

Table S9

layer1	layer2	layer3	ID	Input.num	Backgrou	pvalue	FDR	Input
1. Metabo	1.3 Lipid n	Fatty acid	ko00071	7	36	2.54E-05	0.003205	ACAA1 AC
5. Organ	5.2 Endoc	PPAR sign	ko03320	9	69	5.12E-05	0.003227	ACAA1 AC
1. Metabo	1.0 Global	Fatty acid	ko01212	6	59	0.003439	0.144424	ACAA1 AC
4. Cellular	4.1 Transp	Peroxisom	ko04146	7	79	0.003543	0.111597	ACAA1 AC
1. Metabo	1.1 Carbol	Propanoat	ko00640	4	31	0.007077	0.178351	ACACB AC
1. Metabo	1.3 Lipid n	Fatty acid	ko00061	3	20	0.012873	0.270326	ACACB AC
1. Metabo	1.5 Amino	Valine, leu	ko00280	4	49	0.033654	0.605771	ACAA1 EH
1. Metabo	1.11 Xeno	Drug met	ko00982	3	32	0.045018	0.709034	GSTK1 GS
5. Organ	5.2 Endoc	Glucagon	ko04922	5	78	0.045485	0.636786	ACACB CF
1. Metabo	1.11 Xeno	Fluoroben	ko00364	1	2	0.049395	0.622373	CMBL
1. Metabo	1.11 Xeno	Chlorocyc	ko00361	1	2	0.049395	0.565793	CMBL
1. Metabo	1.11 Xeno	Toluene d	ko00623	1	2	0.049395	0.518644	CMBL
1. Metabo	1.11 Xeno	Metabolis	ko00980	3	34	0.052389	0.50777	GSTK1 GS
1. Metabo	1.8 Metab	Retinol m	ko00830	3	40	0.077679	0.699111	CYP3A5 LC
5. Organ	5.2 Endoc	Adipocyto	ko04920	4	66	0.082885	0.696231	ACACB AC
1. Metabo	1.9 Metab	Geraniol d	ko00281	1	4	0.096358	0.758818	HMGCL
1. Metabo	1.11 Xeno	Caprolact	ko00930	1	4	0.096358	0.714181	EHHADH
1. Metabo	1.1 Carbol	Butanoate	ko00650	2	23	0.111875	0.783124	EHHADH H
1. Metabo	1.11 Xeno	Aminoben	ko00627	1	5	0.118965	0.788926	EHHADH
1. Metabo	1.2 Energy	Methane r	ko00680	2	26	0.137014	0.863186	ACSS1B FE
1. Metabo	1.8 Metab	Folate bio	ko00790	2	27	0.14565	0.873898	ALPI FPGS
3. Environ	3.2 Signal	AMPK sigr	ko04152	5	112	0.149128	0.854094	ACACB CF
1. Metabo	1.6 Metab	beta-Alan	ko00410	2	28	0.154394	0.845813	ACOX1 EH
5. Organ	5.4 Digest	Cholester	ko04979	3	55	0.158306	0.831105	CETP LIPC
1. Metabo	1.3 Lipid n	alpha-Linc	ko00592	2	29	0.163237	0.822717	ACAA1 AC
1. Metabo	1.11 Xeno	Drug met	ko00983	3	56	0.164377	0.796598	CES1L2 GS
1. Metabo	1.1 Carbol	Glyoxylate	ko00630	2	31	0.181177	0.845493	ACSS1B H
1. Metabo	1.3 Lipid n	Biosynthes	ko01040	2	31	0.181177	0.815297	ACAA1 AC
1. Metabo	1.3 Lipid n	Glycerolip	ko00561	3	61	0.195695	0.850261	GPAT3 LIP
4. Cellular	4.4 Cellula	Quorum s	ko02024	1	9	0.203896	0.856364	ACSL1
1. Metabo	1.3 Lipid n	Synthesis	ko00072	1	10	0.223822	0.909729	HMGCL
1. Metabo	1.1 Carbol	Pyruvate r	ko00620	2	36	0.227074	0.894104	ACACB AC
5. Organ	5.4 Digest	Mineral at	ko04978	2	38	0.245679	0.938048	MT3 MT4
1. Metabo	1.0 Global	Biosynthes	ko01130	7	204	0.249848	0.925907	ACAA1 AC
1. Metabo	1.3 Lipid n	Steroid hc	ko00140	2	39	0.255005	0.918019	CYP3A5 LC
1. Metabo	1.0 Global	Carbon m	ko01200	4	106	0.273739	0.958086	ACOX1 AC
1. Metabo	1.8 Metab	Thiamine	ko00730	1	13	0.280667	0.955784	ALPI
3. Environ	3.2 Signal	Two-com	ko02020	1	13	0.280667	0.930632	ALPI
1. Metabo	1.6 Metab	Glutathior	ko00480	2	45	0.310902	0.999512	GSTK1 GS
1. Metabo	1.1 Carbol	Ascorbate	ko00053	1	15	0.316239	0.996152	LOC12111
1. Metabo	1.8 Metab	One carb	ko00670	1	16	0.333362	0.999512	ATIC
5. Organ	5.2 Endoc	Parathyroi	ko04928	3	83	0.344113	0.999512	ARR3 CAS
1. Metabo	1.2 Energy	Nitrogen r	ko00910	1	17	0.350058	0.999512	CA5A
1. Metabo	1.8 Metab	Pantothen	ko00770	1	17	0.350058	0.999512	PANK1
5. Organ	5.2 Endoc	Melanoge	ko04916	3	86	0.364694	0.999512	ASIP CREB
1. Metabo	1.1 Carbol	Glycolysis	ko00010	2	56	0.410418	0.999512	ACSS1B FE
5. Organ	5.8 Develc	Dorso-ver	ko04320	1	21	0.412777	0.999512	SPIRE2
1. Metabo	1.1 Carbol	Pentose a	ko00040	1	21	0.412777	0.999512	LOC12111
1. Metabo	1.0 Global	Biosynthes	ko01110	11	406	0.436704	0.999512	ACAA1 AC
5. Organ	5.5 Excret	Collecting	ko04966	1	23	0.441837	0.999512	SLC4A1
1. Metabo	1.7 Glycan	Glycosami	ko00534	1	23	0.441837	0.999512	HS6ST3
4. Cellular	4.1 Transp	Endocytos	ko04144	7	252	0.443241	0.999512	ARR3 DNN
5. Organ	5.1 Immur	Antigen p	ko04612	3	103	0.478003	0.999512	LOC1211C
5. Organ	5.2 Endoc	Insulin sec	ko04911	2	65	0.486397	0.999512	CREB3L3 F
1. Metabo	1.3 Lipid n	Fatty acid	ko00062	1	27	0.495727	0.999512	HADHB
1. Metabo	1.1 Carbol	Pentose p	ko00030	1	28	0.508369	0.999512	FBP2

2. Genetic 2.4 Replicat Base excis ko03410	1	31	0.544431	0.999512	UNG
4. Cellular 4.2 Cell gr Ferroptosi ko04216	1	32	0.555856	0.999512	ACSL1
1. Metabo 1.3 Lipid n Linoleic ac ko00591	1	33	0.566996	0.999512	CYP3A5
1. Metabo 1.5 Amino Tyrosine n ko00350	1	33	0.566996	0.999512	DCT
4. Cellular 4.2 Cell gr Cellular se ko04218	4	160	0.570685	0.999512	LOC1211C
5. Organism 5.2 Endocrin Insulin sig ko04910	3	120	0.58109	0.999512	ACACB FB
5. Organism 5.1 Immur Toll and Ir ko04624	1	35	0.588446	0.999512	ANK1
1. Metabo 1.1 Carbol Galactose ko00052	1	36	0.598771	0.999512	GALE
5. Organism 5.4 Digest Fat digesti ko04975	1	37	0.608838	0.999512	FABP2
1. Metabo 1.1 Carbol Fructose a ko00051	1	37	0.608838	0.999512	FBP2
2. Genetic 2.1 Transc Basal trans ko03022	1	37	0.608838	0.999512	TAF10
3. Environ 3.1 Memb ABC trans ko02010	1	38	0.618653	0.999512	ABCA12
5. Organism 5.9 Aging Longevity ko04211	2	84	0.625218	0.999512	CREB3L3 F
5. Organism 5.5 Excret Endocrine ko04961	1	39	0.628223	0.999512	DNM1
3. Environ 3.2 Signal cAMP sigr ko04024	5	217	0.636075	0.999512	ACOX1 CF
1. Metabo 1.7 Glycan Various ty ko00513	1	40	0.637553	0.999512	MAN1B1
1. Metabo 1.5 Amino Tryptopha ko00380	1	42	0.65552	0.999512	EHHADH
5. Organism 5.6 Nervoi Cholinergi ko04725	2	90	0.662585	0.999512	CHRNA3 C
1. Metabo 1.5 Amino Arginine a ko00330	1	46	0.688834	0.999512	HOGA1
1. Metabo 1.1 Carbol Amino suç ko00520	1	46	0.688834	0.999512	GALE
3. Environ 3.2 Signal Hedgehoç ko04340	1	47	0.696648	0.999512	ARR3
1. Metabo 1.7 Glycan N-Glycan ko00510	1	48	0.704267	0.999512	MAN1B1
5. Organism 5.2 Endocrin Cortisol sy ko04927	1	49	0.711695	0.999512	CREB3L3
5. Organism 5.2 Endocrin Regulatior ko04923	1	49	0.711695	0.999512	FABP4
5. Organism 5.2 Endocrin GnRH secr ko04929	1	49	0.711695	0.999512	ARR3
2. Genetic 2.4 Replicat Fanconi ar ko03460	1	49	0.711695	0.999512	RMI2
5. Organism 5.6 Nervoi Dopamine ko04728	2	100	0.718152	0.999512	ARR3 CRE
5. Organism 5.2 Endocrin Thyroid hc ko04918	1	50	0.718937	0.999512	CREB3L3
1. Metabo 1.3 Lipid n Sphingoliç ko00600	1	50	0.718937	0.999512	SGPP2
5. Organism 5.4 Digest Bile secret ko04976	1	51	0.725997	0.999512	SLC51AL
5. Organism 5.6 Nervoi Long-tern ko04720	1	51	0.725997	0.999512	GRIN2C
5. Organism 5.2 Endocrin Relaxin siç ko04926	2	104	0.738134	0.999512	ARR3 CRE
1. Metabo 1.5 Amino Lysine deç ko00310	1	53	0.739593	0.999512	EHHADH
4. Cellular 4.1 Transp Phagosom ko04145	3	159	0.764213	0.999512	LOC1211C
3. Environ 3.2 Signal Notch sigr ko04330	1	57	0.764801	0.999512	RBPJ
5. Organism 5.2 Endocrin Thyroid hc ko04919	2	111	0.770201	0.999512	MED13 RC
5. Organism 5.3 Circula Adrenergi ko04261	2	115	0.786952	0.999512	CREB3L3 F
3. Environ 3.3 Signali Cell adhes ko04514	3	173	0.81181	0.999512	LOC1211C
5. Organism 5.2 Endocrin Growth hc ko04935	2	127	0.830928	0.999512	CREB3L3 C
5. Organism 5.2 Endocrin Aldosteron ko04925	1	71	0.835354	0.999512	CREB3L3
5. Organism 5.1 Immur Toll-like rç ko04620	1	72	0.839498	0.999512	TLR5
5. Organism 5.6 Nervoi Synaptic v ko04721	1	73	0.843538	0.999512	DNM1
3. Environ 3.2 Signal Phospholiç ko04072	2	133	0.849706	0.999512	DNM1 RA
5. Organism 5.10 Envir Thermoge ko04714	4	241	0.857433	0.999512	ACSL1 CP
5. Organism 5.1 Immur Th1 and T ko04658	1	77	0.85871	0.999512	RBPJ
3. Environ 3.2 Signal NF-kappa ko04064	1	80	0.869118	0.999512	CARD10
3. Environ 3.2 Signal TNF signa ko04668	1	82	0.875629	0.999512	CREB3L3
5. Organism 5.8 Develc Axon rege ko04361	1	86	0.887699	0.999512	PSD3
5. Organism 5.6 Nervoi Glutamate ko04724	1	88	0.893288	0.999512	GRIN2C
5. Organism 5.1 Immur Th17 cell ç ko04659	1	93	0.906079	0.999512	AHR1B
1. Metabo 1.3 Lipid n Glyceroph ko00564	1	98	0.917342	0.999512	GPAT3
5. Organism 5.10 Envir Circadian ko04713	1	100	0.92146	0.999512	GRIN2C
5. Organism 5.2 Endocrin Estrogen s ko04915	1	101	0.923442	0.999512	CREB3L3
3. Environ 3.2 Signal Sphingoliç ko04071	1	106	0.932629	0.999512	SGPP2
1. Metabo 1.0 Global Metabolic ko01100	27	1385	0.936713	0.999512	ACAA1 AC
5. Organism 5.1 Immur Leukocyte ko04670	1	112	0.942214	0.999512	RAPGEF4
5. Organism 5.6 Nervoi Retrograd ko04723	1	120	0.952914	0.999512	ABHD6
3. Environ 3.3 Signali Neuroacti ko04080	4	313	0.956442	0.999512	CHRNA3 C

5. Organism	5.1 Immune System	NOD-like receptor	ko04621	1	127	0.960642	0.999512	CASR
4. Cellular	4.1 Transport	Lysosome	ko04142	1	133	0.966252	0.999512	TPP1
5. Organism	5.1 Immune System	Chemokine	ko04062	1	133	0.966252	0.999512	ARR3
3. Environment	3.2 Signal	Apelin signaling	ko04371	1	139	0.971065	0.999512	PPARGC1A
3. Environment	3.2 Signal	cGMP-PKC	ko04022	1	140	0.971797	0.999512	CREB3L3
1. Metabolism	1.4 Nucleic Acid	Purine	me ko00230	1	141	0.972512	0.999512	ATIC
2. Genetic	2.3 Folding	Protein	pr ko04141	1	152	0.979273	0.999512	MAN1B1
3. Environment	3.2 Signal	Calcium	si ko04020	1	161	0.983552	0.999512	GRIN2C
3. Environment	3.2 Signal	Rap1 signaling	ko04015	1	188	0.99179	0.999512	RAPGEF4
3. Environment	3.2 Signal	MAPK signaling	ko04010	1	247	0.998212	0.999512	ARR3
5. Organism	5.7 Sensory	Olfactory	tr ko04740	1	279	0.999221	0.999512	ARR3
3. Environment	3.2 Signal	PI3K-Akt	si ko04151	1	297	0.999512	0.999512	CREB3L3

Hyperlink

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