red/rno:308572%09re
Wnt signaling pathway	rno04310	2	142	0.8336285	0.9345916	ENSRNO G0000001 6313 ENSRNO RNOG000 00019423	rno:503000 503000 83 rno:83721 721	Ctnnbip1 Dvl1, dvl-1	http://www.genome.jp/kegg-bin/show_pathway?rno04310/rno:83721%09red/rno:503000%09re
PPAR signaling pathway	rno03320	1	79	0.8353977	0.9345916	ENSRNO G0000000 7545	rno:362850 362850	Angptl4	http://www.genome.jp/kegg-bin/show_pathway?rno03320/rno:362850%0
Hematopoietic cell lineage	rno04640	1	83	0.849619	0.9345916	ENSRNO G0000000 3069	rno:25668 25668	Cd38, ADPRC_1	http://www.genome.jp/kegg-bin/show_pathway?rno04640/rno:25668%09
Adrenergic signaling in cardiomyocytes	rno04261	2	148	0.8500963	0.9345916	ENSRNO G0000001 6846 ENSRNO RNOG000 00012826	rno:366508 366508 36 rno:36233 2339 9	Pik3cd Creb3l2, Ra69, SCIRR69	http://www.genome.jp/kegg-bin/show_pathway?rno04261/rno:366508%09red/rno:362339%09

Focal adhesion	rno04510	3	208	0.8516596	0.9345916	ENSRNO G0000001 6846 ENSRNOG0000006967 ENSRNO G00000054890	rno:366508 366508 63 rno:63879 879 29386 rno:293860 0	Pik3cd Xiap, Api3, Birc4, riap3 Flna, RGD1560614	http://www.genome.jp/kegg-bin/show_pathway?rno04510/rno:293860%09red/rno:366508%09red/rno:63879%09red
Cardiac muscle contraction	rno04260	1	84	0.8529783	0.9345916	ENSRNO G00000004526	rno:298762 298762	Cox7a2	http://www.genome.jp/kegg-bin/show_pathway?rno04260/rno:298762%09red
ECM-receptor interaction	rno04512	1	86	0.859474	0.9345916	ENSRNO G00000014297	rno:24771 24771	Sdc4, RATTRYU DOCA, RYUDOC A	http://www.genome.jp/kegg-bin/show_pathway?rno04512/rno:24771%09red
Insulin secretion	rno04911	1	86	0.859474	0.9345916	ENSRNO G00000012826	rno:362339 362339	Creb3l2, Ra69, SCIRR69	http://www.genome.jp/kegg-bin/show_pathway?rno04911/rno:362339%09red
Chemical carcinogenesis	rno05204	1	87	0.8626136	0.9345916	ENSRNO G00000003426	rno:541589 541589	Kat3, Ccbl2	http://www.genome.jp/kegg-bin/show_pathway?rno05204/rno:541589%09red
Rap1 signaling pathway	rno04015	3	214	0.8644972	0.9345916	ENSRNO G00000016846 ENSRNOG0000000013886 ENSRNO G000000030790	rno:366508 366508 49 rno:49953 9537 31117 rno:3111 63 63	Pik3cd Fyb, RGD1563421 Ctnnd1, Catns	http://www.genome.jp/kegg-bin/show_pathway?rno04015/rno:366508%09red/rno:499537%09red/rno:311163%09red
Herpes simplex infection	rno05168	3	218	0.8725038	0.9350524	ENSRNO G00000012331 ENSRNOG00000006238 ENSRNO G00000013820	rno:64044 64044 31117 rno:311786 786 366518 rno:36651 8 8	Casp8 Traff2 Tnfrsf14	http://www.genome.jp/kegg-bin/show_pathway?rno05168/rno:366518%09red/rno:64044%09red
Oxytocin signaling pathway	rno04921	2	158	0.874274	0.9350524	ENSRNO G00000016846 ENSRNOG00000003069	rno:366508 366508 25 rno:25668 668	Pik3cd Cd38, ADPRC_1	http://www.genome.jp/kegg-bin/show_pathway?rno04921/rno:366508%09red/rno:25668%09red

PI3K-Akt signaling pathway	rno04151	5	340	0.8850408	0.9395753	ENSRNO G0000001 2826 ENSRNO RNOG000 00011317 ENSRNO G0000000 8195 ENSRNO RNOG000 00019857 ENSRNO G0000001 6846	rno:362339 362339 20 rno:20712 7122 2557 2 rno:2557 8 58979 36 8 rno:5897 6508 9 rno:3665 08	Creb3l2, Ra69, SCIRR69 Pkn2, Pak-2, Prkc12 Ywhaz, 14-3-3z Gng7 Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno04151/rno:25578%09red/rno:366508%09red/rno:362339%09red/rno:58979%09red/rn
Circadian entrainment	rno04713	1	96	0.8878987	0.9395753	ENSRNO G0000001 9857	rno:58979 58979	Gng7	http://www.genome.jp/kegg-bin/show_pathway?rno04713/rno:58979%09
Neuroactive ligand-receptor interaction	rno04080	4	289	0.8938173	0.9408603	ENSRNO G0000002 0293 ENSRNO RNOG000 00007066 ENSRNO G0000001 9270 ENSRNO RNOG000 00013887	rno:64574 64574 256 rno:25689 89 117264 rno:117264 24174 rno:24174	Chrna10 Htr5a, 5HT5A, MR22 P2ry6, P2y6 Adra2b	http://www.genome.jp/kegg-bin/show_pathway?rno04080/rno:117264%09red/rno:64574%09red/rno:24174%09red/rno:25689%09
Retrograde endocannabinoid signaling	rno04723	1	103	0.9043058	0.9469171	ENSRNO G0000001 9857	rno:58979 58979	Gng7	http://www.genome.jp/kegg-bin/show_pathway?rno04723/rno:58979%09
Chemokine signaling pathway	rno04062	2	178	0.9121998	0.9502082	ENSRNO G0000001 6846 ENSRNO RNOG000 00019857	rno:366508 366508 58 rno:58979 979	Pik3cd Gng7	http://www.genome.jp/kegg-bin/show_pathway?rno04062/rno:366508%09red/rno:58979%09re
Thyroid hormone signaling pathway	rno04919	1	120	0.9348518	0.9687583	ENSRNO G0000001 6846	rno:366508 366508	Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno04919/rno:366508%09
Axon guidance	rno04360	1	130	0.9480453	0.9715609	ENSRNO G0000006 0464	rno:309280 309280	Plxna3, Plxn4, SEX	http://www.genome.jp/kegg-bin/show_pathway?rno04360/rno:309280%09
Measles	rno05162	1	135	0.9536049	0.9715609	ENSRNO G0000001 6846	rno:366508 366508	Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno05162/rno:366508%09

Regulation of actin cytoskeleton	rno04810	2	220	0.9597402	0.9715609	ENSRNO G00000020014 ENSRNOG00000016846	rno:308572 308572 36 rno:36650 6508 8	Myh14 Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno04810/rno:366508%09red/rno:308572%09
Insulin signaling pathway	rno04910	1	144	0.9621582	0.9715609	ENSRNO G00000016846	rno:366508 366508	Pik3cd	http://www.genome.jp/kegg-bin/show_pathway?rno04910/rno:366508%09
MicroRNAs in cancer	rno05206	1	144	0.9621582	0.9715609	ENSRNO G00000051592	rno:309757 309757	Sirt1, Sir2	http://www.genome.jp/kegg-bin/show_pathway?rno05206/rno:309757%09
Ras signaling pathway	rno04014	2	230	0.9667031	0.9715609	ENSRNO G00000016846 ENSRNOG00000019857	rno:366508 366508 58 rno:58979 979	Pik3cd Gng7	http://www.genome.jp/kegg-bin/show_pathway?rno04014/rno:366508%09red/rno:58979%09re
Cell adhesion molecules (CAMs)	rno04514	1	172	0.9799351	0.9799351	ENSRNO G00000014297	rno:24771 24771	Sdc4, RATTRYU DOCA, RYUDOC A	http://www.genome.jp/kegg-bin/show_pathway?rno04514/rno:24771%09

##Databases: KEGG PATHWAY. ##Statistical test method: hypergeometric test / Fisher's exact test. ##FDR correction method: Benjamini and Hochberg. KEGG: Kyoto Encyclopedia of Genes and Genomes; IR: ischemia/reperfusion; RIP: remote ischemia postconditioning.