

Table S2 The detailed node information of constructed networks

No.	Gene name	Protein names
1	AKT1	RAC-alpha serine/threonine-protein kinase
2	TP53	Cellular tumor antigen p53
3	IL6	Interleukin-6
4	TNF	Tumor necrosis factor
5	IL1B	Interleukin-1 beta
6	BCL2	Apoptosis regulator Bcl-2
7	ESR1	Estrogen receptor
8	PTGS2	Prostaglandin G/H synthase 1
9	CASP3	Caspase-3
10	HIF1A	Hypoxia-inducible factor 1-alpha
11	STAT3	Signal transducer and activator of transcription 3
12	EGFR	Epidermal growth factor receptor
13	MYC	Myc proto-oncogene protein
14	PPARG	Peroxisome proliferator-activated receptor gamma
15	MAPK3	MAP kinase-activated protein kinase 3
16	MMP9	Matrix metalloproteinase-9
17	IL10	Interleukin-10
18	CCL2	C-C motif chemokine 2
19	CCND1	G1/S-specific cyclin-D1
20	IFNG	Interferon gamma
21	ERBB2	Receptor tyrosine-protein kinase erbB-2
22	CXCL8	Interleukin-8
23	EGF	Pro-epidermal growth factor

24	CYCS	Cytochrome c
25	ICAM1	Intercellular adhesion molecule 1
26	IL1A	Interleukin-1 alpha
27	STAT1	Signal transducer and activator of transcription 1-alpha/beta
28	HMOX1	Heme oxygenase 1
29	GSK3B	Glycogen synthase kinase-3 beta
30	RELA	Transcription factor p65
31	NFKBIA	NF-kappa-B inhibitor alpha
32	PPARA	Peroxisome proliferator-activated receptor alpha
33	VCAM1	Vascular cell adhesion protein 1
34	NFE2L2	Nuclear factor erythroid 2-related factor 2
35	IL2	Interleukin-2
36	IL4	Interleukin-4
37	MMP2	72 kDa type IV collagenase
38	BCL2L1	Bcl-2-like protein 1
39	CASP8	Caspase-8
40	MAPK1	Mitogen-activated protein kinase 1
41	CAV1	Caveolin-1
42	SERPINE1	Plasminogen activator inhibitor 1
43	CDKN1A	Cyclin-dependent kinase inhibitor 1
44	MAPK14	Mitogen-activated protein kinase 14
45	NR3C1	Glucocorticoid receptor
46	MAPK8	Mitogen-activated protein kinase 8
47	CD36	Platelet glycoprotein 4
48	ADIPOQ	Adiponectin

49	CASP9	Caspase-9
50	CASP1	Caspase-1
51	BRCA1	Breast cancer type 1 susceptibility protein
52	CRP	C-reactive protein
53	MPO	Myeloperoxidase
54	PRKCA	Protein kinase C alpha type
55	ESR2	Estrogen receptor beta
56	SPP1	Osteopontin
57	KDR	Vascular endothelial growth factor receptor 2
58	CXCL10	C-X-C motif chemokine 10
59	IKBKB	Inhibitor of nuclear factor kappa-B kinase subunit beta
60	AR	Androgen receptor
61	PGR	Progesterone receptor
62	APOB	Apolipoprotein B-100
63	NOS2	Nitric oxide synthase, inducible
64	MMP3	Stromelysin-1
65	SELE	E-selectin
66	MMP1	Interstitial collagenase
67	HMGCR	3-hydroxy-3-methylglutaryl-coenzyme A reductase
68	PLAU	Urokinase-type plasminogen activator
69	RUNX2	Runt-related transcription factor 2
70	CHUK	Inhibitor of nuclear factor kappa-B kinase subunit alpha
71	CYP3A4	Cytochrome P450 3A4
72	SLC2A4	Solute carrier family 2, facilitated glucose transporter member 4
73	IRF1	Interferon regulatory factor 1

74	DNMT1	DNA
75	FASN	Fatty acid synthase
76	TERT	Telomerase reverse transcriptase
77	CD40LG	CD40 ligand
78	SREBF1	Sterol regulatory element-binding protein 1
79	IGF2	Insulin-like growth factor II
80	CCNA2	Cyclin-A2
81	PPARD	Peroxisome proliferator-activated receptor delta
82	XDH	Xanthine dehydrogenase/oxidase
83	CYP1A1	Cytochrome P450 1A1
84	NQO1	NAD
85	PLAT	Tissue-type plasminogen activator
86	NCOA2	Nuclear receptor coactivator 2
87	RXRA	Retinoic acid receptor RXR-alpha
88	GSTP1	Glutathione S-transferase P
89	HSPB1	Heat shock protein beta-1
90	RB1	Retinoblastoma-associated protein
91	F3	Tissue factor
92	NCOA1	Nuclear receptor coactivator 1
93	CCR7	C-C chemokine receptor type 7
94	ADRB2	Beta-2 adrenergic receptor
95	PRKDC	DNA-dependent protein kinase catalytic subunit
96	PTGS1	Prostaglandin G/H synthase 1
97	CXCL2	C-X-C motif chemokine 2
98	NCF1	Neutrophil cytosol factor 1

99	FOSL1	Fos-related antigen 1
100	THBD	Thrombomodulin
101	TYMS	Thymidylate synthase
102	GJA1	Gap junction alpha-1 protein
103	CHEK2	Serine/threonine-protein kinase Chk2
104	NFATC1	Nuclear factor of activated T-cells, cytoplasmic 1
105	TOP2A	DNA topoisomerase 2-alpha
106	CYP1A2	Cytochrome P450 1A2
107	BAX	Apoptosis regulator BAX
108	CXCL11	C-X-C motif chemokine 11
109	NR1I2	Nuclear receptor subfamily 1 group I member 2
110	CTSD	Cathepsin D
111	MGMT	Methylated-DNA--protein-cysteine methyltransferase
112	SUMO1	Small ubiquitin-related modifier 1
113	ACOX1	Peroxisomal acyl-coenzyme A oxidase 1
114	ACHE	Acetylcholinesterase
115	MAOA	Amine oxidase
116	OPRM1	Mu-type opioid receptor
117	DNMT3A	DNA
118	BIRC5	Baculoviral IAP repeat-containing protein 5
119	OLR1	Oxidized low-density lipoprotein receptor 1
120	RAF1	RAF proto-oncogene serine/threonine-protein kinase
121	PON1	Serum paraoxonase/arylesterase 1
122	DRD2	D
123	INSR	Insulin receptor

124	SLC6A4	Sodium-dependent serotonin transporter
125	ERBB3	Receptor tyrosine-protein kinase erbB-3
126	ACACA	Acetyl-CoA carboxylase 1
127	CTCF	Transcriptional repressor CTCF
128	ADORA2A	Adenosine receptor A2a
129	CYP1B1	Cytochrome P450 1B1
130	TOP1	DNA topoisomerase 1
131	FOSL2	Fos-related antigen 2
132	SLC6A3	Sodium-dependent dopamine transporter
133	CHRM2	Muscarinic acetylcholine receptor M2
134	NR3C2	Mineralocorticoid receptor
135	GSTM1	Glutathione S-transferase Mu 1
136	CAV3	Caveolin-3
137	CNR1	Cannabinoid receptor 1
138	ABCC1	Multidrug resistance-associated protein 1
139	POLE	DNA polymerase epsilon catalytic subunit A
140	PSMD3	26S proteasome non-ATPase regulatory subunit 3
141	NR1I3	Nuclear receptor subfamily 1 group I member 3
142	DUOX2	Dual oxidase 2
143	MAP2K4	Dual specificity mitogen-activated protein kinase kinase 4
144	F7	Coagulation factor VII
145	TCF3	Transcription factor E2-alpha
146	MGLL	Monoglyceride lipase
147	AHR	Aryl hydrocarbon receptor
148	AIFM1	Apoptosis-inducing factor 1, mitochondrial

149	ODC1	Ornithine decarboxylase
150	HAS2	Hyaluronan synthase 2
151	PAX5	Paired box protein Pax-5
152	RXRB	Retinoic acid receptor RXR-beta
153	DLD	Dihydrolipoyl dehydrogenase, mitochondrial
154	ADRA2A	Alpha-2A adrenergic receptor
155	MAP2	Microtubule-associated protein 2
156	CES1	Liver carboxylesterase 1
157	APRT	Adenine phosphoribosyltransferase
158	POLA1	DNA polymerase alpha catalytic subunit
159	SLPI	Antileukoproteinase
160	CHRNA2	Neuronal acetylcholine receptor subunit beta-2
161	POR	NADPH--cytochrome P450 reductase
162	EGLN1	Egl nine homolog 1
163	APOH	Beta-2-glycoprotein 1
164	HELLS	Lymphoid-specific helicase
165	LIG4	DNA ligase 4
166	MTTP	Microsomal triglyceride transfer protein large subunit
167	PYGM	Glycogen phosphorylase, muscle form
168	PNP	Purine nucleoside phosphorylase
169	DPYD	Dihydropyrimidine dehydrogenase
170	HSD3B2	3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 2
171	KCNH2	Potassium voltage-gated channel subfamily H member 2
172	FCER1A	High affinity immunoglobulin epsilon receptor subunit alpha

173	GABRA1	Gamma-aminobutyric acid receptor subunit alpha-1
174	GRIA2	Glutamate receptor 2
175	ACADS	Short-chain specific acyl-CoA dehydrogenase, mitochondrial
176	SOAT1	Sterol O-acyltransferase 1
177	SLC6A2	Sodium-dependent noradrenaline transporter
178	HTR3A	5-hydroxytryptamine receptor 3A
179	LDLR	Low-density lipoprotein receptor
180	CLDN4	Claudin-4
181	CHRNA2	Neuronal acetylcholine receptor subunit alpha-2
182	ENPP1	Ectonucleotide pyrophosphatase/phosphodiesterase family member 1
183	OPRD1	Delta-type opioid receptor
184	GCDH	Glutaryl-CoA dehydrogenase, mitochondrial
185	CHRM3	Muscarinic acetylcholine receptor M3
186	ATP5F1B	ATP synthase subunit beta, mitochondrial
187	GUK1	Guanylate kinase
188	GPR55	G-protein coupled receptor 55
189	VKORC1	Vitamin K epoxide reductase complex subunit 1
190	LTA4H	Leukotriene A-4 hydrolase
191	POLG	DNA polymerase subunit gamma-1
192	ADORA2B	Adenosine receptor A2b
193	ADH1C	Alcohol dehydrogenase 1C
194	GFER	FAD-linked sulfhydryl oxidase ALR
195	TCN1	Transcobalamin-1
196	IMPDH1	Inosine-5'-monophosphate dehydrogenase 1

197	ATP1A1	Sodium/potassium-transporting ATPase subunit alpha-1
198	SCN5A	Sodium channel protein type 5 subunit alpha
199	GOT1	Aspartate aminotransferase, cytoplasmic
200	RUNX1T1	Protein CBFA2T1
201	MMACHC	Cyanocobalamin reductase / alkylcobalamin dealkylase
202	ENPP3	Ectonucleotide pyrophosphatase/phosphodiesterase family member 3
203	CACNA1S	Voltage-dependent L-type calcium channel subunit alpha-1S
204	GABRB3	Gamma-aminobutyric acid receptor subunit beta-3
205	DUSP16	Dual specificity protein phosphatase 16
206	ADCYAP1	Pituitary adenylate cyclase-activating polypeptide
207	MMAA	Methylmalonic aciduria type A protein, mitochondrial
208	CAT	Catalase
209	MMAB	Corrinoid adenosyltransferase MMAB
210	AMN	Protein amnionless
211	EIF6	Eukaryotic translation initiation factor 6
212	TACR2	Substance-K receptor
No.	Node name	Detailed information
1	GC1	Inermine
2	GC2	DFV
3	GC3	Glycyrol
4	GC4	Jaranol
5	GC5	Medicarpin
6	GC6	isorhamnetin

7	GC7	sitosterol
8	GC8	Lupiwighteone
9	GC9	7-Methoxy-2-methyl isoflavone
10	GC10	formononetin
11	GC11	Calycosin
12	GC12	kaempferol
13	GC13	(2S)-2-[4-hydroxy-3-(3-methylbut-2-enyl)phenyl]-8,8-dimethyl-2,3-dihydropyrano[2,3-f]chromen-4-one
14	GC14	euchrenone
15	GC15	glyasperin B
16	GC16	glyasperin F
17	GC17	Glyasperin C
18	GC18	Isotrifoliol
19	GC19	(E)-1-(2,4-dihydroxyphenyl)-3-(2,2-dimethylchromen-6-yl)prop-2-en-1-one
20	GC20	kanzonols W
21	GC21	(2S)-6-(2,4-dihydroxyphenyl)-2-(2-hydroxypropan-2-yl)-4-methoxy-2,3-dihydrofuro[3,2-g]chromen-7-one
22	GC22	Semilicoisoflavone B
23	GC23	Glepidotin A
24	GC24	Glepidotin B
25	GC25	Phaseolinisoflavan
26	GC26	Glypallichalcone
27	GC27	8-(6-hydroxy-2-benzofuranyl)-2,2-dimethyl-5-chromenol
28	GC28	Licochalcone B

29	GC29	licochalcone G
30	GC30	3-(2,4-dihydroxyphenyl)-8-(1,1-dimethylprop-2-enyl)-7-hydroxy-5-methoxy-coumarin
31	GC31	Licoricone
32	GC32	Gancaonin A
33	GC33	Gancaonin B
34	GC34	3-(3,4-dihydroxyphenyl)-5,7-dihydroxy-8-(3-methylbut-2-enyl)chromone
35	GC35	5,7-dihydroxy-3-(4-methoxyphenyl)-8-(3-methylbut-2-enyl)chromone
36	GC36	2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-6-(3-methylbut-2-enyl)chromone
37	GC37	Glycyrin
38	GC38	Licocoumarone
39	GC39	Licoisoflavone
40	GC40	Licoisoflavone B
41	GC41	licoisoflavanone
42	GC42	shinpterocarpin
43	GC43	(E)-3-[3,4-dihydroxy-5-(3-methylbut-2-enyl)phenyl]-1-(2,4-dihydroxyphenyl)prop-2-en-1-one
44	GC44	liquiritin
45	GC45	licopyranocoumarin
46	GC46	Glyzaglabrin
47	GC47	Glabridin
48	GC48	Glabrone

49	GC49	1,3-dihydroxy-9-methoxy-6-benzofurano[3,2-c]chromenone
50	GC50	Eurycarpin A
51	GC51	(-)-Medicocarpin
52	GC52	Sigmoidin-B
53	GC53	(2R)-7-hydroxy-2-(4-hydroxyphenyl)chroman-4-one
54	GC54	(2S)-7-hydroxy-2-(4-hydroxyphenyl)-8-(3-methylbut-2-enyl)chroman-4-one
55	GC55	Isoglycyrol
56	GC56	Isolicoflavonol
57	GC57	HMO
58	GC58	1-Methoxyphaseollidin
59	GC59	Quercetin der.
60	GC60	3'-Hydroxy-4'-O-Methylglabridin
61	GC61	licochalcone a
62	GC62	3'-Methoxyglabridin
63	GC63	2-[(3R)-8,8-dimethyl-3,4-dihydro-2H-pyrano[6,5-f]chromen-3-yl]-5-methoxyphenol
64	GC64	Inflacoumarin A
65	GC65	icos-5-enoic acid
66	GC66	Kanzonol F
67	GC67	6-prenylated eriodictyol
68	GC68	7,2',4'-trihydroxy—5-methoxy-3—arylcoumarin
69	GC69	7-Acetoxy-2-methylisoflavone
70	GC70	gadelaidic acid
71	GC71	Vestitol

72	GC72	Gancaonin G
73	GC73	Gancaonin H
74	GC74	Licoagrocarpin
75	GC75	Glyasperins M
76	GC76	Glycyrrhiza flavonol A
77	GC77	Licoagroisoflavone
78	GC78	Odoratin
79	GC79	Phaseol
80	GC80	Xambioona
81	GC81	dehydroglyasperins C
82	GC82	quercetin
83	ZY1	Friedelin
84	ZY2	Cymarín
85	ZY3	Arundoin
86	ZY4	Cylindrin
87	ZY5	Isoorientin
88	BX1	24-Ethylcholest-4-en-3-one
89	BX2	Cavidine
90	BX3	baicalein
91	BX4	gondoic acid
92	BX5	coniferin
93	BX6	10,13-eicosadienoic
94	BX7	(3S,6S)-3-(benzyl)-6-(4-hydroxybenzyl)piperazine-2,5-quinone
95	MD1	Ophiopogonone B
96	MD2	Ophiopogonin A

97	MD3	Uridine
98	MD4	Ophiopogonanone A
99	MD5	Methyl Ophiopogonanone B
100	MD6	Guanosine
101	MD7	Ophiopogonin C
102	MD8	Methyl Ophiopogonanone A
103	MD9	Ophiopogonanone C
104	MD10	N-Trans-Feruloyltyramine
105	MD11	Ophiopogonin D
106	MD12	Ophiopogonin B
107	MD13	Ophiopogon B
108	MD14	Ophiopogon A
109	MD15	Orchinol
110	RS1	alexandrin_qt
111	RS2	Panaxadiol
112	RS3	Girinimbin
113	RS4	Ginsenoside-Rh4_qt
114	RS5	ginsenoside rh2
115	RS6	Frutinone A
116	RS7	arachidonate
117	RS8	Dianthramine
118	RS9	Deoxyharringtonine
119	RS10	Aposiopolamine
120	RS11	Inermin
121	RS12	Diop

122	RS13	Fumarine
123	A1	Stigmasterol
124	A2	kaempferol
125	A3	beta-sitosterol
126	ZY	Folium phyllostachydis henonis
127	RS	Ginseng radix et rhizoma
128	MD	Ophiopogonis radix
129	BX	Pinelliae rhizoma
130	GC	Glycyrrhizae radix et rhizoma