

Supplemental Table 1. Genes differentially expressed by diet.

<i>Fold Change</i>	<i>False Discovery Rate (q-value)</i>	<i>ID</i>	<i>Symbol</i>	<i>Entrez Gene Name</i>
-1.375	4.104	AK155437	0610010E21RIK	succinate dehydrogenase complex assembly factor 1
1.493	4.962	AK146348	GM2056	predicted gene 2056
1.811	0.000	AK014267	3110080O07RIK	RIKEN cDNA 3110080O07 gene
-3.913	4.104	BC023946	ACACA	acetyl-Coenzyme A carboxylase alpha
-1.991	3.259	NM_133360	ACACA	acetyl-Coenzyme A carboxylase alpha
-3.159	0.000	NM_133360	ACACA	acetyl-Coenzyme A carboxylase alpha
-5.054	0.000	NM_134037	ACLY	ATP citrate lyase
1.694	4.962	AK086734	ADAM33	ADAM metalloproteinase domain 33
-1.870	4.617	NM_010347	AES	amino-terminal enhancer of split aldehyde dehydrogenase 1 family, member A1
1.847	4.571	NM_013467	ALDH1A1	aldehyde dehydrogenase 1 family, member A1
-2.963	1.662	NM_175105	AQP11	aquaporin 11
1.503	4.962	XM_133692	ARHGEF17	Rho guanine nucleotide exchange factor (GEF) 17
-3.097	0.000	NM_144921	ATP1A3	ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide
-2.093	0.000	NM_007507	ATP5I	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit E
-2.001	1.662	NM_057171	BAT3	HLA-B associated transcript 3
-2.205	3.259	NM_027430	BRP44	brain protein 44
-3.049	4.104	NM_018819	BRP44L	brain protein 44-like
-3.054	4.104	NM_018819	BRP44L	brain protein 44-like
-1.452	4.617	BC055791	C1ORF151	chromosome 1 open reading frame 151
-2.456	1.662	NM_009778	C3	complement component 3
-1.536	0.000	NM_027242	C7ORF47	chromosome 7 open reading frame 47
2.662	4.571	AK133891	CAPRN1	cell cycle associated protein 1
-1.771	4.104	NM_009824	CBFA2T3	core-binding factor, runt domain, alpha subunit 2; translocated to, 3
-1.816	0.000	NM_009824	CBFA2T3	core-binding factor, runt domain, alpha subunit 2; translocated to, 3
-1.465	4.617	NM_028763	CBX6	chromobox homolog 6
-2.024	1.662	NM_009930	COL3A1	collagen, type III, alpha 1
-1.735	1.662	NM_015734	COL5A1	collagen, type V, alpha 1
1.718	4.962	NM_007753	CPA3	carboxypeptidase A3 (mast cell)
-1.715	0.000	NM_029787	CYB5R3	cytochrome b5 reductase 3
1.772	4.571	NM_018887	CYP39A1	cytochrome P450, family 39, subfamily A, polypeptide 1
-1.457	4.617	AK152160	DCP2	DCP2 decapping enzyme homolog (S. cerevisiae)
-2.670	1.662	XM_356065	DDHD2	DDHD domain containing 2
-1.681	3.259	NM_199079	DDX17	DEAD (Asp-Glu-Ala-Asp) box polypeptide 17

-2.163	3.259	NM_145562	DKFZP564O0823	DKFZP564O0823 protein
-2.424	3.259	AK161172	DKFZP564O0823	DKFZP564O0823 protein
-1.592	1.662	AK142070	DNLZ	DNL-type zinc finger
-1.664	0.000	NM_001039520	DNM2	dynamain 2
-1.884	4.104	NM_013507	EIF4G2	eukaryotic translation initiation factor 4 gamma, 2
-4.941	1.662	NM_130450	ELOVL6	ELOVL family member 6, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like, yeast)
-2.015	0.000	AK172909	FAM120A	family with sequence similarity 120A
-1.491	4.617	NM_026501	FAM134C	family with sequence similarity 134, member C
-5.923	4.962	NM_007988	FASN	fatty acid synthase
-2.037	3.259	NM_010233	FN1	fibronectin 1
-1.717	4.617	NM_183186	FOXN3	forkhead box N3
-1.735	4.104	NM_172451	GALNT6	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (GalNAc-T6)
-2.718	0.000	X16314	GLUL	glutamate-ammonia ligase (glutamine synthetase)
-2.827	1.662	NM_027694	GOLGA7B	golgi autoantigen, golgin subfamily a, 7B
-1.410	3.259	NM_025872	GOLT1B	golgi transport 1 homolog B (S. cerevisiae)
-2.011	0.000	NM_010271	GPD1	glycerol-3-phosphate dehydrogenase 1 (soluble)
-3.793	1.662	NM_008175	GRN	granulin
-1.658	4.962	NM_198622	H1FX	H1 histone family, member X
-1.422	4.617	NM_012015	H2AFY	H2A histone family, member Y
-1.568	0.000	BC006955	H2AFY	H2A histone family, member Y
-1.816	3.259	NM_008231	HDGF	hepatoma-derived growth factor (high-mobility group protein 1-like)
-2.460	1.662	AK019388	HNRNPA0	heterogeneous nuclear ribonucleoprotein A0
-2.829	1.662	AK019388	HNRNPA0	heterogeneous nuclear ribonucleoprotein A0
-1.692	0.000	NM_177301	HNRNPL	heterogeneous nuclear ribonucleoprotein L
-1.659	4.962	NM_013543	HSD17B8	hydroxysteroid (17-beta) dehydrogenase 8
-2.811	0.000	NM_153526	INSIG1	insulin induced gene 1
-3.844	0.000	NM_153526	INSIG1	insulin induced gene 1
-1.523	1.662	NM_177673	KIAA0562	KIAA0562
-1.927	1.662	NM_010686	LAPTM5	lysosomal multispinning membrane protein 5
-3.272	1.662	NM_153168	LARS2	leucyl-tRNA synthetase 2, mitochondrial
-2.062	4.104	NM_008879	LCP1	lymphocyte cytosolic protein 1 (L-plastin)
1.684	4.962	NM_022883	LPIN3	lipin 3
1.643	4.962	AK078273	LRP1	low density lipoprotein-related protein 1 (alpha-2-macroglobulin receptor)

-2.338	4.617	NM_138680	LUC7L2	LUC7-like 2 (<i>S. cerevisiae</i>) v-maf musculoaponeurotic fibrosarcoma oncogene homolog F
-1.603	4.617	NM_010755	MAFF	(avian) mitogen-activated protein kinase-
-1.607	1.662	NM_008551	MAPKAPK2	activated protein kinase 2 microtubule associated
-1.636	4.617	XM_283179	MAST4	serine/threonine kinase family member 4
-3.000	4.617	M29546	ME1	malic enzyme 1, NADP(+)-dependent, cytosolic
-3.781	1.662	NM_008615	ME1	malic enzyme 1, NADP(+)-dependent, cytosolic mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-
-1.642	3.259	NM_010794	MGAT1	acetylglucosaminyltransferase
-1.396	4.962	NM_011550	MLX	MAX-like protein X
-3.523	3.259	NM_007789	NCAN	neurocan
-1.966	4.962	BC059729	NDUFA11	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 11, 14.7kDa
-2.065	4.104	BC059729	NDUFA11	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 11, 14.7kDa
-1.586	4.617	NM_025551	NDUFA12	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12
-1.633	4.104	AK006243	NDUFA3	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 3, 9kDa
-1.931	4.962	NM_025523	NDUFC1	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1, 6kDa
-1.726	0.000	NM_020253	NRXN2	neurexin 2
-1.541	3.259	NM_019837	NUDT3	nudix (nucleoside diphosphate linked moiety X)-type motif 3
-1.494	4.104	NM_025529	NUDT8	nudix (nucleoside diphosphate linked moiety X)-type motif 8
2.495	4.962	NM_207133	OLFR741	olfactory receptor 741
1.537	4.962	NM_011027	P2RX7	purinergic receptor P2X, ligand-gated ion channel, 7
-2.195	3.259	AK165090	PDK1	pyruvate dehydrogenase kinase, isozyme 1
-1.947	4.104	BC011329	PGD	phosphogluconate dehydrogenase
-1.591	1.662	NM_008842	PIM1	pim-1 oncogene
-1.817	4.962	NM_133249	PPARGC1B	peroxisome proliferator-activated receptor gamma, coactivator 1 beta
-1.699	4.104	NM_033573	PRCC	papillary renal cell carcinoma (translocation-associated)
-1.786	4.962	NM_011100	PRKACB	protein kinase, cAMP-dependent, catalytic, beta
1.988	4.962	NM_008934	PROC	protein C (inactivator of coagulation factors Va and VIIIa)
-3.679	1.662	AJ428208	PTPRZ1	protein tyrosine phosphatase, receptor- type, Z polypeptide 1
-1.832	1.662	NM_173781	RAB6B	RAB6B, member RAS oncogene family

-2.466	0.000	NM_173781	RAB6B	RAB6B, member RAS oncogene family
-2.180	0.000	NM_011241	RANGAP1	Ran GTPase activating protein 1
-1.741	4.617	NM_139065	RBM47	RNA binding motif protein 47
-3.159	0.000	NR_001460	RMRP (includes EG:6023)	RNA component of mitochondrial RNA processing endoribonuclease
-1.714	4.104	NM_027434	RPRD1B	regulation of nuclear pre-mRNA domain containing 1B
-1.669	1.662	NM_009097	RPS6KA1	ribosomal protein S6 kinase, 90kDa, polypeptide 1
-2.203	0.000	NM_009127	SCD	stearoyl-CoA desaturase (delta-9-desaturase)
-2.492	0.000	NM_009128	SCD2	stearoyl-Coenzyme A desaturase 2
-1.554	4.962	NM_029457	SEN2	SUMO1/sentrin/SMT3 specific peptidase 2
-2.087	1.662	NM_030241	SETD8	SET domain containing (lysine methyltransferase) 8
-1.654	4.962	AK159076	SIN3B	SIN3 homolog B, transcription regulator (yeast)
-2.010	1.662	NM_019812	SIRT1	sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae)
2.019	0.000	AK035727	SLIT3	slit homolog 3 (Drosophila)
-1.749	4.104	NM_009229	SNTB2	syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2)
-2.800	0.000	NM_030889	SORCS2	sortilin-related VPS10 domain containing receptor 2
-1.555	4.962	AK050824	SRCAP	Snf2-related CREBBP activator protein
-2.097	4.104	NM_009176	ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3
-1.413	4.962	NM_011532	TBX1	T-box 1
-1.572	4.104	NM_027215	TMEM147	transmembrane protein 147
-1.535	3.259	NM_025791	TMEM223	transmembrane protein 223
-1.484	4.617	NM_138579	TRIOBP	TRIO and F-actin binding protein
-2.255	4.617	NM_019828	TRPC4AP	transient receptor potential cation channel, subfamily C, member 4 associated protein
1.551	4.571	NM_053082	TSPAN4	tetraspanin 4
-1.364	4.617	NM_013933	VAPA	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa
-2.049	1.662	NM_009505	VEGFA	vascular endothelial growth factor A
-1.628	4.104	NM_153085	WAC	WW domain containing adaptor with coiled-coil
2.039	4.962	NM_026083	ZC3H13	zinc finger CCCH-type containing 13
1.613	4.571	NM_145612	ZFP810	zinc finger protein 810

Supplemental Table 2. Functional categories of diet-induced differentially expressed genes.

<i>Category</i>	<i>Function</i>	<i>Function Annotation</i>	<i>P-value</i>	<i>Genes</i>	<i># Genes</i>
Lipid Metabolism	modification	modification of acyl-coenzyme A	3.51E-07	ACACA, ACLY, ELOVL6, FASN, SCD	5
Lipid Metabolism	modification	modification of fatty acid	3.65E-04	ACACA, ACLY, C3, ELOVL6, FASN, SCD	6
Lipid Metabolism	modification	modification of long-chain acyl-coenzyme A	2.30E-03	ELOVL6, SCD	2
Lipid Metabolism	modification	modification of palmitic acid	2.10E-02	FASN, SCD	2
Lipid Metabolism	synthesis	synthesis of fatty acid	4.00E-06	ACACA, ACLY, FASN, SCD, SCD2, SIRT1	6
Lipid Metabolism	synthesis	synthesis of lipid	2.03E-05	ACACA, ACLY, C3, FASN, INSIG1, P2RX7, SCD, SCD2, SIRT1, VEGFA	10
Lipid Metabolism	synthesis	synthesis of malonyl-coenzyme A	3.62E-05	FASN	2
Lipid Metabolism	synthesis	synthesis of acyl-coenzyme A	9.25E-05	ACACA, ACLY, FASN	3
Lipid Metabolism	synthesis	synthesis of triacylglycerol	1.12E-03	C3, FASN, SCD	3
Lipid Metabolism	synthesis	synthesis of acetyl-coenzyme A	1.92E-03	ACLY, FASN	2
Lipid Metabolism	synthesis	synthesis of 1-alkyl-2,3-diacylglycerol	6.05E-03	SCD	1
Lipid Metabolism	synthesis	synthesis of myristic acid	6.05E-03	FASN	1
Lipid Metabolism	synthesis	synthesis of monounsaturated fatty acids	1.80E-02	SCD	1
Lipid Metabolism	synthesis	synthesis of stearic acid	1.80E-02	FASN, ACACA, ACLY	1
Lipid Metabolism	conversion	conversion of acyl-coenzyme A	1.17E-05	FASN	3
Lipid Metabolism	conversion	conversion of malonyl-coenzyme A	3.62E-05	ACACA, FASN	2

Lipid Metabolism	conversion	conversion of acetyl-coenzyme A	2.16E-04	ACACA, ACLY	2
Lipid Metabolism	conversion	conversion of palmitic acid	1.21E-02	FASN	1
Lipid Metabolism	quantity	quantity of lipid	1.12E-04	ACACA, ACLY, C3, FASN, LRP1, MAPKAPK2, P2RX7, PPARGC1B, SCD, SCD2, SIRT1	11
Lipid Metabolism	quantity	quantity of fatty acid	1.25E-04	ACACA, ACLY, C3, LRP1, SCD, SIRT1	6
Lipid Metabolism	quantity	quantity of acylglycerol	1.85E-04	ACACA, ACLY, SCD, PPARGC1B, SCD2	7
Lipid Metabolism	quantity	quantity of malonyl-coenzyme A	2.63E-04	SCD	3
Lipid Metabolism	quantity	quantity of long-chain acyl-coenzyme A	3.58E-04	ACACA, SCD, ACACA, FASN, LRP1, PPARGC1B, SCD, SCD2	2
Lipid Metabolism	quantity	quantity of triacylglycerol	4.61E-04	INSIG1, LRP1, PPARGC1B, SCD, SIRT1	6
Lipid Metabolism	quantity	quantity of cholesterol	1.86E-03	SIRT1	5
Lipid Metabolism	quantity	quantity of 1-alkyl-2,3-diacylglycerol	6.05E-03	SCD	1
Lipid Metabolism	quantity	quantity of 18:1(n-9) fatty acids	6.05E-03	SCD	1
Lipid Metabolism	quantity	quantity of palmitoleoyl-coenzyme A	6.05E-03	SCD	1
Lipid Metabolism	quantity	quantity of palmitoyl-coenzyme A	6.05E-03	SCD	1
Lipid Metabolism	quantity	quantity of stearoyl-coenzyme A	6.05E-03	SCD	1

Lipid Metabolism	quantity	quantity of oleic acid	1.80E-02	SCD ACACA, INSIG1,	1
Lipid Metabolism	accumulation	accumulation of triacylglycerol	4.43E-04	SCD, SIRT1 ACACA, FN1, INSIG1,	4
Lipid Metabolism	accumulation	accumulation of lipid	4.94E-03	SCD, SIRT1	5
Lipid Metabolism	accumulation	accumulation of palmitoleic acid	6.05E-03	SCD	1
Lipid Metabolism	accumulation	accumulation of oleic acid	1.80E-02	SCD	1
Lipid Metabolism	biosynthesis	biosynthesis of fatty acid	9.36E-04	ACLY, SCD, SCD2 ACLY, FASN, P2RX7,	3
Lipid Metabolism	biosynthesis	biosynthesis of lipid	2.42E-03	SCD, SCD2 ACLY, FASN,	5
Lipid Metabolism	incorporation	incorporation of lipid	1.12E-03	SCD	3
Lipid Metabolism	clearance	clearance of triacylglycerol	1.92E-03	C3, LRP1	2
Lipid Metabolism	clearance	clearance of retinol	1.21E-02	ALDH1A1	1
Lipid Metabolism	clearance	delay in clearance of lipid	1.21E-02	LRP1	1
Lipid Metabolism	clearance	clearance of fatty acid	1.80E-02	C3	1
Lipid Metabolism	clearance	clearance of retinaldehyde	1.80E-02	ALDH1A1	1
Lipid Metabolism	desaturation	desaturation of palmitoleic acid	6.05E-03	SCD	1
Lipid Metabolism	desaturation	desaturation of palmitoyl-coenzyme A	6.05E-03	SCD	1
Lipid Metabolism	desaturation	desaturation of stearoyl-coenzyme A	6.05E-03	SCD	1
Lipid Metabolism	desaturation	desaturation of palmitic acid	1.21E-02	SCD	1
Lipid Metabolism	elongation	elongation of lauroyl-coenzyme A	6.05E-03	ELOVL6	1
Lipid Metabolism	elongation	elongation of myristic acid	6.05E-03	ELOVL6	1
Lipid Metabolism	elongation	elongation of myristoyl-coenzyme A	6.05E-03	ELOVL6	1
Lipid Metabolism	elongation	elongation of palmitoleoyl-coenzyme A	6.05E-03	ELOVL6	1

Lipid Metabolism	elongation	elongation of palmitic acid	1.21E-02	ELOVL6	1
Lipid Metabolism	elongation	elongation of palmitoyl-coenzyme A	1.21E-02	ELOVL6	1
Lipid Metabolism	elongation	elongation of stearic acid	1.21E-02	ELOVL6	1
Lipid Metabolism	formation	formation of malonyl-coenzyme A	6.05E-03	ACACA	1
Lipid Metabolism	formation	formation of lipid	1.35E-02	ACACA, SCD, VEGFA	3
Lipid Metabolism	redistribution	redistribution of linoleic acid	6.05E-03	SCD2	1
Lipid Metabolism	metabolism	metabolism of fatty acid	6.41E-03	ACACA, ACLY, SCD, SCD2, FASN, LRP1, P2RX7, SCD	4
Lipid Metabolism	metabolism	metabolism of lipid	2.01E-02	ACACA, ACLY, FASN, LRP1, P2RX7, SCD, SCD2	7
Lipid Metabolism	metabolic process	metabolic process of lipid	8.65E-03	SIRT1	8
Lipid Metabolism	production	production of acylglycerol	9.92E-03	C3, P2RX7	2
Lipid Metabolism	production	production of 1-oleoylglycerol	1.21E-02	C3	1
Lipid Metabolism	production	production of 2-arachidonoylglycerol	1.80E-02	P2RX7	1
Lipid Metabolism	concentration	concentration of retinaldehyde	1.21E-02	ALDH1A1	1
Lipid Metabolism	concentration	concentration of retinoic acid	1.21E-02	ALDH1A1	1
Lipid Metabolism	esterification	esterification of cholesterol ester	1.21E-02	SCD	1
Lipid Metabolism	toxicity	toxicity of retinol	1.21E-02	ALDH1A1	1
Lipid Metabolism	distribution	distribution of lipid	1.24E-02	P2RX7, SCD2	2
Lipid Metabolism	secretion	secretion of fatty acid	1.80E-02	SCD	1
Lipid Metabolism	transport	transport of cholesterol ester	1.80E-02	LRP1	1

Nucleic Acid Metabolism	modification	modification of acyl-coenzyme A	3.51E-07	ACACA, ACLY, ELOVL6, FASN, SCD	5
Nucleic Acid Metabolism	modification	modification of long-chain acyl-coenzyme A	2.30E-03	ELOVL6, SCD	2
Nucleic Acid Metabolism	conversion	conversion of acyl-coenzyme A	1.17E-05	ACACA, ACLY, FASN	3
Nucleic Acid Metabolism	conversion	conversion of malonyl-coenzyme A	3.62E-05	ACACA, FASN	2
Nucleic Acid Metabolism	conversion	conversion of acetyl-coenzyme A	2.16E-04	ACACA, ACLY	2
Nucleic Acid Metabolism	synthesis	synthesis of malonyl-coenzyme A	3.62E-05	ACACA, FASN	2
Nucleic Acid Metabolism	synthesis	synthesis of acyl-coenzyme A	9.25E-05	ACACA, ACLY, FASN	3
Nucleic Acid Metabolism	synthesis	synthesis of acetyl-coenzyme A	1.92E-03	ACACA, FASN	2
Nucleic Acid Metabolism	synthesis	synthesis of NADPH	6.05E-03	FASN	1
Nucleic Acid Metabolism	quantity	quantity of malonyl-coenzyme A	2.63E-04	ACACA, ACLY, SCD	3
Nucleic Acid Metabolism	quantity	quantity of long-chain acyl-coenzyme A	3.58E-04	ACACA, SCD	2
Nucleic Acid Metabolism	quantity	quantity of palmitoleoyl-coenzyme A	6.05E-03	SCD	1
Nucleic Acid Metabolism	quantity	quantity of palmitoyl-coenzyme A	6.05E-03	SCD	1
Nucleic Acid Metabolism	quantity	quantity of stearoyl-coenzyme A	6.05E-03	SCD	1
Nucleic Acid Metabolism	catabolism	catabolism of diadenosine polyphosphate	6.05E-03	NUDT3	1
Nucleic Acid Metabolism	desaturation	desaturation of palmitoyl-coenzyme A	6.05E-03	SCD	1
Nucleic Acid Metabolism	desaturation	desaturation of stearoyl-coenzyme A	6.05E-03	SCD	1
Nucleic Acid Metabolism	elongation	elongation of lauroyl-coenzyme A	6.05E-03	ELOVL6	1
Nucleic Acid Metabolism	elongation	elongation of myristoyl-coenzyme A	6.05E-03	ELOVL6	1
Nucleic Acid Metabolism	elongation	elongation of palmitoleoyl-coenzyme A	6.05E-03	ELOVL6	1
Nucleic Acid Metabolism	elongation	elongation of palmitoyl-coenzyme A	1.21E-02	ELOVL6	1
Nucleic Acid Metabolism	formation	formation of malonyl-coenzyme A	6.05E-03	ACACA	1
Nucleic Acid Metabolism	metabolism	metabolism of coenzyme A	1.21E-02	ACLY	1

Nucleic Acid Metabolism	metabolism	metabolism of ATP	1.24E-02	ACLY, ATP5I	2
Nucleic Acid Metabolism	oxidation	oxidation of NADH	1.80E-02	GPD1	1
Small Molecule Biochemistry	modification	modification of acyl-coenzyme A	3.51E-07	ACACA, ACLY, ELOVL6, FASN, SCD	5
Small Molecule Biochemistry	modification	modification of fatty acid	3.65E-04	ACACA, ACLY, C3, ELOVL6, FASN, SCD	6
Small Molecule Biochemistry	modification	modification of long-chain acyl-coenzyme A	2.30E-03	ELOVL6, SCD	2
Small Molecule Biochemistry	modification	modification of glutamine	1.80E-02	GLUL	1
Small Molecule Biochemistry	modification	modification of palmitic acid	2.10E-02	FASN, SCD	2
Small Molecule Biochemistry	synthesis	synthesis of fatty acid	4.00E-06	ACACA, ACLY, C3, FASN, SCD, SCD2, SIRT1	6
Small Molecule Biochemistry	synthesis	synthesis of lipid	2.03E-05	ACACA, ACLY, C3, FASN, INSIG1, P2RX7, SCD, SCD2, SIRT1, VEGFA	10
Small Molecule Biochemistry	synthesis	synthesis of malonyl-coenzyme A	3.62E-05	ACACA, FASN	2
Small Molecule Biochemistry	synthesis	synthesis of acyl-coenzyme A	9.25E-05	ACACA, ACLY, FASN	3
Small Molecule Biochemistry	synthesis	synthesis of triacylglycerol	1.12E-03	C3, FASN, SCD	3
Small Molecule Biochemistry	synthesis	synthesis of acetyl-coenzyme A	1.92E-03	ACLY, FASN	2
Small Molecule Biochemistry	synthesis	synthesis of 1-alkyl-2,3-diacylglycerol	6.05E-03	SCD	1

Small Molecule Biochemistry	synthesis	synthesis of NADPH	6.05E-03	FASN	1
Small Molecule Biochemistry	synthesis	synthesis of myristic acid	6.05E-03	FASN	1
Small Molecule Biochemistry	synthesis	synthesis of monounsaturated fatty acids	1.80E-02	SCD	1
Small Molecule Biochemistry	synthesis	synthesis of stearic acid	1.80E-02	FASN	1
Small Molecule Biochemistry	conversion	conversion of acyl-coenzyme A	1.17E-05	ACACA, ACLY, FASN	3
Small Molecule Biochemistry	conversion	conversion of malonyl-coenzyme A	3.62E-05	ACACA, FASN	2
Small Molecule Biochemistry	conversion	conversion of acetyl-coenzyme A	2.16E-04	ACACA, ACLY	2
Small Molecule Biochemistry	conversion	conversion of palmitic acid	1.21E-02	FASN	1
Small Molecule Biochemistry	conversion	conversion of citric acid	1.80E-02	ACLY	1
Small Molecule Biochemistry	quantity	quantity of lipid	1.12E-04	ACACA, ACLY, C3, FASN, LRP1, MAPKAPK 2, P2RX7, PPARGC1 B, SCD, SCD2, SIRT1	11
Small Molecule Biochemistry	quantity	quantity of fatty acid	1.25E-04	ACACA, ACLY, C3, LRP1, SCD, SIRT1	6
Small Molecule Biochemistry	quantity	quantity of acylglycerol	1.85E-04	ACACA, ACLY, C3, LRP1, P2RX7, PPARGC1 B, SCD, SCD2	7
Small Molecule Biochemistry	quantity	quantity of malonyl-coenzyme A	2.63E-04	ACACA, ACLY, SCD	3

Small Molecule Biochemistry	quantity	quantity of long-chain acyl-coenzyme A	3.58E-04	ACACA, SCD	2
Small Molecule Biochemistry	quantity	quantity of triacylglycerol	4.61E-04	ACACA, FASN, LRP1, PPARGC1B, SCD, SCD2	6
Small Molecule Biochemistry	quantity	quantity of cholesterol	1.86E-03	INSIG1, LRP1, PPARGC1B, SCD, SIRT1	5
Small Molecule Biochemistry	quantity	quantity of 1-alkyl-2,3-diacylglycerol	6.05E-03	SCD	1
Small Molecule Biochemistry	quantity	quantity of 18:1(n-9) fatty acids	6.05E-03	SCD	1
Small Molecule Biochemistry	quantity	quantity of palmitoleoyl-coenzyme A	6.05E-03	SCD	1
Small Molecule Biochemistry	quantity	quantity of palmitoyl-coenzyme A	6.05E-03	SCD	1
Small Molecule Biochemistry	quantity	quantity of stearoyl-coenzyme A	6.05E-03	SCD	1
Small Molecule Biochemistry	quantity	quantity of oleic acid	1.80E-02	SCD	1
Small Molecule Biochemistry	accumulation	accumulation of triacylglycerol	4.43E-04	ACACA, INSIG1, SCD, SIRT1	4
Small Molecule Biochemistry	accumulation	accumulation of lipid	4.94E-03	ACACA, FN1, INSIG1, SCD, SIRT1	5
Small Molecule Biochemistry	accumulation	accumulation of palmitoleic acid	6.05E-03	SCD	1
Small Molecule Biochemistry	accumulation	accumulation of oleic acid	1.80E-02	SCD	1
Small Molecule Biochemistry	biosynthesis	biosynthesis of fatty acid	9.36E-04	ACLY, SCD, SCD2	3

Small Molecule Biochemistry	biosynthesis	biosynthesis of lipid	2.42E-03	ACLY, FASN, P2RX7, SCD, SCD2	5
Small Molecule Biochemistry	incorporation	incorporation of lipid	1.12E-03	ACLY, FASN, SCD	3
Small Molecule Biochemistry	incorporation	incorporation of D-glucose	2.70E-03	ACLY, FASN	2
Small Molecule Biochemistry	incorporation	incorporation of glycerol	6.05E-03	SCD	1
Small Molecule Biochemistry	clearance	clearance of triacylglycerol	1.92E-03	C3, LRP1	2
Small Molecule Biochemistry	clearance	clearance of retinol	1.21E-02	ALDH1A1	1
Small Molecule Biochemistry	clearance	delay in clearance of lipid	1.21E-02	LRP1	1
Small Molecule Biochemistry	clearance	clearance of fatty acid	1.80E-02	C3	1
Small Molecule Biochemistry	clearance	clearance of retinaldehyde	1.80E-02	ALDH1A1	1
Small Molecule Biochemistry	catabolism	catabolism of diadenosine polyphosphate	6.05E-03	NUDT3	1
Small Molecule Biochemistry	desaturation	desaturation of palmitoleic acid	6.05E-03	SCD	1
Small Molecule Biochemistry	desaturation	desaturation of palmitoyl-coenzyme A	6.05E-03	SCD	1
Small Molecule Biochemistry	desaturation	desaturation of stearoyl-coenzyme A	6.05E-03	SCD	1
Small Molecule Biochemistry	desaturation	desaturation of palmitic acid	1.21E-02	SCD	1
Small Molecule Biochemistry	elongation	elongation of lauroyl-coenzyme A	6.05E-03	ELOVL6	1
Small Molecule Biochemistry	elongation	elongation of myristic acid	6.05E-03	ELOVL6	1
Small Molecule Biochemistry	elongation	elongation of myristoyl-coenzyme A	6.05E-03	ELOVL6	1

Small Molecule Biochemistry	elongation	elongation of palmitoleoyl-coenzyme A	6.05E-03	ELOVL6	1
Small Molecule Biochemistry	elongation	elongation of palmitic acid	1.21E-02	ELOVL6	1
Small Molecule Biochemistry	elongation	elongation of palmitoyl-coenzyme A	1.21E-02	ELOVL6	1
Small Molecule Biochemistry	elongation	elongation of stearic acid	1.21E-02	ELOVL6	1
Small Molecule Biochemistry	formation	formation of malonyl-coenzyme A	6.05E-03	ACACA	1
Small Molecule Biochemistry	formation	formation of lipid	1.35E-02	ACACA, SCD, VEGFA	3
Small Molecule Biochemistry	redistribution	redistribution of linoleic acid	6.05E-03	SCD2	1
Small Molecule Biochemistry	upregulation	upregulation of Ca ²⁺	6.05E-03	VEGFA	1
Small Molecule Biochemistry	metabolism	metabolism of fatty acid	6.41E-03	ACACA, ACLY, SCD, SCD2	4
Small Molecule Biochemistry	metabolism	metabolism of coenzyme A	1.21E-02	ACLY	1
Small Molecule Biochemistry	metabolism	metabolism of glycerophosphoric acid	1.21E-02	GPD1	1
Small Molecule Biochemistry	metabolism	metabolism of ATP	1.24E-02	ACLY, ATP5I	2
Small Molecule Biochemistry	metabolism	metabolism of citric acid	1.80E-02	ACLY	1
Small Molecule Biochemistry	metabolism	metabolism of lipid	2.01E-02	ACACA, ACLY, FASN, LRP1, P2RX7, SCD, SCD2	7

Small Molecule Biochemistry	metabolic process	metabolic process of lipid	8.65E-03	ACACA, ACLY, FASN, LRP1, P2RX7, SCD, SCD2, SIRT1	8
Small Molecule Biochemistry	production	production of acylglycerol	9.92E-03	C3, P2RX7	2
Small Molecule Biochemistry	production	production of 1-oleoylglycerol	1.21E-02	C3	1
Small Molecule Biochemistry	production	production of 2-arachidonoylglycerol	1.80E-02	P2RX7	1
Small Molecule Biochemistry	concentration	concentration of retinaldehyde	1.21E-02	ALDH1A1	1
Small Molecule Biochemistry	concentration	concentration of retinoic acid	1.21E-02	ALDH1A1	1
Small Molecule Biochemistry	esterification	esterification of cholesterol ester	1.21E-02	SCD	1
Small Molecule Biochemistry	release	release of proteoglycan	1.21E-02	FN1	1
Small Molecule Biochemistry	toxicity	toxicity of retinol	1.21E-02	ALDH1A1	1
Small Molecule Biochemistry	distribution	distribution of lipid	1.24E-02	P2RX7, SCD2	2
Small Molecule Biochemistry	deacetylation	deacetylation of amino acids	1.80E-02	SIRT1	1
Small Molecule Biochemistry	oxidation	oxidation of NADH	1.80E-02	GPD1	1
Small Molecule Biochemistry	secretion	secretion of fatty acid	1.80E-02	SCD	1
Small Molecule Biochemistry	transport	transport of cholesterol ester	1.80E-02	LRP1	1
Small Molecule Biochemistry	transport	transport of glycerol	1.80E-02	AQP11	1

Nutritional Disease	nutritional disorder	nutritional disorder of mice	5.55E-05	C3, FASN, FN1, LRP1, PPARGC1B, PROC (includes EG:5624), RPS6KA1, SCD	8
Nutritional Disease	obesity	obesity of mice	4.30E-03	C3, LRP1, PPARGC1B, SCD	4
Organismal Functions	healing	healing of lesion	6.91E-05	COL3A1, COL5A1, FN1, GRN, VEGFA	5
Organismal Functions	healing	healing of wound	5.03E-04	COL3A1, COL5A1, FN1, GRN	4
Organismal Functions	healing	healing of ulcer	6.05E-03	VEGFA	1
Organismal Functions	recovery	recovery of mice	7.06E-03	LRP1, PTPRZ1	2
Organismal Functions	neovascularization	neovascularization of wound	1.21E-02	VEGFA	1
Organismal Functions	energy expenditure	energy expenditure of mice	1.89E-02	LRP1, SCD, FN1, LRP1, MGAT1	2
Cancer	detachment	detachment of tumor cell lines	7.44E-05	MGAT1	3
Cancer	detachment	detachment of cervical cancer cell lines	1.80E-02	FN1	1
Cancer	growth	growth of skin cancer cell lines	1.58E-03	FN1, VEGFA	2
Cancer	growth	arrest in growth of carcinoma cells	6.05E-03	SIRT1	1
Cancer	growth	growth of adrenal carcinoma cells	1.21E-02	GRN	1
Cancer	mucoepidermoid carcinoma	mucoepidermoid carcinoma	2.22E-03	FN1, INSIG1, PRKACB	3
Cancer	migration	migration of brain cancer cell lines	2.37E-03	FN1, PTPRZ1, VEGFA	3
Cancer	migration	migration of cervical cancer cell lines	1.24E-02	FN1, MAPKAPK2	2
Cancer	migration	migration of tumor cell lines	1.94E-02	FN1, GRN, LRP1, MAPKAPK2, PTPRZ1, VEGFA	6

Cancer	von Hippel-Lindau syndrome	von Hippel-Lindau syndrome	3.61E-03	RPS6KA1, VEGFA, ATP1A3, DDX17, RPS6KA1,	2
Cancer	adenoma	adenoma	3.90E-03	VEGFA, FN1,	4
Cancer	haptotaxis	haptotaxis of tumor cell lines	4.64E-03	VEGFA	2
Cancer	haptotaxis	haptotaxis of breast cancer cell lines	6.05E-03	FN1, AQP11,	1
Cancer	formation	formation of pathological cyst	5.79E-03	VEGFA	2
Cancer	formation	formation of hemangioma	1.21E-02	VEGFA, LRP1,	1
Cancer	invasion	invasion of endothelial cells	5.79E-03	VEGFA, FN1, LRP1,	2
Cancer	invasion	invasion of normal cells	1.30E-02	VEGFA	3
Cancer	invasion	invasion of blood vessel	1.80E-02	VEGFA	1
Cancer	expansion	delay in expansion of melanoma cell lines	6.05E-03	VEGFA	1
Cancer	hyperplasia	delay in hyperplasia of hepatocytes	6.05E-03	C3	1
Cancer	hyperplasia	hyperplasia of dendritic cells	6.05E-03	VEGFA	1
Cancer	hyperplasia	hyperplasia of splenocytes	6.05E-03	VEGFA	1
Cancer	tumorigenesis	tumorigenesis of glioblastoma cells	6.05E-03	VEGFA	1
Cancer	vascularization	vascularization of breast carcinoma	6.05E-03	VEGFA	1
Cancer	volume	volume of prostate cancer cell lines	6.05E-03	FASN, FN1,	1
Cancer	acinar-cell carcinoma	acinar-cell carcinoma	7.06E-03	PRKACB, FASN,	2
Cancer	apoptosis	apoptosis of carcinoma cells	9.92E-03	SIRT1, COL3A1,	2
Cancer	peripheral T-cell lymphoma	peripheral T-cell lymphoma	1.15E-02	FN1	2
Cancer	anoikis	anoikis of squamous cell carcinoma cell lines	1.21E-02	FN1	1
Cancer	anoikis	anoikis of tumor cell lines	1.41E-02	FN1, GRN	2
Cancer	cell-cell contact	cell-cell contact of prostate cancer cell lines	1.21E-02	FASN	1
Cancer	healing	healing of bladder cancer cell lines	1.21E-02	GRN	1
Cancer	hypoxia	hypoxia of breast carcinoma	1.21E-02	VEGFA	1
Cancer	sensitization	sensitization of prostate cancer cell lines	1.21E-02	PIM1	1
Cancer	tubular adenoma	tubular adenoma	1.21E-02	DDX17	1
Cancer	villous adenoma	villous adenoma	1.21E-02	DDX17, RPS6KA1,	1
Cancer	survival	survival of cancer cells	1.32E-02	VEGFA, ACLY, DDX17, INSIG1,	2
Cancer	colorectal carcinoma	colorectal carcinoma	1.48E-02	VEGFA	4
Cancer	attachment	attachment of tumor cell lines	1.60E-02	FN1, LRP1	2
Cancer	attachment	attachment of leukemia cell lines	1.80E-02	FN1	1
Cancer	adhesion	adhesion of glioma cells	1.80E-02	FN1	1

Cancer	adhesion	adhesion of pancreatic cancer cell lines	2.40E-02	FN1	1
Cancer	cell rounding fibrous	cell rounding of cervical cancer cell lines	1.80E-02	FN1	1
Cancer	histiocytoma	fibrous histiocytoma	1.80E-02	VEGFA	1
Cancer	mitosis	mitosis of carcinoma cell lines	1.80E-02	GRN	1
Cancer	transformation	transformation of cervical vertebra	1.80E-02	ALDH1A1	1
Cancer	T-cell non-hodgkin lymphoma	T-cell non-hodgkin lymphoma	1.83E-02	COL3A1, FN1, PIM1	3
Cell-To-Cell Signaling and Interaction	detachment	detachment of tumor cell lines	7.44E-05	FN1, LRP1, MGAT1	3
Cell-To-Cell Signaling and Interaction	detachment	detachment of eukaryotic cells	1.42E-04	FN1, LRP1, MGAT1, VEGFA	4
Cell-To-Cell Signaling and Interaction	detachment	detachment of hematopoietic progenitor cells	6.05E-03	FN1	1
Cell-To-Cell Signaling and Interaction	detachment	detachment of normal cells	8.44E-03	FN1, VEGFA	2
Cell-To-Cell Signaling and Interaction	detachment	detachment of cervical cancer cell lines	1.80E-02	FN1	1
Cell-To-Cell Signaling and Interaction	detachment	detachment of endothelial cells	1.80E-02	VEGFA	1
Cell-To-Cell Signaling and Interaction	attachment	attachment of fibroblasts	2.30E-03	FN1, LRP1	2
Cell-To-Cell Signaling and Interaction	attachment	attachment of bone-marrow-derived monocyte/macrophage precursor cells	1.21E-02	FN1	1
Cell-To-Cell Signaling and Interaction	attachment	attachment of epithelial cell lines	1.21E-02	FN1	1
Cell-To-Cell Signaling and Interaction	attachment	attachment of fibroblast cell lines	1.21E-02	FN1	1
Cell-To-Cell Signaling and Interaction	attachment	attachment of tumor cell lines	1.60E-02	FN1, LRP1	2
Cell-To-Cell Signaling and Interaction	attachment	attachment of leukemia cell lines	1.80E-02	FN1	1
Cell-To-Cell Signaling and Interaction	adhesion	adhesion of bone cell lines	3.14E-03	FN1, VEGFA	2

Cell-To-Cell Signaling and Interaction	adhesion	adhesion of eosinophils	9.92E-03	C3, FN1	2
Cell-To-Cell Signaling and Interaction	adhesion	adhesion of neuroepithelial cells	1.21E-02	FN1	1
Cell-To-Cell Signaling and Interaction	adhesion	adhesion of embryonic cell lines	1.24E-02	C3, FN1	2
Cell-To-Cell Signaling and Interaction	adhesion	adhesion of granulocytes	1.39E-02	C3, FN1, LCP1	3
Cell-To-Cell Signaling and Interaction	adhesion	adhesion of epithelial cell lines	1.50E-02	C3, FN1, FN1, PROC (includes EG:5624),	2
Cell-To-Cell Signaling and Interaction	adhesion	adhesion of endothelial cells	1.72E-02	VEGFA, C3, FN1, LCP1, PROC (includes EG:5624),	3
Cell-To-Cell Signaling and Interaction	adhesion	adhesion of leukocytes	1.78E-02	VEGFA	5
Cell-To-Cell Signaling and Interaction	adhesion	adhesion of astrocytes	1.80E-02	FN1	1
Cell-To-Cell Signaling and Interaction	adhesion	adhesion of glioma cells	1.80E-02	FN1	1
Cell-To-Cell Signaling and Interaction	adhesion	adhesion of hOB cells	1.80E-02	FN1	1
Cell-To-Cell Signaling and Interaction	adhesion	adhesion of fibroblast cell lines	2.10E-02	FN1, VEGFA	2
Cell-To-Cell Signaling and Interaction	adhesion	adhesion of kidney cell lines	2.21E-02	C3, FN1	2
Cell-To-Cell Signaling and Interaction	adhesion	adhesion of leukocyte cell lines	2.32E-02	FN1, VEGFA	2
Cell-To-Cell Signaling and Interaction	adhesion	adhesion of pancreatic cancer cell lines	2.40E-02	FN1	1
Cell-To-Cell Signaling and Interaction	aggregation	aggregation of focal adhesions	6.05E-03	VEGFA	1
Cell-To-Cell Signaling and Interaction	disorganization	disorganization of tight junctions	6.05E-03	VEGFA	1

Cell-To-Cell Signaling and Interaction	fusion	fusion of multinucleated giant cells	6.05E-03	P2RX7	1
Cell-To-Cell Signaling and Interaction	recruitment	recruitment of bone marrow-derived endothelial progenitor cells	6.05E-03	VEGFA	1
Cell-To-Cell Signaling and Interaction	recruitment	recruitment of hematopoietic progenitor cells	1.80E-02	VEGFA	1
Cell-To-Cell Signaling and Interaction	targeting	targeting of endothelial cells	6.05E-03	VEGFA	1
Cell-To-Cell Signaling and Interaction	assembly	assembly of focal adhesions	6.41E-03	FN1, VEGFA	2
Cell-To-Cell Signaling and Interaction	activation	activation of endothelial cells	9.92E-03	C3, VEGFA	2
Cell-To-Cell Signaling and Interaction	activation	activation of chondrocytes	1.80E-02	FN1	1
Cell-To-Cell Signaling and Interaction	accumulation	accumulation of focal adhesions	1.21E-02	LRP1	1
Cell-To-Cell Signaling and Interaction	cell-cell contact	cell-cell contact of prostate cancer cell lines	1.21E-02	FASN	1
Cell-To-Cell Signaling and Interaction	fibrogenesis	fibrogenesis of fibronectin matrix	1.21E-02	FN1	1
Cell-To-Cell Signaling and Interaction	formation	delay in formation of focal adhesions	1.21E-02	FN1	1
Cell-To-Cell Signaling and Interaction	sensitization	sensitization of prostate cancer cell lines	1.21E-02	PIM1	1
Cell-To-Cell Signaling and Interaction	transduction	transduction of multilineage progenitor cells	1.21E-02	FN1	1
Cell-To-Cell Signaling and Interaction	quantity	quantity of focal adhesions	1.41E-02	FN1, VEGFA	2
Cell-To-Cell Signaling and Interaction	binding	binding of adipose cell lines	1.80E-02	FN1	1
Cell-To-Cell Signaling and Interaction	binding	binding of focal adhesions	1.80E-02	FN1	1
Cell-To-Cell Signaling and Interaction	dynamics	dynamics of cell-matrix contacts	1.80E-02	FN1	1

Molecular Transport	quantity	quantity of lipid	1.12E-04	ACACA, ACLY, C3, FASN, LRP1, MAPKAPK2, P2RX7, PPARGC1B, SCD, SCD2, SIRT1	11
Molecular Transport	quantity	quantity of fatty acid	1.25E-04	ACACA, FASN, LRP1, P2RX7, PPARGC1B, SCD, SCD2, SIRT1	6
Molecular Transport	quantity	quantity of acylglycerol	1.85E-04	ACACA, ACLY, SCD	7
Molecular Transport	quantity	quantity of malonyl-coenzyme A	2.63E-04	ACACA, SCD	3
Molecular Transport	quantity	quantity of long-chain acyl-coenzyme A	3.58E-04	ACACA, FASN, LRP1, PPARGC1B, SCD, SCD2, SIRT1	2
Molecular Transport	quantity	quantity of triacylglycerol	4.61E-04	ACACA, ACLY, SCD, INSIG1, LRP1, PPARGC1B, SCD, SIRT1	6
Molecular Transport	quantity	quantity of cholesterol	1.86E-03	ACACA, SCD	5
Molecular Transport	quantity	quantity of 1-alkyl-2,3-diacylglycerol	6.05E-03	ACACA, SCD	1
Molecular Transport	quantity	quantity of 18:1(n-9) fatty acids	6.05E-03	ACACA, SCD	1
Molecular Transport	quantity	quantity of palmitoleoyl-coenzyme A	6.05E-03	ACACA, SCD	1
Molecular Transport	quantity	quantity of palmitoyl-coenzyme A	6.05E-03	ACACA, SCD	1
Molecular Transport	quantity	quantity of stearoyl-coenzyme A	6.05E-03	ACACA, SCD	1
Molecular Transport	quantity	quantity of oleic acid	1.80E-02	ACACA, SCD	1

Molecular Transport	accumulation	accumulation of triacylglycerol	4.43E-04	ACACA, INSIG1, SCD, SIRT1	4
Molecular Transport	accumulation	accumulation of lipid	4.94E-03	ACACA, FN1, INSIG1, SCD, SIRT1	5
Molecular Transport	accumulation	accumulation of palmitoleic acid	6.05E-03	SCD	1
Molecular Transport	accumulation	accumulation of protein fragment	6.05E-03	FN1	1
Molecular Transport	accumulation	accumulation of oleic acid	1.80E-02	SCD	1
Molecular Transport	clearance	clearance of triacylglycerol	1.92E-03	C3, LRP1	2
Molecular Transport	clearance	delay in clearance of lipid	1.21E-02	LRP1	1
Molecular Transport	clearance	clearance of fatty acid	1.80E-02	C3	1
Molecular Transport	clearance	clearance of retinaldehyde	1.80E-02	ALDH1A1	1
Molecular Transport	release	release of proteoglycan	1.21E-02	FN1	1
Molecular Transport	secretion	secretion of fatty acid	1.80E-02	SCD	1
Molecular Transport	transport	transport of cholesterol ester	1.80E-02	LRP1	1
Molecular Transport	transport	transport of glycerol	1.80E-02	AQP11, GPD1, INSIG1, PPARGC1	1
Hepatic System Disease	hepatic steatosis	hepatic steatosis of rodents	1.69E-04	B, SCD, GPD1, PPARGC1	4
Hepatic System Disease	hepatic steatosis	hepatic steatosis of mice	2.22E-03	B, SCD	3
Hepatic System Disease	hepatic steatosis	hepatic steatosis of rats	1.80E-02	INSIG1	1
Hepatic System Disease	hyperplasia	delay in hyperplasia of hepatocytes	6.05E-03	C3	1
Hepatic System Disease	edema	edema of liver	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	formation	formation of endothelial cells	2.27E-04	FN1, GRN, VEGFA	3

Cardiovascular System Development and Function	formation	formation of endothelial tube	3.42E-03	FN1, GRN, VEGFA	3
Cardiovascular System Development and Function	formation	formation of aorto-pulmonary septum	6.05E-03	TBX1	1
Cardiovascular System Development and Function	formation	formation of vascular channel	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	formation	formation of capillary network	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	formation	formation of dorsal aorta	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	permeability	permeability of vasculature	6.99E-04	C3, LRP1, VEGFA	3
Cardiovascular System Development and Function	permeability	permeability of vascular endothelial tissue	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	proliferation	proliferation of microvascular endothelial cells	7.46E-04	FN1, VEGFA	2
Cardiovascular System Development and Function	proliferation	proliferation of BAEC cells	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	proliferation	proliferation of endothelial cells	1.30E-02	FN1, GRN, PIM1, VEGFA	4
Cardiovascular System Development and Function	proliferation	proliferation of vascular endothelial cells	1.80E-02	VEGFA	1
Cardiovascular System Development and Function	differentiation	differentiation of endothelial cells	1.12E-03	FN1, PIM1, VEGFA	3
Cardiovascular System Development and Function	neovascularization	neovascularization of eye	1.27E-03	C3, VEGFA	2

Cardiovascular System Development and Function	neovascularization	neovascularization of muscle	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	neovascularization	neovascularization of skin	1.80E-02	VEGFA	1
Cardiovascular System Development and Function	development	development of outflow tract	2.30E-03	TBX1, VEGFA	2
Cardiovascular System Development and Function	development	development of fourth pharyngeal arch artery	6.05E-03	TBX1	1
Cardiovascular System Development and Function	development	development of endocardium	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	cell spreading	cell spreading of endothelial cell lines	2.70E-03	FN1, VEGFA, DNM2, PROC (includes EG:5624)	2
Cardiovascular System Development and Function	electrical resistance	electrical resistance of endothelial cells	3.61E-03		2
Cardiovascular System Development and Function	G1/S phase transition	entry into G1/S phase transition of microvascular endothelial cells	6.05E-03	FN1	1
Cardiovascular System Development and Function	angiogenesis	angiogenesis of embryonic cell lines	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	angiogenesis	angiogenesis of skeletal muscle	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	angiogenesis	angiogenesis of endothelial cells	6.41E-03	FN1, VEGFA	2
Cardiovascular System Development and Function	angiogenesis	angiogenesis of chorioallantoic membrane	9.92E-03	FN1, VEGFA	2
Cardiovascular System Development and Function	angiogenesis	angiogenesis of aortic ring tissue	1.21E-02	VEGFA	1

Cardiovascular System Development and Function	angiogenesis	angiogenesis of trachea	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	angiogenesis	angiogenesis of heart	1.80E-02	VEGFA	1
Cardiovascular System Development and Function	angiogenesis	angiogenesis of leg	1.80E-02	VEGFA	1
Cardiovascular System Development and Function	angiogenesis	angiogenesis of lung cell lines	1.80E-02	VEGFA	1
Cardiovascular System Development and Function	angiogenesis	angiogenesis of bone	2.40E-02	VEGFA	1
Cardiovascular System Development and Function	antigenicity	antigenicity of endothelial cell lines	6.05E-03	ST3GAL3	1
Cardiovascular System Development and Function	beta-adrenergic response	beta-adrenergic response of heart	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	branching	branching of endothelial cells	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	fenestration	fenestration of capillary vessel	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	lymphangiogenesis	lymphangiogenesis of ear	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	lymphangiogenesis	lymphangiogenesis of lymph vessel	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	lymphangiogenesis	lymphangiogenesis of mice	1.80E-02	VEGFA	1
Cardiovascular System Development and Function	mid-G1 phase	arrest in mid-G1 phase of microvascular endothelial cells	6.05E-03	FN1	1

Cardiovascular System Development and Function	morphology	morphology of microvessel	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	permeabilization	permeabilization of capillary vessel	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	permeabilization	permeabilization of endothelial tissue	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	production	production of microvessel	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	production	production of capillary vessel	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	quantity	quantity of endothelial progenitor cells	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	quantity	quantity of trabeculae carne	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	quantity	quantity of microvascular endothelial cells	1.80E-02	VEGFA	1
Cardiovascular System Development and Function	recruitment	recruitment of bone marrow-derived endothelial progenitor cells	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	size	size of blood vessel tissue	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	targeting	targeting of endothelial cells	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	vascularization	vascularization of perifollicular epithelium	6.05E-03	VEGFA	1
Cardiovascular System Development and Function	activation	activation of endothelial cells	9.92E-03	C3, VEGFA	2

Cardiovascular System Development and Function	accumulation	accumulation of endothelial cells	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	infiltration	infiltration of endothelial cell lines	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	mitogenesis	mitogenesis of vascular endothelial cells	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	regeneration	regeneration of glomerular capillary	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	sprouting	sprouting of neovessel	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	tubulation	tubulation of HAEC cells	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	tubulation	tubulation of endothelial cell lines	2.21E-02	PTPRZ1, VEGFA	2
Cardiovascular System Development and Function	vasodilation	vasodilation of rats	1.21E-02	VEGFA	1
Cardiovascular System Development and Function	cell movement	cell movement of endothelial cell lines	1.60E-02	FN1, VEGFA, FN1, PROC (includes EG:5624), VEGFA	2
Cardiovascular System Development and Function	adhesion	adhesion of endothelial cells	1.72E-02	VEGFA	3
Cardiovascular System Development and Function	cardiovascular process	cardiovascular process of liver	1.80E-02	VEGFA	1
Cardiovascular System Development and Function	density	density of vascular tissue	1.80E-02	VEGFA	1
Cardiovascular System Development and Function	expansion	expansion of endothelial progenitor cells	1.80E-02	VEGFA	1

Cardiovascular System Development and Function	growth	growth of capillary vessel	1.80E-02	VEGFA	1
Cardiovascular System Development and Function	mitosis	mitosis of endothelial cells	1.80E-02	VEGFA	1
Cardiovascular System Development and Function	mobilization	mobilization of endothelial progenitor cells	1.80E-02	VEGFA	1
Cardiovascular System Development and Function	morphogenesis	morphogenesis of blood vessel	1.89E-02	TBX1, VEGFA	2
Cellular Growth and Proliferation	formation	formation of endothelial cells	2.27E-04	FN1, GRN, VEGFA	3
Cellular Growth and Proliferation	formation	formation of leukocytes	2.37E-03	MAPKAPK2, PIM1, VEGFA	3
Cellular Growth and Proliferation	formation	formation of cells	8.70E-03	FN1, GRN, MAPKAPK2, PIM1, TBX1, VEGFA	6
Cellular Growth and Proliferation	formation	formation of mononuclear leukocytes	9.92E-03	PIM1, VEGFA	2
Cellular Growth and Proliferation	formation	formation of colony-forming granulocyte-macrophages	1.21E-02	VEGFA	1
Cellular Growth and Proliferation	formation	formation of normal cells	1.52E-02	FN1, GRN, MAPKAPK2, PIM1, VEGFA	5
Cellular Growth and Proliferation	proliferation	proliferation of microvascular endothelial cells	7.46E-04	FN1, VEGFA	2
Cellular Growth and Proliferation	proliferation	proliferation of lung cell lines	8.44E-03	FN1, SIRT1, CAPRIN1	2
Cellular Growth and Proliferation	proliferation	proliferation of fibroblast cell lines	1.00E-02	FN1, HDGF, MAPKAPK2, SIRT1	5
Cellular Growth and Proliferation	proliferation	proliferation of BAEC cells	1.21E-02	VEGFA	1

Cellular Growth and Proliferation	proliferation	proliferation of adrenal glomerulosa cells	1.21E-02	FN1	1
Cellular Growth and Proliferation	proliferation	proliferation of astrocytes	1.24E-02	GRN, VEGFA	2
Cellular Growth and Proliferation	proliferation	proliferation of endothelial cells	1.30E-02	FN1, GRN, PIM1, VEGFA	4
Cellular Growth and Proliferation	proliferation	proliferation of lymphoid cells	1.80E-02	P2RX7	1
Cellular Growth and Proliferation	proliferation	proliferation of vascular endothelial cells	1.80E-02	VEGFA	1
Cellular Growth and Proliferation	growth	growth of skin cancer cell lines	1.58E-03	FN1, VEGFA	2
Cellular Growth and Proliferation	growth	arrest in growth of carcinoma cells	6.05E-03	SIRT1	1
Cellular Growth and Proliferation	growth	growth of RPE cells	1.21E-02	VEGFA	1
Cellular Growth and Proliferation	growth	growth of adrenal carcinoma cells	1.21E-02	GRN	1
Cellular Growth and Proliferation	colony formation	colony formation of RPE cells	6.05E-03	VEGFA	1
Cellular Growth and Proliferation	expansion	delay in expansion of melanoma cell lines	6.05E-03	VEGFA	1
Cellular Growth and Proliferation	expansion	expansion of endothelial progenitor cells	1.80E-02	VEGFA	1
Cellular Growth and Proliferation	hypertrophy	hypertrophy of endothelial cells	6.05E-03	VEGFA	1
Cellular Growth and Proliferation	generation	generation of germinal center B lymphocytes	1.21E-02	C3	1
Cellular Growth and Proliferation	generation	generation of plasma cells	1.80E-02	C3	1
Carbohydrate Metabolism	incorporation	incorporation of carbohydrate	2.63E-04	ACLY, FASN, SCD	3
Carbohydrate Metabolism	incorporation	incorporation of D-glucose	2.70E-03	ACLY, FASN	2
Carbohydrate Metabolism	incorporation	incorporation of glycerol	6.05E-03	SCD	1

Carbohydrate Metabolism	metabolism	metabolism of glycerophosphoric acid	1.21E-02	GPD1	1
Carbohydrate Metabolism	release	release of proteoglycan	1.21E-02	FN1	1
Carbohydrate Metabolism	transport	transport of glycerol	1.80E-02	AQP11	1
Carbohydrate Metabolism	gluconeogenesis	gluconeogenesis	2.10E-02	GPD1, SCD	2
Cardiovascular Disease	lysis	lysis of endothelial cell lines	5.35E-04	ST3GAL3, VEGFA	2
Cardiovascular Disease	von Hippel-Lindau syndrome	von Hippel-Lindau syndrome	3.61E-03	RPS6KA1, VEGFA	2
Cardiovascular Disease	invasion	invasion of endothelial cells	5.79E-03	LRP1, VEGFA	2
Cardiovascular Disease	invasion	invasion of blood vessel	1.80E-02	VEGFA	1
Cardiovascular Disease	accumulation	accumulation of thrombus	6.05E-03	PROC (includes EG:5624)	1
Cardiovascular Disease	infarction	infarction of cerebrum	6.05E-03	FN1	1
Cardiovascular Disease	infarction	infarction of blood vessel	1.80E-02	FN1	1
Cardiovascular Disease	pulmonary embolism	pulmonary embolism of blood vessel	6.05E-03	PROC (includes EG:5624)	1
Cardiovascular Disease	hyperlipidemia	hyperlipidemia of rodents	7.73E-03	INSIG1, LRP1	2
Cardiovascular Disease	hyperlipidemia	hyperlipidemia of rats	1.80E-02	INSIG1	1
Cardiovascular Disease	formation	formation of vascular lesion	1.07E-02	LRP1, VEGFA	2
Cardiovascular Disease	disruption	disruption of elastic lamina	1.21E-02	LRP1	1
Cardiovascular Disease	hypoplasia	hypoplasia of artery	1.21E-02	TBX1	1
Cardiovascular Disease	infiltration	infiltration of endothelial cell lines	1.21E-02	VEGFA	1
Cardiovascular Disease	collapse	collapse of blood vessel	1.80E-02	VEGFA	1
Cardiovascular Disease	detachment	detachment of endothelial cells	1.80E-02	VEGFA	1
Cell Death	lysis	lysis of endothelial cell lines	5.35E-04	ST3GAL3, VEGFA	2
Cell Death	lysis	lysis of thymocytes	1.80E-02	P2RX7	1
Cell Death	cell viability	cell viability of Schwann cells	6.05E-03	VEGFA	1
Cell Death	necrosis	necrosis of C-cells	6.05E-03	PROC (includes EG:5624)	1
Cell Death	necrosis	necrosis of follicular cells	6.05E-03	PROC (includes EG:5624)	1
Cell Death	opsonization	opsonization of red blood cells	6.05E-03	C3	1

Cell Death	recovery	recovery of endothelial cell lines	6.05E-03	VEGFA	1
Cell Death	survival	survival of neural precursor cells	6.05E-03	VEGFA	1
Cell Death	survival	survival of satellite cells	6.05E-03	VEGFA	1
Cell Death	survival	survival of cancer cells	1.32E-02	VEGFA RPS6KA1, PROC (includes EG:5624), SIRT1,	2
Cell Death	apoptosis	apoptosis of cortical neurons	6.55E-03	VEGFA FASN,	3
Cell Death	apoptosis	apoptosis of carcinoma cells delay in apoptosis of fibroblast cell lines	9.92E-03	SIRT1	2
Cell Death	apoptosis	lines	1.80E-02	FN1	1
Cell Death	anoikis	anoikis of dermal fibroblasts	1.21E-02	FN1	1
Cell Death	anoikis	anoikis of squamous cell carcinoma cell lines	1.21E-02	FN1	1
Cell Death	anoikis	anoikis of tumor cell lines	1.41E-02	FN1, GRN	2
Cell Death	repopulation	repopulation of hematopoietic progenitor cells	1.80E-02	VEGFA PROC (includes EG:5624), SIRT1, VAPA,	1
Cell Death	cell death	cell death of cerebral cortex cells	2.33E-02	VEGFA	4
Embryonic Development	hatching	hatching of blastocyst	5.35E-04	C3, GRN TBX1,	2
Embryonic Development	development	development of outflow tract	2.30E-03	VEGFA FN1,	2
Embryonic Development	shape change	shape change of embryonic cell lines	4.64E-03	P2RX7	2
Embryonic Development	angiogenesis	angiogenesis of embryonic cell lines	6.05E-03	VEGFA FN1,	1
Embryonic Development	angiogenesis	angiogenesis of chorioallantoic membrane	9.92E-03	VEGFA	2
Embryonic Development	circulation	circulation of embryonic tissue	6.05E-03	VEGFA	1
Embryonic Development	size	size of blastocyst	6.05E-03	C3 EIF4G2, PIM1,	1
Embryonic Development	differentiation	differentiation of embryonic stem cells	7.14E-03	VEGFA AES, COL5A1, DCP2, DNM2, NUDT3,	3
Embryonic Development	infectious disorder	infectious disorder of embryonic cell lines	1.00E-02	ST3GAL3	6
Embryonic Development	blebbing	blebbing of embryonic cell lines	1.21E-02	P2RX7	1
Embryonic Development	formation	formation of atrioventricular canal cushion	1.21E-02	VEGFA	1

Embryonic Development	invasion	invasion of perioptic mesenchyme	1.21E-02	ALDH1A1	1
Embryonic Development	patterning	patterning of rhombencephalon	1.21E-02	ALDH1A1	1
Embryonic Development	quantity	quantity of hemangioblasts	1.21E-02	VEGFA	1
Embryonic Development	adhesion	adhesion of embryonic cell lines	1.24E-02	C3, FN1	2
Reproductive System Development and Function	hatching	hatching of blastocyst	5.35E-04	C3, GRN	2
Reproductive System Development and Function	migration	migration of prostate cell lines	1.80E-02	FN1	1
Cellular Development	differentiation	differentiation of endothelial cells	1.12E-03	FN1, PIM1, VEGFA	3
Cellular Development	differentiation	differentiation of cobblestone area-forming cells	6.05E-03	VEGFA	1
Cellular Development	differentiation	differentiation of long-term culture-initiating cells	6.05E-03	VEGFA	1
Cellular Development	differentiation	differentiation of embryonic stem cells	7.14E-03	EIF4G2, PIM1, VEGFA	3
Cellular Development	differentiation	differentiation of peripheral blood lymphocytes	1.21E-02	VEGFA	1
Cellular Development	differentiation	differentiation of white adipocytes	1.21E-02	SIRT1	1
Cellular Development	differentiation	arrest in differentiation of bone cell lines	1.80E-02	CBFA2T3	1
Cellular Development	differentiation	arrest in differentiation of granulocytes	1.80E-02	CBFA2T3	1
Cellular Development	differentiation	arrest in differentiation of leukocyte cell lines	1.80E-02	CBFA2T3	1
Cellular Development	differentiation	differentiation of colony-forming erythroid cells	1.80E-02	VEGFA	1
Cellular Development	adipogenesis	adipogenesis of hepatocytes	6.05E-03	ACACA	1
Cellular Development	adipogenesis	adipogenesis of cells	8.76E-03	ACACA, C3, FN1	3
Cellular Development	adipogenesis	adipogenesis of normal cells	2.00E-02	ACACA, C3	2
Cellular Development	angiogenesis	angiogenesis of embryonic cell lines	6.05E-03	VEGFA	1
Cellular Development	angiogenesis	angiogenesis of endothelial cells	6.41E-03	FN1, VEGFA	2
Cellular Development	angiogenesis	angiogenesis of lung cell lines	1.80E-02	VEGFA	1
Cellular Development	growth	growth of RPE cells	1.21E-02	VEGFA	1

Cellular Development	tubulation	tubulation of HAEC cells	1.21E-02	VEGFA	1
Cellular Development	tubulation	tubulation of endothelial cell lines	2.21E-02	PTPRZ1, VEGFA	2
Cellular Development	expansion	expansion of endothelial progenitor cells	1.80E-02	VEGFA	1
Organ Development	neovascularization	neovascularization of eye	1.27E-03	C3, VEGFA	2
Organ Development	neovascularization	neovascularization of skin	1.80E-02	VEGFA	1
Organ Development	development	development of skin	2.22E-03	COL3A1, COL5A1, VEGFA	3
Organ Development	development	development of ear	2.70E-03	TBX1, VEGFA	2
Organ Development	development	development of intestine	7.73E-03	COL3A1, HDGF	2
Organ Development	development	development of endocardium	1.21E-02	VEGFA	1
Organ Development	morphogenesis	morphogenesis of organ	3.61E-03	ALDH1A1, COL5A1, FN1, TBX1, VEGFA	5
Organ Development	morphogenesis	morphogenesis of eye	9.83E-03	ALDH1A1, COL5A1, VEGFA	3
Organ Development	morphogenesis	morphogenesis of ear	1.80E-02	TBX1	1
Organ Development	formation	formation of aorto-pulmonary septum	6.05E-03	TBX1	1
Organ Development	lymphangiogenesis	lymphangiogenesis of ear	6.05E-03	VEGFA	1
Organ Development	angiogenesis	angiogenesis of trachea	1.21E-02	VEGFA	1
Organ Development	angiogenesis	angiogenesis of heart	1.80E-02	VEGFA	1
Organ Development	patterning	patterning of rhombencephalon	1.21E-02	ALDH1A1	1
Visual System Development and Function	neovascularization	neovascularization of eye	1.27E-03	C3, VEGFA	2
Visual System Development and Function	colony formation	colony formation of RPE cells	6.05E-03	VEGFA	1
Visual System Development and Function	morphogenesis	morphogenesis of eye	9.83E-03	ALDH1A1, COL5A1, VEGFA	3
Visual System Development and Function	cell spreading	cell spreading of eye cell lines	1.21E-02	FN1	1

Visual System Development and Function	growth	growth of RPE cells	1.21E-02	VEGFA	1
Dermatological Diseases and Conditions	growth	growth of skin cancer cell lines	1.58E-03	FN1, VEGFA	2
Dermatological Diseases and Conditions	Ehlers-Danlos syndrome	Ehlers-Danlos syndrome	2.70E-03	COL3A1, COL5A1	2
Dermatological Diseases and Conditions	Ehlers-Danlos Syndrome Type IV	Ehlers-Danlos Syndrome Type IV	6.05E-03	COL3A1	1
Dermatological Diseases and Conditions	Ehlers-Danlos syndrome, type II	Ehlers-Danlos syndrome, type II	6.05E-03	COL5A1	1
Dermatological Diseases and Conditions	parakeratosis	parakeratosis of epidermis	6.05E-03	VEGFA, AES, COL5A1, DCP2, DNM2, NUDT3, ST3GAL3	1
Dermatological Diseases and Conditions	infectious disorder	infectious disorder of epithelial cell lines	9.85E-03	VEGFA, AES, COL5A1, DCP2, DNM2, NUDT3, ST3GAL3	6
Dermatological Diseases and Conditions	Ehlers-Danlos syndrome, type III	Ehlers-Danlos syndrome, type III	1.21E-02	COL3A1	1
Dermatological Diseases and Conditions	acanthosis	acanthosis of epidermis	1.21E-02	VEGFA	1
Dermatological Diseases and Conditions	anoikis	anoikis of dermal fibroblasts	1.21E-02	FN1	1
Dermatological Diseases and Conditions	Ehlers-Danlos syndrome, type I	Ehlers-Danlos syndrome, type I	1.80E-02	COL5A1	1
Dermatological Diseases and Conditions	dysfunction	dysfunction of keratinocytes	1.80E-02	MAFF, ATP1A3, VEGFA	1
Immunological Disease	lymphedema	lymphedema	1.58E-03	VEGFA	2
Immunological Disease	Sjogren's syndrome	Sjogren's syndrome of mice	6.05E-03	C3	1
Immunological Disease	hyperplasia	hyperplasia of dendritic cells	6.05E-03	VEGFA	1
Immunological Disease	hyperplasia	hyperplasia of splenocytes	6.05E-03	VEGFA	1
Immunological Disease	hypertrophy	hypertrophy of lymph node	1.21E-02	C3	1
Immunological Disease	lysis	lysis of thymocytes	1.80E-02	P2RX7	1
Immunological Disease	HIV infection	HIV infection of lymphocytes	2.40E-02	FN1	1

Organismal Injury and Abnormalities	lymphedema	lymphedema	1.58E-03	ATP1A3, VEGFA PROC (includes EG:5624), VEGFA	2
Organismal Injury and Abnormalities	edema	edema of brain	1.92E-03	VEGFA	2
Organismal Injury and Abnormalities	edema	edema of muscle	6.05E-03	VEGFA PROC (includes EG:5624), VEGFA	1
Organismal Injury and Abnormalities	edema	edema of mice	8.44E-03	VEGFA	2
Organismal Injury and Abnormalities	edema	edema of liver	1.21E-02	VEGFA	1
Organismal Injury and Abnormalities	edema	edema of ear	1.80E-02	VEGFA	1
Organismal Injury and Abnormalities	angiogenesis	angiogenesis of ulcer	6.05E-03	VEGFA	1
Organismal Injury and Abnormalities	formation	formation of glomeruloid body	6.05E-03	VEGFA	1
Organismal Injury and Abnormalities	formation	formation of vascular lesion	1.07E-02	LRP1, VEGFA	2
Organismal Injury and Abnormalities	morphology	morphology of glomeruloid body	6.05E-03	VEGFA	1
Organismal Injury and Abnormalities	epithelialization	epithelialization of wound	1.21E-02	VEGFA	1
Organismal Injury and Abnormalities	neovascularization	neovascularization of wound	1.21E-02	VEGFA PROC (includes EG:5624)	1
Organismal Injury and Abnormalities	hemorrhage	hemorrhage of spinal cord	1.80E-02	ACACA, C3, FN1, SIRT1	4
Connective Tissue Development and Function	adipogenesis	adipogenesis	1.90E-03	ACACA, C3, FN1	3
Connective Tissue Development and Function	adipogenesis	adipogenesis of cells	8.76E-03	ACACA, C3, FN1	3
Connective Tissue Development and Function	attachment	attachment of fibroblasts	2.30E-03	FN1, LRP1	2

Connective Tissue Development and Function	attachment	attachment of fibroblast cell lines	1.21E-02	FN1	1
Connective Tissue Development and Function	mass	mass of white adipose tissue	3.61E-03	C3, SCD	2
Connective Tissue Development and Function	mass	mass of adipose tissue	9.83E-03	C3, LRP1, SCD	3
Connective Tissue Development and Function	development	development of vertebrae	7.73E-03	ALDH1A1, TBX1, CAPRIN1, FN1, HDGF, MAPKAPK2, SIRT1	2
Connective Tissue Development and Function	proliferation	proliferation of fibroblast cell lines	1.00E-02	ALDH1A1, TBX1, CAPRIN1, FN1, HDGF, MAPKAPK2, SIRT1	5
Connective Tissue Development and Function	deposition	deposition of granulation tissue	1.21E-02	VEGFA	1
Connective Tissue Development and Function	differentiation	differentiation of white adipocytes	1.21E-02	SIRT1	1
Connective Tissue Development and Function	mitogenesis	mitogenesis of hepatic stellate cells	1.21E-02	VEGFA	1
Connective Tissue Development and Function	re-epithelialization	re-epithelialization of granulation tissue	1.21E-02	VEGFA	1
Connective Tissue Development and Function	accumulation	accumulation of fibroblasts	1.80E-02	GRN	1
Connective Tissue Development and Function	activation	activation of chondrocytes	1.80E-02	FN1	1
Connective Tissue Development and Function	adherence	adherence of fibroblasts	1.80E-02	FN1	1
Connective Tissue Development and Function	adhesion	adhesion of hOB cells	1.80E-02	FN1	1

Connective Tissue Development and Function	adhesion	adhesion of fibroblast cell lines	2.10E-02	FN1, VEGFA	2
Connective Tissue Development and Function	binding	binding of adipose cell lines	1.80E-02	FN1	1
Connective Tissue Development and Function	resorption	resorption of trabecular bone	1.80E-02	P2RX7	1
Connective Tissue Development and Function	angiogenesis	angiogenesis of bone	2.40E-02	VEGFA PROC (includes EG:5624),	1
Neurological Disease	edema	edema of brain	1.92E-03	VEGFA FN1, PTPRZ1,	2
Neurological Disease	migration	migration of brain cancer cell lines	2.37E-03	VEGFA	3
Neurological Disease	infarction	infarction of cerebrum	6.05E-03	FN1	1
Neurological Disease	tumorigenesis	tumorigenesis of glioblastoma cells	6.05E-03	VEGFA PROC (includes EG:5624), SIRT1,	1
Neurological Disease	apoptosis	apoptosis of cortical neurons	6.55E-03	VEGFA C3, PROC (includes EG:5624)	3
Neurological Disease	disease	disease of spinal cord	9.17E-03	EG:5624)	2
Neurological Disease	growth nonproliferative diabetic	growth of adrenal carcinoma cells	1.21E-02	GRN	1
Neurological Disease	retinopathy with macular edema	nonproliferative diabetic retinopathy with macular edema	1.21E-02	VEGFA	1
Neurological Disease	adhesion	adhesion of glioma cells	1.80E-02	FN1	1
Neurological Disease	dystonia	dystonia of mice	1.80E-02	LRP1 PROC (includes EG:5624)	1
Neurological Disease	hemorrhage	hemorrhage of spinal cord	1.80E-02	EG:5624)	1

Neurological Disease	cell death	cell death of cerebral cortex cells	2.33E-02	PROC (includes EG:5624), SIRT1, VAPA, VEGFA GPD1, INSIG1, LRP1, PPARGC1 B, RPS6KA1, SCD,	4
Metabolic Disease	metabolic disorder	metabolic disorder of rodents	2.03E-03	SIRT1 GPD1, LRP1, PPARGC1 B, RPS6KA1, SCD,	7
Metabolic Disease	metabolic disorder	metabolic disorder of mice	6.80E-03	SIRT1	6
Metabolic Disease	hyperlipidemia	hyperlipidemia of rodents	7.73E-03	INSIG1, LRP1	2
Metabolic Disease	hyperlipidemia nonproliferative diabetic	hyperlipidemia of rats	1.80E-02	INSIG1	1
Metabolic Disease	retinopathy with macular edema	nonproliferative diabetic retinopathy with macular edema	1.21E-02	VEGFA FASN, PPARGC1 B	1
Metabolic Disease	dyslipidemia	dyslipidemia	1.24E-02	C3, FN1,	2
Metabolic Disease	experimentally-induced diabetes	experimentally-induced diabetes	1.53E-02	VEGFA FN1, INSIG1,	3
Gastrointestinal Disease	mucoepidermoid carcinoma	mucoepidermoid carcinoma	2.22E-03	PRKACB FN1,	3
Gastrointestinal Disease	acinar-cell carcinoma	acinar-cell carcinoma	7.06E-03	PRKACB	2
Gastrointestinal Disease	edema	edema of liver	1.21E-02	VEGFA COL3A1, COL5A1,	1
Hair and Skin Development and Function	development	development of skin	2.22E-03	VEGFA	3
Hair and Skin Development and Function	size	size of hair shaft	6.05E-03	VEGFA	1
Hair and Skin Development and Function	size	size of hair follicle	1.21E-02	VEGFA	1
Hair and Skin Development and Function	attachment	attachment of epithelial cell lines	1.21E-02	FN1	1

Hair and Skin Development and Function	epithelialization	epithelialization of wound	1.21E-02	VEGFA	1
Hair and Skin Development and Function	re-epithelialization	re-epithelialization of granulation tissue	1.21E-02	VEGFA	1
Hair and Skin Development and Function	adhesion	adhesion of epithelial cell lines	1.50E-02	C3, FN1	2
Hair and Skin Development and Function	neovascularization	neovascularization of skin	1.80E-02	VEGFA	1
Hair and Skin Development and Function	tensile strength	tensile strength of skin	1.80E-02	COL5A1	1
Endocrine System Disorders	insulin resistance	insulin resistance of liver	2.30E-03	ACACA, SCD PROC (includes EG:5624)	2
Endocrine System Disorders	necrosis	necrosis of C-cells	6.05E-03	PROC (includes EG:5624)	1
Endocrine System Disorders	necrosis	necrosis of islets of Langerhans	6.05E-03	PROC (includes EG:5624)	1
Endocrine System Disorders	hypoplasia nonproliferative diabetic	hypoplasia of parathyroid gland	1.21E-02	TBX1	1
Endocrine System Disorders	retinopathy with macular edema	nonproliferative diabetic retinopathy with macular edema	1.21E-02	VEGFA	1
Endocrine System Disorders	experimentally-induced diabetes	experimentally-induced diabetes	1.53E-02	C3, FN1, VEGFA	3
Endocrine System Disorders	adhesion	adhesion of pancreatic cancer cell lines	2.40E-02	FN1, PIM1, PROC (includes EG:5624)	1
Lymphoid Tissue Structure and Development	size	size of lymph node	2.30E-03	EG:5624	2
Lymphoid Tissue Structure and Development	growth	growth of lymphatic system component	4.64E-03	PIM1, VEGFA	2
Lymphoid Tissue Structure and Development	development	development of effector dendritic cells	6.05E-03	FN1	1
Lymphoid Tissue Structure and Development	lymphangiogenesis	lymphangiogenesis of lymph node	6.05E-03	VEGFA	1

Lymphoid Tissue Structure and Development	lymphangiogenesis	lymphangiogenesis of lymph vessel	1.21E-02	VEGFA	1
Lymphoid Tissue Structure and Development	localization	localization of neutrophils	1.21E-02	C3	1
Lymphoid Tissue Structure and Development	quantity	quantity of lymphatic fluid	1.21E-02	PROC (includes EG:5624)	1
Organ Morphology	size	size of lymph node	2.30E-03	PROC (includes EG:5624)	2
Organ Morphology	size	size of hair shaft	6.05E-03	VEGFA	1
Organ Morphology	size	size of hair follicle	1.21E-02	VEGFA	1
Organ Morphology	morphogenesis	morphogenesis of organ	3.61E-03	ALDH1A1, COL5A1, FN1, TBX1, VEGFA	5
Organ Morphology	morphogenesis	morphogenesis of eye	9.83E-03	VEGFA	3
Organ Morphology	morphogenesis	morphogenesis of ear	1.80E-02	TBX1	1
Organ Morphology	hypoplasia	hypoplasia of inner ear	6.05E-03	TBX1	1
Organ Morphology	hypoplasia	hypoplasia of parathyroid gland	1.21E-02	TBX1	1
Organ Morphology	quantity	quantity of trabeculae carne	6.05E-03	VEGFA	1
Organ Morphology	acanthosis	acanthosis of epidermis	1.21E-02	VEGFA	1
Organ Morphology	regeneration	regeneration of glomerular capillary	1.21E-02	VEGFA	1
Tissue Development	development	development of outflow tract	2.30E-03	TBX1, VEGFA	2
Tissue Development	development	development of ossification zone	6.05E-03	VEGFA	1
Tissue Development	development	development of vertebrae	7.73E-03	ALDH1A1, TBX1	2
Tissue Development	development	development of diaphragm	1.80E-02	SLIT3	1
Tissue Development	formation	formation of endothelial tube	3.42E-03	FN1, GRN, VEGFA	3
Tissue Development	formation	formation of atrioventricular canal cushion	1.21E-02	VEGFA	1

Tissue Development	differentiation	differentiation of muscle	5.79E-03	FN1, SIRT1	2
Tissue Development	angiogenesis	angiogenesis of skeletal muscle	6.05E-03	VEGFA	1
Tissue Development	angiogenesis	angiogenesis of chorioallantoic membrane	9.92E-03	FN1, VEGFA	2
Tissue Development	angiogenesis	angiogenesis of aortic ring tissue	1.21E-02	VEGFA	1
Tissue Development	angiogenesis	angiogenesis of bone	2.40E-02	VEGFA	1
Tissue Development	neovascularization	neovascularization of muscle	6.05E-03	VEGFA	1
Tissue Development	proliferation	proliferation of retinal pigment epithelium	6.05E-03	VEGFA	1
Tissue Development	vascularization	vascularization of perifollicular epithelium	6.05E-03	VEGFA, GRN, PROC (includes EG:5624),	1
Tissue Development	accumulation	accumulation of phagocytes	9.46E-03	VEGFA	3
Tissue Development	accumulation	accumulation of endothelial cells	1.21E-02	VEGFA, GRN,	1
Tissue Development	accumulation	accumulation of macrophages	1.69E-02	VEGFA	2
Tissue Development	accumulation	accumulation of fibroblasts	1.80E-02	GRN	1
Tissue Development	adhesion	adhesion of eosinophils	9.92E-03	C3, FN1	2
Tissue Development	adhesion	adhesion of neuroepithelial cells	1.21E-02	FN1	1
Tissue Development	adhesion	adhesion of granulocytes	1.39E-02	C3, FN1, LCP1, FN1, PROC (includes EG:5624),	3
Tissue Development	adhesion	adhesion of endothelial cells	1.72E-02	VEGFA	3
Tissue Development	adhesion	adhesion of astrocytes	1.80E-02	FN1	1
Tissue Development	adhesion	adhesion of hOB cells	1.80E-02	FN1	1
Tissue Development	deposition	deposition of granulation tissue	1.21E-02	VEGFA	1
Tissue Development	generation	generation of germinal center B lymphocytes	1.21E-02	C3	1
Tissue Development	generation	generation of plasma cells	1.80E-02	C3	1
Tissue Development	re-epithelialization	re-epithelialization of granulation tissue	1.21E-02	VEGFA	1
Tissue Development	adherence	adherence of fibroblasts	1.80E-02	FN1	1

Tissue Morphology	permeability	permeability of endothelial tissue	2.30E-03	MAPKAPK 2, VEGFA	2
Tissue Morphology	permeability	permeability of vascular endothelial tissue	1.21E-02	VEGFA PIM1, PROC (includes EG:5624)	1
Tissue Morphology	size	size of lymph node	2.30E-03	VEGFA	2
Tissue Morphology	size	size of blood vessel tissue	6.05E-03	VEGFA	1
Tissue Morphology	mass	mass of white adipose tissue	3.61E-03	C3, SCD	2
Tissue Morphology	mass	mass of adipose tissue	9.83E-03	C3, LRP1, SCD	3
Tissue Morphology	density	density of beta islet cells	6.05E-03	RPS6KA1	1
Tissue Morphology	density	density of vascular tissue	1.80E-02	VEGFA	1
Tissue Morphology	morphology	morphology of glomeruloid body	6.05E-03	VEGFA	1
Tissue Morphology	morphology	morphology of microvessel	6.05E-03	VEGFA	1
Tissue Morphology	permeabilization	permeabilization of capillary vessel	6.05E-03	VEGFA	1
Tissue Morphology	permeabilization	permeabilization of endothelial tissue	6.05E-03	VEGFA	1
Tissue Morphology	quantity	quantity of endothelial progenitor cells	6.05E-03	VEGFA	1
Tissue Morphology	quantity	quantity of hemangioblasts	1.21E-02	VEGFA	1
Tissue Morphology	quantity	quantity of satellite cells	1.21E-02	VEGFA	1
Tissue Morphology	quantity	quantity of microvascular endothelial cells	1.80E-02	VEGFA	1
Tissue Morphology	removal	delay in removal of parenchyma	6.05E-03	C3	1
Tissue Morphology	hypoplasia	hypoplasia of artery	1.21E-02	TBX1	1
Tissue Morphology	collapse	collapse of blood vessel	1.80E-02	VEGFA	1
Tissue Morphology	transformation	transformation of cervical vertebra	1.80E-02	ALDH1A1	1
Tissue Morphology	volume	volume of cells	2.32E-02	FASN, P2RX7 FN1, PTPRZ1,	2
Cellular Movement	migration	migration of brain cancer cell lines	2.37E-03	VEGFA DNM2, FN1, LRP1, MAPKAPK 2	3
Cellular Movement	migration	migration of connective tissue cells	2.73E-03	2	4

Cellular Movement	migration	migration of brain cells	4.04E-03	FN1, PTPRZ1, VEGFA	3
Cellular Movement	migration	migration of Schwann cells	4.11E-03	FN1, VEGFA	2
Cellular Movement	migration	migration of endothelial cells	5.06E-03	FN1, GRN, MAPKAPK 2, PIM1, VEGFA	5
Cellular Movement	migration	migration of cerebral cortex cells	6.41E-03	FN1, PTPRZ1	2
Cellular Movement	migration	migration of pyramidal neurons	1.21E-02	FN1	1
Cellular Movement	migration	migration of cervical cancer cell lines	1.24E-02	FN1, MAPKAPK 2	2
Cellular Movement	migration	migration of gonadal cell lines	1.41E-02	ADAM33, FN1	2
Cellular Movement	migration	migration of fibroblasts	1.53E-02	FN1, LRP1, MAPKAPK 2	3
Cellular Movement	migration	migration of cell lines	1.58E-02	ADAM33, C3, FN1, GRN, LRP1, MAPKAPK 2, PTPRZ1, VEGFA	8
Cellular Movement	migration	migration of normal cells	1.79E-02	C3, DNM2, FN1, GRN, LRP1, MAPKAPK 2, PIM1, PROC (includes EG:5624), PTPRZ1, TBX1, VEGFA	11
Cellular Movement	migration	migration of intestinal cell lines	1.80E-02	FN1	1
Cellular Movement	migration	migration of prostate cell lines	1.80E-02	FN1	1

Cellular Movement	migration	migration of tumor cell lines	1.94E-02	FN1, GRN, LRP1, MAPKAPK 2, PTPRZ1, VEGFA	6
Cellular Movement	migration	migration of macrophages	2.10E-02	MAPKAPK 2, VEGFA	2
Cellular Movement	migration	migration of endothelial cell lines	2.33E-02	FN1, PTPRZ1, VEGFA	3
Cellular Movement	haptotaxis	haptotaxis of tumor cell lines	4.64E-03	FN1, VEGFA	2
Cellular Movement	haptotaxis	haptotaxis of breast cancer cell lines	6.05E-03	FN1	1
Cellular Movement	invasion	invasion of endothelial cells	5.79E-03	LRP1, VEGFA	2
Cellular Movement	invasion	invasion of normal cells	1.30E-02	FN1, LRP1, VEGFA	3
Cellular Movement	cell movement	cell movement of leukocyte cell lines	6.27E-03	C3, FN1, VEGFA	3
Cellular Movement	cell movement	cell movement of endothelial cell lines	1.60E-02	FN1, VEGFA	2
Cellular Movement	infiltration	infiltration of endothelial cell lines	1.21E-02	VEGFA	1
Cellular Movement	localization	localization of neutrophils	1.21E-02	C3	1
Cellular Movement	mobilization	mobilization of endothelial progenitor cells	1.80E-02	VEGFA	1
Auditory and Vestibular System Development and Function	development	development of ear	2.70E-03	TBX1, VEGFA	2
Auditory and Vestibular System Development and Function	lymphangiogenesis	lymphangiogenesis of ear	6.05E-03	VEGFA	1
Auditory and Vestibular System Development and Function	morphogenesis	morphogenesis of ear	1.80E-02	TBX1	1
Cell Cycle	cell stage	cell stage of endothelial cells	2.70E-03	FN1, VEGFA	2
Cell Cycle	cell stage	re-entry into cell stage of cells	2.21E-02	FN1, VEGFA	2
Cell Cycle	cell stage	cell stage of kidney cell lines	2.32E-02	GRN, PIM1	2

Cell Cycle	G1/S phase transition	entry into G1/S phase transition of microvascular endothelial cells	6.05E-03	FN1	1
Cell Cycle	aneuploidization	aneuploidization of epithelial cells	6.05E-03	PIM1	1
Cell Cycle	cytokinesis	delay in cytokinesis of epithelial cells	6.05E-03	PIM1	1
Cell Cycle	mid-G1 phase	arrest in mid-G1 phase of microvascular endothelial cells	6.05E-03	FN1	1
Cell Cycle	polyploidization	polyploidization of epithelial cells	6.05E-03	PIM1	1
Cell Cycle	polyploidization	polyploidization of mammary cells	6.05E-03	PIM1	1
Cell Cycle	polyploidization	polyploidization of prostate cells	6.05E-03	PIM1	1
Cell Cycle	senescence	senescence of microvascular endothelial cells	6.05E-03	VEGFA	1
Cell Cycle	cell division process	cell division process of endothelial cells	7.73E-03	FN1, VEGFA	2
Cell Cycle	S phase	re-entry into S phase of unspecified cell lines	1.21E-02	FN1	1
Cell Cycle	mitogenesis	mitogenesis of hepatic stellate cells	1.21E-02	VEGFA	1
Cell Cycle	mitogenesis	mitogenesis of vascular endothelial cells	1.21E-02	VEGFA	1
Cell Cycle	mitosis	mitosis of carcinoma cell lines	1.80E-02	GRN	1
Cell Cycle	mitosis	mitosis of endothelial cells	1.80E-02	VEGFA	1
Cell		cell spreading of endothelial cell lines		FN1,	
Morphology	cell spreading	cell spreading of peritoneal macrophages	2.70E-03	VEGFA	2
Cell		cell spreading of peritoneal macrophages		FN1	
Morphology	cell spreading	cell spreading of eye cell lines	6.05E-03	FN1	1
Morphology	cell spreading	cell spreading of eye cell lines	1.21E-02	FN1, DNM2, PROC	1
Cell	electrical resistance	electrical resistance of endothelial cells		(includes EG:5624)	
Morphology	electrical resistance	electrical resistance of endothelial cells	3.61E-03	FN1,	2
Cell		shape change of embryonic cell lines		P2RX7	
Morphology	shape change	shape change of embryonic cell lines	4.64E-03	FN1,	2
Cell		shape change of epithelial cell lines		P2RX7	
Morphology	shape change	shape change of epithelial cell lines	8.44E-03	FN1,	2
Cell		shape change of kidney cell lines		P2RX7	
Morphology	shape change	shape change of kidney cell lines	1.50E-02	P2RX7	2
Cell		branching of endothelial cells		VEGFA	
Morphology	branching	branching of endothelial cells	6.05E-03	VEGFA	1
Cell		extension of microvascular endothelial cells		FN1	
Morphology	extension	extension of microvascular endothelial cells	6.05E-03	FN1	1
Cell		morphology of thyroid cells		FN1	
Morphology	morphology	morphology of thyroid cells	6.05E-03	FN1	1
Cell		morphology of collagen fibrils		COL5A1	
Morphology	morphology	morphology of collagen fibrils	1.21E-02	COL5A1	1
Cell		permeability of bone cell lines		VEGFA	
Morphology	permeability	permeability of bone cell lines	6.05E-03	VEGFA	1
Cell		permeability of leukocyte cell lines		VEGFA	
Morphology	permeability	permeability of leukocyte cell lines	6.05E-03	VEGFA	1
Cell		volume of prostate cancer cell lines		FASN	
Morphology	volume	volume of prostate cancer cell lines	6.05E-03	FASN,	1
Cell		volume of cells		P2RX7	
Morphology	volume	volume of cells	2.32E-02	P2RX7	2

Cell Morphology	reorganization	reorganization of actin	7.06E-03	FN1, VEGFA	2
Cell Morphology	reorganization	reorganization of F-actin	1.21E-02	FN1	1
Cell Morphology	blebbing	blebbing of bone cell lines	1.21E-02	P2RX7	1
Cell Morphology	blebbing	blebbing of embryonic cell lines	1.21E-02	P2RX7	1
Cell Morphology	blebbing	blebbing of epithelial cell lines	1.21E-02	P2RX7	1
Cell Morphology	blebbing	blebbing of leukocyte cell lines	1.21E-02	P2RX7	1
Cell Morphology	blebbing	blebbing of connective tissue cells	1.80E-02	P2RX7	1
Cell Morphology	tubulation	tubulation of HAEC cells	1.21E-02	VEGFA	1
Cell Morphology	tubulation	tubulation of endothelial cell lines	2.21E-02	PTPRZ1, VEGFA	2
Cell Morphology	cell rounding	cell rounding of cervical cancer cell lines	1.80E-02	FN1	1
Connective Tissue Disorders	Ehlers-Danlos syndrome	Ehlers-Danlos syndrome	2.70E-03	COL3A1, COL5A1	2
Connective Tissue Disorders	Ehlers-Danlos Syndrome Type IV	Ehlers-Danlos Syndrome Type IV	6.05E-03	COL3A1	1
Connective Tissue Disorders	Ehlers-Danlos syndrome, type II	Ehlers-Danlos syndrome, type II	6.05E-03	COL5A1	1
Connective Tissue Disorders	hypoxia	hypoxia of epiphyseal cartilage	6.05E-03	VEGFA	1
Connective Tissue Disorders	experimentally-induced arthritis	experimentally-induced arthritis of mice	6.27E-03	C3, MAPKAPK 2, P2RX7	3
Connective Tissue Disorders	Ehlers-Danlos syndrome, type III	Ehlers-Danlos syndrome, type III	1.21E-02	COL3A1	1
Connective Tissue Disorders	anoikis	anoikis of dermal fibroblasts	1.21E-02	FN1	1
Connective Tissue Disorders	Ehlers-Danlos syndrome, type I	Ehlers-Danlos syndrome, type I	1.80E-02	COL5A1	1
Connective Tissue Disorders	apoptosis	delay in apoptosis of fibroblast cell lines	1.80E-02	FN1	1
Genetic Disorder	transformation Ehlers-Danlos syndrome	transformation of cervical vertebra Ehlers-Danlos syndrome	1.80E-02	ALDH1A1	1
Genetic Disorder			2.70E-03	COL3A1, COL5A1	2

Genetic Disorder	von Hippel-Lindau syndrome	von Hippel-Lindau syndrome	3.61E-03	RPS6KA1, VEGFA, C3, LRP1, PPARGC1B, SCD	2
Genetic Disorder	obesity	obesity of mice	4.30E-03		4
Genetic Disorder	DiGeorge syndrome	DiGeorge syndrome	6.05E-03	TBX1	1
Genetic Disorder	Ehlers-Danlos Syndrome Type IV	Ehlers-Danlos Syndrome Type IV	6.05E-03	COL3A1	1
Genetic Disorder	Ehlers-Danlos syndrome, type II	Ehlers-Danlos syndrome, type II	6.05E-03	COL5A1	1
Genetic Disorder	Sjogren's syndrome	Sjogren's syndrome of mice	6.05E-03	C3	1
Genetic Disorder	Ehlers-Danlos syndrome, type III	Ehlers-Danlos syndrome, type III	1.21E-02	COL3A1, RMRP (includes EG:6023)	1
Genetic Disorder	cartilage-hair hypoplasia	cartilage-hair hypoplasia	1.21E-02	ALDH1A1, C3, INSIG1, LRP1, MAPKAPK2, PPARGC1B, PROC (includes EG:5624), SCD, VEGFA	1
Genetic Disorder	genetic disorder	genetic disorder of mice	1.31E-02		9
Genetic Disorder	Ehlers-Danlos syndrome, type I	Ehlers-Danlos syndrome, type I	1.80E-02	COL5A1	1
Genetic Disorder	age-related macular degeneration-wet form	age-related macular degeneration-wet form	2.40E-02	VEGFA	1
Skeletal and Muscular Disorders	Ehlers-Danlos syndrome	Ehlers-Danlos syndrome	2.70E-03	COL3A1, COL5A1	2
Skeletal and Muscular Disorders	Ehlers-Danlos Syndrome Type IV	Ehlers-Danlos Syndrome Type IV	6.05E-03	COL3A1	1
Skeletal and Muscular Disorders	Ehlers-Danlos syndrome, type II	Ehlers-Danlos syndrome, type II	6.05E-03	COL5A1	1
Skeletal and Muscular Disorders	dysplasia	dysplasia of knee	6.05E-03	VEGFA	1
Skeletal and Muscular Disorders	edema	edema of muscle	6.05E-03	VEGFA	1

Skeletal and Muscular Disorders	hypoxia	hypoxia of epiphyseal cartilage	6.05E-03	VEGFA	1
Skeletal and Muscular Disorders	experimentally-induced arthritis	experimentally-induced arthritis of mice	6.27E-03	C3, MAPKAPK 2, P2RX7	3
Skeletal and Muscular Disorders	Ehlers-Danlos syndrome, type III	Ehlers-Danlos syndrome, type III	1.21E-02	COL3A1	1
Skeletal and Muscular Disorders	Ehlers-Danlos syndrome, type I	Ehlers-Danlos syndrome, type I	1.80E-02	COL5A1	1
Skeletal and Muscular Disorders	dystonia	dystonia of mice	1.80E-02	LRP1	1
Skeletal and Muscular Disorders	transformation	transformation of cervical vertebra	1.80E-02	ALDH1A1	1
System Development and Function	adhesion	adhesion of bone cell lines	3.14E-03	FN1, VEGFA	2
System Development and Function	adhesion	adhesion of hOB cells	1.80E-02	FN1	1
System Development and Function	differentiation	differentiation of muscle	5.79E-03	FN1, SIRT1	2
System Development and Function	differentiation	arrest in differentiation of bone cell lines	1.80E-02	CBFA2T3	1
System Development and Function	angiogenesis	angiogenesis of skeletal muscle	6.05E-03	VEGFA	1
System Development and Function	angiogenesis	angiogenesis of leg	1.80E-02	VEGFA	1

Skeletal and Muscular System Development and Function	angiogenesis	angiogenesis of bone	2.40E-02	VEGFA	1
Skeletal and Muscular System Development and Function	development	development of ossification zone	6.05E-03	VEGFA	1
Skeletal and Muscular System Development and Function	development	development of vertebrae	7.73E-03	ALDH1A1, TBX1	2
Skeletal and Muscular System Development and Function	development	development of diaphragm	1.80E-02	SLIT3	1
Skeletal and Muscular System Development and Function	neovascularization	neovascularization of muscle	6.05E-03	VEGFA	1
Skeletal and Muscular System Development and Function	permeability	permeability of bone cell lines	6.05E-03	VEGFA	1
Skeletal and Muscular System Development and Function	resorption	resorption of trabecular bone	1.80E-02	P2RX7	1

Gene Expression	transcription	transcription	3.52E-03	AES, ARHGEF17, DDX17, EIF4G2, FN1, FOXN3, GRN, MAFF, MAPKAPK2, MLX, PPARGC1B, PRKACB, RPS6KA1, SCD2, SIN3B, SIRT1, SRCAP, ST3GAL3, TBX1, VAPA, VEGFA	21
Gene Expression	transcription	transcription of CACGTG motif	1.21E-02	MLX	1
Gene Expression	transcription	transcription of FGF-inducible response element	1.80E-02	FN1	1
Gene Expression	transcription	transcription of glucocorticoid response element	1.80E-02	SRCAP	1
Gene Expression	stabilization	stabilization of mRNA	4.64E-03	MAPKAPK2, VEGFA	2
Gene Expression	generation	generation of mRNA	6.05E-03	DCP2, EIF4G2, PROC (includes EG:5624), RPS6KA1	1
Gene Expression	expression	expression of mRNA	7.45E-03	PPARGC1B	3
Gene Expression	co-activation	co-activation of LXR response element	1.80E-02	PPARGC1B	1
Gene Expression	co-activation	co-activation of steroid response element	1.80E-02	PPARGC1B	1
Gene Expression	translation	translation of mRNA	2.00E-02	EIF4G2, RPS6KA1	2
Gene Expression	activation	activation of carbohydrate response element	2.40E-02	MLX	1
Nervous System Development and Function	migration	migration of Schwann cells	4.11E-03	FN1, VEGFA	2

Nervous System Development and Function	migration	migration of pyramidal neurons	1.21E-02	FN1	1
Nervous System Development and Function	cell viability	cell viability of Schwann cells	6.05E-03	VEGFA	1
Nervous System Development and Function	outgrowth	outgrowth of growth cone	6.05E-03	FN1	1
Nervous System Development and Function	survival	survival of satellite cells	6.05E-03	VEGFA	1
Nervous System Development and Function	patterning	patterning of rhombencephalon	1.21E-02	ALDH1A1	1
Nervous System Development and Function	quantity	quantity of satellite cells	1.21E-02	VEGFA	1
Nervous System Development and Function	proliferation	proliferation of astrocytes	1.24E-02	GRN, VEGFA	2
Nervous System Development and Function	adhesion	adhesion of astrocytes	1.80E-02	FN1	1
Cellular Assembly and Organization	rearrangement	rearrangement of cytoskeleton	4.48E-03	FN1, LRP1, VEGFA	3
Cellular Assembly and Organization	rearrangement	delay in rearrangement of cytoskeleton	1.21E-02	FN1	1
Cellular Assembly and Organization	accumulation	accumulation of caveolae	6.05E-03	DNM2	1
Cellular Assembly and Organization	accumulation	accumulation of focal adhesions	1.21E-02	LRP1	1
Cellular Assembly and Organization	differentiation	differentiation of proplatelets	6.05E-03	FN1	1
Cellular Assembly and Organization	formation	formation of plasma membrane	6.05E-03	DNM2	1
Cellular Assembly and Organization	formation	delay in formation of focal adhesions	1.21E-02	FN1	1

Cellular Assembly and Organization	outgrowth	outgrowth of growth cone	6.05E-03	FN1	1
Cellular Assembly and Organization	assembly	assembly of focal adhesions	6.41E-03	FN1, VEGFA	2
Cellular Assembly and Organization	assembly	delay in assembly of actin stress fibers	1.21E-02	FN1	1
Cellular Assembly and Organization	reorganization	reorganization of actin	7.06E-03	FN1, VEGFA	2
Cellular Assembly and Organization	reorganization	reorganization of F-actin	1.21E-02	FN1	1
Cellular Assembly and Organization	organization	organization of collagen fibrils	8.44E-03	COL3A1, COL5A1	2
Cellular Assembly and Organization	association	association of phospholipid vesicles	1.21E-02	DNM2	1
Cellular Assembly and Organization	disruption	disruption of PML nuclear bodies	1.21E-02	SENP2	1
Cellular Assembly and Organization	fibrogenesis	fibrogenesis of fibronectin matrix	1.21E-02	FN1	1
Cellular Assembly and Organization	morphology	morphology of collagen fibrils	1.21E-02	COL5A1	1
Cellular Assembly and Organization	phagocytosis	phagocytosis of particle	1.21E-02	C3	1
Cellular Assembly and Organization	shedding	shedding of microvesicles	1.21E-02	P2RX7	1
Cellular Assembly and Organization	transport	transport of nucleus	1.21E-02	FN1	1
Cellular Assembly and Organization	quantity	quantity of plasma membrane projections	1.39E-02	LRP1, PTPRZ1, VEGFA	3
Cellular Assembly and Organization	quantity	quantity of focal adhesions	1.41E-02	FN1, VEGFA	2
Cellular Assembly and Organization	quantity	quantity of collagen fibrils	1.80E-02	COL5A1	1
Cellular Assembly and Organization	binding	binding of filament barbed ends	1.80E-02	CYB5R3	1

Cellular Assembly and Organization	binding	binding of focal adhesions	1.80E-02	FN1	1
Cellular Assembly and Organization	endocytosis	endocytosis of liposome	1.80E-02	LRP1	1
Cellular Assembly and Organization	leakage	leakage of lysosome	1.80E-02	LRP1	1
Cellular Assembly and Organization	release	release of specific granules	1.80E-02	FN1	1
Infectious Disease	HIV infection	HIV infection of eukaryotic cells	4.64E-03	C3, FN1	2
Infectious Disease	HIV infection	HIV infection of lymphocytes	2.40E-02	FN1 AES, BAT3, C3, COL5A1, DCP2, DNM2, FN1, GLUL, LAPTM5, MGAT1, NUDT3, PRCC, PROC (includes EG:5624), PTPRZ1, SLIT3, SORCS2, ST3GAL3	1
Infectious Disease	infectious disorder	infectious disorder	8.34E-03	AES, COL5A1, DCP2, DNM2, NUDT3, ST3GAL3	17
Infectious Disease	infectious disorder	infectious disorder of epithelial cell lines	9.85E-03	AES, COL5A1, DCP2, DNM2, NUDT3, ST3GAL3	6
Infectious Disease	infectious disorder	infectious disorder of embryonic cell lines	1.00E-02	AES, COL5A1, DCP2, DNM2, NUDT3, ST3GAL3	6

Infectious Disease	infectious disorder	infectious disorder of eukaryotic cells	1.23E-02	AES, BAT3, C3, COL5A1, DCP2, DNM2, FN1, LAPTM5, MGAT1, NUDT3, ST3GAL3	11
Infectious Disease	infection	infection of kidney cell lines	1.08E-02	AES, COL5A1, DCP2, DNM2, NUDT3, ST3GAL3	6
Infectious Disease	dengue fever	dengue fever	1.60E-02	C3, PROC (includes EG:5624)	2
Infectious Disease	sepsis	sepsis of humans	1.80E-02	PROC (includes EG:5624)	1
RNA Damage and Repair	stabilization	stabilization of mRNA	4.64E-03	MAPKAPK 2, VEGFA	2
RNA Post-Transcriptional Modification	stabilization	stabilization of mRNA	4.64E-03	MAPKAPK 2, VEGFA	2
RNA Post-Transcriptional Modification	decapping	decapping of mRNA	6.05E-03	DCP2	1
RNA Post-Transcriptional Modification	cleavage	cleavage of hnRNA	1.21E-02	SEN2	1
RNA Post-Transcriptional Modification	polyadenylation	polyadenylation of hnRNA	1.21E-02	SEN2	1
RNA Post-Transcriptional Modification	unwinding	unwinding of RNA	1.80E-02	DDX17	1
Tumor Morphology	formation	formation of pathological cyst	5.79E-03	AQP11, VEGFA	2
Tumor Morphology	formation	formation of hemangioma	1.21E-02	VEGFA	1
Tumor Morphology	vascularization	vascularization of breast carcinoma	6.05E-03	VEGFA	1
Tumor Morphology	hypoxia	hypoxia of breast carcinoma	1.21E-02	VEGFA	1
Tumor Morphology	adhesion	adhesion of glioma cells	1.80E-02	FN1	1
Antigen Presentation	antigenicity	antigenicity of endothelial cell lines	6.05E-03	ST3GAL3	1

Antigen Presentation	cell spreading	cell spreading of peritoneal macrophages	6.05E-03	FN1	1
Antigen Presentation	fusion	fusion of multinucleated giant cells	6.05E-03	P2RX7 GRN,	1
Antigen Presentation	accumulation	accumulation of macrophages	1.69E-02	VEGFA	2
Antigen Presentation	migration	migration of macrophages	2.10E-02	MAPKAPK 2, VEGFA	2
Auditory Disease	hypoplasia	hypoplasia of inner ear	6.05E-03	TBX1	1
Auditory Disease	edema	edema of ear	1.80E-02	VEGFA	1
Cell Signaling	upregulation	upregulation of Ca ²⁺	6.05E-03	VEGFA	1
Cell Signaling	upregulation	upregulation of calcium	6.05E-03	VEGFA	1
Cellular Compromise	deformation	deformation of mitotic spindle	6.05E-03	PIM1	1
Cellular Compromise	disorganization	disorganization of tight junctions	6.05E-03	VEGFA AES, COL5A1, DCP2, DNM2, NUDT3, ST3GAL3	1
Cellular Compromise	infection	infection of kidney cell lines	1.08E-02	ST3GAL3	6
Cellular Compromise	disruption	disruption of PML nuclear bodies	1.21E-02	SEN2	1
Cellular Compromise	shedding	shedding of microvesicles	1.21E-02	P2RX7	1
Cellular Compromise	dysfunction	dysfunction of keratinocytes	1.80E-02	MAFF	1
Developmental Disorder	DiGeorge syndrome	DiGeorge syndrome	6.05E-03	TBX1	1
Developmental Disorder	dysplasia	dysplasia of knee	6.05E-03	VEGFA	1
Developmental Disorder	hypoplasia	hypoplasia of inner ear	6.05E-03	TBX1	1
Developmental Disorder	hypoplasia	hypoplasia of artery	1.21E-02	TBX1	1
Developmental Disorder	hypoplasia	hypoplasia of parathyroid gland	1.21E-02	TBX1 RMRP (includes EG:6023)	1
Developmental Disorder	cartilage-hair hypoplasia	cartilage-hair hypoplasia	1.21E-02	EG:6023	1
Developmental Disorder	hypertrophy	hypertrophy of lymph node	1.21E-02	C3	1
Endocrine System Development and Function	density	density of beta islet cells	6.05E-03	RPS6KA1	1

Endocrine System Development and Function	morphology	morphology of thyroid cells	6.05E-03	FN1	1
Endocrine System Development and Function	proportion	proportion of beta islet cells	6.05E-03	RPS6KA1	1
Endocrine System Development and Function	proliferation	proliferation of adrenal glomerulosa cells	1.21E-02	FN1	1
Hematological Disease	detachment	detachment of hematopoietic progenitor cells	6.05E-03	FN1	1
Hematological Disease	hyperplasia	hyperplasia of dendritic cells	6.05E-03	VEGFA	1
Hematological Disease	hypoxia	hypoxia of epiphyseal cartilage	6.05E-03	VEGFA	1
Hematological Disease	hypoxia	hypoxia of breast carcinoma	1.21E-02	VEGFA	1
Hematological Disease	dyslipidemia	dyslipidemia	1.24E-02	FASN, PPARGC1B, PROC (includes EG:5624), VEGFA	2
Hematological Disease	hematological disorder	hematological disorder of tissue	1.32E-02	VEGFA	2
Hematological Disease	attachment	attachment of leukemia cell lines	1.80E-02	FN1, PROC (includes EG:5624)	1
Hematological Disease	hemorrhage	hemorrhage of spinal cord	1.80E-02	EG:5624)	1
Hematological Disease	lysis	lysis of thymocytes	1.80E-02	P2RX7	1
Hematological Disease	HIV infection	HIV infection of lymphocytes	2.40E-02	FN1	1
System Development and Function	cell spreading	cell spreading of peritoneal macrophages	6.05E-03	FN1	1
System Development and Function	differentiation	differentiation of cobblestone area-forming cells	6.05E-03	VEGFA	1
System Development and Function	differentiation	differentiation of long-term culture-initiating cells	6.05E-03	VEGFA	1
System Development and Function	differentiation	differentiation of peripheral blood lymphocytes	1.21E-02	VEGFA	1

Hematological System Development and Function	differentiation	arrest in differentiation of granulocytes	1.80E-02	CBFA2T3	1
Hematological System Development and Function	differentiation	arrest in differentiation of leukocyte cell lines	1.80E-02	CBFA2T3	1
Hematological System Development and Function	differentiation	differentiation of colony-forming erythroid cells	1.80E-02	VEGFA	1
Hematological System Development and Function	fusion	fusion of multinucleated giant cells	6.05E-03	P2RX7	1
Hematological System Development and Function	opsonization	opsonization of red blood cells	6.05E-03	C3	1
Hematological System Development and Function	cell movement	cell movement of leukocyte cell lines	6.27E-03	C3, FN1, VEGFA, GRN, PROC (includes EG:5624),	3
Hematological System Development and Function	accumulation	accumulation of phagocytes	9.46E-03	VEGFA	3
Hematological System Development and Function	accumulation	accumulation of macrophages	1.69E-02	GRN, VEGFA	2
Hematological System Development and Function	adhesion	adhesion of eosinophils	9.92E-03	C3, FN1	2
Hematological System Development and Function	adhesion	adhesion of granulocytes	1.39E-02	C3, FN1, LCP1, C3, FN1, LCP1, PROC (includes EG:5624),	3
Hematological System Development and Function	adhesion	adhesion of leukocytes	1.78E-02	VEGFA	5
Hematological System Development and Function	adhesion	adhesion of leukocyte cell lines	2.32E-02	FN1, VEGFA	2

Hematological System Development and Function	blebbing	blebbing of leukocyte cell lines	1.21E-02	P2RX7	1
Hematological System Development and Function	formation	formation of colony-forming granulocyte-macrophages	1.21E-02	VEGFA	1
Hematological System Development and Function	formation	formation of cord blood	1.21E-02	VEGFA	1
Hematological System Development and Function	generation	generation of germinal center B lymphocytes	1.21E-02	C3	1
Hematological System Development and Function	generation	generation of plasma cells	1.80E-02	C3	1
Hematological System Development and Function	localization	localization of neutrophils	1.21E-02	C3	1
Hematological System Development and Function	recruitment	recruitment of hematopoietic progenitor cells	1.80E-02	VEGFA	1
Hematological System Development and Function	repopulation	repopulation of hematopoietic progenitor cells	1.80E-02	VEGFA	1
Hematopoiesis	differentiation	differentiation of cobblestone area-forming cells	6.05E-03	VEGFA	1
Hematopoiesis	differentiation	differentiation of long-term culture-initiating cells	6.05E-03	VEGFA	1
Hematopoiesis	differentiation	differentiation of peripheral blood lymphocytes	1.21E-02	VEGFA	1
Hematopoiesis	differentiation	arrest in differentiation of granulocytes	1.80E-02	CBFA2T3	1
Hematopoiesis	differentiation	arrest in differentiation of leukocyte cell lines	1.80E-02	CBFA2T3	1
Hematopoiesis	differentiation	differentiation of colony-forming erythroid cells	1.80E-02	VEGFA	1
Hematopoiesis	formation	formation of colony-forming granulocyte-macrophages	1.21E-02	VEGFA	1
Hematopoiesis	repopulation	repopulation of hematopoietic progenitor cells	1.80E-02	VEGFA	1
Hepatic System Development and Function	adipogenesis	adipogenesis of hepatocytes	6.05E-03	ACACA	1

Hepatic System Development and Function	mitogenesis	mitogenesis of hepatic stellate cells	1.21E-02	VEGFA	1
Hepatic System Development and Function	glycogenolysis	glycogenolysis of liver	1.80E-02	SCD	1
Humoral Immune Response	opsonization	opsonization of red blood cells	6.05E-03	C3	1
Humoral Immune Response	generation	generation of germinal center B lymphocytes	1.21E-02	C3	1
Humoral Immune Response	generation	generation of plasma cells	1.80E-02	C3	1
Infection Mechanism	binding	binding of bacteriophage	6.05E-03	VEGFA	1
Infection Mechanism	fusion	fusion of multinucleated giant cells	6.05E-03	P2RX7	1
Infection Mechanism	localization	localization of bacteriophage	6.05E-03	VEGFA	1
Inflammatory Disease	cystoid macular edema	cystoid macular edema	6.05E-03	VEGFA	1
Inflammatory Disease	experimentally-induced arthritis	experimentally-induced arthritis of mice	6.27E-03	C3, MAPKAPK 2, P2RX7	3
Inflammatory Disease	hyperresponsiveness	airway hyperresponsiveness of lung	1.21E-02	VEGFA	1
Inflammatory Disease	swelling	swelling of cell lines	1.80E-02	P2RX7	1
Inflammatory Response	cell spreading	cell spreading of peritoneal macrophages	6.05E-03	FN1	1
Inflammatory Response	formation	formation of peritoneal macrophages	6.05E-03	MAPKAPK 2	1
Inflammatory Response	fusion	fusion of multinucleated giant cells	6.05E-03	P2RX7	1
Inflammatory Response	inflammation	inflammation of interalveolar septa	6.05E-03	PROC (includes EG:5624)	1
Inflammatory Response	inflammation	inflammation of islets of Langerhans	6.05E-03	PROC (includes EG:5624)	1
Inflammatory Response	inflammation	inflammation of exocrine region of pancreas	1.21E-02	PROC (includes EG:5624)	1

Inflammatory Response	accumulation	accumulation of phagocytes	9.46E-03	GRN, PROC (includes EG:5624), VEGFA	3
Inflammatory Response	accumulation	accumulation of macrophages	1.69E-02	GRN, VEGFA	2
Inflammatory Response	blebbing	blebbing of leukocyte cell lines	1.21E-02	P2RX7	1
Inflammatory Response	localization	localization of neutrophils	1.21E-02	C3	1
Inflammatory Response	respiratory burst	respiratory burst of neutrophils	1.89E-02	C3, FN1	2
Inflammatory Response	migration	migration of macrophages	2.10E-02	MAPKAPK 2, VEGFA	2
Ophthalmic Disease	cystoid macular edema	cystoid macular edema	6.05E-03	VEGFA	1
Ophthalmic Disease	choroidal neovascularization	choroidal neovascularization	7.06E-03	C3, VEGFA	2
Ophthalmic Disease	neovascular glaucoma	neovascular glaucoma	1.21E-02	VEGFA	1
Ophthalmic Disease	nonproliferative diabetic retinopathy with macular edema	nonproliferative diabetic retinopathy with macular edema	1.21E-02	VEGFA	1
Ophthalmic Disease	age-related macular degeneration-wet form	age-related macular degeneration-wet form	2.40E-02	VEGFA	1
Organismal Development	size	size of blastocyst	6.05E-03	C3	1
Organismal Development	size	size of animal	2.33E-02	C3, RPS6KA1, SIRT1	3
Organismal Development	angiogenesis	angiogenesis of leg	1.80E-02	VEGFA	1
Organismal Development	development	development of face	1.80E-02	TBX1	1
Organismal Development	lymphangiogenesis	lymphangiogenesis of mice	1.80E-02	VEGFA	1
Protein Degradation	degradation	degradation of green fluorescent	6.05E-03	SIRT1	1
Protein Trafficking	accumulation	accumulation of protein fragment	6.05E-03	FN1	1
Protein Trafficking	reorganization	reorganization of actin	7.06E-03	FN1, VEGFA	2
Protein Trafficking	reorganization	reorganization of F-actin	1.21E-02	FN1	1
Renal and Urological Disease	formation	formation of glomeruloid body	6.05E-03	VEGFA	1

Renal and Urological Disease	glomeruloid body	glomeruloid body	6.05E-03	VEGFA	1
Renal and Urological Disease	injury	injury of podocytes	6.05E-03	C3	1
Renal and Urological Disease	morphology	morphology of glomeruloid body	6.05E-03	VEGFA AES, COL5A1, DCP2, DNM2, NUDT3, ST3GAL3	1
Renal and Urological Disease	infection	infection of kidney cell lines	1.08E-02	ST3GAL3	6
Renal and Urological Disease	healing	healing of bladder cancer cell lines	1.21E-02	GRN	1
Renal and Urological Disease	glomerulopathy	glomerulopathy	2.10E-02	C3, FN1	2
Renal and Urological Disease	proteinuria	proteinuria of mice	2.21E-02	C3, VEGFA	2
Reproductive System Disease	haptotaxis	haptotaxis of breast cancer cell lines	6.05E-03	FN1	1
Reproductive System Disease	vascularization	vascularization of breast carcinoma	6.05E-03	VEGFA	1
Reproductive System Disease	volume	volume of prostate cancer cell lines	6.05E-03	FASN	1
Reproductive System Disease	cell-cell contact	cell-cell contact of prostate cancer cell lines	1.21E-02	FASN	1
Reproductive System Disease	hypoxia	hypoxia of breast carcinoma	1.21E-02	VEGFA	1
Reproductive System Disease	sensitization	sensitization of prostate cancer cell lines	1.21E-02	PIM1 FN1, MAPKAPK	1
Reproductive System Disease	migration	migration of cervical cancer cell lines	1.24E-02	2	2
Reproductive System Disease	cell rounding	cell rounding of cervical cancer cell lines	1.80E-02	FN1	1
Reproductive System Disease	detachment	detachment of cervical cancer cell lines	1.80E-02	FN1	1
Respiratory Disease	hypoxia	hypoxia of epiphyseal cartilage	6.05E-03	VEGFA	1

Respiratory Disease	hypoxia	hypoxia of breast carcinoma	1.21E-02	VEGFA	1
Respiratory Disease	airway hyperresponsiveness	airway hyperresponsiveness of lung	1.21E-02	VEGFA	1
Respiratory Disease	neonatal surfactant deficiency	neonatal surfactant deficiency of mice	1.80E-02	VEGFA	1
Vitamin and Mineral Metabolism	upregulation	upregulation of Ca ²⁺	6.05E-03	VEGFA	1
Vitamin and Mineral Metabolism	upregulation	upregulation of calcium	6.05E-03	VEGFA	1
Vitamin and Mineral Metabolism	clearance	clearance of retinol	1.21E-02	ALDH1A1	1
Vitamin and Mineral Metabolism	clearance	clearance of retinaldehyde	1.80E-02	ALDH1A1	1
Vitamin and Mineral Metabolism	concentration	concentration of retinaldehyde	1.21E-02	ALDH1A1	1
Vitamin and Mineral Metabolism	concentration	concentration of retinoic acid	1.21E-02	ALDH1A1	1
Vitamin and Mineral Metabolism	metabolism	metabolism of coenzyme A	1.21E-02	ACLY	1
Metabolism	toxicity	toxicity of retinol	1.21E-02	ALDH1A1	1
Immune Cell Trafficking	cell movement	cell movement of leukocyte cell lines	6.27E-03	C3, FN1, VEGFA, GRN, PROC (includes EG:5624),	3
Immune Cell Trafficking	accumulation	accumulation of phagocytes	9.46E-03	VEGFA, GRN,	3
Immune Cell Trafficking	accumulation	accumulation of macrophages	1.69E-02	VEGFA	2
Immune Cell Trafficking	adhesion	adhesion of eosinophils	9.92E-03	C3, FN1	2
Immune Cell Trafficking	adhesion	adhesion of granulocytes	1.39E-02	C3, FN1, LCP1, PROC (includes EG:5624),	3
Immune Cell Trafficking	adhesion	adhesion of leukocytes	1.78E-02	VEGFA	5
Immune Cell Trafficking	localization	localization of neutrophils	1.21E-02	C3	1

Immune Cell Trafficking Cellular	migration	migration of macrophages	2.10E-02	MAPKAPK 2, VEGFA	2
Function and Maintenance Cellular	assembly	assembly of focal adhesions	6.41E-03	FN1, VEGFA	2
Function and Maintenance Cellular	assembly	delay in assembly of actin stress fibers	1.21E-02	FN1	1
Function and Maintenance Cellular	reorganization	reorganization of actin	7.06E-03	FN1, VEGFA	2
Function and Maintenance Cellular	reorganization	reorganization of F-actin	1.21E-02	FN1	1
Function and Maintenance Cellular	organization	organization of collagen fibrils	8.44E-03	COL3A1, COL5A1	2
Function and Maintenance Cellular	uptake	uptake of cells	9.17E-03	C3, LRP1	2
Function and Maintenance Cellular	uptake	uptake of phagocytes	1.21E-02	C3	1
Function and Maintenance Cellular	localization	localization of neutrophils	1.21E-02	C3	1
Function and Maintenance Cellular	endocytosis	endocytosis of liposome	1.80E-02	LRP1	1
Function and Maintenance Cellular	release	release of specific granules	1.80E-02	FN1	1
Function and Maintenance Digestive System	respiratory burst	respiratory burst of neutrophils	1.89E-02	C3, FN1	2
Development and Function Digestive System	development	development of intestine	7.73E-03	COL3A1, HDGF	2
Development and Function Digestive System	glycogenolysis	glycogenolysis of liver	1.80E-02	SCD	1
Development and Function Respiratory System	migration	migration of intestinal cell lines	1.80E-02	FN1	1
Development and Function	proliferation	proliferation of lung cell lines	8.44E-03	FN1, SIRT1	2

Respiratory System Development and Function	angiogenesis	angiogenesis of trachea	1.21E-02	VEGFA	1
Respiratory System Development and Function	angiogenesis	angiogenesis of lung cell lines	1.80E-02	VEGFA	1
Respiratory System Development and Function	development	development of diaphragm	1.80E-02	SLIT3	1
Hypersensitivity Response	adhesion	adhesion of eosinophils	9.92E-03	C3, FN1	2
Drug Metabolism	concentration	concentration of retinoic acid	1.21E-02	ALDH1A1 PROC (includes EG:5624)	1
Organismal Survival	survival	survival of monkey	1.21E-02		1
Renal and Urological System Development and Function	regeneration	regeneration of glomerular capillary	1.21E-02	VEGFA	1
Renal and Urological System Development and Function	shape change	shape change of kidney cell lines	1.50E-02	FN1, P2RX7	2
Renal and Urological System Development and Function	adhesion	adhesion of kidney cell lines	2.21E-02	C3, FN1	2
Energy Production	metabolism	metabolism of ATP	1.24E-02	ACLY, ATP5I	2
Post-Translational Modification	cleavage	cleavage of protein fragment	1.32E-02	C3, SEN2	2
Post-Translational Modification	deacetylation	deacetylation of amino acids	1.80E-02	SIRT1	1
Post-Translational Modification	modification	modification of glutamine	1.80E-02	GLUL	1
Amino Acid Metabolism	deacetylation	deacetylation of amino acids	1.80E-02	SIRT1	1
Amino Acid Metabolism	modification	modification of glutamine	1.80E-02	GLUL	1
DNA Replication, Recombination, and Repair	oxidation	oxidation of NADH	1.80E-02	GPD1	1

DNA Replication, Recombination , and Repair	damage	damage of DNA	2.10E-02	FN1, LRP1, SETD8	3
Protein Synthesis	translation	translation of mRNA	2.00E-02	EIF4G2, RPS6KA1	2