

Table S8

layer1	layer2	layer3	ID	Input.num	Background	pvalue	FDR	Input	Hyperlink	
5. Organis	5.2 Endoc	PPAR sign	ko03320	14	69	2.16E-07	3.97E-05	ACAA1 AC	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.3 Lipid	n Fatty acid	ko00071	9	36	5.26E-06	0.000484	ACAA1 AC	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.0 Global	Fatty acid	ko01212	11	59	1.03E-05	0.00063	ACAA1 AC	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.3 Lipid	n Fatty acid	ko00061	6	20	6.72E-05	0.00309	ACACA AC	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.0 Global	Biosynthe	ko01130	18	204	0.000691	0.025433	ACAA1 AC	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.3 Lipid	n Steroid bi	ko00100	5	20	0.000709	0.021743	DHCR24 C	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.0 Global	Biosynthe	ko01110	29	406	0.000714	0.018761	ACAA1 AC	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.9 Metab	Sesquiterp	ko00909	2	2	0.001405	0.032325	FDFT1 SQ	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.1 Carbo	l Pyruvate	r ko00620	6	36	0.002027	0.041444	ACACA AC	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.5 Amino	Valine, leu	ko00280	7	49	0.002206	0.040581	AACS ACA	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.1 Carbo	l Propanoat	ko00640	5	31	0.005531	0.092511	ACACA AC	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.3 Lipid	n Glycerolip	ko00561	7	61	0.00762	0.116846	AGPAT2 A	http://www.genome.jp/kegg-bin/show_pathway?koC	
4. Cellular	4.2 Cell gr	Cell cycle	ko04110	10	118	0.013303	0.188285	BUB1 CCN	http://www.genome.jp/kegg-bin/show_pathway?koC	
5. Organis	5.2 Endoc	Glucagon	ko04922	7	78	0.02689	0.353412	ACACA AC	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.3 Lipid	n Biosynthe	ko01040	4	31	0.02765	0.339179	ACAA1 AC	http://www.genome.jp/kegg-bin/show_pathway?koC	
4. Cellular	4.1 Transp	Peroxisom	ko04146	7	79	0.028588	0.328762	ACAA1 AC	http://www.genome.jp/kegg-bin/show_pathway?koC	
5. Organis	5.2 Endoc	Adipocyto	ko04920	6	66	0.036995	0.400421	ACACB AC	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.0 Global	Carbon m	ko01200	8	106	0.045835	0.468532	ACOX1 AC	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.0 Global	Metabolic	ko01100	64	1385	0.046764	0.45287	AACS ACA	http://www.genome.jp/kegg-bin/show_pathway?koC	
5. Organis	5.5 Excret	Collecting	ko04966	3	23	0.053308	0.490438	ATP6V0D2	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.1 Carbo	l Butanoate	ko00650	3	23	0.053308	0.467083	AACS EHI	http://www.genome.jp/kegg-bin/show_pathway?koC	
5. Organis	5.4 Digest	Cholester	ko04979	5	55	0.054692	0.457425	ANGPTL3	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.1 Carbo	l Glycolysis	ko00010	5	56	0.058287	0.466295	ACSS1B A	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.11 Xeno	Drug met	ko00983	5	56	0.058287	0.446866	CES1L2 G	http://www.genome.jp/kegg-bin/show_pathway?koC	
3. Environ	3.2 Signal	AMPK sigr	ko04152	8	112	0.059748	0.439747	ACACA AC	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.8 Metab	Retinol m	ko00830	4	40	0.061877	0.437897	CYP3A5 L	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.11 Xeno	Toluene d	ko00623	1	2	0.073635	0.501808	CMBL	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.11 Xeno	Fluoroben	ko00364	1	2	0.073635	0.483887	CMBL	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.1 Carbo	C5-Branch	ko00660	1	2	0.073635	0.467201	ACOD1	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.11 Xeno	Chlorocyc	ko00361	1	2	0.073635	0.451628	CMBL	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.6 Metab	beta-Alan	ko00410	3	28	0.0861	0.511047	ACOX1 A1	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.1 Carbo	Amino su	ko00520	4	46	0.093054	0.53506	GALE HKD	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.3 Lipid	n Primary bi	ko00120	2	15	0.106964	0.596406	CYP7A1 C	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.1 Carbo	Ascorbate	ko00053	2	15	0.106964	0.578865	ALDH1A3	http://www.genome.jp/kegg-bin/show_pathway?koC	
1. Metabo	1.1 Carbo	Glyoxylate	ko00630	3	31	0.108985	0.572948	ACSS1B G	http://www.genome.jp/kegg-bin/show_pathway?koC	
2. Genetic	2.4 Replic	DN	repli	ko03030	3	32	0.117084	0.598428	MCM3 M	http://www.genome.jp/kegg-bin/show_pathway?koC

1. Metabo 1.11 Xeno Drug met̄	ko00982	3	32	0.117084	0.582255	GSTK1 GS	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.11 Xeno Metabolisi	ko00980	3	34	0.133921	0.64846	GSTK1 GS	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.9 Metab Geraniol d	ko00281	1	4	0.141856	0.669271	HMGCL	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.11 Xeno Caprolact̄	ko00930	1	4	0.141856	0.652539	EHHADH	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.5 Amino Phenylalar	ko00400	1	4	0.141856	0.636624	IL4I1	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.9 Metab Limonene	ko00903	1	4	0.141856	0.621466	ALDH1A3	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.1 Carboł Galactose	ko00052	3	36	0.151534	0.648425	GALE HKD	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.3 Lipid n Glyceroph	ko00564	6	98	0.162391	0.679089	AGPAT2 C	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.2 Endoci Insulin siḡ	ko04910	7	120	0.164776	0.673753	ACACA A	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.4 Digest Mineral ał	ko04978	3	38	0.169831	0.679323	MT3 MT4	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.9 Metab Insect hor̄	ko00981	1	5	0.174062	0.681436	ALDH1A3	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.11 Xeno Aminoben	ko00627	1	5	0.174062	0.667239	EHHADH	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.3 Lipid n Steroid hc	ko00140	3	39	0.179207	0.672941	CYP3A5 C	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.1 Carboł Pentose āi	ko00040	2	21	0.185289	0.681863	LOC12111	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.11 Xeno Chloroalk̄	ko00625	1	6	0.205062	0.739831	ALDH1A3	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.5 Amino Tryptophā	ko00380	3	42	0.208114	0.736403	ALDH1A3	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.6 Metab Glutathior	ko00480	3	45	0.237961	0.826129	GSTK1 GS	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.5 Amino Arginine a	ko00330	3	46	0.248071	0.845279	ALDH1A3	http://www.genome.jp/kegg-bin/show_pathway?koC
4. Cellular 4.2 Cell gr Cellular se	ko04218	8	160	0.253045	0.846551	CCNB3 C	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.2 Energy Methane r	ko00680	2	26	0.254999	0.837853	ACSS1B F	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.3 Lipid n Fatty acid	ko00062	2	27	0.26908	0.86861	ELOVL2 H	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.8 Metab Folate bio:	ko00790	2	27	0.26908	0.853634	ALPI FPGS	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.2 Endoci Thyroid hc	ko04918	3	50	0.289055	0.901459	CREB3L3 F	http://www.genome.jp/kegg-bin/show_pathway?koC
4. Cellular 4.4 Cellula Quorum s	ko02024	1	9	0.291263	0.893205	ACSL1	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.3 Lipid n alpha-Linc	ko00592	2	29	0.297206	0.896489	ACAA1 A	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.10 Biosy Isoquinolir	ko00950	1	10	0.31787	0.943356	IL4I1	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.3 Lipid n Synthesis :	ko00072	1	10	0.31787	0.928382	HMGCL	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.5 Amino Lysine deç	ko00310	3	53	0.320113	0.920326	ALDH1A3	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.1 Carboł Starch anc	ko00500	2	31	0.325159	0.92045	HKDC1 U	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.5 Amino Tyrosine n	ko00350	2	33	0.352813	0.9836	DCT IL4I1	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.1 Immur Toll and Ir	ko04624	2	35	0.380061	0.999979	ANK1 DU	http://www.genome.jp/kegg-bin/show_pathway?koC
3. Environ 3.2 Signal Two-com̄	ko02020	1	13	0.391857	0.999979	ALPI	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.8 Metab Thiamine i	ko00730	1	13	0.391857	0.999979	ALPI	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.2 Endoci Melanoge	ko04916	4	86	0.404493	0.999979	ASIP CREB	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.1 Carboł Fructose a	ko00051	2	37	0.406812	0.999979	FBP2 HKD	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.4 Digest Fat digesti	ko04975	2	37	0.406812	0.999979	AGPAT2 F	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.5 Amino Phenylalar	ko00360	1	14	0.414694	0.999979	IL4I1	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.7 Glycan Various ty	ko00513	2	40	0.445849	0.999979	ALG12 M	http://www.genome.jp/kegg-bin/show_pathway?koC

1.	Metabo	1.8	Metab One carb	ko00670	1	16	0.457831	0.999979	ATIC	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.2	Endoc̄ Renin-an̄	ko04614	1	16	0.457831	0.999979	ENPEP	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.2	Signal FoxO sign	ko04068	5	120	0.470524	0.999979	CCNB3 CE	http://www.genome.jp/kegg-bin/show_pathway?koC
4.	Cellular	4.2	Cell gr p53 signal	ko04115	3	68	0.472261	0.999979	CDK6 GAI	http://www.genome.jp/kegg-bin/show_pathway?koC
1.	Metabo	1.2	Energy Nitrogen r	ko00910	1	17	0.478194	0.999979	CA5A	http://www.genome.jp/kegg-bin/show_pathway?koC
1.	Metabo	1.8	Metab Pantothen	ko00770	1	17	0.478194	0.999979	PANK1	http://www.genome.jp/kegg-bin/show_pathway?koC
2.	Genetic	2.3	Foldin Protein pr	ko04141	6	152	0.508347	0.999979	DNAJB11	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.6	Nerv̄ Synaptic v	ko04721	3	73	0.519712	0.999979	ATP6V0D2	http://www.genome.jp/kegg-bin/show_pathway?koC
1.	Metabo	1.7	Glycan N-Glycan	ko00510	2	48	0.542368	0.999979	ALG12 M4	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.8	Develc Dorso-ver	ko04320	1	21	0.552292	0.999979	SPIRE2	http://www.genome.jp/kegg-bin/show_pathway?koC
1.	Metabo	1.9	Metab Terpenoid	ko00900	1	21	0.552292	0.999979	FDPS	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.2	Endoc̄ Regulatior	ko04923	2	49	0.553586	0.999979	FABP4 PN	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.2	Endoc̄ GnRH secr	ko04929	2	49	0.553586	0.999979	ARR3 CAC	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.2	Endoc̄ Cortisol sy	ko04927	2	49	0.553586	0.999979	CACNA1H	http://www.genome.jp/kegg-bin/show_pathway?koC
1.	Metabo	1.5	Amino Histidine r	ko00340	1	22	0.569113	0.999979	ALDH1A3	http://www.genome.jp/kegg-bin/show_pathway?koC
2.	Genetic	2.3	Foldin Protein ex	ko03060	1	22	0.569113	0.999979	HSPA5	http://www.genome.jp/kegg-bin/show_pathway?koC
1.	Metabo	1.4	Nuclec Pyrimidine	ko00240	2	51	0.575433	0.999979	RRM2 TK1	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.4	Digest Bile secret	ko04976	2	51	0.575433	0.999979	CYP7A1 SI	http://www.genome.jp/kegg-bin/show_pathway?koC
1.	Metabo	1.7	Glycan Glycosami	ko00534	1	23	0.585303	0.999979	HS6ST3	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.2	Endoc̄ Parathyroi	ko04928	3	83	0.607125	0.999979	ARR3 CAS	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.4	Digest Vitamin di	ko04977	1	26	0.630319	0.999979	TCN2	http://www.genome.jp/kegg-bin/show_pathway?koC
1.	Metabo	1.1	Carbo Citrate cyc	ko00020	1	26	0.630319	0.999979	PDHA2	http://www.genome.jp/kegg-bin/show_pathway?koC
1.	Metabo	1.1	Carbol Pentose p	ko00030	1	28	0.657586	0.999979	FBP2	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.6	Nerv̄ Cholinergi	ko04725	3	90	0.661667	0.999979	CHRNA3 C	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.5	Excret Aldosteror	ko04960	1	29	0.670456	0.999979	SGK1	http://www.genome.jp/kegg-bin/show_pathway?koC
2.	Genetic	2.4	Replic Base excis	ko03410	1	31	0.694767	0.999979	UNG	http://www.genome.jp/kegg-bin/show_pathway?koC
4.	Cellular	4.2	Cell gr Ferroptosi	ko04216	1	32	0.706242	0.999979	ACSL1	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.2	Endoc̄ Insulin sec	ko04911	2	65	0.706391	0.999979	CREB3L3 F	http://www.genome.jp/kegg-bin/show_pathway?koC
4.	Cellular	4.1	Transp Phagosom	ko04145	5	159	0.716781	0.999979	ATP6V0D2	http://www.genome.jp/kegg-bin/show_pathway?koC
1.	Metabo	1.5	Amino Alanine, a	ko00250	1	33	0.717287	0.999979	IL4 I	http://www.genome.jp/kegg-bin/show_pathway?koC
1.	Metabo	1.3	Lipid n Linoleic ac	ko00591	1	33	0.717287	0.999979	CYP3A5	http://www.genome.jp/kegg-bin/show_pathway?koC
4.	Cellular	4.1	Transp Endocytos	ko04144	8	252	0.733687	0.999979	ARR3 DNN	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.4	Digest Carbohydr	ko04973	1	35	0.738148	0.999979	HKDC1	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.1	Immur Antigen pi	ko04612	3	103	0.74791	0.999979	LOC12110	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.2	Endoc̄ Aldosteror	ko04925	2	71	0.751304	0.999979	CACNA1H	http://www.genome.jp/kegg-bin/show_pathway?koC
2.	Genetic	2.1	Transc Basal tran	ko03022	1	37	0.757472	0.999979	TAF10	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.2	Endoc̄ Progester	ko04914	2	73	0.764904	0.999979	BUB1 CCN	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.1	Memb ABC transj	ko02010	1	38	0.766594	0.999979	ABCA12	http://www.genome.jp/kegg-bin/show_pathway?koC

5. Organis 5.5 Excret Endocrine	ko04961	1	39	0.775373	0.999979	DNM1	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.5 Amino Glycine, se	ko00260	1	39	0.775373	0.999979	GLDC	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.2 Endoc Thyroid h	ko04919	3	111	0.791645	0.999979	MED13 RC	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.5 Amino Cysteine a	ko00270	1	43	0.807314	0.999979	IL4I1	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.7 Sensor Taste tran:	ko04742	1	43	0.807314	0.999979	TRPM5	http://www.genome.jp/kegg-bin/show_pathway?koC
3. Environ 3.3 Signali ECM-rece	ko04512	2	80	0.807529	0.999979	ITGB6 LAN	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.3 Circula Adrenerg	ko04261	3	115	0.811037	0.999979	CREB3L3 F	http://www.genome.jp/kegg-bin/show_pathway?koC
3. Environ 3.2 Signal TNF signal	ko04668	2	82	0.818377	0.999979	CREB3L3 S	http://www.genome.jp/kegg-bin/show_pathway?koC
3. Environ 3.2 Signal MAPK sigr	ko04010	7	247	0.823844	0.999979	ARR3 CAC	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.9 Aging Longevity	ko04211	2	84	0.828674	0.999979	CREB3L3 F	http://www.genome.jp/kegg-bin/show_pathway?koC
3. Environ 3.2 Signal Hedgehog	ko04340	1	47	0.834719	0.999979	ARR3	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.8 Develc Axon rege	ko04361	2	86	0.838443	0.999979	DUSP4 PS	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.4 Digest Protein diç	ko04974	2	86	0.838443	0.999979	DPP4 KCN	http://www.genome.jp/kegg-bin/show_pathway?koC
2. Genetic 2.4 Replic Fanconi ar	ko03460	1	49	0.846926	0.999979	RMI2	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.3 Lipid n Sphingoliç	ko00600	1	50	0.852688	0.999979	SGPP2	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.6 Nervö Long-term	ko04720	1	51	0.858233	0.999979	GRIN2C	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.2 Endoc Growth hc	ko04935	3	127	0.86027	0.999979	CREB3L3 C	http://www.genome.jp/kegg-bin/show_pathway?koC
4. Cellular 4.2 Cell gr Oocyte m	ko04114	2	93	0.868785	0.999979	BUB1 PTT	http://www.genome.jp/kegg-bin/show_pathway?koC
3. Environ 3.2 Signal PI3K-Akt s	ko04151	8	297	0.87307	0.999979	CDK6 CRE	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.4 Digest Gastric aci	ko04971	1	55	0.878406	0.999979	KCNQ1	http://www.genome.jp/kegg-bin/show_pathway?koC
4. Cellular 4.1 Transp Lysosome	ko04142	3	133	0.880385	0.999979	ATP6V0D2	http://www.genome.jp/kegg-bin/show_pathway?koC
3. Environ 3.2 Signal Phospholi	ko04072	3	133	0.880385	0.999979	AGPAT2 D	http://www.genome.jp/kegg-bin/show_pathway?koC
3. Environ 3.2 Signal Notch sigr	ko04330	1	57	0.887391	0.999979	RBPJ	http://www.genome.jp/kegg-bin/show_pathway?koC
3. Environ 3.2 Signal HIF-1 sign	ko04066	2	99	0.89053	0.999979	HKDC1 PC	http://www.genome.jp/kegg-bin/show_pathway?koC
3. Environ 3.3 Signali Cell adhes	ko04514	4	173	0.893422	0.999979	LOC12110	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.6 Nervö Dopamine	ko04728	2	100	0.893812	0.999979	ARR3 CRE	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.10 Envir Circadian	ko04713	2	100	0.893812	0.999979	CACNA1H	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.2 Endoc Estrogen s	ko04915	2	101	0.897002	0.999979	CREB3L3 F	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.2 Endoc Relaxin sıç	ko04926	2	104	0.906045	0.999979	ARR3 CRE	http://www.genome.jp/kegg-bin/show_pathway?koC
3. Environ 3.2 Signal cAMP sigr	ko04024	5	217	0.913892	0.999979	ACOX1 CF	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.2 Endoc Prolactin s	ko04917	1	66	0.920293	0.999979	SOCS3	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.1 Immur Natural kil	ko04650	1	67	0.923297	0.999979	FASLG	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.1 Immur IL-17 sign	ko04657	1	69	0.928969	0.999979	HSP90B1	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.4 Digest Salivary se	ko04970	1	71	0.934222	0.999979	LOC10175	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.1 Immur Toll-like r	ko04620	1	72	0.936701	0.999979	TLR5	http://www.genome.jp/kegg-bin/show_pathway?koC
1. Metabo 1.2 Energy Oxidative	ko00190	2	120	0.942956	0.999979	ATP6V0D2	http://www.genome.jp/kegg-bin/show_pathway?koC
4. Cellular 4.3 Cellula Gap juncti	ko04540	1	76	0.94572	0.999979	GJA1	http://www.genome.jp/kegg-bin/show_pathway?koC
5. Organis 5.1 Immur Th1 and T	ko04658	1	77	0.947767	0.999979	RBPJ	http://www.genome.jp/kegg-bin/show_pathway?koC

5.	Organis	5.10	Envir	Thermoge	ko04714	5	241	0.950815	0.999979	ACSL1 CP	http://www.genome.jp/kegg-bin/show_pathway?koC
2.	Genetic	2.3	Foldin	Ubiquitin	ko04120	2	125	0.951326	0.999979	SOCS3 UB	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.2	Signal	NF-kappa	ko04064	1	80	0.953456	0.999979	CARD10	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.1	Immur	NOD-like	ko04621	2	127	0.954335	0.999979	CASR LOC	http://www.genome.jp/kegg-bin/show_pathway?koC
4.	Cellular	4.2	Cell gr	Apoptosis	ko04210	2	128	0.955771	0.999979	FASLG GA	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.2	Signal	Jak-STAT	ko04630	2	132	0.961098	0.999979	IL22RA1 S	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.4	Digest	Pancreatic	ko04972	1	85	0.961596	0.999979	KCNQ1	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.2	Signal	TGF-beta	ko04350	1	87	0.96444	0.999979	CDKN2B	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.6	Nervo	Glutamate	ko04724	1	88	0.965781	0.999979	GRIN2C	http://www.genome.jp/kegg-bin/show_pathway?koC
1.	Metabo	1.4	Nuclec	Purine me	ko00230	2	141	0.970925	0.999979	ATIC RRM	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.1	Immur	Th17 cell	ko04659	1	93	0.971769	0.999979	AHR1B	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.2	Signal	mTOR sigı	ko04150	2	144	0.973633	0.999979	SGK1 WN	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.8	Develc	Osteoclast	ko04380	1	97	0.975797	0.999979	SOCS3	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.2	Signal	Sphingoliç	ko04071	1	106	0.982884	0.999979	SGPP2	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.8	Develc	Axon guid	ko04360	2	160	0.984431	0.999979	DPYSL2 EF	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.2	Signal	Calcium si	ko04020	2	161	0.98494	0.999979	CACNA1H	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.6	Nervo	Neurotrop	ko04722	1	110	0.985328	0.999979	FASLG	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.1	Immur	Leukocyte	ko04670	1	112	0.986416	0.999979	RAPGEF4	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.6	Nervo	Retrograd	ko04723	1	120	0.99002	0.999979	ABHD6	http://www.genome.jp/kegg-bin/show_pathway?koC
4.	Cellular	4.2	Cell gr	Necroptos	ko04217	1	124	0.991446	0.999979	FASLG	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.1	Immur	T cell rece	ko04660	1	125	0.991769	0.999979	PDCD1	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.3	Signali	Neuroacti	ko04080	5	313	0.992263	0.999979	CHRNA3 C	http://www.genome.jp/kegg-bin/show_pathway?koC
4.	Cellular	4.5	Cell m	Regulatior	ko04810	2	183	0.992801	0.999979	FGF19 ITG	http://www.genome.jp/kegg-bin/show_pathway?koC
4.	Cellular	4.3	Cellula	Signaling	ko04550	1	129	0.992946	0.999979	WNT11	http://www.genome.jp/kegg-bin/show_pathway?koC
4.	Cellular	4.3	Cellula	Focal adh	ko04510	2	186	0.993497	0.999979	ITGB6 LAN	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.2	Signal	Rap1 sign	ko04015	2	188	0.993923	0.999979	FGF19 RAI	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.1	Immur	Chemokin	ko04062	1	133	0.993954	0.999979	ARR3	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.2	Signal	Apelin sigı	ko04371	1	139	0.995204	0.999979	PPARGC1	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.3	Signali	Cytokine-i	ko04060	2	195	0.995212	0.999979	FASLG IL2	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.2	Signal	cGMP-PK	ko04022	1	140	0.995385	0.999979	CREB3L3	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.2	Signal	Ras signali	ko04014	2	199	0.995824	0.999979	FASLG FGI	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.2	Signal	Wnt signa	ko04310	1	151	0.996982	0.999979	WNT11	http://www.genome.jp/kegg-bin/show_pathway?koC
3.	Environ	3.2	Signal	Hippo sigı	ko04390	1	157	0.997607	0.999979	WNT11	http://www.genome.jp/kegg-bin/show_pathway?koC
5.	Organis	5.7	Sensor	Olfactory	ko04740	1	279	0.999979	0.999979	ARR3	http://www.genome.jp/kegg-bin/show_pathway?koC

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