

**Supplementay Table 1: Target genes of 40 bioactive components in YYD**

<b>Number</b>	<b>Protein name</b>	<b>Gene name</b>
1	Progesterone receptor	PGR
2	Mineralocorticoid receptor	NR3C2
3	Nuclear receptor coactivator 2	NCOA2
4	Alcohol dehydrogenase 1C	ADH1C
5	Ig gamma-1 chain C region	IGHG1
6	Retinoic acid receptor RXR-alpha	RXRA
7	Nuclear receptor coactivator 1	NCOA1
8	Prostaglandin G/H synthase 1	PTGS1
9	Prostaglandin G/H synthase 2	PTGS2
10	Alpha-2A adrenergic receptor	ADRA2A
11	Sodium-dependent noradrenaline transporter	SLC6A2
12	Sodium-dependent dopamine transporter	SLC6A3
13	Beta-2 adrenergic receptor	ADRB2
14	Aldose reductase	AKR1B1
15	Urokinase-type plasminogen activator	PLAU
16	Leukotriene A-4 hydrolase	LTA4H
17	Amine oxidase [flavin-containing] B	MAOB
18	Amine oxidase [flavin-containing] A	MAOA
19	mRNA of PKA Catalytic Subunit C-alpha	PRKACA
20	Chymotrypsinogen B	CTRB1
21	Muscarinic acetylcholine receptor M3	CHRM3
22	Muscarinic acetylcholine receptor M1	CHRM1
23	Beta-1 adrenergic receptor	ADRB1
24	Sodium channel protein type 5 subunit alpha	SCN5A
25	5-hydroxytryptamine 2A receptor	HTR2A
26	Alpha-1A adrenergic receptor	ADRA1A
27	Gamma-aminobutyric-acid receptor alpha-3 subunit	GABRA3
28	Muscarinic acetylcholine receptor M2	CHRM2
29	Alpha-1B adrenergic receptor	ADRA1B
30	Gamma-aminobutyric acid receptor subunit alpha-1	GABRA1
31	Neuronal acetylcholine receptor protein, alpha-7 chain	CHRNA7
32	Cytochrome P450 51 (by homology)	CYP51A1
33	HMG-CoA reductase	HMGCR
34	LXR-alpha	NR1H3
35	Niemann-Pick C1-like protein 1	NPC1L1
36	Cytochrome P450 17A1	CYP17A1
37	3-oxo-5-alpha-steroid 4-dehydrogenase 2	SRD5A2
38	Estrogen receptor	ESR1
39	Androgen receptor	AR
40	3-oxo-5-alpha-steroid 4-dehydrogenase 1	SRD5A1
41	Glucocorticoid receptor	NR3C1
42	G-protein coupled bile acid receptor 1	GPBAR1
43	M-phase inducer phosphatase 2	CDC25B
44	5-hydroxytryptamine receptor 1E	HTR1E

45 Arachidonate 15-lipoxygenase	ALOX15
46 Estrogen receptor beta	ESR2
47 Aromatase	CYP19A1
48 Kappa-type opioid receptor	OPRK1
49 Phospholipase A2	PLA2G1B
50 Aldo-keto reductase family 1 member C2	AKR1C2
51 MAP kinase-activated protein kinase 2	MAPKAPK2
52 Bone morphogenetic protein 2	BMP2
53 Proto-oncogene serine/threonine-protein kinase Pim-1	PIM1
54 Steryl-sulfatase	STS
55 Serum albumin	ALB
56 Apolipoprotein A-II	APOA2
57 Thyroid hormone receptor beta	THRB
58 Caspase-7	CASP7
59 Carbonic anhydrase 2	CA2
60 Nuclear receptor ROR-alpha	RORA
61 Kinesin-like protein KIF11	KIF11
62 Estradiol 17-beta-dehydrogenase 11	HSD17B11
63 Vitamin D-binding protein	GC
64 Mitogen-activated protein kinase 1	MAPK1
65 Transthyretin	TTR
66 SEC14-like protein 2	SEC14L2
67 Collagenase 3	MMP13
68 Estradiol 17-beta-dehydrogenase 1	HSD17B1
69 Integrin alpha-L	ITGAL
70 Aldo-keto reductase family 1 member C3	AKR1C3
71 Bile acid receptor	NR1H4
72 Corticosteroid 11-beta-dehydrogenase isozyme 1	HSD11B1
73 Cell division protein kinase 2	CDK2
74 Proto-oncogene tyrosine-protein kinase Src	SRC
75 cAMP-specific 3,5-cyclic phosphodiesterase 4B	PDE4B
76 ADAM 17	ADAM17
77 Caspase-3	CASP3
78 Coagulation factor X	F10
79 Tyrosine-protein phosphatase non-receptor type 11	PTPN11
80 Peroxisome proliferator-activated receptor gamma	PPARG
81 Bile salt sulfotransferase	SULT2A1
82 Epidermal growth factor receptor	EGFR
83 Mitogen-activated protein kinase 8	MAPK8
84 Mitogen-activated protein kinase 14	MAPK14
85 Annexin A5	ANXA5
86 Dihydroorotate dehydrogenase, mitochondrial	DHODH
87 Glutathione reductase, mitochondrial	GSR
88 Peptidyl-prolyl cis-trans isomerase A	PPIA
89 S-methyl-5-thioadenosine phosphorylase	MTAP
90 Beta-secretase 1	BACE1

91 B-Raf proto-oncogene serine/threonine-protein kinase	BRAF
92 Serine/threonine-protein phosphatase 5	PPP5C
93 Sex hormone-binding globulin	SHBG
94 Nitric oxide synthase, endothelial	NOS3
95 Vascular endothelial growth factor receptor 2	KDR
96 Dihydrofolate reductase	DHFR
97 Troponin C, slow skeletal and cardiac muscles	TNNC1
98 Heat shock protein HSP 90	HSP90AA1
99 Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit, gamma	PIK3CG
100 Potassium voltage-gated channel subfamily H member 2	KCNH2
101 Dopamine D1 receptor	DRD5
102 Gamma-aminobutyric-acid receptor alpha-2 subunit	GABRA2
103 Muscarinic acetylcholine receptor M4	CHRM4
104 CGMP-inhibited 3',5'-cyclic phosphodiesterase A	PDE3A
105 Gamma-aminobutyric-acid receptor alpha-5 subunit	GABRA5
106 Neuronal acetylcholine receptor subunit alpha-2	CHRNA2
107 Sodium-dependent serotonin transporter	SLC6A4
108 Mu-type opioid receptor	OPRM1
109 Apoptosis regulator Bcl-2	BCL2
110 Apoptosis regulator BAX	BAX
111 Caspase-9	CASP9
112 Transcription factor AP-1	JUN
113 Caspase-8	CASP8
114 Protein kinase C alpha type	PRKCA
115 Transforming growth factor beta-1	TGFB1
116 Serum paraoxonase/arylesterase 1	PON1
117 Microtubule-associated protein 2	MAP2
118 Acetylcholinesterase	ACHE
119 Receptor-interacting serine/threonine-protein kinase 2	RIPK2
120 Prothrombin	F2
121 Histone deacetylase 8	HDAC8
122 Wiskott-Aldrich syndrome protein	WAS
123 Phenylethanolamine N-methyltransferase	PNMT
124 3-phosphoinositide-dependent protein kinase 1	PDPK1
125 Liver carboxylesterase 1	CES1
126 Serine/threonine-protein kinase Chk1	CHEK1
127 Trafficking protein particle complex subunit 3	TRAPPC3
128 TGF-beta receptor type-1	TGFBR1
129 Nitric oxide synthase, inducible	NOS2
130 Dipeptidyl peptidase IV	DPP4
131 Trypsin-1	PRSS1
132 DNA topoisomerase II	TOP2A
133 Coagulation factor VII	F7
134 Calmodulin	CAMKKA
135 Transcription factor p65	RELA
136 Inhibitor of nuclear factor kappa-B kinase subunit beta	IKBKB

137 RAC-alpha serine/threonine-protein kinase	AKT1
138 Tumor necrosis factor	TNF
139 Activator of 90 kDa heat shock protein ATPase homolog 1	AHSA1
140 Xanthine dehydrogenase/oxidase	XDH
141 Interstitial collagenase	MMP1
142 Signal transducer and activator of transcription 1-alpha/beta	STAT1
143 Cell division control protein 2 homolog	CDK1
144 Heme oxygenase 1	HMOX1
145 Cytochrome P450 3A4	CYP3A4
146 Cytochrome P450 1A2	CYP1A2
147 Cytochrome P450 1A1	CYP1A1
148 Intercellular adhesion molecule 1	ICAM1
149 E-selectin	SELE
150 Vascular cell adhesion protein 1	VCAM1
151 Nuclear receptor subfamily 1 group I member 2	NR1I2
152 Cytochrome P450 1B1	CYP1B1
153 Arachidonate 5-lipoxygenase	ALOX5
154 Hyaluronan synthase 2	HAS2
155 Glutathione S-transferase P	GSTP1
156 Aryl hydrocarbon receptor	AHR
157 26S proteasome non-ATPase regulatory subunit 3	PSMD3
158 Solute carrier family 2, facilitated glucose transporter member 4	SLC2A4
159 Nuclear receptor subfamily 1 group I member 3	NR1I3
160 Insulin receptor	INSR
161 Type I iodothyronine deiodinase	DIO1
162 Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform	PPP3CA
163 Glutathione S-transferase Mu 1	GSTM1
164 Glutathione S-transferase Mu 2	GSTM2
165 Antileukoproteinase	SLPI
166 NADPH oxidase 4	NOX4
167 Tyrosinase	TYR
168 Tyrosine-protein kinase receptor FLT3	FLT3
169 Carbonic anhydrase VII	CA7
170 Estradiol 17-beta-dehydrogenase 2	HSD17B2
171 Multidrug resistance-associated protein 1	ABCC1
172 Carbonic anhydrase XII	CA12
173 Estrogen-related receptor alpha	ESRRA
174 P-glycoprotein 1	ABCB1
175 ATP-binding cassette sub-family G member 2	ABCG2
176 Adenosine A1 receptor (by homology)	ADORA1
177 Carbonic anhydrase IV	CA4
178 Glyoxalase I	GLO1
179 Tyrosine-protein kinase SYK	SYK
180 Glycogen synthase kinase-3 beta	GSK3B
181 Matrix metalloproteinase 9	MMP9
182 Matrix metalloproteinase 2	MMP2

183 Arachidonate 12-lipoxygenase	ALOX12
184 Receptor-type tyrosine-protein phosphatase S	PTPRS
185 Adenosine A2a receptor (by homology)	ADORA2A
186 Cyclin-dependent kinase 5	CDK5
187 CDK5 activator 1	CDK5R1
188 cyclin B3	CCNB3
189 cyclin B1	CCNB1
190 cyclin B2	CCNB2
191 Arginase-1 (by homology)	ARG1
192 G-protein coupled receptor 35	GPR35
193 Death-associated protein kinase 1	DAPK1
194 DNA-3-methyladenine glycosylase	MPG
195 Solute carrier family 22 member 12	SLC22A12
196 Receptor-type tyrosine-protein phosphatase C	PTPRC
197 Tyrosine-protein phosphatase non-receptor type 22	PTPN22
198 Induced myeloid leukemia cell differentiation protein Mcl-1	MCL1
199 Dual specificity protein phosphatase 3	DUSP3
200 Carbonic anhydrase 5A, mitochondrial	CA5A
201 Macrophage migration inhibitory factor	MIF
202 Polyphenol oxidase 2	PPO2
203 Cocaine esterase	CES2
204 Bcl-2-related protein A1	BCL2A1
205 Ribosomal protein S6 kinase alpha-3	RPS6KA3
206 Carbonic anhydrase 13	CA13
207 Telomerase reverse transcriptase	TERT
208 Carbonic anhydrase 5B, mitochondrial	CA5B
209 Carbonic anhydrase 6	CA6
210 Alkaline phosphatase, tissue-nonspecific isozyme	ALPL
211 Toll-like receptor 9	TLR9
212 Testosterone 17-beta-dehydrogenase 3	HSD17B3
213 Carbonic anhydrase 9	CA9
214 DNA (cytosine-5)-methyltransferase 1	DNMT1
215 Carbonic anhydrase 14	CA14
216 Tubulin beta-2B chain	TUBB2B
217 Carboxy-terminal domain RNA polymerase II polypeptide A small pho	CTDSP1
218 Tubulin alpha-1A chain	TUBA1A
219 Tyrosine-protein phosphatase non-receptor type 1	PTPN1
220 Glycogen synthase kinase-3 alpha	GSK3A
221 High affinity cAMP-specific 3',5'-cyclic phosphodiesterase 7A	PDE7A
222 Hepatocyte nuclear factor 4-alpha	HNF4A
223 Ras-related C3 botulinum toxin substrate 1	RAC1
224 Mitogen-activated protein kinase 10	MAPK10
225 Cytochrome P450 2C9	CYP2C9
226 Protein kinase C epsilon type	PRKCE
227 Glutamate receptor ionotropic, NMDA 2B	GRIN2B
228 Thyroid hormone receptor alpha	THRA

229 Hydroxycarboxylic acid receptor 2	HCAR2
230 Amyloid beta A4 protein	APP
231 Tyrosine-protein kinase HCK	HCK
232 Cholinesterase	BCHE
233 Glucosylceramidase	GBA
234 Cell division protein kinase 6	CDK6
235 Angiogenin	ANG
236 Branched-chain-amino-acid aminotransferase, mitochondrial	BCAT2
237 Heat shock cognate 71 kDa protein	HSPA8
238 Complement factor B	CFB
239 Oxysterols receptor LXR-beta	NR1H2
240 NAD(P)H dehydrogenase [quinone] 1	NQO1
241 Carbonic anhydrase 1	CA1
242 Complement C1r subcomponent	C1R
243 Serine/threonine-protein kinase 6	AURKA
244 Retinoic acid receptor beta	RARB
245 Retinoic acid receptor gamma	RARG
246 Retinoic acid receptor RXR-beta	RXRB
247 Retinoic acid receptor RXR-gamma	RXRG
248 Retinoic acid receptor alpha	RARA
249 Protein kinase C gamma type	PRKCG
250 Potassium voltage-gated channel subfamily A member 3	KCNA3
251 Peptidyl-prolyl cis-trans isomerase FKBP1A	FKBP1A
252 Stromelysin-1	MMP3
253 cAMP-specific 3,5-cyclic phosphodiesterase 4D	PDE4D
254 Cyclin-A2	CCNA2
255 Flavin reductase	BLVRB
256 Ribosyldihyronicotinamide dehydrogenase [quinone]	NQO2
257 Ephrin type-B receptor 4	EPHB4
258 E3 ubiquitin-protein ligase Mdm2	MDM2
259 Alpha-tocopherol transfer protein	TTPA
260 Aldo-keto reductase family 1 member C1	AKR1C1
261 Receptor tyrosine-protein kinase erbB-4	ERBB4
262 Dual specificity protein phosphatase 6	DUSP6
263 Cathepsin K	CTSK
264 Peroxisome proliferator-activated receptor delta	PPARD
265 Proto-oncogene tyrosine-protein kinase LCK	LCK
266 Poly [ADP-ribose] polymerase 1	PARP1
267 Protein farnesyltransferase/geranylgeranyltransferase type-1 subunit alpha	FNTA
268 Methionine aminopeptidase 2	METAP2
269 Purine nucleoside phosphorylase	PNP
270 Serine/threonine-protein kinase PLK1	PLK1
271 Adenosine kinase	ADK
272 Insulin-like growth factor 1 receptor	IGF1R
273 Fatty acid-binding protein, adipocyte	FABP4
274 Complement factor D	CFD

275 Estrogen-related receptor gamma	ESRRG
276 Thymidylate synthase	TYMS
277 Glutathione S-transferase A1	GSTA1
278 Alcohol dehydrogenase 1B	ADH1B
279 Alcohol dehydrogenase class-3	ADH5
280 Fatty acid-binding protein, heart	FABP3
281 Prolyl endopeptidase	PREP
282 CHRNA7-FAM7A fusion protein	CHRFAM7A
283 Trace amine-associated receptor 1	TAAR1
284 Smoothed homolog	SMO
285 COUP transcription factor 2	NR2F2
286 Neuronal acetylcholine receptor subunit alpha-4	CHRNA4
287 Voltage-dependent N-type calcium channel subunit alpha-1B	CACNA1B
288 Interleukin-1 receptor-associated kinase 4	IRAK4
289 Histamine H3 receptor	HRH3
290 Putative ATP-dependent Clp protease proteolytic subunit, mitochondri	CLPP
291 Muscarinic acetylcholine receptor M5	CHRM5
292 Perilipin-1	PLIN1
293 P-selectin	SELP
294 Probable ATP-dependent RNA helicase DDX6	DDX6
295 Triggering receptor expressed on myeloid cells 1	TREM1
296 Cathepsin D	CTSD
297 Alpha-amylase 1	AMY1A
298 Tryptase beta-2	TPSB2
299 Chymase	CMA1
300 SPARC	SPARC
301 Seprase	FAP
302 Glutaminyl-peptide cyclotransferase	QPCT
303 Neutrophil gelatinase-associated lipocalin	LCN2
304 Lanosterol synthase	LSS
305 Cathepsin S	CTSS
306 Suppressor of tumorigenicity protein 14	ST14
307 Galectin-7	LGALS7
308 Carnitine O-acetyltransferase	CRAT
309 Serum amyloid P-component	APCS
310 Phenylalanine-4-hydroxylase	PAH
311 C-1-tetrahydrofolate synthase, cytoplasmic	MTHFD1
312 C-X-C chemokine receptor type 2	CXCR2
313 C-X-C chemokine receptor type 1	CXCR1
314 Glutamate carboxypeptidase 2	FOLH1
315 Dual specificity mitogen-activated protein kinase kinase 1	MAP2K1
316 Glycogen phosphorylase, liver form	PYGL
317 Prostaglandin E synthase	PTGES
318 Transient receptor potential cation channel subfamily V member 1	TRPV1
319 Cytochrome P450 2C19	CYP2C19
320 Tyrosine-protein kinase Fyn	FYN

321 Monoglyceride lipase	MGLL
322 Sphingosine 1-phosphate receptor 4	S1PR4
323 Photoreceptor-specific nuclear receptor	NR2E3
324 Tyrosine-protein phosphatase non-receptor type 7	PTPN7
325 DNA dC->dU-editing enzyme APOBEC-3A	APOBEC3A
326 Thrombopoietin receptor	MPL
327 Ribonuclease UK114	RIDA
328 Peroxiredoxin-5, mitochondrial	PRDX5
329 Glycine amidinotransferase, mitochondrial	GATM
330 Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1	B3GAT1
331 Kinesin heavy chain	KIF5B
332 Phosphoserine phosphatase	PSPH
333 Casein kinase II subunit alpha	CSNK2A1
334 ADP-ribose pyrophosphatase, mitochondrial	NUDT9
335 NAD-dependent malic enzyme, mitochondrial	ME2
336 Intercellular adhesion molecule 2	ICAM2
337 TGF-beta receptor type-2	TGFBR2
338 U1 small nuclear ribonucleoprotein A	SNRPA
339 Methionine aminopeptidase 1	METAP1
340 ADP-ribosylation factor 1	ARF1
341 Apolipoprotein(a)	LPA
342 Heparin-binding growth factor 1	FGF1
343 Glutaredoxin-1	GLRX
344 UDP-glucose 4-epimerase	GALE
345 Pyruvate dehydrogenase E1 component subunit beta, mitochondrial	PDHB
346 Ornithine carbamoyltransferase, mitochondrial	OTC
347 L-lactate dehydrogenase B chain	LDHB
348 Carboxypeptidase B	CPB1
349 Thymidine phosphorylase	TYMP
350 Renin	REN
351 Reticulon-4 receptor	RTN4R
352 Triosephosphate isomerase	TPI1
353 Phosphoenolpyruvate carboxykinase, cytosolic [GTP]	PCK1
354 Inositol monophosphatase	IMPA1
355 Bone morphogenetic protein 7	BMP7
356 Lactotransferrin	LTF
357 Cathepsin B	CTSB
358 Basic fibroblast growth factor receptor 1	FGFR1
359 cGMP-specific 3,5-cyclic phosphodiesterase	PDE5A
360 Peroxisome proliferator-activated receptor alpha	PPARA
361 Leukotriene B4 receptor 1	LTB4R
362 Sphingosine 1-phosphate receptor 1	S1PR1
363 Cannabinoid receptor 2	CNR2
364 Prostacyclin receptor	PTGIR
365 Prostaglandin F2-alpha receptor	PTGFR
366 Sterol O-acyltransferase 1	SOAT1



367 Prostaglandin D2 receptor	PTGDR
368 Phospholipase A2, membrane associated	PLA2G2A
369 Sphingosine 1-phosphate receptor 5	S1PR5
370 Prostaglandin E2 receptor EP2 subtype	PTGER2
371 Histone deacetylase 4	HDAC4
372 Sphingosine 1-phosphate receptor 2	S1PR2
373 Fatty-acid amide hydrolase 1	FAAH
374 Thromboxane A2 receptor	TBXA2R
375 Thromboxane-A synthase	TBXAS1
376 Free fatty acid receptor 1	FFAR1
377 Galanin receptor type 3	GALR3
378 Sphingosine 1-phosphate receptor 3	S1PR3
379 Farnesyl pyrophosphate synthase	FDPS
380 NAD-dependent protein deacetylase sirtuin-2	SIRT2
381 Prostaglandin E2 receptor EP4 subtype	PTGER4
382 Histone deacetylase 3	HDAC3
383 Cannabinoid receptor 1	CNR1
384 Cathepsin G	CTSG
385 DNA dC->dU-editing enzyme APOBEC-3G	APOBEC3G
386 Bifunctional epoxide hydrolase 2	EPHX2
387 Histone deacetylase 6	HDAC6
388 Angiotensin-converting enzyme	ACE
389 Tyrosine-protein phosphatase non-receptor type 2	PTPN2
390 Prostaglandin D2 receptor 2	PTGDR2
391 Glutathione-requiring prostaglandin D synthase	HPGDS
392 Kynurenine--oxoglutarate transaminase 1	KYAT1
393 Cytochrome P450 11B2, mitochondrial	CYP11B2
394 Serine/threonine-protein kinase pim-2	PIM2
395 Perilipin-5	PLIN5
396 Cytochrome P450 11B1, mitochondrial	CYP11B1
397 Cell division cycle 7-related protein kinase	CDC7
398 Serine/threonine-protein kinase pim-3	PIM3
399 5-hydroxytryptamine receptor 3A	HTR3A
400 Capsid scaffolding protein	UL80
401 Dual specificity protein kinase CLK1	CLK1
402 Alpha-2C adrenergic receptor	ADRA2C
403 Histamine H4 receptor	HRH4
404 Voltage-dependent T-type calcium channel subunit alpha-1H	CACNA1H
405 NF-kappa-B inhibitor alpha	NFKBIA
406 Interleukin-1 beta	IL1B
407 Caspase-1	CASP1
408 Interferon gamma	IFNG
409 Pituitary adenylate cyclase-activating polypeptide	ADCYAP1
410 Proteasome assembly chaperone 1	PSMG1
411 Dual specificity mitogen-activated protein kinase kinase 4	MAP2K4
412 Corticosteroid 11-beta-dehydrogenase isozyme 2	HSD11B2

413 Sodium/glucose cotransporter 2	SLC5A2
414 Sodium/glucose cotransporter 1	SLC5A1
415 Eosinophil lysophospholipase	CLC
416 cGMP-inhibited 3,5-cyclic phosphodiesterase B	PDE3B
417 Immunoglobulin alpha Fc receptor	FCAR
418 Cathepsin L2	CTSV
419 Chitotriosidase-1	CHIT1
420 Gastrotropin	FABP6
421 Neutrophil collagenase	MMP8
422 Group 10 secretory phospholipase A2	PLA2G10
423 5-hydroxytryptamine receptor 5A	HTR5A
424 Dual specificity tyrosine-phosphorylation-regulated kinase 1A	DYRK1A
425 Proto-oncogene tyrosine-protein kinase receptor Ret	RET
426 Protein kinase C beta type	PRKCB
427 Alpha-2B adrenergic receptor	ADRA2B
428 D(1A) dopamine receptor	DRD1
429 Macrophage metalloelastase	MMP12
430 Serine/threonine-protein kinase PAK 7	PAK5
431 Superoxide dismutase [Mn], mitochondrial	SOD2
432 Fibroblast growth factor receptor 2	FGFR2
433 Sorbitol dehydrogenase	SORD
434 Cytidine deaminase	CDA
435 Calcium-activated potassium channel subunit alpha 1	KCNMA1
436 Alpha-1D adrenergic receptor	ADRA1D
437 Endothelin-1 receptor	EDNRA
438 Endothelin B receptor	EDNRB
439 Dual specificity protein kinase CLK4	CLK4
440 Pyridoxine-5-phosphate oxidase	PNPO
441 Delta-type opioid receptor	OPRD1
442 Voltage-dependent L-type calcium channel subunit alpha-1S	CACNA1S
443 Type IV phosphodiesterase	PDE4
444 5-hydroxytryptamine receptor 1A	HTR1A
445 D(2) dopamine receptor	DRD2
446 Histamine H1 receptor	HRH1
447 5-hydroxytryptamine receptor 2C	HTR2C
448 5-hydroxytryptamine receptor 1B	HTR1B
449 Plasminogen	PLG
450 Sigma non-opioid intracellular receptor 1	SIGMAR1
451 Retinol-binding protein 4	RBP4
452 Beta-lactamase	DPEP1
453 cAMP-dependent protein kinase inhibitor alpha	PKIA
454 Vascular endothelial growth factor A	VEGFA
455 Cyclin-dependent kinase inhibitor 1	CDKN1A
456 Cellular tumor antigen p53	TP53
457 Fatty acid synthase	FASN
458 Superoxide dismutase [Cu-Zn]	SOD1

459 Catalase	CAT
460 Hypoxia-inducible factor 1-alpha	HIF1A
461 Cytosolic phospholipase A2	PLA2G4A
462 Canalicular multispecific organic anion transporter 1	ABCC2
463 Serine/threonine-protein kinase mTOR	MTOR
464 Catenin alpha-1	CTNNA1
465 Non-receptor tyrosine-protein kinase TYK2	TYK2
466 Glutamate receptor 2	GRIA2
467 Estrogen receptor	CCND1
468 Proto-oncogene c-Fos	FOS
469 Fos-related antigen 1	FOSL1
470 Fos-related antigen 2	FOSL2
471 Myeloperoxidase	MPO
472 Insulin-like growth factor II	IGF2
473 Cytochrome c	CYCS
474 Nuclear factor of activated T-cells, cytoplasmic 1	NFATC1
475 Tudor domain-containing protein 7	TDRD7
476 Egl nine homolog 1	EGLN1
477 NADPH oxidase 5	NOX5
478 Fatty acid-binding protein, epidermal	FABP5
479 Apolipoprotein D	APOD
480 Lysine-specific demethylase 4D-like	KDM4E
481 G protein-coupled receptor kinase 6	GRK6
482 Inosine-5'-monophosphate dehydrogenase 2	IMPDH2
483 Carbonyl reductase [NADPH] 1	CBR1
484 Bcl-2-like protein 1	BCL2L1
485 Interleukin-10	IL10
486 Retinoblastoma-associated protein	RB1
487 Cell division protein kinase 4	CDK4
488 Interleukin-6	IL6
489 DNA topoisomerase 1	TOP1
490 Proliferating cell nuclear antigen	PCNA
491 Receptor tyrosine-protein kinase erbB-2	ERBB2
492 Baculoviral IAP repeat-containing protein 5	BIRC5
493 Interleukin-2	IL2
494 Interleukin-4	IL4
495 Baculoviral IAP repeat-containing protein 4	BIRC4
496 CD40 ligand	CD40LG
497 Kinetochore protein Nuf2	NUF2
498 Adenylate cyclase type 2	ADCY2
499 Hepatocyte growth factor receptor	MET
500 Lymphocyte differentiation antigen CD38	CD38
501 Aldo-keto reductase family 1 member B10	AKR1B10
502 Tankyrase-2	TNKS2
503 Tankyrase-1	TNKS
504 Serine/threonine-protein kinase 6	STK6

505 Casein kinase I isoform gamma-2	CSNK1G2
506 Eukaryotic translation initiation factor 6	EIF6
507 Pro-epidermal growth factor	EGF
508 Cyclin-dependent kinase inhibitor 2A, isoforms 1/2/3	CDKN2A
509 ETS domain-containing protein Elk-1	ELK1
510 NADPH--cytochrome P450 reductase	POR
511 Ornithine decarboxylase	ODC1
512 RAF proto-oncogene serine/threonine-protein kinase	RAF1
513 Protein CBFA2T1	RUNX1T1
514 Probable E3 ubiquitin-protein ligase HERC5	HERC5
515 78 kDa glucose-regulated protein	HSPA5
516 Acetyl-CoA carboxylase 1	ACACA
517 Caveolin-1	CAV1
518 Myc proto-oncogene protein	MYC
519 Tissue factor	F3
520 Gap junction alpha-1 protein	GJA1
521 C-C motif chemokine 2	CCL2
522 Prostaglandin E2 receptor EP3 subtype	PTGER3
523 Interleukin-8	CXCL8
524 Dual oxidase 2	DUOX2
525 Heat shock protein beta-1	HSPB1
526 Estrogen sulfotransferase	SULT1E1
527 Maltase-glucoamylase, intestinal	MGAM
528 Tissue-type plasminogen activator	PLAT
529 Thrombomodulin	THBD
530 Plasminogen activator inhibitor 1	SERPINE1
531 Collagen alpha-1(I) chain	COL1A1
532 Phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase and dual-specific phosphatase 1	PTEN
533 Interleukin-1 alpha	IL1A
534 Neutrophil cytosol factor 1	NCF1
535 Nuclear factor erythroid 2-related factor 2	NFE2L2
536 Collagen alpha-1(III) chain	COL8A1
537 DNA gyrase subunit B	gyrB
538 C-X-C motif chemokine 11	CXCL11
539 C-X-C motif chemokine 2	CXCL2
540 DDB1- and CUL4-associated factor 5	DCAF5
541 Serine/threonine-protein kinase Chk2	CHEK2
542 Claudin-4	CLDN4
543 Heat shock factor protein 1	HSF1
544 C-reactive protein	CRP
545 C-X-C motif chemokine 10	CXCL10
546 Inhibitor of nuclear factor kappa-B kinase subunit alpha	CHUK
547 Osteopontin	SPP1
548 Runt-related transcription factor 2	RUNX2
549 Ras association domain-containing protein 1	RASSF1
550 Transcription factor E2F1	E2F1

551 Transcription factor E2F2	E2F2
552 Prostatic acid phosphatase	ACP3
553 Insulin-like growth factor-binding protein 3	IGFBP3
554 Interferon regulatory factor 1	IRF1
555 Receptor tyrosine-protein kinase erbB-3	ERBB3
556 Procollagen C-endopeptidase enhancer 1	PCOLCE
557 Puromycin-sensitive aminopeptidase	NPEPPS
558 Hexokinase-2	HK2
559 Homeobox protein Nkx-3.1	NKX3-1
560 Ras GTPase-activating protein 1	RASA1
561 Vasopressin V2 receptor	AVPR2
562 Serine/threonine-protein kinase Aurora-B	AURKB
563 Dopamine D4 receptor	DRD4
564 PI3-kinase p85-alpha subunit	PIK3R1
565 Focal adhesion kinase 1	PTK2
566 Carbonic anhydrase III	CA3
567 Protein kinase N1	PKN1
568 Serine/threonine-protein kinase NEK2	NEK2
569 CaM kinase II beta	CAMK2B
570 ALK tyrosine kinase receptor	ALK
571 Serine/threonine-protein kinase NEK6	NEK6
572 Tyrosine-protein kinase receptor UFO	AXL
573 NUAK family SNF1-like kinase 1	NUAK1
574 Aldo-keto reductase family 1 member C4 (by homology)	AKR1C4
575 Aldehyde reductase (by homology)	AKR1A1
576 Microtubule-associated protein tau	MAPT
577 Myosin light chain kinase, smooth muscle	MYLK
578 DNA-(apurinic or apyrimidinic site) lyase	APEX1
579 Platelet-activating factor receptor	PTAFR
580 Histone deacetylase 2	HDAC2

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