Table S4. Lists of up-regulated carcinoma-specific zebrafish enriched genes in different human cancer data sets. The up-regulated HCC-specific zebrafish enriched genes were significantly enriched (FDR q-value ≤0.05 and FWER p-value ≤0.05) in human hepatocellular carcinoma (GSE6764), human pancreatic adenocarcinoma (GSE16515), human colorectal carcinoma (GSE4183) and human lung adenocarcinoma (GSE7670). GSEA identified the genes from this gene list which contributed maximally to the GSEA scores of corresponding human cancer transcriptomic profiles.

Human cancer	No.	Gene Symbol	Gene Name
Human hepatocellular carcinoma (GSE6764)	1	ABCC2	ATP-binding cassette, sub-family C (CFTR/MRP), member 2
	2	ABI1	Abl-interactor 1
	3	ADAM10	ADAM metallopeptidase domain 10
	4	AHR	Aryl hydrocarbon receptor
	5	AIP	Aryl hydrocarbon receptor interacting protein
	6	ALCAM	Activated leukocyte cell adhesion molecule
	7	ANGPT1	Angiopoietin 1
	8	ANXA11	Annexin A11
	9	AP3B1	Adaptor-related protein complex 3, beta 1 subunit
	10	APOM	Apolipoprotein M
	11	ARHGEF2	Rho/Rac guanine nucleotide exchange factor (GEF) 2
	12	ARPC2	Actin related protein 2/3 complex, subunit 2, 34kDa
	13	ARPC5	Actin related protein 2/3 complex, subunit 5, 16kDa
	14	ARRB2	Arrestin, beta 2
	15	ASNS	Asparagine synthetase (glutamine-hydrolyzing)
	16	BAG2	BCL2-associated athanogene 2
	17	BCR	Breakpoint cluster region
	18	BIRC5	Baculoviral IAP repeat-containing 5
	19	BRD7	Bromodomain containing 7
	20	BSG	Basigin (Ok blood group)
	21	C1GALT1	Core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1
	22	CACNA1D	Calcium channel, voltage-dependent, L type, alpha 1D subunit
	23	CANX	Calnexin
	24	CAV1	Caveolin 1, caveolae protein, 22kDa
	25	CBL	Cas-Br-M (murine) ecotropic retroviral transforming sequence
	26	CCL21	Chemokine (C-C motif) ligand 21
	27	CCNA2	Cyclin A2
	28	CCNE1	Cyclin E1
	29	CCT4	Chaperonin containing TCP1, subunit 4 (delta)

30	CCT6A	Chaperonin containing TCP1, subunit 6A (zeta 1)
31	CCT7	Chaperonin containing TCP1, subunit 7 (eta)
32	CD74	CD74 molecule, major histocompatibility complex, class II invariant chain
33	CD9	CD9 molecule
34	CDC2	Cyclin-dependent kinase 1
35	CDC20	Cell division cycle 20 homolog (S. cerevisiae)
36	CDC27	Cell division cycle 27 homolog (S. cerevisiae)
37	CDC42EP4	CDC42 effector protein (Rho GTPase binding) 4
38	CDC45L	Cell division cycle 45 homolog (S. cerevisiae)
39	CDIPT	CDP-diacylglycerol—inositol 3-phosphatidyltransferase
40	COL1A2	Collagen, type XVIII, alpha 1
41	CORO1C	Coronin, actin binding protein, 1C
42	CPNE3	Copine III
43	CSNK2A1	Casein kinase 2, alpha 1 polypeptide
44	CSNK2B	Casein kinase 2, beta polypeptide
45	CTNNB1	Catenin (cadherin-associated protein), beta 1, 88kDa
46	CTSK	Cathepsin K
47	CXCR4	Chemokine (C-X-C motif) receptor 4
48	DBN1	Drebrin 1
49	DLG1	Discs, large homolog 1 (Drosophila)
50	DNAJA1	DnaJ (Hsp40) homolog, subfamily A, member 1
51	DUSP2	Dual specificity phosphatase 2
52	ECT2	Epithelial cell transforming sequence 2 oncogene
53	EIF4A2	Eukaryotic translation initiation factor 4A2
54	ENPP2	Ectonucleotide pyrophosphatase/phosphodiesterase 2
55	ERGIC3	ERGIC and golgi 3
56	EXT1	Exostosin 1
57	FBXO11	F-box protein 11
58	FLNC	Filamin C, gamma
59	FTH1	Ferritin, heavy polypeptide 1
60	GAD1	Glutamate decarboxylase 1 (brain, 67kDa)
61	GBF1	Golgi brefeldin A resistant guanine nucleotide exchange factor 1
62	GPR34	G protein-coupled receptor 34
63	GRB2	Growth factor receptor-bound protein 2
64	HS6ST1	Heparan sulfate 6-O-sulfotransferase 1
65	HSP90AA1	Heat shock protein 90kDa alpha (cytosolic), class A member 1
66	HSPD1	Heat shock 60kDa protein 1 (chaperonin)
67	IL15	Interleukin 15
68	KITLG	KIT ligand
69	KRT18	Keratin 18
70	LAMB1	Laminin, beta 1
71	LRPAP1	Low density lipoprotein receptor-related protein associated protein 1
72	MAPRE1	Microtubule-associated protein, RP/EB family, member 1
73	MCM4	Minichromosome maintenance complex component 4
74	MCM6	Minichromosome maintenance complex component 6
75	MCM7	Minichromosome maintenance complex component 7
76	MDM4	Mdm4 p53 binding protein homolog (mouse)
77	MET	Met proto-oncogene (hepatocyte growth factor receptor)
78	MOBKL1A	MOB1, Mps One Binder kinase activator-like 1A (yeast)

79	MR1	Major histocompatibility complex, class I-related
80	MYH10	Myosin, heavy chain 10, non-muscle
81	NCKIPSD	NCK interacting protein with SH3 domain
82	NPM1	Nucleophosmin (nucleolar phosphoprotein B23, numatrin)
83	NUP107	Nucleoporin 107kDa
84	PA2G4	Proliferation-associated 2G4, 38kDa
85	PARVB	Parvin, beta
86	PIK3C2A	Phosphoinositide-3-kinase, class 2, alpha polypeptide
87	POP4	Processing of precursor 4, ribonuclease P/MRP subunit (S. cerevisiae)
88	PPP1CB	Protein phosphatase 1, catalytic subunit, beta isozyme
89	RAB3GAP2	RAB3 GTPase activating protein subunit 2 (non-catalytic)
90	RABIF	RAB interacting factor
91	RAC1	Ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
92	RAC3	Ras-related C3 botulinum toxin substrate 3 (rho family, small GTP binding protein Rac3)
93	RACGAP1	Rac GTPase activating protein 1
94	RCC1	Regulator of chromosome condensation 1
95	RELA	v-Rel reticuloendotheliosis viral oncogene homolog A (avian)
96	RHOA	Ras homolog gene family, member A
97	RHOT1	Ras homolog gene family, member T1
98	ROCK2	Rho-associated, coiled-coil containing protein kinase 2
99	RPL10A	Ribosomal protein L10a
100	RPL13	Ribosomal protein L13
101	RPL18	Ribosomal protein L18
102	RPL19	Ribosomal protein L19
103	RPL23A	Ribosomal protein L23a
104	RPL28	Ribosomal protein L28
105	RPL30	Ribosomal protein L30
106	RPL35	Ribosomal protein L35
107	RPL35A	Ribosomal protein L35a
108	RPL4	Ribosomal protein L4
109	RPL5	Ribosomal protein L5
110	RPL7	Ribosomal protein L7
111	RPL7A	Ribosomal protein L7a
112	RPL8	Ribosomal protein L8
113	RPL9	Ribosomal protein L9
114	RPS10	Ribosomal protein S10
115	RPS12	Ribosomal protein S11
116	RPS18	Ribosomal protein S18
117	RPS2	Ribosomal protein S2
118	RPS21	Ribosomal protein S21
119	RPS3	Ribosomal protein S3
120	RPS5	Ribosomal protein S5
121	RPS7	Ribosomal protein S7
122	RPS8	Ribosomal protein S8
123	RRM1	Ribonucleotide reductase M1
124	RUNX1	Runt-related transcription factor 1
125	S100A4	S100 calcium binding protein A4
126	SCIN	Scinderin

	127	SLC25A3	Solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 3
	128	SP1	Sp1 transcription factor
	129	SSR2	Signal sequence receptor, beta (translocon-associated protein beta)
	130	STAT5B	Signal transducer and activator of transcription 5B
	131	STMN1	Stathmin 1
	132	TBX2	T-box 2
	133	TCF7	Transcription factor 7 (T-cell specific, HMG-box)
	134	TFDP1	Transcription factor Dp-1
	135	TGFB1	Transforming growth factor, beta 1
	136	TGFB2	Transforming growth factor, beta 2
	137	TIAL1	TIA1 cytotoxic granule-associated RNA binding protein-like 1
	138	TLN1	Talin 1
	139	TOM1	Target of myb1 (chicken)
	140	TPR	Translocated promoter region (to activated MET oncogene)
	141	TRPA1	Transient receptor potential cation channel, subfamily A, member 1
	142	TTN	Titin
	143	TXNDC5	Thioredoxin domain containing 5 (endoplasmic reticulum)
	144	UBE2D2	Ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast)
	145	UBE2H	Ubiquitin-conjugating enzyme E2H (UBC8 homolog, yeast)
	146	VANGL1	Vang-like 1 (van gogh, Drosophila)
	147	VAPA	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa
	148	VAV3	Vav 3 guanine nucleotide exchange factor
	149	VEGFC	Vascular endothelial growth factor C
	150	WNT4	Wingless-type MMTV integration site family, member 4
Human pancreatic adenocarcinoma (GSE16515)	1	ABI1	Abl-interactor 1
	2	ADAM10	ADAM metallopeptidase domain 10
	3	AHR	Aryl hydrocarbon receptor
	4	AIP	Aryl hydrocarbon receptor interacting protein
	5	ANXA11	Annexin A11
	6	ANXA4	Annexin A4
	7	ARHGEF2	Rho/Rac guanine nucleotide exchange factor (GEF) 2
	8	ARPC2	Actin related protein 2/3 complex, subunit 2, 34kDa
	9	ARPC5	Actin related protein 2/3 complex, subunit 5, 16kDa
	10	BCAR3	Breast cancer anti-estrogen resistance 3
	11	BCL2L1	BCL2-like 1
	12	BCR	Breakpoint cluster region
	13	BIRC2	Baculoviral IAP repeat-containing 2
	14	BIRC5	Baculoviral IAP repeat-containing 5
	15	BNIP3L	BCL2/adenovirus E1B 19kDa interacting protein 3-like
	16	BRD7	Bromodomain containing 7
	17	BSG	Basigin (Ok blood group)
	18	C1GALT1	Core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1
	19	CALM2	Calmodulin 2 (phosphorylase kinase, delta)
	20	CARS	Cysteinyl-tRNA synthetase
	21	CBL	Cas-Br-M (murine) ecotropic retroviral transforming sequence
	22	CCNA2	Cyclin A2
	23	CCNE1	Cyclin E1

24	CCT6A	Chaperonin containing TCP1, subunit 6A (zeta 1)
25	CCT7	Chaperonin containing TCP1, subunit 7 (eta)
26	CD74	CD74 molecule, major histocompatibility complex, class II invariant chain
27	CD9	CD9 molecule
28	CDC2	Cyclin-dependent kinase 1
29	CDC20	Cell division cycle 20 homolog (S. cerevisiae)
30	CDC27	Cell division cycle 27 homolog (S. cerevisiae)
31	CDC42	Cell division cycle 42 (GTP binding protein, 25kDa)
32	CDC45L	Cell division cycle 45 homolog (S. cerevisiae)
33	CDH1	Cadherin 1, type 1, E-cadherin (epithelial)
34	CHPT1	Choline phosphotransferase 1
35	CLOCK	Collagen, type I, alpha 2
36	COL18A1	Clock homolog (mouse)
37	COL1A2	Collagen, type XVIII, alpha 1
38	CORO1C	Coronin, actin binding protein, 1C
39	CSNK2A1	Casein kinase 2, alpha 1 polypeptide
40	CSNK2B	Casein kinase 2, beta polypeptide
41	CTNNB1	Catenin (cadherin-associated protein), beta 1, 88kDa
42	CTSK	Cathepsin K
43	CXCR4	Chemokine (C-X-C motif) receptor 4
44	DAD1	Defender against cell death 1
45	DBN1	Drebrin 1
46	DHCR7	7-Dehydrocholesterol reductase
47	DLG1	Discs, large homolog 1 (Drosophila)
48	DNAJA1	DnaJ (Hsp40) homolog, subfamily A, member 1
49	DUSP2	Dual specificity phosphatase 2
50	ECT2	Epithelial cell transforming sequence 2 oncogene
51	EFNB1	Ephrin-B1
52	EFNB2	Ephrin-B2
53	ETNK1	Ethanolamine kinase 1
54	EXT1	Exostosin 1
55	FGF18	Fibroblast growth factor 18
56	FLOT2	Flotillin 2
57	FPGS	Folylpolyglutamate synthase
58	FTH1	Ferritin, heavy polypeptide 1
59	GAD1	Glutamate decarboxylase 1 (brain, 67kDa)
60	GCHFR	GTP cyclohydrolase I feedback regulator
61	GJB2	Gap junction protein, beta 2, 26kDa
62	GRB2	Growth factor receptor-bound protein 2
63	GSK3B	Glycogen synthase kinase 3 beta
64	HP	Haptoglobin
65	HSP90AA1	Heat shock protein 90kDa alpha (cytosolic), class A member 1
66	HSPD1	Heat shock 60kDa protein 1 (chaperonin)
67	HSPE1	Heat shock 10kDa protein 1 (chaperonin 10)
68	ID1	Inhibitor of DNA binding 1, dominant negative helix-loop-helix protein
69	IL15	Interleukin 15
70	KDELR2	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2
71	KITLG	KIT ligand
72	KRT18	Keratin 18

73	LRP1	Low density lipoprotein receptor-related protein 1
74	MAPRE1	Microtubule-associated protein, RP/EB family, member 1
75	MCM4	Minichromosome maintenance complex component 4
76	MCM6	Minichromosome maintenance complex component 6
77	MCM7	Minichromosome maintenance complex component 7
78	MET	Met proto-oncogene (hepatocyte growth factor receptor)
79	MGAT4B	Mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme B
80	NCKIPSD	NCK interacting protein with SH3 domain
81	NOG	Noggin
82	NUP107	Nucleoporin 107kDa
83	PA2G4	Proliferation-associated 2G4, 38kDa
84	PARVA	Parvin, alpha
85	PARVB	Parvin, beta
86	PDIA3	Protein disulfide isomerase family A, member 3
87	PFKL	Phosphofructokinase, liver
88	PICALM	Phosphatidylinositol binding clathrin assembly protein
89	PIM1	Pim-1 oncogene
90	PMM2	Phosphomannomutase 2
91	POP4	Processing of precursor 4, ribonuclease P/MRP subunit (S. cerevisiae)
92	PPP1R3C	Protein phosphatase 1, regulatory (inhibitor) subunit 3C
93	RAB14	RAB14, member RAS oncogene family
94	RAB1A	RAB1A, member RAS oncogene family
95	RABIF	RAB interacting factor
96	RAC1	Ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
97	RACGAP1	Rac GTPase activating protein 1
98	RCC1	Regulator of chromosome condensation 1
99	RELA	v-Rel reticuloendotheliosis viral oncogene homolog A (avian)
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101	RND1	Rho family GTPase 1
102	RPL28	Ribosomal protein L28
103	RRM1	Ribonucleotide reductase M1
104	RUNX1	Runt-related transcription factor 1
105	S100A4	S100 calcium binding protein A4
106	SCIN	Scinderin
107	SHH	Sonic hedgehog
108	SMAD7	SMAD family member 7
109	SP1	Sp1 transcription factor
110	SPRY4	Sprouty homolog 4 (Drosophila)
111	TARS	Threonyl-tRNA synthetase
112	TCF7L2	Transcription factor 7-like 2 (T-cell specific, HMG-box)
113	TFDP1	Transcription factor Dp-1
114	TGFB1	Transforming growth factor, beta 1
115	TGFB2	Transforming growth factor, beta 2
116	TIAL1	TIA1 cytotoxic granule-associated RNA binding protein-like 1
117	TLN1	Talin 1
118	TLR3	Toll-like receptor 3
119	TNIP1	TNFAIP3 interacting protein 1
120	TOM1	Target of myb1 (chicken)
121	TPR	Translocated promoter region (to activated MET oncogene)

	122	TRPA1	Transient receptor potential cation channel, subfamily A, member 1
	123	UBE2H	Ubiquitin-conjugating enzyme E2H (UBC8 homolog, yeast)
	124	UBE2L3	Ubiquitin-conjugating enzyme E2L 3
	125	VANGL1	Vang-like 1 (van gogh, Drosophila)
	126	VAPA	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa
	127	VEGFC	Vascular endothelial growth factor C
Human colorectal carcinoma (GSE4183)	1	ABCC2	ATP-binding cassette, sub-family C (CFTR/MRP), member 2
	2	ADAM10	ADAM metallopeptidase domain 10
	3	AGT	Angiotensinogen (serpin peptidase inhibitor, clade A, member 8)
	4	AHR	Aryl hydrocarbon receptor
	5	AKT2	v-Akt murine thymoma viral oncogene homolog 2
	6	ALCAM	Activated leukocyte cell adhesion molecule
	7	AP3B1	Adaptor-related protein complex 3, beta 1 subunit
	8	ASNS	Asparagine synthetase (glutamine-hydrolyzing)
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	12	BIRC5	Baculoviral IAP repeat-containing 5
	13	BNIP3L	BCL2/adenovirus E1B 19kDa interacting protein 3-like
	14	BRD7	Bromodomain containing 7
	15	C1GALT1	Core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1
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	17	CARS	Cysteinyl-tRNA synthetase
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	19	CBL	Cas-Br-M (murine) ecotropic retroviral transforming sequence
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	22	CCT4	Chaperonin containing TCP1, subunit 4 (delta)
	23	CCT6A	Chaperonin containing TCP1, subunit 6A (zeta 1)
	24	CCT7	Chaperonin containing TCP1, subunit 7 (eta)
	25	CDC2	Cyclin-dependent kinase 1
	26	CDC20	Cell division cycle 20 homolog (S. cerevisiae)
	27	CDC27	Cell division cycle 27 homolog (S. cerevisiae)
	28	CDC45L	Cell division cycle 45 homolog (S. cerevisiae)
	29	CLEC11A	C-type lectin domain family 11, member A
	30	COL18A1	Clock homolog (mouse)
	31	COL1A2	Collagen, type XVIII, alpha 1
	32	CORO1C	Coronin, actin binding protein, 1C
	33	CPNE3	Copine III
	34	CSNK2B	Casein kinase 2, beta polypeptide
	35	CTNNB1	Catenin (cadherin-associated protein), beta 1, 88kDa
	36	CTSK	Cathepsin K
	37	CXCR4	Chemokine (C-X-C motif) receptor 4
	38	DAD1	Defender against cell death 1
	39	DBN1	Drebrin 1

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41	DNAJA1	DnaJ (Hsp40) homolog, subfamily A, member 1
42	DUSP1	Dual specificity phosphatase 1
43	DUSP2	Dual specificity phosphatase 2
44	ECT2	Epithelial cell transforming sequence 2 oncogene
45	EDEM1	ER degradation enhancer, mannosidase alpha-like 1
46	EGR1	Early growth response 1
47	ENPP2	Ectonucleotide pyrophosphatase/phosphodiesterase 2
48	ERGIC3	ERGIC and golgi 3
49	FADS2	Fatty acid desaturase 2
50	FGFR1	Fibroblast growth factor receptor 1
51	FLI1	Friend leukemia virus integration 1
52	FLNC	Filamin C, gamma
53	FLT1	Fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)
54	FPGS	Folylpolyglutamate synthase
55	GAD1	Glutamate decarboxylase 1 (brain, 67kDa)
56	GADD45B	Growth arrest and DNA-damage-inducible, beta
57	GALNT2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 2 (GalNAc-T2)
58	GCHFR	GTP cyclohydrolase I feedback regulator
59	GPD1	Glycerol-3-phosphate dehydrogenase 1 (soluble)
60	GSK3B	Glycogen synthase kinase 3 beta
61	HSPD1	Heat shock 60kDa protein 1 (chaperonin)
62	HSPE1	Heat shock 10kDa protein 1 (chaperonin 10)
63	INHBB	Inhibin, beta B
64	JAK1	Janus kinase 1
65	JUN	Jun proto-oncogene
66	KDELR2	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2
67	LAMB1	Laminin, beta 1
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75	NODAL	Nodal homolog (mouse)
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79	PARVA	Parvin, alpha
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81	PDIA3	Protein disulfide isomerase family A, member 3
82	PIK3C2A	Phosphoinositide-3-kinase, class 2, alpha polypeptide
83	PIM1	Pim-1 oncogene
84	PMM2	Phosphomannomutase 2
85	POP4	Processing of precursor 4, ribonuclease P/MRP subunit (S. cerevisiae)
86	PROX1	Prospero homeobox 1

	87	RAC3	Ras-related C3 botulinum toxin substrate 3 (rho family, small GTP binding protein Rac3)
	88	RACGAP1	Rac GTPase activating protein 1
	89	RCC1	Regulator of chromosome condensation 1
	90	RDX	Radixin
	91	RHOA	Ras homolog gene family, member A
	92	RND1	Rho family GTPase 1
	93	ROCK2	Rho-associated, coiled-coil containing protein kinase 2
	94	RPL35A	Ribosomal protein L35a
	95	RRM1	Ribonucleotide reductase M1
	96	RTN4RL2	Reticulon 4 receptor-like 2
	97	RUNX1	Runt-related transcription factor 1
	98	S100A4	S100 calcium binding protein A4
	99	SERPIND1	Serpin peptidase inhibitor, clade D (heparin cofactor), member 1
	100	SHH	Sonic hedgehog
	101	SLC8A1	Solute carrier family 8 (sodium/calcium exchanger), member 1
	102	SSR2	Signal sequence receptor, beta (translocon-associated protein beta)
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	106	TFDP1	Transcription factor Dp-1
	107	TGFB1	Transforming growth factor, beta 1
	108	TGFB2	Transforming growth factor, beta 2
	109	TGFB3	Transforming growth factor, beta 3
	110	TGFBR2	Transforming growth factor, beta receptor II (70/80kDa)
	111	TLN1	Talin 1
	112	TRPA1	Transient receptor potential cation channel, subfamily A, member 1
	113	TXNDC5	Thioredoxin domain containing 5 (endoplasmic reticulum)
	114	VANGL1	Vang-like 1 (van gogh, Drosophila)
	115	VEGFC	Vascular endothelial growth factor C
	116	VTN	Vitronectin
	117	WNT4	Wingless-type MMTV integration site family, member 4
	118	WWOX	WW domain containing oxidoreductase
Human lung adenocarcinoma (GSE7670)	1	ABCC2	ATP-binding cassette, sub-family C (CFTR/MRP), member 2
	2	AGT	Angiotensinogen (serpin peptidase inhibitor, clade A, member 8)
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21	GAD1	Glutamate decarboxylase 1 (brain, 67kDa)
22	GALNT2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 2 (GalNAc-T2)
23	GCG	Glucagon
24	GSTZ1	Glutathione transferase zeta 1
25	HP	Haptoglobin
26	HSPD1	Heat shock 60kDa protein 1 (chaperonin)
27	HSPE1	Heat shock 10kDa protein 1 (chaperonin 10)
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32	MCM6	Minichromosome maintenance complex component 6
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34	MGAT4B	Mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme B
35	PAX3	Paired box 3
36	PDIA3	Protein disulfide isomerase family A, member 3
37	PMM2	Phosphomannomutase 2
38	RACGAP1	Rac GTPase activating protein 1
39	RUNX1	Runt-related transcription factor 1
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45	TXNDC5	Thioredoxin domain containing 5 (endoplasmic reticulum)
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