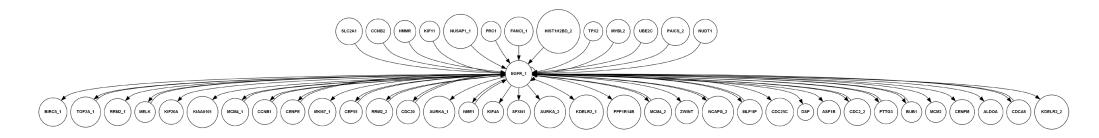


**Supplementary Figure 1 (A)** Gene expression values of *EGFR\_1*-activatory different mutual Pearson positive correlation molecules in high lung adenocarcinoma and the corresponding low human normal adjacent tissues by AVERAGE and STDEV measurement. **(B)** Vertical quantification chart of *EGFR\_1*-activatory different molecular mutual Pearson positive correlation coefficients in high lung adenocarcinoma. n=25. **(C)** The corresponding correlation coefficients in low human normal adjacent tissues. n=25. Con, human normal adjacent tissues; Ex, lung adenocarcinoma; Act, activation.



**Supplementary Figure 2** *EGFR\_1*-activatory molecular network of high lung adenocarcinoma by GRNInfer. n=25. Black arrow represents the activation relationship and empty circle as the inhibition one. Con, human normal adjacent tissues; Ex, lung adenocarcinoma; Act, activation.

cell cycle	35	retinoblastoma	3	microsatellite instability	2	Ex-Act-Terms and Number		mitotic spindle elongation	1	cholesteatoma	1	transcription from RNA polymerase II promoter	1
nucleus		microtubule	3	Parkinson's disease	2	chaperone-binding		tetanus		Eposarcoma		protein N-terminus-binding	1
protein-binding	30	Tissue-specificHs 2-Tissues-Blood and Lymph	3	pregnancy loss	2	anti-apoptosis		DNA topoisomerase complex (ATP-hydrolyzing)	1	carcinoma infiltrating duct	1	mitotic sister chromatid segregation	1
cytoplasm cell division	23	hyperplasia non-small cell lung cancer	3	homocysteine homocysteine   vitamin B12   transcobalamin	2	protein complex localization spindle checkpoint		viral integration complex  DNA topoisomerase (ATP-hydrolyzing) activity	1	fibroid tumor laryngeal squamous cell carcinoma	1	mitotic checkpoint establishment of cellular localization	1
nucleotide-binding		malignant neoplasm of pancreas	3	Alzheimer's disease	2	negative regulation of caspase activity		protein kinase C-binding		carcinoma neuroendocrine		ubiquitin-protein ligase activity	1
ATP-binding	18	lymphoma	3	neural tube defects	2	positive regulation of progression through mitotic cell cycle	1	protein C-terminus-binding	1		1	cyclin catabolism	1
DNA replication mitosis	15	Role of Ran in mitotic spindle regulation extracellular matrix (sensu Metazoa)	2	hyperhomocysteinemia atherosclerosis	2	establishment of chromosome localization  Contributedcellular processHs Apoptosis		DNA-dependent ATPase activity drug-binding		neurocytoma central aggression	1	protein ubiquitination regulation of protein metabolism	1
M phase	13 13	skeletal development	2	coronary   homocysteine	2	protease inhibitor activity		histone deacetylase-binding	1	astrocytoma		positive regulation of cell proliferation	1
M phase of mitotic cell cycle microtubule cytoskeleton	12	histogenesis herpes simplex	2	nucleotidyltransferase activity response to endogenous stimulus negative regulation of ubiquitin ligase activity during mitotic	2	endopeptidase inhibitor activity bcellsurvivalPathway		ubiquitin-binding DNA topological change	1	adenoma pleomorphic histone-binding		alopecia osteosarcoma	1
nucleoplasm	11	latent infection	2	negative regulation of uniquitin agase activity during matouc cell cycle	2	metabolic diseases	1	DNA ligation	1	spermatogenesis	1	malaria	1
Contributedcellular processHs cell cycle KEGG	10	membrane fraction	2	Ubiquitin mediated proteolysis	2	The Organic Acidemias An Overview		chromosome segregation	1	chromatin modification	1	autoimmune diseases	1
cytokinesis malignant neoplasms	10	transporter activity  Contributedcellular processHs IL-3 NetPath 15	2	ubiquitin cycle protein transport	2	protein tyrosine phosphatase activity  WW domain-binding		apoptotic chromosome condensation positive regulation of apoptosis	1	condensed nuclear chromosome	1	mucositis virus diseases	1
chromosome	9	carcinoma squamous cell	2	GTPase activity	2	regulation of cyclin-dependent protein kinase activity	1	positive regulation of retroviral genome replication	1	spindle pole body	1	arthritis	1
DNA-binding	9	psoriasis	2	actin cytoskeleton	1	regulation of mitosis	1	Apoptotic DNA fragmentation and tissue homeostasis	1	mitotic spindle checkpoint	1	pemphigoid bullous	1
cytosol	8	asthma	2	I band	1	traversing start control point of mitotic cell cycle	1	dermatofibrosarcoma	1	chromosome aberrations	1	chagas disease	1
Tissue-specificHs 1-Tissue-Embryonic Stem Cell	8	Estrogen-responsive protein Efp controls cell cycle and breast tumors growth	2	extracellular vesicular exosome	1	dephosphorylation	1	cervical intraepithelial neoplasia	1	somatic mutations	1	rheumatoid arthritis	1
neoplasms	8	endoplasmic reticulum		actin-binding	1	phosphoprotein phosphatase activity		cervical lesion		colorectal tumors	1	hypersensitivity	1
chromatin	7	endoplasmic reticulum membrane	2	fructose-bisphosphate aldolase activity	1	regulation of protein kinase activity	1	meningioma	1	outer kinetochore of condensed chromosome	1	autoimmunity	1
regulation of transcription DNA-dependent	7	receptor activity	2	tubulin-binding	1	regulation of transferase activity	1	pancreatic carcinoma	1	kinetochore-binding	1	phosphoribosylaminoimidazole carboxylase complex	1
Golgi apparatus	6	KDEL sequence-binding	2	fructose-binding	1	Contributedcellular processHs Wnt NetPath 8	1	bladder carcinoma	1	mitotic metaphase	1	phosphoribosylaminoimidazole carboxylase activity	1
neoplasm metastasis	6	protein retention in ER	2	glycolysis	1	cdc25 and chk1 Regulatory Pathway in response to DNA damage	1	lymphoma b-cell	1	mitotic chromosome movement towards spindle pole	1	phosphoribosylaminoimidazolesuccinocarboxamide synthase activity	1
transferase activity	6	Cholera - Infection	2	ATP biosynthesis	1	RB Tumor Suppressor/Checkpoint Signaling in response to	1	ductal breast carcinoma	1	mitotic metaphase plate congression	1	purine nucleotide biosynthesis	1
transcription	6	peptide-binding	2	striated muscle contraction	1	DNA damage  Regulation of cell cycle progression by Plk3	1	benign meningioma			1	de novo' IMP biosynthesis	1
adenocarcinoma	6	ADP-Ribosylation Factor	2	actin filament organization	1	Contributedcellular processHs Hedgehog Netpath 10	1	cervix dysplasia	1	kinetochore assembly	1	purine base biosynthesis	1
cell proliferation	6	mitochondrion	2	metabolism	1	AKAP95 role in mitosis and chromosome dynamics	1	odontogenic cysts	1	nucleosome	1	8-oxo-78-dihydroguanine triphosphatase activity	1
leukemia	5	cation transport	2	regulation of cell shape	1	Cyclins and Cell Cycle Regulation	1	ameloblastoma	1	Systemic lupus erythematosus	1	response to oxidative stress	1
regulation of cell cycle	5	centriole	2	fructose 16-bisphosphate metabolism	1	Stathmin and breast cancer resistance to antimicrotubule agents	1	stromal tumors		establishment and or maintenance of chromatin architecture	1	adenomatous polyposis coli	1
malignant neoplasm of breast nucleolus Contributedcellular processHs Cell Cycle-G1 to S control	5	protein complex protein homodimerization activity	2	muscle maintenance Glycolysis / Gluconeogenesis	1	subarachnoid hemorrhage hypertension   left ventricular function		adenoma oxyphilic colorectal carcinoma	1	protein complex assembly chromatin assembly	1	cardiomegaly heart failure	1
Reactome	,	protein heterodimerization activity	2	Pentose phosphate pathway	1	comified envelope	1	metaplasia		paralysis	1	polyposis	1
microtubule-based process response to DNA damage stimulus	5	G2/M transition of mitotic cell cycle apoptosis	2	Fructose and mannose metabolism  energy derivation by oxidation of organic compounds	1	bridging epidermis development	1	cellular aspects of carcinoma of esophagus		supranuclear palsy progressive loss of heterozygosity	1	cardiomyopathy cardiomyopathy congestive	1
DNA polymerase	5	positive regulation of exit from mitosis	2	hexose metabolism	1	peptide cross-linking		condylomata		frontotemporal lobar degeneration	1	diabetes type 1	1
Contributedcellular processHs DNA replication Reactome	5	enzyme inhibitor activity	2	Contributedmetabolic processHs Glycolysis and Gluconeogenesis	1	keratinocyte differentiation	1	carcinoma renal cell	1	wallerian degeneration	1	alcoholism	1
down syndrome  Purine metabolism	5	negative regulation of apoptosis  negative regulation of programmed cell death	2	muscle contraction  Downregulated of MTA-3 in ER-negative Breast Tumors	1	intermediate filament intermediate filament cytoskeleton	1	lymphoma low-grade neoplasms epithelial	1	motor neuron disease hydrocephalus normal pressure	1	alcohol abuse   smoking behavior ALDOA (aldolase A fructose-bisphosphate)	1
DNA repair	5	maple syrup urine disease	2	extracellular region	1	cytoskeleton	1	pituitary adenoma	1	demyelination	1	SLC2A1 (solute carrier family 2 (facilitated glucose transpor	rter) membe
phosphoinositide-mediated signaling	5	cellular component	2	extracellular matrix structural constituent	1	Contributedcellular processHs Alpha6-Beta4-Integrin	1	adenocarcinoma of the stomach	1	parkinson disease	1	1) CCNB2 (cyclin B2)	
charcot-marie-tooth disease	5	protein amino acid dephosphorylation	2	calcium ion-binding	1	NetPath 1 cell surface	1	ependymoma	1	diabetic neuropathies	1	KDELR2_1 (KDEL (Lys-Asp-Glu-Leu) endoplasmic reticul	ılum protein
Ivase activity	4	interspecies interaction between organisms	2	collagen-binding	1	hyaluronic acid-binding	1	histopathology	1	axonal type 2a	1	retention receptor 2)  KDELR2_2 (KDEL (Lys-Asp-Glu-Leu) endoplasmic reticul	ılum protein
			_	ossification						carcinoma embryonal		retention receptor 2) SFXN1 (sideroflexin 1)	
integral to membrane	4	Activation of Src by Protein-tyrosine phosphatase alpha			1		1				1		
integral to membrane p53 signaling pathway	4	Activation of Src by Protein-tyrosine phosphatase alpha  Cell Cycle: G2/M Checkpoint	2	sensory perception of sound	1	ECM-receptor interaction cell motility		pituitary adenoma nonfunctioning colorectal neoplasms	1	axonal type 2d	1	BIRC5_1 (baculoviral IAP repeat-containing 5)	
		, , , , , , , , , , , , , , , , , , , ,				·	1			·			
p53 signaling pathway intracellular protein transport spindle microtubule	4 4	Cell Cycle: G2/M Checkpoint  Sonic Hedgehog (SHH) Receptor Ptc1 Regulates cell cycle  How Progesterone Initiates Oocyte Membrane	2 2 2	sensory perception of sound detection of abiotic stimulus plasma membrane	1 1	cell mobility locomotion carbohydrate-binding	1 1	colorectal neoplasms astrocytoma grade iii gioma subependymal	1 1	axonal type 2d hereditary neuropathy subcortical arteriosclerotic encephalopathy	1 1	BIRC5_1 (baculoviral IAP repeat-containing 5)  CDC25C (cell division cycle 25 homolog C (8. pombe))  CDCA8 (cell division cycle associated 8)	
p53 signaling pathway intracellular protein transport	4 4	Cell Cycle: G2/M Checkpoint Sonic Hedgehog (SHH) Receptor Ptc1 Regulates cell cycle How Progesterone Initiates Oocyte Membrane Inspertension	2 2 2	sensory perception of sound detection of abiotic stimulus	1	cell motility locometion carbohydrate-binding locometory behavior	1 1 1 1	colorectal neoplasms astrocytoma grade iii glioma subependymal carcinoma adenosquamous	1 1	axonal type 2d hereditary new opadry subcortical arteriosclerotic encephalopathy nerve degeneration	1 1	BIRCS_1 (baculoviral IAP repeat-containing 5)  CDC25C (cell division cycle 25 homolog C (S. pombe))  CDCA8 (cell division cycle associated 8)  CENPM (centromere protein M)	
p53 signaling pathway intracellular protein transport spindle microtubule Colorectal cancer	4 4 4	Cell Cycle: G2/M Checkpoint  Sonic Hedgehog (SHH) Receptor Ptc1 Regulates cell cycle  How Progesterone Imitates Oocyte Membrane hypertension cell junction	2 2 2 2 2	sensory perception of sound detection of abiotic stimulus plasma membrane basolateral plasma membrane	1 1 1	cell mobility locomotion carbohydrate-binding	1 1 1 1 1	colorectal neoplasms astrocytoma grade iii gioma subependymal	1 1 1 1 1	axonal type 2d hereditary neuropathy subcortical arteriosclerotic encephalopathy	1 1 1 1 1	BIRC5_1 (baculoviral IAP repeat-containing 5)  CDC25C (cell division cycle 25 homolog C (8. pombe))  CDCA8 (cell division cycle associated 8)	
p53 signaling pathway intra-cellular protein transport spindle microtubule Colorectal cancer condensed chromosome kinetochore	4 4 4 4	Cell Cycle: G2/M Checkpoint  Sonic Hedgehog (SHH) Receptor Ptc1 Regulates cell cycle  How Progesterone Initiates Oocyte Membrane hypertension cell junction	2 2 2 2 2	sensory perception of sound detection of abiotic stimulus plasma membrane baselsteral plasma membrane melanorome	1 1 1 1 1	cell motility locomotion carbohydrate-binding locomotory behavior multiple myeloma and other plasma cell neoplasms	1 1 1 1 1	color ectal neoplasms astrocytoma grade iii glioma subependymal carcinoma adenosquamous carcinoma papillary	1 1 1 1 1	axonal type 2d hereditary neuropathy subcortical arterioscleroic encephalopathy nerve degeneration huntington disease	1 1 1 1 1	BIRCS_1 (bacdoviral IAP repeat-containing 5)  CDC25C (cell division cycle 25 homolog C (S. pombe))  CDCA8 (cell division cycle associated 8)  CENPM (centromere protein M)  CNB1 (cyclin B1)	)
p53 signaling pathway intra-cellular protein transport spindle micronbule Colorectal cancer condensed chromosome kinetochore carcinoma malignant tumor of colon microtobule motor activity	4 4 4 4 4 4 4	Cell Cycle: G2M Checkgoint  Sonic Hedgehog (SHH) Receptor Ptc1 Regulates cell cycle  How Progesterone Initiates Oocyte Membrane hypertension  cell junction  structural constituent of cytoskeleton  melanoma gioma	2 2 2 2 2 2 2	sensory perception of sound detection of abiotic stimulus plasma membrane basolarar plasma membrane melanosome sugar porter activity glucose transporter activity substrate-specific transmembrane transporter activity	1 1 1 1 1 1 1	cell motility Incomotion Carbolty drate-binding Incomotory behavior multiple myeloma and other plasma cell neoplasms myeloid feukemia chronic myeloma filtrosarcoma	1 1 1 1 1 1 1	colorectal neoplasms astrocytoma grade iii gloma subependymal carcinoma adenosquamous carcinoma appillary myeloid metaplasia denifigerous cyst nevus intradermal	1 1 1 1 1 1 1	axonal type 2d  her oditary neuropathy  subcortical arteriosclerotic encephalopathy nerve degeneration  huntington disease peripheral sensory neuropathy neurodegenerative diseases gliosis	1 1 1 1 1 1 1	BIRCS_1 (baculoviral IAP repeat-containing 5)  CDC25C (cell division cycle 25 homolog C (S. pombe))  CDCA5 (cell division cycle associated 8)  CENPM (centromere protein M)  CCNB1 (cyclin B1)  DSP (detmoplakin)  HMD/R (hyaluronan-mediated motility receptor (RHAMM))  KIF11 (kinesin family member 11)	)
p53 signaling pathway intra-cellular protein transport spindle microthule Colorectal cancer condensed dromosome kinetochore carcinoma malignant tumor of colon	4 4 4 4 4 4	Cell Cycle G2M Checkgoint Senic Hedgehog (SHH) Receptor Pte1 Regulates cell cycle How Progestrone Initiates Oncyte Membrane hypertension cell junction structural constituent of cytoskeleton melanoma	2 2 2 2 2 2 2 2	sensory perception of sound detection of abiotic stimulus plasma membrane baselateral plasma membrane melanosome sugar porter activity placose transporter activity	1 1 1 1 1 1 1	cell motility locomotion carbolydrate-binding locomotory behavior multiple myeloma and other plasma cell neoplasms myeloid feudemia chronic myeloma	1 1 1 1 1 1 1 1	color ectal neoplasms astrocytoma grade ii gioma subependymal carcinoma adenosquamous carcinoma apallary myeloid metaplasia denigerous cyst	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	axonal type 2d  bereditary neuropathy subcortical arterios/clerotic encephalopathy terve degeneration huntington disease peripheral sensory neuropathy neurodegenerative diseases	1 1 1 1 1 1 1 1	BIRCS_1 (baculoviral IAP repeat-containing 5)  CDC25°C (cell division cycle 25 homolog C (S. pombe))  CDCA5 (cell division cycle associated 3)  CENPM (centromere protein M)  CCNB1 (cyclin B1)  DSP (desmoplakin)  HMMR (hyaluronan-mediated motility receptor (RHAMM))	)
p53 signaling pathway intra cellular protein transport spindle microntule Colorectal cancer condensed chromosome kinetochore carcinoma malignant tumor of colon microtubule motor activity microtubule-based movement motor activity protein serine threonine kinase activity	4 4 4 4 4 4 4	Cell Cycle G2M Checkgoint  Sonic Hedgehog (SHH) Receptor Ptcl Regulates cell cycle  How Progesterone Initiates Oocyte Membrane hypertension  cell junction  structural countineers of cytoskeleton  melanoma  glioma  sinflammasion solid tumor  breast carcisoma	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	sensory perception of sound detection of abiotic stimulus plasma membrane basolateral plasma membrane melanosome sagar porter activity glucose transporter activity substrate-specific transmembrane transporter activity carbohydrate transport discose transport transport transport transmembrane transport transmembrane transport	1 1 1 1 1 1 1 1 1	cell motility becometion carboltydrare-binding locometory behavior mudiple myeloma and other plasma cell neoplasms myeloid leukemia chronic myeloma fibro-sarcoma restenosis leukemia haivy cell moxoma	1 1 1 1 1 1 1 1 1 1	color ectal neoplasms astrocytoma grade ii gloma subependymal carcinoma adenosquamous carcinoma apapllary myeloid metaplasia denilgerous cyst nevus intradermal endomentria carcinoma phollodes tumor metastatic carcinoma metastatic carcinoma metastatic carcinoma	1 1 1 1 1 1 1 1 1 1	axonal type 2d  her offiary neuropathy subcortical arterios clerotic encephalopathy nerve degeneration huntington disease peripheral sensory neuropathy neurodegenerative diseases gliosis dementia vascular neurous system diseases cytomegalovirus infections	1 1 1 1 1 1 1 1 1 1	BIRCS_1 (baculoviral IAP repeat-containing 5)  CDC25C (cell division cycle 25 homolog C (S. pombe))  CDCA5 (cell division cycle associated 8)  CENPM (centmenre protein M)  CCNB1 (cyclin B1)  DSP (detempolation)  HM.OR (byalaronan-mediated motility receptor (RHAMM))  KIF11 (kinesin family member 11)  KIF4A (kinesin family member 4A)  MELK (maternal melwysuic leucitic zipper kinase)  MCM2 (misichromosome maintenance complex component	
p53 signaling pathway intra-cellular grotein transport spindle naicrotubule Colorectal cancer condensed davomosome kinetochore carcinoma malignant tumor of colon microtubule motor activity microtubule shased movement motor activity protein serinies threeoime kinase activity protein amino acid phosphorylation	4 4 4 4 4 4 4	Cell Cycle G2M Checkgoint Sonic IEdegehog (SHH) Receptor Ptc1 Regulates cell cycle How Progesterone Initiates Occyte Membrane hypertension cell junction structural constituent of cyteskeleton melanoma glioma strillmunasion solid numo treat carcinoma spindle pole	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	sensory perception of sound detection of abiotic stimulus plasma membrane baselateral plasma membrane melanosome sugar porter activity placose transporter activity substrate-specific transmembrane transporter activity carbolydrade transport placose transport	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eell motility locomotion carbolyd are-binding Locomotory behavior multiple myeloma and other plasma cell neoplasms myediol lenkemia chronic myeloma fire sar coma restenois lenkemia hairy cell myeloma osteoordinitis	1 1 1 1 1 1 1 1 1 1 1 1	color ectal neoplasms astrocytoma grade ii gloma subependymal carcinoma papillary myelod metaplasia denigerous cyst myelod metaplasia denigerous cyst endometrial carcinoma plyfuledo tumor metastatic carcinoma plyfuledo tumor metastatic carcinoma keratoa cantinoma keratoa cantinoma	1 1 1 1 1 1 1 1 1 1	axonal type 2d  hereditary neuropathy  subcortical atterioriclerotic encephalopathy  subcortical atterioriclerotic encephalopathy  neurodeserotic encephalo	1 1 1 1 1 1 1 1	BIRCS_1 (baculoviral IAP repeat-containing 5)  CDC25°C (cell division cycle 25 homolog C (S. pombe))  CDCA5 (cell division cycle associated 3)  CENPM (centromere protein M)  CCNB1 (cyclin B1)  DSP (demoplakin)  HAMR (lyaluronan-mediated moility receptor (RHAMM))  KIF11 (kinesin family member 11)  KIF4A (kinesin family member 4A)  MELK (maternal embryonic lesuries eipper kinase)	12)
p53 signaling pathway intra-cibilar protein transport spindle microtubule Colorectal cancer condensed dromosome kinetochore carcinoma malignant tumor of colon microtubule motor activity microtubule based movement motor activity protein serine threeonine kinase activity protein amino acid phosphorylation	4 4 4 4 4 4 4 4 4 4 4	Cell Cycle G2M Checkgoint  Sonic Hedgehog (SHH) Receptor Ptcl Regulates cell cycle  How Progesterone Initiates Oocyte Membrane hypertension  cell junction  structural countineers of cytoskeleton  melanoma  glioma  sinflammasion solid tumor  breast carcisoma	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	sensory perception of sound detection of absitis stimulus plasma membrane plasma amembrane melanosome melanosome sugar poter activity glucose transporter activity cardobydrate transporter activity cardobydrate transport placose transport danamembrane transport Adipocytokine signaling pathway	1 1 1 1 1 1 1 1 1 1 1 1	cell motility becometion carboltydrare-binding locometory behavior mudiple myeloma and other plasma cell neoplasms myeloid leukemia chronic myeloma fibro-sarcoma restenosis leukemia haivy cell moxoma	1 1 1 1 1 1 1 1 1 1 1 1 1	color ectal neoplasms astrocytoma grade ii gloma subependymal carcinoma adenosquamous carcinoma apapllary myeloid metaplasia denilgerous cyst nevus intradermal endomentria carcinoma phyllodofe tumor metastatic carcinoma metastatic carcinoma metastatic carcinoma	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	axonal type 2d  her offiary neuropathy subcortical arterios clerotic encephalopathy nerve degeneration huntington disease peripheral sensory neuropathy neurodegenerative diseases gliosis dementia vascular neurous system diseases cytomegalovirus infections	1 1 1 1 1 1 1 1 1 1 1 1 1	BIRCS_1 (baculoviral IAP repeat-containing 5)  CDC25C (cell division cycle 25 homolog C (S. pombe))  CDCA6 (cell division cycle associated 8)  CENPAI (centromere protein M)  CCNB1 (cyclin B1)  DSP (demoplakin)  HMDMR (hyaluronan-mediated motility receptor (RHAMM))  KIF11 (kinesin famly member 41)  MEEL (maternal embyonic leuche zipper kinase)  MEEL (maternal embyonic leuche zipper kinase)  MCMC (misikomosome mainterance complex component  MLF11P (MLF1 interacting protein)	12)
p53 signaling pathway intra-cellular protein transport spindle micronhule Colorectal cancer condensed chromosome kinetochore Carcinoma malignant tumor of colon microthule-based movement microthule-based movement motor activity protein serine-threonine kinase activity protein serine-threonine kinase activity protein minio acid phosphorylation DNA unwinding during replication DNA replication initiation CDK Regulation of DNA Replication	4 4 4 4 4 4 4 4 4 4 4 4	Cell Cycle G2M Checkpoint  Senic Hedgehog (SHH) Receptor Ptcl Regulates cell cycle  How Progestrone Initiates Oocyte Membrane hypertension  cell junction structural constituent of cytoskeleton melanoma gloma sulfammasion solid tumor breast carcinoma spindle pole regulation of phosphorylation shock neuropathology	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	sensory perception of sound detection of absitis stimulus plasma membrane plasma amembrane melanosome sugar porter activity glucose transporter activity glucose transporter activity curbollydrate transporter place activity curbollydrate transporter place activity place activi	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eedi motility locomotion carbeluyd aret-binding Locomotory behavior multiple myeloma and other plasma cell neoplasms myedoid lenkemia chronic myeloma Bibrosarcoma rettenosis lenkemia hairy cell myo, coma osteoarthrikis kinesia complex	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	color ectal neoplasms astrocytoma grade ii gioma subependymal carcitoma adenosquamous carcitoma papillary myeloid metaplasia denigerous cyst denigerous cyst endosmetrial carcitoma pioliodes tumor metastatic carcitoma pioliodes tumor metastatic carcitoma keratoacauthoma keratoacauthoma oligodendrogioma	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	axonal type 2d hereditary neuropathy sub-cortical atterior-ferotic encephalopathy sub-cortical atterior-ferotic encephalopathy sub-cortical atterior-ferotic encephalopathy sub-cortical atterior sub-maintained sub-cortical sub-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BIRCS_1 (bacdoviral IAP repeat-containing 5)  CDC25C (cell division cycle 25 homolog C (S. pombe))  CDCA5 (cell division cycle 25 homolog C (S. pombe))  CDCA6 (cell division cycle associated 3)  CENPM (centromere protein M)  CCNB1 (cyclin B1)  DSP (demoplakin)  HAMR (byalurona-mediated moillity receptor (RHAMM))  KIF11 (Sincein family member 11)  KIF14 (Sincein family member 4A)  MELK (maternal embryonic leutiene zipper kinase)  MCM2 (minichromosome maintenance complex component  MLF11P (MLF1 internation protein)  MLF11P (MLF1 internation protein)  NCAPG_2 (non-SMC condensis It complex subunit 0)  NUSAPI_1 (macleular and spindle associated protein 1)	12)
p53 signaling pathway intra-cellular protein transport spindle micronhule Colorectal cancer condensed chromosome kinetochore carcinoma malignant tumor of colon microthule-based movement microthule-based movement motor activity protein serine-threonine kinase activity protein serine-threonine kinase activity protein serine-threonine kinase activity protein amino acid phosphopylation DNA unwinding during replication DNA unwinding during replication DNA replication initiation CDK Regulation of DNA Replication Pyrimidine metabolism	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Cell Cycle G2M Checkgoint Smic Hedgehog (SHH) Receptor Pte1 Regulates cell cycle How Progesterone Initiates Oocyte Membrane hypertension cell junction structural constituent of cytoskeleton melatoma gloma inflammation sold tumor tress tractiona spindle pole regulation of phosphoxylation slock	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	sensory perception of sound detection of abiotic stimulus plasma membrane basolateral plasma membrane melanosome usapar porter activity glucose transporter activity glucose transporter activity carbohydrate transport patives transport transmembrane transporter activity carbohydrate transport dransmembrane transport dransmembrane transport dransmembrane transport Contributed activities Contributed activities Contributed—celiblar process—Hs Insulin Signaling Vitamin C in the Brain demnatilis atopic	1 1 1 1 1 1 1 1 1 1 1 1 1 1	cell motility locomotion carbolydrate-binding locomotory behavior multiple myeleona and other plasma cell neoplasms myeloid leukemia chronic myelenna fibrosarcoma eestenosis leukemia hairy cell myxoma osteoardiniis kineisia complex mitotic spindle organization and biogenesis mitotic centrosome separation spindle pole body organization and biogenesis	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	color ectal neoplasms astrocytoma grade ii gioma subependymal carcinoma adenosquamous carcinoma papillary myeloid metaplasia denigerous cyst nevus intradermal endometrial carcinoma phythodes tumor metastatic carcinoma kertaocardinoma digodendrogioma pigmented skin lesion	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	axonal type 2d bereditary neuropathy subcortical arterios/clerotic encephalopathy nerv degeneration huntington disease peripheral sensory neuropathy neurodegenerative diseases gloois dementia vascular neurous system diseases cytomegalovirus infections axonal type 2e amoytorghic lateral sclerosis peripheral neuropathy ensocidar atrophy muscular atrophy hereditary motor and sensory neuropathy type iic	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BIRCS_1 (bacdoviral IAP repeat-containing 5)  CDC25C (cell division cycle 25 homolog C (S. pombe))  CDCA5 (cell division cycle 25 homolog C (S. pombe))  CDCA6 (cell division cycle associated 3)  CENPM (centromere protein M)  CCNB1 (cyclin B)  DSP (desmoplakin)  HMMR (hyaluronan-mediated motility receptor (RHAMM))  KIF11 (kincieni family member 4A)  KIF14A (kincieni family member 4A)  MCMD (minichromosome maintenance complex component  MCMD (minichromosome maintenance complex component  MLF11P (MLF1 interacting protein)  NCA10 (minichromosome maintenance complex component  MLF11P (MLF1 interacting protein)  NCA20 (minichromosome maintenance complex component  NCA11 (non-metastatic cells 1 protein (NM23A) expressed ii  NCA20_2 (non-SMC condensis 1 complex subunit 6)  NUSAP1_1 (mucleolar and spindle associated protein 1)  PTTG3 (pinultary tumor-transforming 3)	: 2) in)
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Charcot-Marie-Tooth neuropathy Type 2D/1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BIRCS_1 (baculoviral IAP repeat-containing 5)  CDC25C (cell division cycle 25 homolog C (8. pombe))  CDCA5C (cell division cycle associated 5)  CENPM (centromere protein M)  CCNB (cycli division cycle associated 5)  CENPM (centromere protein M)  DSP (desmoplakin)  HAMR (hyaluconan-mediated motility receptor (RHAAMM))  KEF10 (kinesin family member 11)  KIF11 (kinesin family member 11)  KIF14 (kinesin family member 14)  MELK (maternal embryonic leucine zipper kinase)  MCM2 (misichromosome maintenance complex component  MCM2 (misichromosome maintenance complex component  MCM2 (misichromosome maintenance complex subunit G)  NMEI (100 (MEF1 interacting protein)  NMEI (non-metastatic cells 1 protein (NM23A) expressed i  NCAPG_2 (non-SMC condensin I complex subunit G)  NUSAPP_1 (mucloular and spindle associated protein I)  PTTG3 (priotiatry tumor-transforming 3)  PTFG3 (priotiatry tumor-transforming 3)  FRR12 (protein phosphatase 1 regulatory (inhibitor) subunit G)  RRN12 (inflowancestide reductate M) polyopspide)  RRN12 (inflowancestide reductate M) polyopspide)  TOPEA, I (topicismerase (DNA) II alpha 170EDa)  MK167_1 (antigen identified by monoclonal antibody Ki-67)  AURKA_1 (uneroa kinase A)  BUB1 (budding unishibite thy bensimidazoles 1 homolog (ye  CENPE (centromera protein E 131EDa)  RNNC1_1 (Taucou i anemia complementation group I)	in)  unit 14B)
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Netherton atopic dermatikis. melarosom in Netherton atopic dermatikis embryosic development (sensu Manmalia)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eedi motility locomotion carbolty dare-binding carbolty dare-binding locomotory behavior multiple myeleona and other plasma cell neoplasms myediel leukemia chronic myeleona five sarcoma restenosis leukemia haivy cell myeleona leukemia haivy cell myeleona osteoorthritis kinesis complex mitotic spindle organization and biogenesis mitotic carpione separation spindle pole body organization and biogenesis mitotic carpione separation spindle pole body organization and biogenesis micelear matrix organelle organization and biogenesis micelear matrix corganelle organization and biogenesis micelear matrix Corganization capt orangorit proteis tyrosine kinase activity MCM complex Cornibuted-cellular process—Hs TNF-alpha-NF-4E) McPath 9 deoxynhomiclease activity uncleoside diphosphate kinase activity UTP biosynthesis UTP biosynthesis UTP biosynthesis crapleation of apoptoois		color ectal neoplasms astrocytoma grade iii gloma subependymal carcinoma adenosequamous carcinoma paghlary myeloid metaplasia denigerous cyst denigerous cyst evus istra-dermal endometrial carcinoma plyllodest namor metastatic carcinoma plyllodest namor metastatic carcinoma plyllodest namor metastatic carcinoma keratoacanthoma oligodennotal sin lesion staga év metanoma anaplastic ependymonna angiestic ependymonna aggresiveness hymphona lighe grade synowiki pigmented villonodular hymphona non-hodgitiss transitional cell accinoma malignant fibrous histocytoma bowens disease cicatric hypestrophic cystademocacinoma carcinoma medidiary carcinoma endisease carcinoma mendilary carcinoma endisease carcinoma mendilary carcinoma endisease carcinoma mendilary carcinoma endisease carcinoma mendilary carcinoma mendilary carcinoma mendilary carcinoma mendilary	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	axonal type 2d hereditary neuropathy subcortical arteriors clerotic encephalopathy subcortical arteriors clerotic encephalopathy success description in the subcortical arteriors clerotic encephalopathy neurodegenerative diseases peripheral sensory neuropathy neurodegenerative diseases glitosis dementia vascular nervous system diseases cytomegalovirus infections axonal type 2e amyotrophic lateral sclerosis peripheral neuropathy membership arteriors axonal type 2e amyotrophic lateral sclerosis peripheral neuropathy hereditary motor and sensory neuropathy type iic parkinsorian disorders axonal type 2b amyotrophic lateral sclerosis parkinsorian disorders axonal type 2b arterior conference of the scheme axonal type 2b care conference of the scheme axonal type 2b care conference district Tooth Neuropathy Type 1 Charcot-Marie-Tooth Neuropathy Type 2 E/1F Charcot-Marie-Tooth Neuropathy Type 2E/1F Charcot-Marie-Tooth neuropathy Type 2E/1F Charcot-Marie-Tooth neuropathy Type 2DNA replication origin-binding DNA-discred DNA polymerase activity consulcases activity Sphase of mixed participation origin-defining DNA-discred DNA polymerase activity Consulcases activity Sphase of mixed participation origin-defining DNA systelesis during DNA systelesis during DNA repair	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BIRCS 1 (baculoviral IAP repeat-containing 5)  CDC25C (cell division cycle 25 homolog C (S. pombe))  CDCA5 (cell division cycle 25 homolog C (S. pombe))  CDCA6 (cell division cycle associated 5)  CENPAI (centromere protein M)  CCNB1 (cyclin B1)  DSP (demoplatin)  HMMR (hyaluronan-mediated motility receptor (RHAMM))  KEFI (kinesin family member 11)  KIFI (kinesin family member 4A)  MEEK (maternal embryonic leucine zipper kinase)  MEETI (maternal embryonic leucine zipper kinase)  MCA70 (michromotem maintenance complex component  MCAPQ_2 (non-SMC condensis I complex subunit 0)  NCAPQ_2 (non-SMC condensis I complex subunit 0)  NCAPQ_2 (non-SMC condensis I complex subunit 0)  PPTG3 (pinharay temor-transforming 3)  PPPTIR14B (grotein phosphatase 1 regulatory (zidabitor) subunit 0)  PRC1 (protein regulator of cytokinesis 1)  PPRC1 (protein generase (DNA) al jaha 1704CDa)  KIS67_1 (aurigen identified by mono-lonal ambody Ki-67)  ASFIB (ASFI auri-shenning function 1 homolog B (S. cerev  AURKA_2 (aurora kinase A)  BUB1 (louding unirhibited by benzimiázades 1 homolog (ve  CENPE_CL (Transcen subriase Call SIAMDa)  HISTIHZBD_2 (bistone cluster 1 HZbd)	in) in) inininininininininininininininin
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**Supplementary Figure 3** *EGFR\_1*-activatory terms and occurrence numbers in high lung adenocarcinoma based on GO, KEGG, GenMAPP, BioCarta and Disease via MAS 3.0. Ex, lung adenocarcinoma; Act, activation.